FINAL REPORT PHASE I

**VOLUME II OF IV
BOOK 3 OF 4**

**ASSESSMENT OF UNDERGROUND COAL
GASIFICATION IN BITUMINOUS COALS
• CATALOG OF BITUMINOUS COALS
AND SITE SELECTION**

**APPENDIX A
NATIONAL COAL RESOURCE DATA SYSTEM
ECOAL, WCOAL AND BMALYT**

**prepared for the
U.S. DEPARTMENT OF ENERGY
MORGANTOWN ENERGY TECHNOLOGY CENTER
UNDER CONTRACT NO. DE-AC05-80MC 14584**

**PROCESS DIVISION
OF
WILLIAMS BROTHERS ENGINEERING COMPANY**

A Resource Sciences Company

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FINAL REPORT PHASE I

VOLUME II OF IV BOOK 3 OF 4

✓ ASSESSMENT OF UNDERGROUND COAL GASIFICATION IN BITUMINOUS COALS: • CATALOG OF BITUMINOUS COALS AND SITE SELECTION. ^{3H}

APPENDIX A ^{2H} NATIONAL COAL RESOURCE DATA SYSTEM: ECOAL, WCOAL AND BMALYT ¹

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TECHNICAL STATUS

This technical report is being transmitted in advance of DOE review and no further dissemination or publication shall be made of the report without prior approval of the DOE Project/Program Manager.

PREFACE

Appendix A is a catalog of the bituminous coal in 29 states of the contiguous United States which contain identified bituminous coal resources.

cullman county												
bit												
underwood												
0-1000	5.40	0.00	0.00	5.40	0.00	0.00	0.00	0.00	5.40	0.00	0.00	5.40
upper cliff 1												
0-1000	4.90	0.00	0.00	4.90	0.00	0.00	0.00	0.00	4.90	0.00	0.00	4.90
upper cliff 2												
0-1000	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.10	0.00	0.00	0.10
county total =	10.30	0.00	0.00	10.30	0.10	0.00	0.00	0.10	10.40	0.00	0.00	10.40
de kalb county												
bit												
black creek												
0-1000	41.30	30.40	1.90	73.60	55.20	11.30	0.00	66.50	96.50	41.70	1.90	140.10
county total =	41.30	30.40	1.90	73.60	55.20	11.30	0.00	66.50	96.50	41.70	1.90	140.10
etowah county												
bit												
underwood												
0-1000	12.00	1.60	0.00	13.60	0.00	0.00	0.00	0.00	12.00	1.60	0.00	13.60
upper cliff 1												
0-1000	2.00	0.00	0.00	2.00	0.40	0.00	0.00	0.40	2.40	0.00	0.00	2.40
upper cliff 2												
0-1000	0.70	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.70
county total =	14.70	1.60	0.00	16.30	0.40	0.00	0.00	0.40	15.10	1.60	0.00	16.70
fayette county												
bit												
altoona												
0-1000	0.00	0.00	0.00	0.00	2.60	3.20	0.00	5.80	2.60	3.20	0.00	5.80
county total =	0.00	0.00	0.00	0.00	2.60	3.20	0.00	5.80	2.60	3.20	0.00	5.80
jackson county												
bit												
black creek												
0-1000	0.00	0.00	0.00	0.00	20.90	0.00	0.00	20.90	20.90	0.00	0.00	20.90
cobb												
0-1000	31.00	0.00	0.00	31.00	3.60	0.00	0.00	3.60	34.60	0.00	0.00	34.60
fire clay												
0-1000	1.80	0.00	0.00	1.80	0.00	0.00	0.00	0.00	1.80	0.00	0.00	1.80
jagger												
0-1000	0.00	0.00	0.00	0.00	9.00	4.70	1.50	15.20	9.00	4.70	1.50	15.20
jefferson												
0-1000	0.00	0.00	0.00	0.00	16.20	0.00	0.00	16.20	16.20	0.00	0.00	16.20
mary lee												
0-1000	2.40	7.10	0.00	9.50	304.20	246.10	0.00	550.30	306.60	253.20	0.00	559.80
1-2000	0.00	0.00	0.00	0.00	57.70	5.10	0.00	62.80	57.70	5.10	0.00	62.80
pratt												
0-1000	21.90	22.70	67.30	111.90	120.00	75.80	83.00	278.80	141.90	98.50	150.30	390.70
county total =	57.10	29.80	67.30	154.20	531.60	331.70	84.50	947.80	588.70	361.50	151.80	1102.00

jefferson county												

bit												
american												
0-1000	36.90	27.90	20.10	84.90	82.40	8.30	0.00	90.70	119.30	36.20	20.10	175.60
black creek												
0-1000	159.50	21.40	0.00	180.90	402.10	20.10	1.40	423.60	561.60	41.50	1.40	604.50
1-2000	0.00	0.00	0.00	0.00	14.20	0.00	0.00	14.20	14.20	0.00	0.00	14.20
clark												
0-1000	0.00	0.00	0.00	0.00	5.60	0.00	0.00	5.60	5.60	0.00	0.00	5.60
cobb												
0-1000	12.60	0.00	0.00	12.60	10.80	0.00	0.00	10.80	23.40	0.00	0.00	23.40
fire clay												
0-1000	80.60	12.50	0.00	93.10	63.40	10.30	0.00	73.70	144.00	22.80	0.00	166.80
gould												
0-1000	0.00	0.00	0.00	0.00	4.20	4.70	1.50	10.40	4.20	4.70	1.50	10.40
1-2000	0.00	0.00	0.00	0.00	6.10	2.70	0.80	9.60	6.10	2.70	0.80	9.60
2-3000	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00	4.00	0.00	0.00	4.00
gwin												
0-1000	20.30	53.40	21.50	95.20	15.80	9.90	0.80	26.50	36.10	63.30	22.30	121.70
harkness												
0-1000	0.00	0.00	0.00	0.00	2.80	7.20	4.00	14.00	2.80	7.20	4.00	14.00
1-2000	0.00	0.00	0.00	0.00	7.20	12.00	3.60	22.80	7.20	12.00	3.60	22.80
2-3000	0.00	0.00	0.00	0.00	3.60	8.30	0.00	11.90	3.60	8.30	0.00	11.90
helena												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	10.50	10.50	0.00	0.00	10.50	10.50
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	13.20	13.20	0.00	0.00	13.20	13.20
jefferson												
0-1000	42.70	16.40	3.90	63.00	40.70	19.40	0.00	60.10	83.40	35.80	3.90	123.10
mary lee												
0-1000	138.70	87.20	390.90	616.80	185.90	150.30	331.90	668.10	324.60	237.50	722.80	1284.90
1-2000	13.20	5.40	38.20	56.80	138.40	136.20	350.20	624.80	151.60	141.60	388.40	681.60
nunnally												
0-1000	0.00	0.00	0.00	0.00	10.80	16.30	10.60	37.70	10.80	16.30	10.60	37.70
1-2000	0.00	0.00	0.00	0.00	21.50	14.00	1.00	36.50	21.50	14.00	1.00	36.50
2-3000	0.00	0.00	0.00	0.00	5.70	0.90	0.00	6.60	5.70	0.90	0.00	6.60
pratt												
0-1000	41.80	88.60	83.40	213.80	106.70	133.40	57.80	297.90	148.50	222.00	141.20	511.70
utley												
0-1000	0.00	1.50	0.70	2.20	0.00	1.00	1.00	2.00	0.00	2.50	1.70	4.20
wadsworth												
0-1000	0.00	0.00	0.00	0.00	0.00	1.00	5.80	6.80	0.00	1.00	5.80	6.80
1-2000	0.00	0.00	0.00	0.00	2.90	5.10	6.60	14.60	2.90	5.10	6.60	14.60
county total =	546.30	314.30	558.70	1419.30	1134.80	561.10	800.70	2496.60	1681.10	875.40	1359.40	3915.90

marion county												

bit												
jefferson												
0-1000	27.50	115.10	0.00	142.60	86.40	25.10	0.00	111.50	113.90	140.20	0.00	254.10
county total =	27.50	115.10	0.00	142.60	86.40	25.10	0.00	111.50	113.90	140.20	0.00	254.10

shelby county												

bit												
buck												
0-1000	0.00	0.00	0.00	0.00	2.70	8.70	2.00	13.40	2.70	8.70	2.00	13.40
1-2000	0.00	0.00	0.00	0.00	14.00	24.80	5.10	43.90	14.00	24.80	5.10	43.90

2-3000	0.00	0.00	0.00	0.00	4.00	2.70	0.00	6.70	4.00	2.70	0.00	6.70
clark												
0-1000	0.00	0.00	0.00	0.00	20.70	13.60	4.90	39.20	20.70	13.60	4.90	39.20
1-2000	0.00	0.00	0.00	0.00	20.30	50.00	8.30	78.60	20.30	50.00	8.30	78.60
2-3000	0.00	0.00	0.00	0.00	18.70	10.10	0.00	28.80	18.70	10.10	0.00	28.80
gholson												
0-1000	0.00	0.00	0.00	0.00	17.20	17.60	3.10	37.90	17.20	17.60	3.10	37.90
1-2000	0.00	0.00	0.00	0.00	18.60	44.90	13.90	77.40	18.60	44.90	13.90	77.40
2-3000	0.00	0.00	0.00	0.00	8.50	27.50	6.40	42.40	8.50	27.50	6.40	42.40
gould												
0-1000	0.00	0.00	0.00	0.00	4.30	1.00	1.20	6.50	4.30	1.00	1.20	6.50
1-2000	0.00	0.00	0.00	0.00	11.10	3.40	0.00	14.50	11.10	3.40	0.00	14.50
2-3000	0.00	0.00	0.00	0.00	24.80	0.00	0.00	24.80	24.80	0.00	0.00	24.80
helena												
0-1000	0.00	0.00	0.00	0.00	18.60	18.90	5.00	42.50	18.60	18.90	5.00	42.50
1-2000	0.00	0.00	0.00	0.00	26.40	8.80	3.90	39.10	26.40	8.80	3.90	39.10
lower thompson												
0-1000	0.00	0.00	0.00	0.00	3.40	17.60	9.10	30.10	3.40	17.60	9.10	30.10
1-2000	0.00	0.00	0.00	0.00	0.00	2.40	1.90	4.30	0.00	2.40	1.90	4.30
martin												
0-1000	0.00	1.20	3.00	4.20	0.00	0.00	0.00	0.00	0.00	1.20	3.00	4.20
1-2000	0.00	0.00	0.00	0.00	0.00	1.00	2.70	3.70	0.00	1.00	2.70	3.70
2-3000	0.00	0.00	0.00	0.00	0.00	0.70	2.00	2.70	0.00	0.70	2.00	2.70
montevallo												
0-1000	0.00	0.00	0.00	0.00	8.00	15.80	29.80	53.60	8.00	15.80	29.80	53.60
1-2000	0.00	0.00	0.00	0.00	0.00	4.80	3.20	8.00	0.00	4.80	3.20	8.00
nunnally												
0-1000	0.00	0.00	0.00	0.00	13.00	6.30	1.40	20.70	13.00	6.30	1.40	20.70
1-2000	0.00	0.00	0.00	0.00	25.30	6.00	1.80	33.10	25.30	6.00	1.80	33.10
2-3000	0.00	0.00	0.00	0.00	19.20	2.10	0.00	21.30	19.20	2.10	0.00	21.30
pump												
0-1000	0.00	0.00	0.00	0.00	5.10	0.00	0.00	5.10	5.10	0.00	0.00	5.10
upper thompson												
0-1000	0.00	0.00	0.00	0.00	6.50	7.10	2.00	15.60	6.50	7.10	2.00	15.60
1-2000	0.00	0.00	0.00	0.00	11.40	6.20	0.00	17.60	11.40	6.20	0.00	17.60
wadsworth												
0-1000	0.00	0.00	0.00	0.00	4.30	7.20	1.90	13.40	4.30	7.20	1.90	13.40
1-2000	0.00	0.00	0.00	0.00	9.00	5.20	0.40	14.60	9.00	5.20	0.40	14.60
2-3000	0.00	0.00	0.00	0.00	5.20	2.80	0.00	8.00	5.20	2.80	0.00	8.00
youngblood												
0-1000	0.00	0.00	0.00	0.00	8.30	10.90	1.40	20.80	8.30	10.90	1.40	20.80
1-2000	0.00	0.00	0.00	0.00	41.60	27.90	4.00	73.50	41.60	27.90	4.00	73.50
2-3000	0.00	0.00	0.00	0.00	13.00	10.40	0.00	23.40	13.00	10.40	0.00	23.40
county total =	0.00	1.20	3.00	4.20	383.40	366.40	115.40	865.20	383.40	367.60	118.40	869.40

st clair

county

bit												
broken arrow												
0-1000	1.00	0.80	0.00	1.80	0.00	0.00	0.00	0.00	1.00	0.80	0.00	1.80
clark												
0-1000	0.00	0.00	0.00	0.00	5.80	0.00	0.00	5.80	5.80	0.00	0.00	5.80
coal city												
0-1000	0.60	0.20	0.00	0.80	0.00	0.00	0.50	0.50	0.60	0.20	0.50	1.30
fairview												
0-1000	13.50	0.60	0.00	14.10	1.90	0.00	0.00	1.90	15.40	0.60	0.00	16.00
1-2000	0.00	1.00	0.00	1.00	1.60	0.00	0.00	1.60	1.60	1.00	0.00	2.60
gann												
0-1000	1.70	0.00	0.00	1.70	0.00	0.00	0.00	0.00	1.70	0.00	0.00	1.70

hammond													
0-1000	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40	
harkness													
0-1000	0.00	0.00	0.00	0.00	2.70	1.40	2.80	6.90	2.70	1.40	2.80	6.90	
1-2000	0.00	0.00	0.00	0.00	3.20	9.90	2.40	15.50	3.20	9.90	2.40	15.50	
2-3000	0.00	0.00	0.00	0.00	4.80	0.50	0.00	5.30	4.80	0.50	0.00	5.30	
helena													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	2.90	2.90	0.00	0.00	2.90	2.90	
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	3.50	3.50	0.00	0.00	3.50	3.50	
marion													
0-1000	2.90	0.00	0.00	2.90	3.00	0.00	0.00	3.00	5.90	0.00	0.00	5.90	
upper chapman													
0-1000	1.10	0.00	0.00	1.10	0.00	0.00	0.00	0.00	1.10	0.00	0.00	1.10	
county total =	20.80	2.60	0.00	23.40	23.00	12.20	12.10	47.30	43.80	14.80	12.10	70.70	

tusecaloosa county													
bit													
american													
0-1000	0.00	0.00	0.00	0.00	30.20	22.10	0.00	52.30	30.20	22.10	0.00	52.30	
black creek													
0-1000	3.10	2.30	0.00	5.40	3.70	0.00	0.00	3.70	6.80	2.30	0.00	9.10	
1-2000	0.00	0.00	0.00	0.00	0.00	2.60	0.00	2.60	0.00	2.60	0.00	2.60	
brookwood													
0-1000	14.60	40.40	52.20	107.20	15.10	19.90	9.20	44.20	29.70	60.30	61.40	151.40	
clements													
0-1000	0.20	5.80	0.00	6.00	1.70	5.80	0.00	7.50	1.90	11.60	0.00	13.50	
cobb													
0-1000	12.70	0.00	0.00	12.70	94.70	0.00	0.00	94.70	107.40	0.00	0.00	107.40	
gwin													
0-1000	1.20	0.00	0.00	1.20	6.30	0.00	0.00	6.30	7.50	0.00	0.00	7.50	
johnson													
0-1000	44.80	19.10	0.00	63.90	32.10	21.00	0.00	53.10	76.90	40.10	0.00	117.00	
mary lee													
0-1000	0.00	0.00	17.50	17.50	6.90	42.40	0.00	49.30	6.90	42.40	17.50	66.80	
1-2000	0.00	0.00	0.00	0.00	396.10	591.30	761.60	1749.00	396.10	591.30	761.60	1749.00	
2-3000	0.00	0.00	0.00	0.00	70.00	0.00	0.00	70.00	70.00	0.00	0.00	70.00	
milldale													
0-1000	1.50	4.80	0.00	6.30	9.30	4.70	0.00	14.00	10.80	9.50	0.00	20.30	
pratt													
0-1000	0.00	0.00	28.30	28.30	196.00	479.70	428.20	1103.90	196.00	479.70	456.50	1132.20	
county total =	78.10	72.40	98.00	248.50	862.10	1189.50	1199.00	3250.60	940.20	1261.90	1297.00	3499.10	

walker county													
bit													
american													
0-1000	46.10	122.50	52.20	220.80	74.80	24.90	0.00	99.70	120.90	147.40	52.20	320.50	
black creek													
0-1000	174.80	15.20	0.00	190.00	563.50	118.50	0.00	682.00	738.30	133.70	0.00	872.00	
blue creek													
0-1000	13.70	0.00	0.00	13.70	44.50	0.00	0.00	44.50	58.20	0.00	0.00	58.20	
cobb													
0-1000	11.10	0.00	0.00	11.10	40.00	0.00	0.00	40.00	51.10	0.00	0.00	51.10	
fire clay													
0-1000	19.90	0.00	0.00	19.90	8.20	0.00	0.00	8.20	28.10	0.00	0.00	28.10	
jagger													
0-1000	8.60	8.80	1.70	19.10	21.00	8.00	3.60	32.60	29.60	16.80	5.30	51.70	

jefferson	0-1000	162.10	22.60	0.00	184.70	146.60	2.00	0.00	148.60	308.70	24.60	0.00	333.30
mary lee	0-1000	79.00	306.40	114.90	500.30	45.30	383.40	67.30	496.00	124.30	689.80	182.20	996.30
	1-2000	0.60	5.20	1.50	7.30	0.00	5.90	121.40	127.30	0.60	11.10	122.90	134.60
newcastle	0-1000	0.00	0.00	0.00	0.00	19.70	0.00	0.00	19.70	19.70	0.00	0.00	19.70
	1-2000	0.00	0.00	0.00	0.00	19.70	0.00	0.00	19.70	19.70	0.00	0.00	19.70
pratt	0-1000	87.50	70.10	1.10	158.70	67.30	37.20	0.70	105.20	154.80	107.30	1.80	263.90
	1-2000	0.00	0.00	0.00	0.00	19.70	0.00	0.00	19.70	19.70	0.00	0.00	19.70
county total =		603.40	550.80	171.40	1325.60	1030.90	579.90	193.00	1803.80	1634.30	1130.70	364.40	3129.40

winston county													

bit	black creek												
	0-1000	0.90	0.00	0.00	0.90	1.40	0.00	0.00	1.40	2.30	0.00	0.00	2.30
	jefferson												
	0-1000	43.50	8.70	0.00	52.20	0.00	0.00	0.00	0.00	43.50	8.70	0.00	52.20
county total =		44.40	8.70	0.00	53.10	1.40	0.00	0.00	1.40	45.80	8.70	0.00	54.50

=====													
overburden subtotal													
	0-1000	1442.00	1117.10	860.60	3419.70	3186.10	2179.10	1202.60	6567.80	4628.10	3296.20	2063.20	9987.50
	1-2000	13.80	11.60	39.70	65.10	1008.50	1082.80	1316.20	3407.50	1022.30	1094.40	1355.90	3472.60
	2-3000	0.00	0.00	0.00	0.00	210.80	74.50	8.40	293.70	210.80	74.50	8.40	293.70
total =		1455.80	1128.70	900.30	3484.80	4405.40	3336.40	2527.20	10269.00	5861.20	4465.10	3427.50	13753.80

=====													
overburden total													
	0-1000	1442.00	1117.10	860.60	3419.70	3186.10	2179.10	1202.60	6567.80	4628.10	3296.20	2063.20	9987.50
	1-2000	13.80	11.60	39.70	65.10	1008.50	1082.80	1316.20	3407.50	1022.30	1094.40	1355.90	3472.60
	2-3000	0.00	0.00	0.00	0.00	210.80	74.50	8.40	293.70	210.80	74.50	8.40	293.70
grand total =		1455.80	1128.70	900.30	3484.80	4405.40	3336.40	2527.20	10269.00	5861.20	4465.10	3427.50	13753.80

=====													

total tonnage of identified coal resources in alabama

13753.80

resource figures taken from:

source	year	base year of resource
usgs bull 1182b	1964	1958

average analyses of coal in alabama

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
bibb county														
bit														
clark	2.1	37.2	57.2	5.6	5.1	79.9	1.4	6.5	0.8	14379	2253	108		
clark & youngblood	2.9	33.6	57.8	8.6	0.0	0.0	0.0	0.0	1.1	13937	2320	12		
gholson	5.2	32.9	53.1	14.0	4.6	72.5	1.3	6.3	1.2	13050	2230	2		
harkness	3.4	30.0	52.8	17.2	0.0	0.0	0.0	0.0	2.3	12540	2700	1		
thompson	3.2	35.7	57.8	6.5	5.1	78.5	1.2	7.7	0.7	13997	2194	9		
underwood	2.6	34.9	55.3	9.8	0.0	0.0	0.0	0.0	0.6	13498	2310	12		
yeshic	4.3	31.9	48.7	19.5	4.5	66.9	1.3	6.4	1.4	11815	2290	2		
youngblood	3.5	33.6	59.8	6.6	5.1	79.3	1.4	5.2	1.2	14400	2130	5		
county average	2.4	36.4	57.0	6.6	5.0	77.6	1.3	6.7	0.8	14188	2259	151		
blount county														
bit														
black creek	3.5	32.8	62.4	4.8	5.1	83.6	1.8	5.1	0.9	14486	2392	13		
bynum	5.5	32.3	59.9	7.8	0.0	0.0	0.0	0.0	1.6	14073	2593	3		
jagger	2.3	30.5	54.7	14.8	4.7	72.2	1.7	5.4	1.2	12920	2680	1		
swansea	2.7	30.7	54.8	14.5	4.9	69.0	1.7	7.8	1.3	12950	2645	3		
underwood	3.6	33.0	62.6	4.4	0.0	0.0	0.0	0.0	1.8	14670	2220	1		
county average	3.6	32.3	60.6	7.1	5.0	78.4	1.7	5.7	1.1	14141	2468	21		
cullman county														
bit														
black creek	4.0	36.8	59.6	3.6	5.4	83.5	1.8	7.1	0.8	14487	2509	34		
county average	4.0	36.8	59.6	3.6	5.4	83.5	1.8	7.1	0.8	14487	2509	34		
etowah county														
bit														
bynum	2.9	31.9	61.0	7.1	0.0	0.0	0.0	0.0	1.9	14300	2080	1		
county average	2.9	31.9	61.0	7.1	0.0	0.0	0.0	0.0	1.9	14300	2080	1		
fayette county														
bit														
black creek	5.5	35.9	52.5	11.6	0.0	0.0	0.0	0.0	1.6	12950	2360	2		
jagger	3.1	35.2	54.4	10.4	0.0	0.0	0.0	0.0	0.7	13203		13		

county average	3.4	35.3	54.2	10.6	0.0	0.0	0.0	0.0	0.8	13170	2360	15

jackson						county						

nelson	1.8	39.0	52.0	9.1	0.0	0.0	0.0	0.0	1.5	13895		2
county average	1.8	39.0	52.0	9.1	0.0	0.0	0.0	0.0	1.5	13895		2

jefferson						county						

american	3.2	32.4	63.4	4.2	5.2	83.2	1.8	4.4	1.2	14740	2480	1
american & pratt	1.8	31.4	61.5	7.1	0.0	0.0	0.0	0.0	1.4	14270	2370	1
black creek	2.5	31.5	63.8	4.7	5.2	84.2	1.8	5.0	0.8	14661	2624	53
black creek & jeffer	3.8	32.4	60.7	6.9	0.0	0.0	0.0	0.0	0.8	14314	2600	5
blue creek	3.3	25.4	64.5	10.1	4.7	79.1	1.5	3.6	0.8	14045	2880	2
clements	3.9	24.4	64.8	10.8	4.5	78.6	1.7	3.2	2.5	13723	2201	6
fire clay	2.7	28.1	63.0	8.9	4.8	80.8	1.5	4.2	1.7	14098	2508	6
gholson	1.8	35.5	57.8	6.8	0.0	0.0	0.0	0.0	0.4	14165	2590	2
gould	2.5	31.1	60.5	8.4	4.8	78.1	1.7	5.5	1.5	13965	2470	2
guin	0.5	23.8	59.7	16.5	0.0	0.0	0.0	0.0	1.9	12920	2910	1
harkness	2.6	33.8	56.4	9.8	5.1	76.5	1.7	5.9	1.0	13585	2300	2
jefferson	2.6	32.2	59.8	8.0	4.9	79.5	1.7	4.6	2.8	14064	2261	7
lower nunnally	2.3	34.4	58.7	6.9	5.1	79.3	1.7	5.5	1.5	14190	2160	1
mary lee	2.1	27.9	60.0	12.1	4.8	76.7	1.6	4.6	1.0	13485	2718	36
mary lee & pratt	1.4	31.8	59.4	8.8	0.0	0.0	0.0	0.0	1.9	14116		9
new castle	3.0	31.4	54.4	14.2	4.8	72.1	1.6	5.2	2.1	12980	2450	1
nunnally	2.0	36.0	56.4	7.6	5.1	78.4	1.6	6.6	0.7	14020	2680	1
pratt	2.0	30.1	61.6	8.3	5.0	82.0	1.6	4.0	1.8	14178	2418	75
underwood	3.5	36.5	57.3	6.2	0.0	0.0	0.0	0.0	0.9	14060	2340	2
upper nunnally	2.2	31.8	55.5	12.7	4.8	75.0	1.6	5.2	0.7	13280	2440	1
various	3.5	32.0	56.8	11.2	0.0	0.0	0.0	0.0	2.1	13328	2310	6
county average	2.3	30.3	61.5	8.2	4.9	80.1	1.6	4.5	1.4	14117	2506	220

marion						county						

black creek	4.7	39.8	55.6	4.6	5.3	79.8	1.8	8.3	1.1	14114	2329	73
jefferson	4.5	42.4	54.4	3.2	0.0	0.0	0.0	0.0	1.3	14420	2230	2
various	4.4	40.5	55.6	3.9	0.0	0.0	0.0	0.0	1.0	14200		1
county average	4.7	39.9	55.5	4.6	5.3	79.8	1.8	8.3	1.1	14123	2326	76

shelby						county						

buck	2.6	35.1	61.6	3.3	5.2	80.7	1.4	8.7	0.7	14730		1
clark	2.7	35.0	58.5	6.5	5.0	77.8	1.4	6.8	0.9	14291	2190	14
clark & gholson	2.0	36.1	59.2	4.7	0.0	0.0	0.0	0.0	0.6	14532	2370	45
gholson	3.6	35.1	61.4	3.5	5.3	82.8	1.5	6.3	0.6	14764	2176	5
helena	3.4	35.0	56.5	8.5	5.1	78.3	1.5	7.0	0.5	13811	2599	17
maylene	3.2	35.5	56.3	8.3	4.8	76.9	1.2	8.4	0.4	13705	2350	2
montevallo	2.4	38.2	54.9	6.9	5.1	77.7	1.2	7.5	0.7	14002	2244	5
thompson	2.8	31.7	57.6	10.7	4.9	75.2	1.3	6.9	1.1	13406	2210	3

wadsworth	3.7	35.0	61.1	3.9	5.3	83.2	1.6	5.5	0.5	14900		1
youngblood	3.0	37.5	58.6	3.9	5.3	81.9	1.5	6.6	0.8	14640	2301	8
county average	2.6	35.8	58.4	5.8	5.1	79.3	1.4	6.9	0.7	14327	2353	101
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st clair county												
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bit												
broken arrow	3.9	29.3	61.0	9.7	4.9	78.8	1.4	3.7	1.5	14050	2380	1
clark	1.6	35.1	54.7	10.2	0.0	0.0	0.0	0.0	0.9	13650		1
coal city	2.4	34.1	61.5	4.4	5.1	83.9	1.5	4.0	1.1	15010		1
gould	3.8	32.5	57.0	10.5	0.0	0.0	0.0	0.0	1.9	13430	2610	1
harkness	2.2	34.1	56.8	9.1	4.9	75.9	1.7	5.6	2.4	13758	2273	15
helena	4.7	35.1	59.7	5.2	5.3	80.1	1.7	6.7	1.0	14280	1920	1
wadsworth	5.0	29.0	51.0	20.0	0.0	0.0	0.0	0.0	1.9	11660		1
county average	2.6	33.6	57.0	9.4	5.0	77.4	1.7	5.4	2.1	13735	2280	21
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tuscaloosa county												
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bit												
blue creek	4.6	25.1	65.4	9.5	4.8	79.1	1.6	4.3	0.7	14080	2770	1
brookwood	3.3	30.7	57.1	12.2	4.8	76.4	1.5	5.0	1.2	13320	2855	8
brookwood & milldale	4.2	31.3	55.0	13.8	0.0	0.0	0.0	0.0	1.4	13080	2825	2
clements	2.7	33.7	61.8	4.5	0.0	0.0	0.0	0.0	1.3	14760	2250	1
jagger	2.3	25.6	66.7	7.7	4.7	80.2	1.5	3.8	0.6	14423	2730	3
johnson	3.8	32.7	60.8	6.5	0.0	0.0	0.0	0.0	1.2	14323	2476	3
milldale	3.0	32.4	60.2	7.4	5.2	81.2	1.5	5.6	1.5	14171	2392	32
various	3.2	32.5	59.0	8.5	0.0	0.0	0.0	0.0	1.3	13939	2614	15
county average	3.1	31.8	59.8	8.4	4.9	79.4	1.5	4.9	1.3	14005	2587	65
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walker county												
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bit												
american	3.3	33.6	52.0	14.4	4.8	70.3	1.6	6.6	1.8	12703	2731	10
american & mary lee	2.7	32.8	54.3	12.9	0.0	0.0	0.0	0.0	0.9	12930	2865	12
black creek	3.3	37.9	57.2	4.9	5.4	82.4	1.9	6.5	1.4	14205	2344	136
clements	1.2	34.6	51.0	14.4	0.0	0.0	0.0	0.0	3.8	12850	2530	1
cobb	3.6	39.5	52.2	8.3	5.0	76.7	1.8	5.3	1.9	13713	2367	11
fire clay	3.0	31.0	57.4	11.6	4.9	74.0	1.6	5.8	2.1	13190	2600	1
jagger	4.5	34.8	56.1	9.2	4.9	72.7	1.7	8.6	0.9	13240	2778	32
mary lee	3.4	32.5	53.2	14.3	4.8	72.2	1.7	7.1	0.8	12628	2791	147
new castle	3.4	37.7	46.8	15.5	0.0	0.0	0.0	0.0	3.4	12430	2070	1
pratt	2.9	38.4	51.0	10.6	5.2	75.8	1.7	6.2	2.2	13316	2456	15
various	3.4	34.1	53.9	12.0	0.0	0.0	0.0	0.0	0.8	12912	2786	35
county average	3.4	35.1	54.7	10.2	5.0	75.6	1.7	6.8	1.1	13304	2586	401
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winston county												
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bit												
black creek	5.4	40.3	55.4	4.3	0.0	0.0	0.0	0.0	1.4	14096	2213	15
county average	5.4	40.3	55.4	4.3	0.0	0.0	0.0	0.0	1.4	14096	2213	15

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
alabama	bibb	harkness	3.4	30.0	52.8	17.2	2.3	12540	76	8.0
alabama	blount	swansea	2.6	31.2	54.1	14.7	1.2	12880	0	6.0
alabama	blount	swansea	2.2	32.2	52.6	15.2	1.4	12780	54	5.0
alabama	blount	black creek	2.6	32.6	60.1	7.3	0.8	14240	64	8.5
alabama	blount	jaquer	2.3	30.5	54.7	14.8	1.2	12920	55	7.0
alabama	blount	hynum	8.1	31.1	58.2	10.7	1.9	13540	73	7.0
alabama	blount	black creek	4.0	33.9	62.1	4.0	1.1	14660	59	8.5
alabama	blount	black creek	3.8	32.8	61.8	5.4	1.1	14480	54	8.5
alabama	blount	black creek	3.1	32.8	64.0	3.2	0.7	14940	64	9.0
alabama	cullman	black creek	4.8	34.9	56.5	8.6	1.1	13600	0	4.5
alabama	cullman	black creek	3.2	35.4	59.0	5.6	0.9	14190	0	4.5
alabama	cullman	black creek	3.2	40.2	55.1	4.7	1.5	14260	0	4.0
alabama	cullman	black creek	3.3	40.2	55.5	4.3	1.3	14270	0	5.5
alabama	cullman	black creek	3.2	39.0	57.5	3.5	0.9	14490	0	5.0
alabama	cullman	black creek	4.0	36.9	58.9	4.2	0.7	14390	0	5.5
alabama	cullman	black creek	3.7	38.2	59.3	2.5	0.7	14670	0	5.5
alabama	cullman	black creek	3.1	39.7	58.7	1.6	0.7	14920	0	6.0
alabama	cullman	black creek	5.7	33.6	58.2	8.2	0.8	13850	50	7.0
alabama	cullman	black creek	6.0	38.2	60.0	1.8	0.7	14800	41	6.5
alabama	cullman	black creek	5.4	34.9	60.7	4.4	0.7	14190	0	1.0
alabama	cullman	black creek	8.0	33.1	60.9	6.0	0.6	14020	0	3.5
alabama	cullman	black creek	9.7	33.1	63.4	3.5	0.8	14160	0	1.5
alabama	etowah	bynum	2.9	31.9	61.0	7.1	1.9	14300	0	8.5
alabama	jefferson	underwood	4.2	34.1	57.7	9.2	0.9	13680	56	4.5
alabama	jefferson	various	1.9	31.3	54.8	13.9	3.2	13080	0	7.5
alabama	jefferson	various	1.8	31.8	56.3	11.9	2.7	13420	0	7.5
alabama	jefferson	jefferson	4.5	31.3	56.3	12.4	3.0	13260	64	8.5
alabama	jefferson	jefferson	2.6	32.4	56.8	10.8	3.0	13500	55	8.5
alabama	jefferson	black creek	3.0	33.5	64.3	2.2	0.8	15090	58	8.5
alabama	jefferson	black creek	5.2	32.8	60.9	6.3	0.8	14360	59	8.5
alabama	jefferson	mary lee	0.8	25.7	58.5	15.8	0.7	12890	0	9.0
alabama	jefferson	oratt	2.6	28.4	61.4	10.2	2.3	13950	85	7.0
alabama	jefferson	black creek	2.8	29.8	54.5	15.7	1.2	12790	66	7.5
alabama	jefferson	various	4.6	31.6	59.5	8.9	1.5	13600	0	8.0
alabama	jefferson	various	5.6	34.7	58.5	6.8	1.1	13730	0	1.5
alabama	jefferson	black creek	2.7	35.8	61.6	7.6	0.6	13040	54	8.0
alabama	jefferson	fire clay	3.2	31.3	57.6	11.1	2.1	13460	0	6.5
alabama	jefferson	black creek	3.5	30.2	56.3	13.5	1.2	13000	0	7.5
alabama	jefferson	mary lee	0.8	27.0	57.0	16.0	1.1	12860	0	8.5
alabama	jefferson	black creek	4.6	32.2	65.0	2.8	0.5	15020	63	9.0
alabama	jefferson	clements	4.7	23.6	62.8	13.6	3.8	13080	**	8.0
alabama	jefferson	clements	4.7	25.1	66.4	8.5	1.7	14010	**	8.5
alabama	jefferson	clements	3.2	25.2	67.9	6.9	1.6	14560	96	9.0
alabama	jefferson	clements	3.7	23.8	62.7	13.5	2.1	13210	98	8.5
alabama	jefferson	clements	2.3	23.9	64.7	11.4	3.9	13820	**	9.0
alabama	jefferson	clements	4.6	24.8	64.3	10.9	1.9	13660	96	9.0
alabama	jefferson	quin	0.5	23.8	59.7	16.5	1.9	12920	0	7.5
alabama	marion	black creek	6.2	36.0	60.4	3.6	0.7	14190	41	2.0
alabama	marion	black creek	5.3	35.1	52.0	12.9	1.3	12800	41	3.0
alabama	marion	black creek	6.3	35.5	54.7	9.8	1.0	13240	41	1.5

state	county	bed	mnistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
alabama	marion	black creek	5.4	35.9	51.3	12.8	1.1	12740	44	1.5
alabama	marion	black creek	5.6	37.3	50.5	12.2	1.1	12850	42	2.5
alabama	marion	black creek	5.9	35.0	49.8	15.2	1.4	12310	47	2.0
alabama	marion	black creek	4.9	39.9	56.6	3.5	1.0	14180	37	3.5
alabama	marion	black creek	6.7	36.3	53.8	9.9	1.2	13230	39	3.0
alabama	marion	black creek	6.7	34.6	51.7	13.7	1.4	12600	44	1.5
alabama	marion	black creek	5.4	29.1	67.0	3.9	1.4	14030	37	3.0
alabama	marion	black creek	5.1	38.0	55.4	6.6	1.4	13810	39	2.0
alabama	marion	black creek	5.1	34.8	49.6	15.6	1.0	12350	46	2.5
alabama	marion	black creek	6.1	38.2	54.2	7.6	1.4	13480	43	1.5
alabama	marion	black creek	6.8	37.0	57.6	5.4	0.9	13950	0	1.5
alabama	marion	black creek	7.5	36.9	56.1	7.0	0.8	13580	41	1.5
alabama	st clair	gould	3.8	32.5	57.0	10.5	1.9	13430	53	7.5
alabama	shelby	youngblood	4.5	34.2	59.7	6.1	0.7	14380	61	8.0
alabama	tuscaloosa	various	2.7	34.1	59.5	6.4	1.4	14290	0	7.5
alabama	tuscaloosa	brookwood	3.2	31.6	55.4	13.0	1.4	13080	63	7.5
alabama	tuscaloosa	milldale	3.0	32.2	63.0	4.8	1.6	14660	69	8.0
alabama	tuscaloosa	brookwood	3.5	32.7	54.0	13.3	1.2	12990	58	6.0
alabama	tuscaloosa	milldale	3.0	36.4	60.6	3.0	1.2	14690	59	6.0
alabama	tuscaloosa	johnson	5.0	35.8	59.3	4.9	1.3	14390	54	6.5
alabama	tuscaloosa	brookwood & milldale	2.8	29.8	54.5	15.7	1.2	12790	66	7.5
alabama	tuscaloosa	milldale	4.1	31.8	61.5	6.7	1.3	14440	69	7.5
alabama	tuscaloosa	brookwood	5.1	28.5	58.3	13.2	1.4	13270	71	7.5
alabama	tuscaloosa	milldale	2.6	33.2	60.3	6.5	1.7	14470	0	8.0
alabama	tuscaloosa	milldale	6.4	35.2	57.2	7.6	1.8	13790	0	5.5
alabama	tuscaloosa	johnson	3.5	31.3	62.1	6.6	1.3	14480	64	8.0
alabama	tuscaloosa	brookwood & milldale	5.6	32.8	55.4	11.8	1.5	13370	64	8.0
alabama	tuscaloosa	milldale	2.5	30.8	64.0	5.2	0.9	14760	68	8.0
alabama	tuscaloosa	cléments	2.7	33.7	61.8	4.5	1.3	14760	66	8.5
alabama	walker	american	1.7	32.7	53.9	13.4	1.8	12870	0	6.0
alabama	walker	mary lee	3.6	33.4	52.5	14.1	0.6	12650	0	4.5
alabama	walker	mary lee	6.5	31.3	52.9	15.8	0.7	12160	52	1.5
alabama	walker	mary lee	6.5	32.4	51.3	16.3	1.0	11880	50	1.5
alabama	walker	american	6.0	32.4	50.8	16.8	1.4	12200	50	2.5
alabama	walker	pratt	4.1	38.4	49.6	12.0	2.0	13050	0	4.0
alabama	walker	pratt	7.8	36.0	47.7	16.3	2.4	12280	0	5.0
alabama	walker	black creek	4.2	39.0	56.6	4.4	2.0	14230	46	5.0
alabama	walker	black creek	5.2	35.5	53.9	10.6	1.6	13170	0	3.5
alabama	walker	black creek	3.8	39.4	53.2	7.4	2.3	13710	45	4.5
alabama	walker	black creek	9.5	32.9	55.5	11.6	2.4	13030	0	3.5
alabama	walker	black creek	5.3	32.3	60.1	7.6	1.1	13990	0	6.0
alabama	walker	black creek	9.2	31.1	59.1	9.8	0.7	13410	0	1.5
alabama	walker	mary lee	4.9	33.6	53.2	13.2	1.0	12750	0	2.5
alabama	walker	jagger	5.7	34.3	57.7	8.0	0.9	13400	49	2.5
alabama	walker	american	3.4	32.7	51.4	15.9	1.8	12500	51	5.0
alabama	walker	pratt	3.6	38.5	46.9	14.6	3.1	12680	49	5.0
alabama	walker	mary lee	4.6	31.5	54.5	14.0	0.5	12740	48	2.5
alabama	walker	american	3.7	32.4	49.4	18.2	2.0	12040	47	3.5
alabama	walker	american & mary lee	4.6	33.1	53.7	13.2	0.7	12670	0	2.5
alabama	walker	mary lee	3.7	33.0	52.6	14.4	1.1	12640	50	3.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilt	fsilo
alabama	walker	mary lee	4.1	32.4	52.0	15.6	0.9	12390	48	4.0
alabama	walker	cobu	4.0	40.0	52.3	7.7	1.9	13700	0	4.0
alabama	walker	cobb	3.7	40.7	53.4	5.9	1.5	14010	0	4.0
alabama	walker	cobb	2.9	41.6	47.8	10.6	3.3	13420	47	3.5
alabama	walker	cobb	4.9	38.5	51.0	10.5	1.6	13390	45	4.5
alabama	walker	black creek	4.7	39.5	54.9	5.6	1.6	14040	43	5.5
alabama	walker	black creek	4.4	36.3	53.5	10.2	1.2	13100	0	2.5
alabama	walker	black creek	3.5	39.9	55.6	4.5	1.3	14100	0	5.0
alabama	walker	cobb	2.8	38.0	54.1	7.9	1.2	13870	47	5.0
alabama	walker	american	2.7	33.6	52.3	14.1	1.7	12800	50	5.5
alabama	walker	black creek	4.6	37.4	56.2	6.4	1.2	13870	45	5.0
alabama	walker	black creek	3.3	39.2	53.6	7.2	1.5	13640	0	5.0
alabama	walker	black creek	4.1	37.1	52.1	10.8	2.2	13110	0	3.5
alabama	walker	mary lee	7.5	30.8	53.7	15.5	0.5	12080	51	1.0
alabama	walker	black creek	3.7	37.7	50.7	11.6	2.8	13020	0	5.0
alabama	walker	mary lee	4.5	32.4	52.6	15.0	0.5	12500	50	2.5
alabama	walker	mary lee	3.6	33.0	52.5	14.5	0.6	12530	0	2.0
alabama	walker	mary lee	3.4	33.9	51.2	14.9	0.7	12470	0	3.0
alabama	walker	mary lee	4.8	32.9	52.5	14.6	0.6	12490	0	3.5
alabama	walker	mary lee	4.4	31.0	52.2	16.8	0.6	12140	0	1.5
alabama	walker	clements	1.2	34.6	51.0	14.4	3.8	12850	0	8.0
alabama	walker	new castle	3.4	37.7	46.8	15.5	3.4	12430	45	5.0
alabama	walker	cobb	2.4	33.2	51.8	11.0	2.2	13640	61	7.5
alabama	winston	black creek	8.6	35.9	53.8	10.3	2.5	13040	47	1.0

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in arizona

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
apache												
county												
bit												
uncorrelated												
0-2000	0.00	0.00	0.00	0.00	0.00	1800.00	241.00	2041.00	0.00	1800.00	241.00	2041.00
county total =	0.00	0.00	0.00	0.00	0.00	1800.00	241.00	2041.00	0.00	1800.00	241.00	2041.00
coconino												
county												
bit												
uncorrelated												
0-2000	0.00	0.00	0.00	0.00	0.00	600.00	241.00	841.00	0.00	600.00	241.00	841.00
county total =	0.00	0.00	0.00	0.00	0.00	600.00	241.00	841.00	0.00	600.00	241.00	841.00
navajo												
county												
bit												
uncorrelated												
0-2000	0.00	0.00	0.00	0.00	0.00	3600.00	0.00	3600.00	0.00	3600.00	0.00	3600.00
county total =	0.00	0.00	0.00	0.00	0.00	3600.00	0.00	3600.00	0.00	3600.00	0.00	3600.00
overburden												
subtotal												
0-2000	0.00	0.00	0.00	0.00	0.00	6000.00	482.00	6482.00	0.00	6000.00	482.00	6482.00
total =	0.00	0.00	0.00	0.00	0.00	6000.00	482.00	6482.00	0.00	6000.00	482.00	6482.00
overburden												
total												
0-2000	0.00	0.00	0.00	0.00	0.00	6000.00	482.00	6482.00	0.00	6000.00	482.00	6482.00
grand total =	0.00	0.00	0.00	0.00	0.00	6000.00	482.00	6482.00	0.00	6000.00	482.00	6482.00

tonnage not included:

4348.00

because:

thickness = unclassified : 10.00

reliability = unclassified : 4348.00

total tonnage of identified coal resources in arizona

10830.00

resource figures taken from:

source	year	base year of resource
arizona bm bull 182	1970	original
arizona bm bull 180	1969	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
ariz	navajo	uncorrelated	bit	orig	> 42 in	0-2000	unclass	4338.00
ariz	pinal	uncorrelated	bit	orig	unclass	unclass	unclass	10.00

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in arkansas

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
crawford county												
bit												
lower hartshorne												
0-1000	5.70	7.90	20.50	34.10	132.70	68.90	21.60	223.20	138.40	76.80	42.10	257.30
1-2000	0.00	0.00	0.00	0.00	0.00	28.10	4.50	32.60	0.00	28.10	4.50	32.60
county total =	5.70	7.90	20.50	34.10	132.70	97.00	26.10	255.80	138.40	104.90	46.60	289.90
franklin county												
bit												
charleston												
0-1000	14.20	0.00	0.00	14.20	17.60	0.00	0.00	17.60	31.80	0.00	0.00	31.80
1-2000	0.00	0.00	0.00	0.00	8.50	0.00	0.00	8.50	8.50	0.00	0.00	8.50
lower hartshorne												
0-1000	17.20	12.60	25.10	54.90	109.60	1.90	0.00	111.50	126.80	14.50	25.10	166.40
1-2000	0.00	0.00	0.00	0.00	10.50	0.00	0.00	10.50	10.50	0.00	0.00	10.50
2-3000	0.00	0.00	0.00	0.00	4.40	0.00	0.00	4.40	4.40	0.00	0.00	4.40
paris												
0-1000	7.40	0.00	0.00	7.40	1.40	0.00	0.00	1.40	8.80	0.00	0.00	8.80
county total =	38.80	12.60	25.10	76.50	152.00	1.90	0.00	153.90	190.80	14.50	25.10	230.40
johnson county												
bit												
charleston												
0-1000	14.90	0.00	0.00	14.90	10.20	0.00	0.00	10.20	25.10	0.00	0.00	25.10
lower hartshorne												
0-1000	7.50	10.70	2.80	21.00	32.40	8.40	0.00	40.80	39.90	19.10	2.80	61.80
county total =	22.40	10.70	2.80	35.90	42.60	8.40	0.00	51.00	65.00	19.10	2.80	86.90
logan county												
bit												
charleston												
0-1000	0.20	0.00	0.00	0.20	0.20	0.00	0.00	0.20	0.40	0.00	0.00	0.40
lower hartshorne												
0-1000	0.00	0.00	0.00	0.00	5.30	3.70	0.00	9.00	5.30	3.70	0.00	9.00
paris												
0-1000	18.20	5.60	0.00	23.80	5.20	2.90	0.00	8.10	23.40	8.50	0.00	31.90
county total =	18.40	5.60	0.00	24.00	10.70	6.60	0.00	17.30	29.10	12.20	0.00	41.30

scott				county								

bit												
lower hartshorne												
0-1000	5.40	3.10	14.50	23.00	13.50	9.00	12.00	34.50	18.90	12.10	26.50	57.50
1-2000	0.00	2.30	0.10	2.40	17.80	8.10	6.30	32.20	17.80	10.40	6.40	34.60
2-3000	0.00	1.30	0.00	1.30	4.20	5.80	0.70	10.70	4.20	7.10	0.70	12.00

county total =	5.40	6.70	14.60	26.70	35.50	22.90	19.00	77.40	40.90	29.60	33.60	104.10

sebastian				county								

bit												
charleston												
0-1000	11.00	0.00	0.00	11.00	9.40	0.00	0.00	9.40	20.40	0.00	0.00	20.40
1-2000	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.50	0.00	0.00	0.50
lower hartshorne												
0-1000	18.80	135.60	191.10	345.50	218.70	240.20	33.90	492.80	237.50	375.80	225.00	838.30
1-2000	0.00	9.20	9.80	19.00	22.60	66.20	12.80	101.60	22.60	75.40	22.60	120.60
2-3000	0.00	0.70	0.10	0.80	10.50	23.70	20.30	54.50	10.50	24.40	20.40	55.30
upper hartshorne												
0-1000	11.40	0.10	0.00	11.50	16.00	0.00	0.00	16.00	27.40	0.10	0.00	27.50
1-2000	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.40	0.40	0.00	0.00	0.40

county total =	41.20	145.60	201.00	387.80	278.10	330.10	67.00	675.20	319.30	475.70	268.00	1063.00
=====												
overburden												
subtotal												
0-1000	131.90	175.60	254.00	561.50	572.20	335.00	67.50	974.70	704.10	510.60	321.50	1536.20
1-2000	0.00	11.50	9.90	21.40	60.30	102.40	23.60	186.30	60.30	113.90	33.50	207.70
2-3000	0.00	2.00	0.10	2.10	19.10	29.50	21.00	69.60	19.10	31.50	21.10	71.70

total =	131.90	189.10	264.00	585.00	651.60	466.90	112.10	1230.60	783.50	656.00	376.10	1815.60
=====												
overburden												
total												
0-1000	131.90	175.60	254.00	561.50	572.20	335.00	67.50	974.70	704.10	510.60	321.50	1536.20
1-2000	0.00	11.50	9.90	21.40	60.30	102.40	23.60	186.30	60.30	113.90	33.50	207.70
2-3000	0.00	2.00	0.10	2.10	19.10	29.50	21.00	69.60	19.10	31.50	21.10	71.70

grand total =	131.90	189.10	264.00	585.00	651.60	466.90	112.10	1230.60	783.50	656.00	376.10	1815.60
=====												

total tonnage of identified coal resources in arkansas

1815.60

resource figures taken from:

source	year	base year of resource
usgs bull 1072p	1954	original

average analyses of coal in arkansas

rank	proximate analysis (percent)					ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
franklin county													
bit													
	charleston	2.6	17.8	74.7	7.5	0.0	0.0	0.0	0.0	2.0	14440	2317	5
	lower hartshorne	3.2	15.7	76.7	7.6	0.0	0.0	0.0	0.0	1.4	14366	2303	19
	uncorrelated	2.9	19.8	73.7	6.5	0.0	0.0	0.0	0.0	3.4	14620		1
	county average	3.1	16.3	76.2	7.5	0.0	0.0	0.0	0.0	1.6	14391	2306	25
johnson county													
bit													
	charleston	3.3	16.4	78.4	5.3	4.4	88.6	2.0	1.4	0.8	14805	2220	2
	lower hartshorne	2.1	14.0	79.0	7.0	0.0	0.0	0.0	0.0	2.1	14320		1
	county average	2.9	15.6	78.6	5.8	4.4	88.6	2.0	1.4	1.2	14643	2220	3
logan county													
bit													
	paris	1.7	18.1	70.2	11.7	4.2	82.5	1.5	1.9	2.1	13707	2290	75
	county average	1.7	18.1	70.2	11.7	4.2	82.5	1.5	1.9	2.1	13707	2290	75
scott county													
bit													
	lower hartshorne	2.0	20.0	70.6	9.4	0.0	0.0	0.0	0.0	1.1	14055	2301	11
	county average	2.0	20.0	70.6	9.4	0.0	0.0	0.0	0.0	1.1	14055	2301	11
sebastian county													
bit													
	lower hartshorne	2.7	17.2	72.6	10.1	4.4	85.6	1.8	1.8	1.5	13938	2251	59
	upper hartshorne	1.9	18.2	74.4	7.5	4.2	83.1	1.7	2.2	0.9	14395	2308	66
	county average	2.2	17.7	73.5	8.7	4.2	83.7	1.8	2.1	1.2	14180	2279	125

Arkansas

state	county	bed	moistur	volmat	fixedc	ash	sulfur	otu	hgilo	feilo
arkansas	franklin	charleston	2.0	18.6	72.8	8.6	4.1	14160	**	9.0
arkansas	johnson	charleston	1.5	16.7	80.4	2.9	0.7	15200	0	9.0
arkansas	johnson	charleston	5.0	16.0	76.4	7.6	0.8	14410	**	8.0
arkansas	logan	paris	2.3	18.1	68.1	13.8	2.1	13130	0	8.5
arkansas	sebastian	upper hartshorne	3.1	18.0	74.3	7.5	0.9	14370	**	9.0
arkansas	sebastian	lower hartshorne	3.3	17.5	77.0	5.5	0.9	14820	**	9.0
arkansas	sebastian	upper hartshorne	3.4	17.7	73.2	9.1	1.0	14130	**	9.0
arkansas	sebastian	upper hartshorne	0.6	16.5	76.6	6.9	1.0	14320	0	7.5

COLORADO

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
archuleta				county								

bit												
uncorrelated												
0-1000	5.47	17.63	74.47	97.57	11.36	46.19	160.88	218.43	16.83	63.82	235.35	316.00
1-2000	1.19	0.16	4.42	5.77	1.35	11.15	51.83	64.33	2.54	11.31	56.25	70.10
2-3000	0.00	1.37	1.12	2.49	1.38	1.49	0.00	2.87	1.38	2.86	1.12	5.36

county total =	6.66	19.16	80.01	105.83	14.09	58.83	212.71	285.63	20.75	77.99	292.72	391.46

delta				county								

bit												
a												
0-1000	0.00	0.00	6.88	6.88	0.00	0.00	11.10	11.10	0.00	0.00	17.98	17.98
1-2000	0.00	0.00	4.15	4.15	0.00	0.00	27.10	27.10	0.00	0.00	31.25	31.25
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.00	0.00	0.42	0.42
b												
0-1000	0.00	2.40	44.16	46.56	0.00	0.00	55.53	55.53	0.00	2.40	99.69	102.09
1-2000	0.00	0.00	17.78	17.78	0.00	0.00	85.27	85.27	0.00	0.00	103.05	103.05
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	0.00	0.00	0.29	0.29
c												
0-1000	0.00	0.00	12.36	12.36	0.00	0.00	19.23	19.23	0.00	0.00	31.59	31.59
1-2000	0.00	0.00	12.20	12.20	0.00	0.00	47.84	47.84	0.00	0.00	60.04	60.04
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	10.34	10.34	0.00	0.00	10.34	10.34
de												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.17	0.00	0.00	1.17	1.17
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	4.26	4.26	0.00	0.00	4.26	4.26

county total =	0.00	2.40	97.53	99.93	0.00	0.00	262.55	262.55	0.00	2.40	360.08	362.48

fremont				county								

bit												
brookside												
0-1000	0.00	20.80	17.67	38.47	2.42	12.23	0.00	14.65	2.42	33.03	17.67	53.12
chandler												
0-1000	0.00	0.00	44.02	44.02	0.00	0.00	36.30	36.30	0.00	0.00	80.32	80.32
nonac												
0-1000	1.90	5.43	9.77	17.10	0.00	14.25	0.00	14.25	1.90	19.68	9.77	31.35
ocean wave												
0-1000	0.00	0.00	6.27	6.27	0.00	0.00	4.45	4.45	0.00	0.00	10.72	10.72
radiant												
0-1000	0.00	20.19	0.00	20.19	0.00	17.50	0.00	17.50	0.00	37.69	0.00	37.69
rockvale												

0-1000	0.00	33.57	0.00	33.57	0.00	8.26	0.52	8.78	0.00	41.83	0.52	42.35
royal gorge												
0-1000	0.00	0.00	22.60	22.60	0.00	0.00	17.19	17.19	0.00	0.00	39.79	39.79
county total =	1.90	79.99	100.33	182.22	2.42	52.24	58.46	113.12	4.32	132.23	158.79	295.34

garfield county												

bit												
a												
0-1000	0.00	0.00	10.90	10.90	0.00	0.00	0.50	0.50	0.00	0.00	11.40	11.40
1-2000	0.00	0.00	12.91	12.91	0.00	0.00	1.25	1.25	0.00	0.00	14.16	14.16
2-3000	0.00	0.00	13.86	13.86	0.00	0.00	1.41	1.41	0.00	0.00	15.27	15.27
abc												
0-1000	0.00	0.00	5.09	5.09	0.00	0.00	8.52	8.52	0.00	0.00	13.61	13.61
1-2000	0.00	0.00	5.88	5.88	0.00	0.00	9.79	9.79	0.00	0.00	15.67	15.67
2-3000	0.00	0.00	5.87	5.87	0.00	0.00	9.60	9.60	0.00	0.00	15.47	15.47
allen												
0-1000	0.00	0.00	29.20	29.20	0.00	0.00	17.03	17.03	0.00	0.00	46.23	46.23
1-2000	0.00	0.00	29.75	29.75	0.00	0.00	20.28	20.28	0.00	0.00	50.03	50.03
2-3000	0.00	0.00	28.28	28.28	0.00	0.00	25.02	25.02	0.00	0.00	53.30	53.30
anchor												
0-1000	0.00	0.00	7.47	7.47	0.00	0.00	5.87	5.87	0.00	0.00	13.34	13.34
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	18.52	18.52	0.00	0.00	18.52	18.52
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	22.31	22.31	0.00	0.00	22.31	22.31
anderson												
0-1000	0.00	0.00	10.52	10.52	0.00	0.00	6.12	6.12	0.00	0.00	16.64	16.64
1-2000	0.00	0.00	10.22	10.22	0.00	0.00	5.88	5.88	0.00	0.00	16.10	16.10
2-3000	0.00	0.00	9.16	9.16	0.00	0.00	6.30	6.30	0.00	0.00	15.46	15.46
b												
0-1000	0.00	0.00	11.63	11.63	0.00	0.00	4.99	4.99	0.00	0.00	16.62	16.62
1-2000	0.00	0.00	15.30	15.30	0.00	0.00	8.92	8.92	0.00	0.00	24.22	24.22
2-3000	0.00	0.00	16.27	16.27	0.00	0.00	8.43	8.43	0.00	0.00	24.70	24.70
c												
0-1000	0.00	3.90	13.68	17.58	0.00	2.91	4.30	7.21	0.00	6.81	17.98	24.79
1-2000	0.00	3.87	17.19	21.06	0.00	2.70	7.45	10.15	0.00	6.57	24.64	31.21
2-3000	0.00	4.35	17.38	21.73	0.00	2.98	7.36	10.34	0.00	7.33	24.74	32.07
cameo												
0-1000	3.50	32.18	124.51	160.19	13.20	42.83	133.46	189.49	16.70	75.01	257.97	349.68
1-2000	0.00	1.05	27.52	28.57	0.00	29.16	103.58	132.74	0.00	30.21	131.10	161.31
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	27.95	27.95	0.00	0.00	27.95	27.95
carbonera												
0-1000	0.94	0.63	38.04	39.61	0.00	0.00	0.00	0.00	0.94	0.63	38.04	39.61
1-2000	0.00	0.00	12.23	12.23	0.00	0.00	0.00	0.00	0.00	0.00	12.23	12.23
d												
0-1000	0.00	0.00	16.40	16.40	0.00	0.00	5.48	5.48	0.00	0.00	21.88	21.88
1-2000	0.00	0.00	18.65	18.65	0.00	0.00	8.89	8.89	0.00	0.00	27.54	27.54
2-3000	0.00	0.00	19.41	19.41	0.00	0.00	10.90	10.90	0.00	0.00	30.31	30.31
e												
0-1000	3.39	1.18	15.37	19.94	1.20	1.21	13.32	15.73	4.59	2.39	28.69	35.67
1-2000	2.77	1.52	16.66	20.95	1.20	1.07	16.63	18.90	3.97	2.59	33.29	39.85
2-3000	2.63	1.66	13.15	17.44	1.59	2.58	16.82	20.99	4.22	4.24	29.97	38.43
f												
0-1000	0.00	4.28	11.30	15.58	0.00	1.90	17.59	19.49	0.00	6.18	28.89	35.07
1-2000	0.00	4.31	9.66	13.97	0.00	2.46	10.21	12.67	0.00	6.77	19.87	26.64
2-3000	0.00	3.56	9.38	12.94	0.00	2.86	11.61	14.47	0.00	6.42	20.99	27.41
g												
0-1000	1.36	0.00	0.00	1.36	0.16	0.00	0.00	0.16	1.52	0.00	0.00	1.52
1-2000	0.99	0.00	0.00	0.99	0.14	0.00	0.00	0.14	1.13	0.00	0.00	1.13
2-3000	0.92	0.00	0.00	0.92	0.33	0.00	0.00	0.33	1.25	0.00	0.00	1.25

keystone													
0-1000	0.00	9.98	13.11	23.09	0.00	8.08	11.96	20.04	0.00	18.06	25.07	43.13	
1-2000	0.00	8.68	1.15	9.83	0.00	6.28	2.99	9.27	0.00	14.96	4.14	19.10	
2-3000	0.00	5.54	0.00	5.54	0.00	14.14	0.00	14.14	0.00	19.68	0.00	19.68	
low carbonera													
0-1000	4.18	33.59	12.27	50.04	13.35	1.50	63.61	78.46	17.53	35.09	75.88	128.50	
1-2000	0.00	1.38	0.00	1.38	1.85	0.00	38.47	40.32	1.85	1.38	38.47	41.70	
mid carbonera													
0-1000	5.47	11.91	30.40	47.78	15.56	0.00	112.02	127.58	21.03	11.91	142.42	175.36	
1-2000	0.00	0.00	0.00	0.00	1.29	0.00	21.09	22.38	1.29	0.00	21.09	22.38	
palisade													
0-1000	19.05	26.29	8.71	54.05	11.59	12.95	0.00	24.54	30.64	39.24	8.71	78.59	
1-2000	0.15	0.00	0.00	0.15	0.00	10.74	0.00	10.74	0.15	10.74	0.00	10.89	
2-3000	0.00	0.00	0.00	0.00	0.00	2.36	0.00	2.36	0.00	2.36	0.00	2.36	
uncorrelated													
0-1000	0.00	1.55	0.00	1.55	0.00	0.99	0.00	0.99	0.00	2.54	0.00	2.54	
1-2000	0.00	1.23	0.00	1.23	0.00	1.30	0.00	1.30	0.00	2.53	0.00	2.53	
2-3000	0.00	1.18	0.00	1.18	0.00	2.09	0.00	2.09	0.00	3.27	0.00	3.27	
up carbonera													
0-1000	6.51	7.15	9.28	22.94	1.62	1.08	1.98	4.68	8.13	8.23	11.26	27.62	
wheeler													
0-1000	0.00	0.00	52.47	52.47	0.00	0.00	41.89	41.89	0.00	0.00	94.36	94.36	
1-2000	0.00	0.00	50.56	50.56	0.00	0.00	56.02	56.02	0.00	0.00	106.58	106.58	
2-3000	0.00	0.00	48.47	48.47	0.00	0.00	71.99	71.99	0.00	0.00	120.46	120.46	

county total =	51.86	170.97	829.26	1052.09	63.08	154.17	998.31	1215.56	114.94	325.14	1827.57	2267.65	

gunnison							county						

bit													
a													
0-1000	0.55	27.34	2.79	30.68	0.00	22.11	8.02	30.13	0.55	49.45	10.81	60.81	
1-2000	6.71	7.67	5.78	20.16	7.29	20.33	5.44	33.06	14.00	28.00	11.22	53.22	
2-3000	0.00	0.00	2.62	2.62	0.00	0.00	7.98	7.98	0.00	0.00	10.60	10.60	
ab													
0-1000	0.63	0.11	16.68	17.42	0.00	0.00	18.86	18.86	0.63	0.11	35.54	36.28	
1-2000	0.15	1.45	60.65	62.25	0.00	0.00	15.64	15.64	0.15	1.45	76.29	77.89	
2-3000	0.00	0.00	34.58	34.58	0.00	0.00	73.09	73.09	0.00	0.00	107.67	107.67	
b													
0-1000	0.06	0.00	207.58	207.64	0.00	0.00	105.83	105.83	0.06	0.00	313.41	313.47	
1-2000	0.72	0.00	147.80	148.52	0.21	0.00	316.48	316.69	0.93	0.00	464.28	465.21	
2-3000	0.00	0.00	34.79	34.79	3.52	0.00	146.32	149.84	3.52	0.00	181.11	184.63	
c													
0-1000	0.00	4.88	98.16	103.04	0.00	11.40	105.70	117.10	0.00	16.28	203.86	220.14	
1-2000	0.00	22.60	49.36	71.96	0.00	16.85	113.31	130.16	0.00	39.45	162.67	202.12	
2-3000	0.00	13.15	6.39	19.54	0.00	37.19	65.18	102.37	0.00	50.34	71.57	121.91	
coal no 1													
0-1000	0.23	5.85	18.12	24.20	0.47	3.94	20.30	24.71	0.70	9.79	38.42	48.91	
coal no 2													
0-1000	1.15	3.00	43.49	47.64	0.29	0.00	54.25	54.54	1.44	3.00	97.74	102.18	
1-2000	0.00	0.00	0.32	0.32	0.00	0.00	0.68	0.68	0.00	0.00	1.00	1.00	
coal no 3													
0-1000	0.66	2.20	5.48	8.34	1.33	6.31	10.64	18.28	1.99	8.51	16.12	26.62	
1-2000	0.07	0.00	0.00	0.07	0.16	0.00	0.00	0.16	0.23	0.00	0.00	0.23	
coal no 4													
0-1000	0.00	2.58	0.00	2.58	0.00	5.15	0.00	5.15	0.00	7.73	0.00	7.73	
coal no 5													
0-1000	0.00	0.00	6.48	6.48	0.00	0.00	21.68	21.68	0.00	0.00	28.16	28.16	
1-2000	0.00	0.00	0.28	0.28	0.00	0.00	1.72	1.72	0.00	0.00	2.00	2.00	
coal no 6													

	0-1000	0.79	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.79
	1-2000	0.82	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.82
bed 3													
	2-3000	0.00	0.41	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.41
bed 4													
	0-1000	0.38	0.66	0.82	1.86	0.09	0.00	0.67	0.76	0.47	0.66	1.49	2.62
	1-2000	0.22	0.48	0.47	1.17	0.05	0.00	0.62	0.67	0.27	0.48	1.09	1.84
	2-3000	0.21	0.45	0.02	0.68	0.04	0.00	0.59	0.63	0.25	0.45	0.61	1.31
bed 5													
	0-1000	0.01	0.83	1.24	2.08	0.45	0.00	0.74	1.19	0.46	0.83	1.98	3.27
	1-2000	0.00	0.70	0.79	1.49	0.42	0.00	0.59	1.01	0.42	0.70	1.38	2.50
	2-3000	0.01	0.47	0.55	1.03	0.29	0.00	0.42	0.71	0.30	0.47	0.97	1.74
bunker hill													
	0-1000	0.00	0.00	2.68	2.68	0.00	0.00	8.05	8.05	0.00	0.00	10.73	10.73
	1-2000	0.00	0.00	0.00	0.00	0.00	0.00	9.54	9.54	0.00	0.00	9.54	9.54
cameron													
	0-1000	8.90	20.70	26.10	55.70	5.60	7.80	9.20	22.60	14.50	28.50	35.30	78.30
	1-2000	0.30	0.10	0.00	0.40	4.80	1.40	0.00	6.20	5.10	1.50	0.00	6.60
delagua no 1													
	0-1000	2.44	2.48	0.00	4.92	2.56	0.61	0.00	3.17	5.00	3.09	0.00	8.09
empire													
	0-1000	5.32	2.64	3.82	11.78	0.21	0.05	0.00	0.26	5.53	2.69	3.82	12.04
gem													
	0-1000	1.28	3.24	0.00	4.52	0.11	0.41	0.00	0.52	1.39	3.65	0.00	5.04
hastings													
	0-1000	0.48	0.00	0.00	0.48	0.14	0.00	0.00	0.14	0.62	0.00	0.00	0.62
kebler no 2													
	0-1000	0.00	0.00	3.40	3.40	0.00	0.70	11.60	12.30	0.00	0.70	15.00	15.70
	1-2000	0.00	0.00	1.10	1.10	6.70	11.40	12.50	30.60	6.70	11.40	13.60	31.70
	2-3000	0.00	0.00	0.00	0.00	7.00	2.50	2.20	11.70	7.00	2.50	2.20	11.70
lenox													
	0-1000	13.30	17.20	15.20	45.70	2.50	8.30	2.10	12.90	15.80	25.50	17.30	58.60
	1-2000	0.80	1.90	3.00	5.70	12.00	14.70	15.50	42.20	12.80	16.60	18.50	47.90
	2-3000	0.00	0.00	0.00	0.00	9.80	12.00	8.80	30.60	9.80	12.00	8.80	30.60
lower alamo													
	0-1000	0.20	0.30	4.20	4.70	0.10	1.70	1.90	3.70	0.30	2.00	6.10	8.40
	1-2000	0.00	0.20	4.60	4.80	2.00	1.90	4.80	8.70	2.00	2.10	9.40	13.50
	2-3000	0.00	0.00	0.00	0.00	0.40	0.20	0.00	0.60	0.40	0.20	0.00	0.60
lower bunker hill													
	0-1000	4.59	0.00	0.00	4.59	6.11	0.00	0.00	6.11	10.70	0.00	0.00	10.70
	1-2000	0.32	0.00	0.00	0.32	17.32	0.00	0.00	17.32	17.64	0.00	0.00	17.64
lower robinson													
	0-1000	13.40	11.20	8.50	33.10	6.70	2.10	1.40	10.20	20.10	13.30	9.90	43.30
	1-2000	9.20	0.50	0.00	9.70	3.70	0.00	0.00	3.70	12.90	0.50	0.00	13.40
	2-3000	1.00	0.00	0.00	1.00	3.00	0.00	0.00	3.00	4.00	0.00	0.00	4.00
lower rugby													
	0-1000	0.30	7.78	4.60	12.68	14.41	22.04	0.25	36.70	14.71	29.82	4.85	49.38
mammoth													
	0-1000	0.00	0.00	18.30	18.30	0.00	0.00	0.00	0.00	0.00	0.00	18.30	18.30
mutual													
	0-1000	0.20	9.00	12.20	21.40	11.10	9.60	11.00	31.70	11.30	18.60	23.20	53.10
new rouse													
	0-1000	2.69	4.11	17.75	24.55	3.52	3.61	5.45	12.58	6.21	7.72	23.20	37.13
	1-2000	0.00	0.95	0.14	1.09	18.03	14.30	2.96	35.29	18.03	15.25	3.10	36.38
occidental													
	0-1000	0.00	0.00	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60
pryor													
	0-1000	7.87	13.09	18.40	39.36	6.52	13.45	11.00	30.97	14.39	26.54	29.40	70.33
	1-2000	0.00	0.24	0.43	0.67	21.87	27.44	0.45	49.76	21.87	27.68	0.88	50.43
rapson													

0-1000	1.44	7.83	5.97	15.24	1.25	15.42	0.66	17.33	2.69	23.25	6.63	32.57
1-2000	0.00	0.63	0.68	1.31	3.13	48.46	1.93	53.52	3.13	49.09	2.61	54.83
rider												
0-1000	8.20	9.20	0.00	17.40	11.10	1.30	0.00	12.40	19.30	10.50	0.00	29.80
1-2000	1.20	0.50	0.00	1.70	18.40	3.70	0.00	22.10	19.60	4.20	0.00	23.80
2-3000	0.00	0.00	0.00	0.00	10.50	0.00	0.00	10.50	10.50	0.00	0.00	10.50
thomas												
0-1000	0.46	1.29	0.00	1.75	0.86	0.00	0.00	0.86	1.32	1.29	0.00	2.61
uncorrelated												
0-1000	21.23	4.78	1.13	27.14	10.65	0.58	0.00	11.23	31.88	5.36	1.13	38.37
1-2000	1.03	0.37	0.39	1.79	2.74	0.52	0.00	3.26	3.77	0.89	0.39	5.05
2-3000	1.09	0.76	0.06	1.91	2.70	0.50	0.00	3.20	3.79	1.26	0.06	5.11
upper alamo												
0-1030	0.10	0.60	2.20	2.90	0.30	0.30	0.00	0.60	0.40	0.90	2.20	3.50
1-2000	0.20	0.50	0.30	1.00	0.30	0.20	0.00	0.50	0.50	0.70	0.30	1.50
upper bunker hill												
0-1000	3.55	2.91	2.77	9.23	3.66	7.84	0.37	11.87	7.21	10.75	3.14	21.10
1-2000	0.00	7.10	0.00	7.10	20.06	2.89	0.00	22.95	20.06	9.99	0.00	30.05
upper robinson												
0-1000	9.70	7.70	9.10	26.50	7.60	0.80	0.00	8.40	17.30	8.50	9.10	34.90
1-2000	0.80	8.80	3.40	13.00	9.00	0.00	0.70	9.70	9.80	8.80	4.10	22.70
2-3000	0.00	0.00	0.00	0.00	13.50	0.00	0.00	13.50	13.50	0.00	0.00	13.50
upper rugby												
0-1000	0.98	3.91	0.00	4.89	5.17	0.65	0.00	5.82	6.15	4.56	0.00	10.71
walsen												
0-1000	8.30	6.90	10.80	26.00	1.70	10.60	0.70	13.00	10.00	17.50	11.50	39.00
1-2000	2.50	2.00	6.40	10.90	0.80	7.30	0.50	8.60	3.30	9.30	6.90	19.50
2-3000	0.00	0.00	0.00	0.00	3.40	2.60	0.00	6.00	3.40	2.60	0.00	6.00
county total =	150.78	186.39	194.46	531.63	333.01	278.06	127.21	738.28	483.79	464.45	321.67	1269.91
----- la plata county -----												
bit												
carbonero												
0-1000	0.00	0.00	22.54	22.54	0.00	0.00	0.00	0.00	0.00	0.00	22.54	22.54
uncorrelated												
0-1000	17.59	7.97	291.74	317.30	383.47	608.35	1031.97	2023.79	401.06	616.32	1323.71	2341.09
1-2000	1.31	2.10	6.53	9.94	13.82	15.61	241.27	270.70	15.13	17.71	247.80	280.64
2-3000	0.00	0.00	0.00	0.00	26.10	32.29	389.72	448.11	26.10	32.29	389.72	448.11
county total =	18.90	10.07	320.81	349.78	423.39	656.25	1662.96	2742.60	442.29	666.32	1983.77	3092.38
----- las animas county -----												
bit												
a												
0-1000	1.32	5.60	7.49	14.41	5.65	3.89	0.00	9.54	6.97	9.49	7.49	23.95
alfreda												
0-1000	0.77	3.68	1.35	5.80	1.68	3.39	0.00	5.07	2.45	7.07	1.35	10.87
apache												
0-1000	7.74	8.59	13.67	30.00	25.05	41.25	3.06	69.36	32.79	49.84	16.73	99.36
1-2000	0.01	0.09	0.00	0.10	9.58	7.65	0.00	17.23	9.59	7.74	0.00	17.33
b												
0-1000	2.83	4.10	34.15	41.08	22.96	24.85	94.07	141.88	25.79	28.95	128.22	182.96
bear canyon no 6												
0-1000	8.36	3.63	5.98	17.97	4.61	1.75	0.26	6.62	12.97	5.38	6.24	24.59
bed 1												
0-1000	0.05	1.44	0.00	1.49	3.60	4.71	0.02	8.33	3.65	6.15	0.02	9.82
1-2000	0.33	1.22	0.00	1.55	1.86	2.73	0.00	4.59	2.19	3.95	0.00	6.14

2-3000	0.00	0.01	0.00	0.01	7.73	1.08	0.00	8.81	7.73	1.09	0.00	8.82
bed 2	0-1000	0.00	0.69	2.59	3.28	0.00	0.00	0.00	0.00	0.69	2.59	3.28
	1-2000	0.00	1.30	0.00	1.30	0.00	0.00	0.00	0.00	1.30	0.00	1.30
	2-3000	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.05
bed 3	1-2000	0.00	2.78	0.66	3.44	0.00	0.00	0.00	0.00	2.78	0.66	3.44
bed 4	0-1000	2.07	1.58	16.84	20.49	0.06	4.58	7.75	12.39	2.13	6.16	24.59
	1-2000	1.15	0.77	4.97	6.89	12.69	17.53	9.28	39.50	13.84	18.30	46.39
	2-3000	0.00	0.00	1.79	1.79	25.96	1.51	2.77	30.24	25.96	1.51	4.56
bed 5	0-1000	0.15	0.59	31.09	31.83	0.00	0.00	2.90	2.90	0.15	0.59	33.99
	1-2000	0.03	0.28	12.32	12.63	0.26	0.55	10.02	10.83	0.29	0.83	22.34
	2-3000	0.00	0.00	0.00	0.00	0.00	1.54	15.71	17.25	0.00	1.54	17.25
berwind	0-1000	8.15	9.41	11.32	28.88	18.17	14.35	4.10	36.62	26.32	23.76	65.50
boncarbo	0-1000	0.11	1.14	29.34	30.59	10.06	15.58	14.80	40.44	10.17	16.72	44.14
bunker hill	0-1000	0.00	0.00	2.68	2.68	0.00	0.00	8.05	8.05	0.00	0.00	10.73
	1-2000	0.00	0.00	0.00	0.00	0.00	0.00	9.54	9.54	0.00	0.00	9.54
c bd	0-1000	0.79	7.05	2.65	10.49	1.65	3.09	0.00	4.74	2.44	10.14	2.65
cass	0-1000	6.59	5.16	7.06	18.81	12.81	1.93	0.55	15.29	19.40	7.09	7.61
ciruela	0-1000	52.75	57.28	7.89	117.92	60.69	10.18	21.16	92.03	113.44	67.46	29.05
cokedale	0-1000	3.92	12.78	14.31	31.01	8.91	6.55	0.61	16.07	12.83	19.33	14.92
d bd	0-1000	3.39	1.21	0.00	4.60	0.00	0.00	0.00	0.00	3.39	1.21	0.00
delagua no 1	0-1000	13.05	17.84	30.54	61.43	41.39	17.63	14.36	73.38	54.44	35.47	44.90
e bd	0-1000	0.15	0.19	0.15	0.49	0.00	0.00	0.00	0.00	0.15	0.19	0.15
empire	0-1000	6.75	3.16	3.82	13.73	6.38	0.81	0.00	7.19	13.13	3.97	3.82
f bd	0-1000	0.66	0.57	0.06	1.29	0.00	0.00	0.00	0.00	0.66	0.57	0.06
frederick	0-1000	11.64	31.15	42.89	85.68	20.33	4.84	2.65	27.82	31.97	35.99	45.54
gem	0-1000	1.75	4.42	0.00	6.17	2.60	4.59	0.00	7.19	4.35	9.01	0.00
hastings	0-1000	0.51	0.95	19.15	20.61	4.06	8.46	42.27	54.79	4.57	9.41	61.42
	1-2000	0.00	0.00	0.00	0.00	1.24	0.76	0.00	2.00	1.24	0.76	0.00
lower bunker hill	0-1000	4.59	0.00	0.00	4.59	6.11	0.00	0.00	6.11	10.70	0.00	0.00
	1-2000	3.19	0.00	0.00	3.19	17.32	0.00	0.00	17.32	20.51	0.00	0.00
lower ludlow	0-1000	4.15	2.60	8.99	15.74	7.40	1.10	5.72	14.22	11.55	3.70	14.71
lower member raton	0-1000	84.41	32.20	16.10	132.71	107.02	10.18	8.68	125.88	191.43	42.38	24.78
	1-2000	0.00	0.00	0.00	0.00	1.14	0.00	0.00	1.14	1.14	0.00	0.00
lower piedmont	0-1000	1.40	2.59	0.00	3.99	17.65	2.51	0.00	20.16	19.05	5.10	0.00
lower rugby	0-1000	0.30	7.78	4.60	12.68	14.41	22.04	0.25	36.70	14.71	29.82	4.85
lower sopris												

0-1000	1.39	0.10	0.00	1.49	1.66	0.00	0.00	1.66	3.05	0.10	0.00	3.15
lower starkville												
0-1000	0.67	3.18	7.78	11.63	4.91	2.78	1.05	8.74	5.58	5.96	8.83	20.37
majestic												
0-1000	0.29	4.94	25.77	31.00	14.47	7.08	21.00	42.55	14.76	12.02	46.77	73.55
1-2000	0.00	0.00	0.00	0.00	3.55	0.00	0.00	3.55	3.55	0.00	0.00	3.55
martineci												
0-1000	2.28	2.05	0.00	4.33	6.96	0.56	0.00	7.52	9.24	2.61	0.00	11.85
middle member raton												
0-1000	17.87	12.71	0.00	30.58	2.43	1.63	0.00	4.06	20.30	14.34	0.00	34.64
morley												
0-1000	2.30	4.83	17.48	24.61	13.39	14.33	0.97	28.69	15.69	19.16	18.45	53.30
new rouse												
0-1000	2.69	4.11	17.75	24.55	3.52	3.61	5.45	12.58	6.21	7.72	23.20	37.13
1-2000	0.00	0.95	0.14	1.09	18.00	14.30	2.96	35.26	18.00	15.25	3.10	36.35
piedmont												
0-1000	0.42	1.13	14.50	16.05	14.32	23.77	20.37	58.46	14.74	24.90	34.87	74.51
primero												
0-1000	7.48	7.04	38.29	52.81	15.24	17.79	78.92	111.95	22.72	24.83	117.21	164.76
1-2000	0.00	0.00	0.00	0.00	0.46	0.05	0.00	0.51	0.46	0.05	0.00	0.51
pryor												
0-1000	2.07	1.99	6.90	10.96	2.92	6.25	8.90	18.07	4.99	8.24	15.80	29.03
1-2000	0.00	0.24	0.43	0.67	15.37	26.34	0.45	42.16	15.37	26.58	0.88	42.83
rainbow												
0-1000	4.94	17.55	7.30	29.79	7.68	43.82	1.64	53.14	12.62	61.37	8.94	82.93
1-2000	0.00	0.00	0.00	0.00	8.62	10.71	0.00	19.33	8.62	10.71	0.00	19.33
rapson												
0-1000	1.44	7.83	5.97	15.24	1.25	15.42	0.66	17.33	2.69	23.25	6.63	32.57
1-2000	0.00	0.63	0.68	1.31	3.13	48.46	19.32	70.91	3.13	49.09	20.00	72.22
sopris												
0-1000	5.48	19.40	4.37	29.25	17.44	23.15	0.00	40.59	22.92	42.55	4.37	69.84
1-2000	0.00	0.00	0.00	0.00	1.59	0.00	0.00	1.59	1.59	0.00	0.00	1.59
thomas												
0-1000	0.46	1.29	0.00	1.75	0.86	0.00	0.00	0.86	1.32	1.29	0.00	2.61
three pines												
0-1000	7.11	5.37	0.30	12.78	13.85	2.49	0.00	16.34	20.96	7.86	0.30	29.12
uncorrelated												
0-3000	0.00	0.00	0.00	0.00	15.19	54.45	350.17	419.81	15.19	54.45	350.17	419.81
0-1000	78.21	28.33	36.23	142.77	64.98	17.52	5.75	88.25	143.19	45.85	41.98	231.02
1-2000	1.50	0.42	1.96	3.88	3.46	19.55	1.91	24.92	4.96	19.97	3.87	28.80
2-3000	0.75	0.52	0.00	1.27	9.33	2.12	0.00	11.45	10.08	2.64	0.00	12.72
upper bunker hill												
0-1000	3.74	3.46	3.41	10.61	3.66	7.84	0.37	11.87	7.40	11.30	3.78	22.48
1-2000	0.00	7.07	0.00	7.07	20.06	2.89	0.00	22.95	20.06	9.96	0.00	30.02
upper ludlow												
0-1000	1.48	4.03	0.29	5.80	1.37	0.15	0.00	1.52	2.85	4.18	0.29	7.32
upper member raton												
0-1000	11.13	1.43	0.01	12.57	2.02	0.00	0.00	2.02	13.15	1.43	0.01	14.59
upper rugby												
0-1000	1.83	3.91	0.00	5.74	12.51	0.65	0.00	13.16	14.34	4.56	0.00	18.90
upper starkville												
0-1000	0.36	0.42	0.05	0.83	0.76	0.52	0.97	2.25	1.12	0.94	1.02	3.08

county total =	389.00	378.76	524.06	1291.82	785.99	609.84	799.44	2195.27	1174.99	988.60	1323.50	3487.09
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----- mesa county -----

bit

anchor

0-1000	0.00	0.41	23.83	24.24	0.00	0.00	12.90	12.90	0.00	0.41	36.73	37.14
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cameo	1-2000	0.00	0.00	0.00	0.00	0.00	0.00	17.85	17.85	0.00	0.00	17.85	17.85
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	10.50	10.50	0.00	0.00	10.50	10.50
	0-1000	0.00	0.00	104.22	104.22	0.00	0.00	121.45	121.45	0.00	0.00	225.67	225.67
	1-2000	0.00	0.00	12.63	12.63	0.00	0.00	129.46	129.46	0.00	0.00	142.09	142.09
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	48.91	48.91	0.00	0.00	48.91	48.91
carbonera	0-1000	0.00	0.00	16.33	16.33	0.00	0.00	0.00	0.00	0.00	0.00	16.33	16.33
	1-2000	0.00	0.00	3.03	3.03	0.00	0.00	0.00	0.00	0.00	0.00	3.03	3.03
palisade	0-1000	1.43	12.54	72.02	85.99	0.07	5.61	176.53	182.21	1.50	18.15	248.55	268.20
	1-2000	0.83	3.30	18.06	22.19	0.00	2.87	304.30	307.17	0.83	6.17	322.36	329.36
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	201.25	201.25	0.00	0.00	201.25	201.25
	county total =	2.26	16.25	250.12	268.63	0.07	8.48	1023.15	1031.70	2.33	24.73	1273.27	1300.33

moffat county													

bit													
a	0-1000	0.00	5.88	0.00	5.88	0.00	0.00	0.00	0.00	0.00	5.88	0.00	5.88
	0-1000	0.00	0.00	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.56
basuf	0-1000	0.00	0.00	30.61	30.61	0.00	0.00	0.00	0.00	0.00	0.00	30.61	30.61
	1-2000	0.00	0.00	32.74	32.74	0.00	0.00	0.00	0.00	0.00	0.00	32.74	32.74
	2-3000	0.00	0.00	28.72	28.72	0.00	0.00	0.00	0.00	0.00	0.00	28.72	28.72
bd group	0-1000	38.96	19.48	78.05	136.49	0.00	0.00	0.00	0.00	38.96	19.48	78.05	136.49
	1-2000	7.51	2.54	11.01	21.06	0.00	0.00	0.00	0.00	7.51	2.54	11.01	21.06
d	0-1000	3.57	1.79	13.10	18.46	0.00	0.00	0.00	0.00	3.57	1.79	13.10	18.46
	1-2000	0.00	1.37	17.56	18.93	0.00	0.00	0.00	0.00	0.00	1.37	17.56	18.93
e	0-1000	0.00	0.00	8.55	8.55	0.00	0.00	0.00	0.00	0.00	0.00	8.55	8.55
f zone	0-1000	18.99	1.34	67.84	88.17	0.00	0.00	0.00	0.00	18.99	1.34	67.84	88.17
	1-2000	22.92	0.00	17.90	40.82	0.00	0.00	0.00	0.00	22.92	0.00	17.90	40.82
ff 1	0-1000	0.10	1.67	0.87	2.64	0.06	0.00	0.00	0.06	0.16	1.67	0.87	2.70
ff 10	0-1000	0.87	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.87
ff 11	0-1000	2.04	0.00	0.31	2.35	0.00	0.00	0.00	0.00	2.04	0.00	0.31	2.35
ff 12	0-1000	0.00	0.00	8.28	8.28	0.00	0.00	0.00	0.00	0.00	0.00	8.28	8.28
ff 13	0-1000	0.00	1.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	1.60	0.00	1.60
ff 14	0-1000	0.00	0.72	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.72
ff 15	0-1000	0.66	0.00	0.24	0.90	0.17	0.00	4.61	4.78	0.83	0.00	4.05	5.68
ff 18	0-1000	0.00	0.00	14.85	14.85	0.00	0.00	17.86	17.86	0.00	0.00	32.71	32.71
ff 19	0-1000	1.85	0.00	0.00	1.85	4.16	1.63	0.00	5.79	6.01	1.63	0.00	7.64
ff 2	0-1000	0.70	2.18	0.00	2.88	0.00	0.23	0.00	0.23	0.70	2.41	0.00	3.11
ff 20	0-1000	0.00	3.71	0.00	3.71	0.00	16.53	0.00	16.53	0.00	20.24	0.00	20.24

[illegible]

	0-1000	3.02	6.47	75.41	84.90	0.00	0.00	0.00	0.00	3.02	6.47	75.41	84.90
	1-2000	1.62	9.40	90.88	101.90	0.00	0.00	0.00	0.00	1.62	9.40	90.88	101.90
j	0-1000	0.00	3.70	6.16	9.86	0.00	0.00	0.00	0.00	0.00	3.70	6.16	9.86
	1-2000	0.00	8.34	0.00	8.34	0.00	0.00	0.00	0.00	0.00	8.34	0.00	8.34
lay section	0-1000	0.00	0.00	40.39	40.39	0.00	0.00	0.00	0.00	0.00	0.00	40.39	40.39
	1-2000	0.00	0.00	55.54	55.54	0.00	0.00	28.22	28.22	0.00	0.00	83.76	83.76
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	108.50	108.50	0.00	0.00	108.50	108.50
lower group	0-1000	39.81	30.25	37.11	107.17	0.00	0.00	0.00	0.00	39.81	30.25	37.11	107.17
	1-2000	0.49	0.80	0.00	1.29	0.00	0.00	0.00	0.00	0.49	0.80	0.00	1.29
middle group	0-1000	0.00	0.00	33.52	33.52	0.00	0.00	0.00	0.00	0.00	0.00	33.52	33.52
midwf	0-1000	0.00	0.00	51.15	51.15	0.00	0.00	0.00	0.00	0.00	0.00	51.15	51.15
topwf	0-1000	0.00	0.00	1.87	1.87	0.00	0.00	0.00	0.00	0.00	0.00	1.87	1.87
wadge	1-2000	0.00	0.00	0.00	0.00	0.00	0.00	77.71	77.71	0.00	0.00	77.71	77.71
county total =		246.87	294.43	2145.91	2687.21	7.89	67.44	352.68	428.01	254.76	361.87	2498.59	3115.22
----- montezuma county -----													
bit	uncorrelated												
	0-1000	27.29	14.60	6.22	48.11	46.61	58.92	96.07	201.60	73.90	73.52	102.29	249.71
county total =		27.29	14.60	6.22	48.11	46.61	58.92	96.07	201.60	73.90	73.52	102.29	249.71
----- montrose county -----													
bit	lower member												
	0-1000	0.00	7.23	7.33	14.56	0.00	69.77	10.14	79.91	0.00	77.00	17.47	94.47
	middle member												
	0-1000	0.00	0.00	25.72	25.72	0.00	0.00	38.87	38.87	0.00	0.00	64.59	64.59
	upper member												
	0-1000	0.00	2.54	0.00	2.54	0.00	0.00	0.00	0.00	0.00	2.54	0.00	2.54
county total =		0.00	9.77	33.05	42.82	0.00	69.77	49.01	118.78	0.00	79.54	82.06	161.60
----- park county -----													
bit	como												
	0-1000	0.00	0.00	18.44	18.44	0.00	0.00	5.05	5.05	0.00	0.00	23.49	23.49
	1-2000	0.00	0.00	11.50	11.50	0.00	0.00	4.50	4.50	0.00	0.00	16.00	16.00
	2-3000	0.00	0.00	6.93	6.93	0.00	0.00	3.79	3.79	0.00	0.00	10.72	10.72
jeff	hill												
	0-1000	0.30	0.00	0.00	0.30	0.34	0.00	0.00	0.34	0.64	0.00	0.00	0.64
	1-2000	0.34	0.00	0.00	0.34	0.46	0.00	0.00	0.46	0.80	0.00	0.00	0.80
	2-3000	0.34	0.00	0.00	0.34	0.42	0.00	0.00	0.42	0.76	0.00	0.00	0.76
lower	0-1000	0.75	0.00	5.31	6.06	0.00	0.00	0.00	0.00	0.75	0.00	5.31	6.06
	1-2000	0.75	0.00	6.01	6.76	0.00	0.00	0.00	0.00	0.75	0.00	6.01	6.76
	2-3000	0.62	0.00	4.95	5.57	0.00	0.00	0.00	0.00	0.62	0.00	4.95	5.57
middle	0-1000	1.04	0.85	0.00	1.89	0.00	0.00	0.00	0.00	1.04	0.85	0.00	1.89

	1-2000	1.04	7.60	0.00	8.64	0.00	0.00	0.00	0.00	1.04	7.60	0.00	8.64
	2-3000	0.84	7.60	0.00	8.44	0.00	0.00	0.00	0.00	0.84	7.60	0.00	8.44
upper	0-1000	0.00	0.00	0.71	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.71
	1-2000	0.00	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83
	2-3000	0.00	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.94	0.94
county total =		6.02	16.05	55.62	77.69	1.22	0.00	13.34	14.56	7.24	16.05	68.96	92.25
		pitkin				county							
bit													
a	0-1000	0.00	0.00	12.90	12.90	0.00	0.00	3.68	3.68	0.00	0.00	16.58	16.58
	1-2000	0.00	0.00	14.20	14.20	0.00	0.00	3.49	3.49	0.00	0.00	17.69	17.69
	2-3000	0.00	0.00	19.60	19.60	0.00	0.00	6.35	6.35	0.00	0.00	25.95	25.95
ab	0-1000	0.00	0.00	5.71	5.71	0.00	0.00	7.34	7.34	0.00	0.00	13.05	13.05
	1-2000	0.00	0.00	4.08	4.08	0.00	0.00	13.86	13.86	0.00	0.00	17.94	17.94
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	6.53	6.53	0.00	0.00	6.53	6.53
allen	0-1000	0.00	0.00	22.83	22.83	0.00	0.00	7.64	7.64	0.00	0.00	30.47	30.47
	1-2000	0.00	0.00	16.87	16.87	0.00	0.00	11.66	11.66	0.00	0.00	28.53	28.53
	2-3000	0.00	0.00	16.69	16.69	0.00	0.00	10.53	10.53	0.00	0.00	27.22	27.22
anderson	0-1000	0.00	4.89	11.55	16.44	0.00	4.32	0.00	4.32	0.00	9.21	11.55	20.76
	1-2000	0.00	2.84	9.30	12.14	0.00	6.82	0.15	6.97	0.00	9.66	9.45	19.11
	2-3000	0.00	2.15	8.26	10.41	0.00	4.10	4.54	8.64	0.00	6.25	12.80	19.05
b	0-1000	0.00	1.89	5.06	6.95	0.00	2.52	0.00	2.52	0.00	4.41	5.06	9.47
	1-2000	0.00	2.45	4.80	7.25	0.00	2.32	0.00	2.32	0.00	4.77	4.80	9.57
	2-3000	0.00	2.54	7.85	10.39	0.00	4.25	0.00	4.25	0.00	6.79	7.85	14.64
c	0-1000	0.00	0.00	5.08	5.08	0.00	0.00	3.02	3.02	0.00	0.00	8.10	8.10
	1-2000	0.00	0.00	4.86	4.86	0.00	0.00	4.20	4.20	0.00	0.00	9.06	9.06
	2-3000	0.00	0.00	7.63	7.63	0.00	0.00	4.96	4.96	0.00	0.00	12.59	12.59
d	0-1000	0.00	0.00	3.42	3.42	0.00	0.00	0.00	0.00	0.00	0.00	3.42	3.42
	1-2000	0.00	0.00	3.21	3.21	0.00	0.00	0.00	0.00	0.00	0.00	3.21	3.21
	2-3000	0.00	0.00	5.22	5.22	0.00	0.00	0.00	0.00	0.00	0.00	5.22	5.22
e	0-1000	0.44	3.44	0.00	3.88	0.00	3.57	0.00	3.57	0.44	7.01	0.00	7.45
	1-2000	0.28	2.43	0.00	2.71	0.00	3.16	0.00	3.16	0.28	5.59	0.00	5.87
	2-3000	0.41	1.38	0.00	1.79	0.00	5.60	0.00	5.60	0.41	6.98	0.00	7.39
f	0-1000	0.00	4.12	0.00	4.12	0.00	3.75	0.00	3.75	0.00	7.87	0.00	7.87
	1-2000	0.00	2.86	0.00	2.86	0.00	3.39	0.00	3.39	0.00	6.25	0.00	6.25
	2-3000	0.00	2.13	0.00	2.13	0.00	6.24	0.00	6.24	0.00	8.37	0.00	8.37
g	0-1000	2.24	0.00	0.00	2.24	2.03	0.00	0.00	2.03	4.27	0.00	0.00	4.27
	1-2000	1.54	0.00	0.00	1.54	1.85	0.00	0.00	1.85	3.39	0.00	0.00	3.39
	2-3000	1.17	0.00	0.00	1.17	3.41	0.00	0.00	3.41	4.38	0.00	0.00	4.58
low holgate	0-1000	0.08	1.45	0.00	1.53	0.14	0.29	0.00	0.43	0.22	1.74	0.00	1.96
	1-2000	0.03	0.47	0.00	0.50	0.11	0.59	0.00	0.70	0.14	1.06	0.00	1.20
	2-3000	0.00	0.00	0.00	0.00	0.01	0.21	0.00	0.22	0.01	0.21	0.00	0.22
mid holgate	0-1000	0.61	0.00	0.00	0.61	0.39	0.00	0.00	0.39	1.00	0.00	0.00	1.00
	1-2000	0.18	0.00	0.00	0.18	0.44	0.00	0.00	0.44	0.62	0.00	0.00	0.62
	2-3000	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.12

placita												
0-1000	0.00	0.98	0.00	0.98	0.00	1.76	0.00	1.76	0.00	2.74	0.00	2.74
1-2000	0.00	0.17	0.00	0.17	0.00	1.11	0.00	1.11	0.00	1.28	0.00	1.28
2-3000	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
uncorrelated												
0-1000	0.00	0.00	4.51	4.51	0.00	0.00	4.51	4.51	0.00	0.00	9.02	9.02
1-2000	0.00	0.00	5.30	5.30	0.00	0.00	4.90	4.90	0.00	0.00	10.20	10.20
2-3000	0.00	0.00	3.33	3.33	0.00	0.00	4.12	4.12	0.00	0.00	7.45	7.45
up holgate												
0-1000	0.57	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.57
1-2000	0.18	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.18
upper part												
0-1000	0.00	0.77	0.00	0.77	0.00	0.18	0.00	0.18	0.00	0.95	0.00	0.95
1-2000	0.00	0.17	0.00	0.17	0.00	0.44	0.00	0.44	0.00	0.61	0.00	0.61
2-3000	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.05	0.00	0.05
county total *	7.73	37.13	202.26	247.12	8.50	55.42	101.48	165.40	16.23	92.55	303.74	412.52

rio blanco county												

bit												
anobaswf												
0-1000	0.00	0.00	137.66	137.66	0.00	0.00	0.00	0.00	0.00	0.00	137.66	137.66
1-2000	0.00	0.00	6.37	6.37	0.00	0.00	0.00	0.00	0.00	0.00	6.37	6.37
baswf												
0-1000	4.00	6.17	45.82	55.99	0.00	0.00	0.00	0.00	4.00	6.17	45.82	55.99
1-2000	10.16	1.41	48.36	59.93	0.00	0.00	0.00	0.00	10.16	1.41	48.36	59.93
2-3000	3.65	0.00	23.31	26.96	0.00	0.00	0.00	0.00	3.65	0.00	23.31	26.96
bd 1												
0-1000	3.15	1.37	0.00	4.52	5.79	0.00	0.00	5.79	8.94	1.37	0.00	10.31
1-2000	1.14	1.41	0.00	2.55	4.26	0.00	0.00	4.26	5.40	1.41	0.00	6.81
2-3000	0.00	0.48	0.00	0.48	4.54	0.00	0.00	4.54	4.54	0.48	0.00	5.02
bd 10												
0-1000	0.00	1.18	0.00	1.18	0.00	1.15	0.00	1.15	0.00	2.33	0.00	2.33
1-2000	0.00	1.98	0.00	1.98	0.00	3.28	0.00	3.28	0.00	5.26	0.00	5.26
2-3000	0.00	0.00	0.00	0.00	0.00	3.76	0.00	3.76	0.00	3.76	0.00	3.76
bd 2												
0-1000	0.00	4.12	22.54	26.66	0.00	2.62	1.46	4.08	0.00	6.74	24.00	30.74
1-2000	0.00	2.64	26.51	29.15	0.00	12.90	1.86	14.76	0.00	15.54	28.37	43.91
2-3000	0.00	0.00	17.37	17.37	0.00	0.06	2.05	2.11	0.00	0.06	19.42	19.48
bd 3												
0-1000	0.00	2.34	13.04	15.38	0.00	1.86	8.80	10.66	0.00	4.20	21.84	26.04
1-2000	0.00	1.21	9.95	11.16	0.00	4.13	26.27	30.40	0.00	5.34	36.22	41.56
2-3000	0.00	0.00	0.00	0.00	0.00	0.08	13.24	13.32	0.00	0.08	13.24	13.32
bd 4												
0-1000	3.15	0.00	5.08	8.23	2.86	0.00	1.75	4.61	6.01	0.00	6.83	12.84
1-2000	2.65	0.00	2.38	5.03	7.13	0.00	4.98	12.11	9.78	0.00	7.36	17.14
2-3000	0.36	0.00	0.00	0.36	1.33	0.00	4.69	6.02	1.69	0.00	4.69	6.38
bd 5												
0-1000	0.00	2.21	5.23	7.44	0.00	0.95	3.54	4.49	0.00	3.16	8.77	11.93
1-2000	0.00	0.99	7.07	8.06	0.00	6.71	7.79	14.50	0.00	7.70	14.86	22.56
2-3000	0.00	0.00	0.69	0.69	0.00	0.00	6.68	6.68	0.00	0.00	7.37	7.37
bd 9												
0-1000	1.28	1.56	0.00	2.84	0.87	1.34	0.00	2.21	2.15	2.90	0.00	5.05
1-2000	1.02	2.62	0.00	3.64	1.02	4.49	0.00	5.51	2.04	7.11	0.00	9.15
2-3000	0.00	0.00	0.00	0.00	1.64	5.22	0.00	6.86	1.64	5.22	0.00	6.86
ff 1												
0-1000	1.17	0.00	2.18	3.35	0.00	0.00	0.00	0.00	1.17	0.00	2.18	3.35
1-2000	0.77	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.77
2-3000	0.24	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.24

ff 10												
0-1000	1.20	3.65	7.31	12.16	0.00	0.00	0.93	0.93	1.20	3.65	8.24	13.09
1-2000	0.90	2.58	4.27	7.75	0.00	0.28	3.20	3.48	0.90	2.86	7.47	11.23
2-3000	0.17	0.45	0.00	0.62	0.31	0.61	6.31	7.23	0.48	1.06	6.31	7.85
ff 11												
0-1000	3.01	5.14	10.53	18.68	5.49	9.48	1.69	16.66	8.50	14.62	12.22	35.34
1-2000	0.00	3.59	7.57	11.16	0.00	22.95	0.14	23.09	0.00	26.54	7.71	34.25
2-3000	0.00	0.31	1.46	1.77	0.00	8.14	0.05	8.19	0.00	8.45	1.51	9.96
ff 12												
0-1000	1.01	1.68	11.39	14.08	0.00	0.00	0.00	0.00	1.01	1.68	11.39	14.08
1-2000	1.12	1.32	0.00	2.44	0.00	0.00	0.00	0.00	1.12	1.32	0.00	2.44
2-3000	0.39	0.33	0.00	0.72	0.00	0.00	0.00	0.00	0.39	0.33	0.00	0.72
ff 13												
0-1000	5.46	0.63	3.71	9.80	5.18	0.00	0.00	5.18	10.64	0.63	3.71	14.98
1-2000	2.28	0.02	2.91	5.21	12.50	0.00	0.00	12.50	14.78	0.02	2.91	17.71
2-3000	0.00	0.00	0.73	0.73	8.59	0.00	0.00	8.59	8.59	0.00	0.73	9.32
ff 14												
0-1000	2.19	8.70	24.17	35.06	2.46	3.19	3.34	8.99	4.65	11.89	27.51	44.05
1-2000	0.00	2.71	23.69	26.40	0.00	11.26	4.41	15.67	0.00	13.97	28.10	42.07
2-3000	0.00	0.40	12.82	13.22	0.00	7.00	10.59	17.59	0.00	7.40	23.41	30.81
ff 15												
0-1000	0.47	2.09	16.32	18.88	0.00	0.00	6.25	6.25	0.47	2.09	22.57	25.13
1-2000	0.00	0.00	0.62	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.62
ff 16												
0-1000	1.91	0.00	6.98	8.89	1.41	0.00	0.00	1.41	3.32	0.00	6.98	10.30
1-2000	1.25	0.00	0.00	1.25	4.19	0.00	0.00	4.19	5.44	0.00	0.00	5.44
2-3000	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.22	0.22	0.00	0.00	0.22
ff 17												
0-1000	0.00	0.00	12.91	12.91	0.00	0.00	13.64	13.64	0.00	0.00	26.55	26.55
1-2000	0.00	0.00	5.54	5.54	0.00	0.00	40.21	40.21	0.00	0.00	45.75	45.75
ff 18												
0-1000	3.17	0.00	5.48	8.65	2.57	0.00	0.00	2.57	5.74	0.00	5.48	11.22
1-2000	2.35	0.00	0.00	2.35	6.67	0.00	0.00	6.67	9.02	0.00	0.00	9.02
2-3000	0.34	0.00	0.00	0.34	1.49	0.00	0.00	1.49	1.83	0.00	0.00	1.83
ff 19												
0-1000	1.88	2.33	0.00	4.21	0.00	2.93	0.00	2.93	1.88	5.26	0.00	7.14
ff 2												
0-1000	0.59	0.00	53.33	53.92	0.00	0.00	116.14	116.14	0.59	0.00	169.47	170.06
1-2000	0.22	0.00	6.44	6.66	0.00	0.00	241.02	241.02	0.22	0.00	247.46	247.68
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	10.03	10.03	0.00	0.00	10.03	10.03
ff 20												
0-1000	1.81	8.68	20.43	30.92	0.00	0.05	13.13	13.18	1.81	8.73	33.56	44.10
1-2000	0.00	0.00	1.38	1.38	0.00	0.00	4.60	4.60	0.00	0.00	5.98	5.98
ff 21												
0-1000	0.00	2.18	4.96	7.14	0.00	2.19	1.27	3.46	0.00	4.37	6.23	10.60
1-2000	0.00	0.00	3.98	3.98	0.00	0.00	14.15	14.15	0.00	0.00	18.13	18.13
ff 22												
0-1000	2.21	0.00	8.17	10.38	0.25	0.37	7.69	8.31	2.46	0.37	15.86	18.69
1-2000	0.06	0.00	1.82	1.88	0.00	1.99	0.94	2.93	0.06	1.99	2.76	4.81
2-3000	0.00	0.00	0.00	0.00	0.00	2.33	5.82	8.15	0.00	2.33	5.82	8.15
ff 23												
0-1000	1.91	12.53	3.15	17.59	0.08	13.61	1.47	15.16	1.99	26.14	4.62	32.75
1-2000	0.00	0.00	2.44	2.44	0.00	1.89	12.22	14.11	0.00	1.89	14.66	16.55
2-3000	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21	0.00	0.21	0.00	0.21
ff 24												
0-1000	4.07	3.41	0.00	7.48	2.39	0.00	0.00	2.39	6.46	3.41	0.00	9.87
1-2000	0.75	0.00	0.00	0.75	0.93	4.23	0.00	5.16	1.68	4.23	0.00	5.91
2-3000	0.00	0.00	0.00	0.00	0.47	2.83	0.00	3.30	0.47	2.83	0.00	3.30
ff 3												
0-1000	0.84	0.00	29.14	29.98	0.81	0.00	36.78	37.59	1.65	0.00	65.92	67.57

	1-2000	0.73	0.00	21.03	21.76	1.31	0.00	34.47	35.78	2.04	0.00	55.50	57.54
	2-3000	0.00	0.00	3.29	3.29	0.99	0.00	39.69	40.68	0.99	0.00	42.98	43.97
ff 4	0-1000	0.00	1.69	10.10	11.79	0.00	0.00	7.94	7.94	0.00	1.69	18.04	19.73
	1-2000	0.00	0.97	9.87	10.84	0.00	0.00	17.45	17.45	0.00	0.97	27.32	28.29
	2-3000	0.00	0.00	1.60	1.60	0.00	0.00	16.81	16.81	0.00	0.00	18.41	18.41
ff 5	0-1000	0.88	0.00	3.20	4.08	0.00	0.00	2.36	2.36	0.88	0.00	5.56	6.44
	1-2000	0.50	0.00	3.71	4.21	0.00	0.00	2.90	2.90	0.50	0.00	6.61	7.11
	2-3000	0.00	0.00	2.01	2.01	0.00	0.00	2.36	2.36	0.00	0.00	4.37	4.37
ff 6	0-1000	1.15	2.19	0.00	3.34	0.00	1.93	0.00	1.93	1.15	4.12	0.00	5.27
	1-2000	0.66	1.70	0.00	2.36	0.00	2.23	0.00	2.23	0.66	3.93	0.00	4.59
	2-3000	0.00	1.10	0.00	1.10	0.00	1.76	0.00	1.76	0.00	2.86	0.00	2.86
ff 7	0-1000	2.77	0.00	16.91	19.68	0.00	0.29	20.92	21.21	2.77	0.29	37.83	40.89
	1-2000	0.75	0.00	3.96	4.71	0.00	0.00	17.34	17.34	0.75	0.00	21.30	22.05
	2-3000	0.16	0.00	1.80	1.96	0.00	0.00	5.08	5.08	0.16	0.00	6.88	7.04
ff 8	0-1000	0.00	3.06	34.18	37.24	0.00	2.56	15.81	18.37	0.00	5.62	49.99	55.61
	1-2000	0.00	1.79	20.47	22.26	0.00	1.30	18.90	20.20	0.00	3.09	39.37	42.46
	2-3000	0.00	0.00	6.41	6.41	0.00	1.61	27.20	28.81	0.00	1.61	33.61	35.22
ff 9	0-1000	2.42	2.61	1.70	6.73	0.00	1.13	0.00	1.13	2.42	3.74	1.70	7.86
	1-2000	0.52	3.21	0.00	3.73	0.00	2.75	0.00	2.75	0.52	5.96	0.00	6.48
	2-3000	0.00	0.69	0.00	0.69	0.00	2.41	0.00	2.41	0.00	3.10	0.00	3.10
goff 1	0-1000	0.72	0.16	0.00	0.88	0.26	0.00	0.00	0.26	0.98	0.16	0.00	1.14
	1-2000	0.63	0.00	0.00	0.63	0.32	0.00	0.00	0.32	0.95	0.00	0.00	0.95
	2-3000	0.58	0.00	0.00	0.58	0.40	0.00	0.00	0.40	0.98	0.00	0.00	0.98
goff 10	0-1000	1.56	0.00	3.44	5.00	0.56	0.00	1.72	2.28	2.12	0.00	5.16	7.28
	1-2000	1.17	0.00	0.00	1.17	0.41	0.00	0.00	0.41	1.58	0.00	0.00	1.58
	2-3000	0.27	0.00	0.00	0.27	3.29	0.00	0.00	3.29	3.56	0.00	0.00	3.56
goff 11	0-1000	1.59	3.74	6.07	11.40	2.73	3.75	5.21	11.69	4.32	7.49	11.28	23.09
	1-2000	1.47	2.84	0.00	4.31	1.40	5.30	6.59	13.29	2.87	8.14	6.59	17.60
	2-3000	1.04	0.00	0.00	1.04	3.46	10.58	0.00	14.04	4.50	10.58	0.00	15.08
goff 12	0-1000	0.74	0.00	39.97	40.71	0.00	0.00	43.75	43.75	0.74	0.00	83.72	84.46
	1-2000	0.32	0.00	33.07	33.39	0.00	0.00	96.85	96.85	0.32	0.00	129.92	130.24
	2-3000	0.00	0.00	1.35	1.35	0.00	0.00	21.05	21.05	0.00	0.00	22.40	22.40
goff 13	0-1000	1.07	0.79	0.00	1.86	0.72	0.00	0.00	0.72	1.79	0.79	0.00	2.58
	1-2000	0.35	0.00	0.00	0.35	1.09	0.00	0.00	1.09	1.44	0.00	0.00	1.44
	2-3000	0.00	0.00	0.00	0.00	2.97	0.00	0.00	2.97	2.97	0.00	0.00	2.97
goff 14	0-1000	0.00	1.02	0.00	1.02	0.00	0.00	0.00	0.00	0.00	1.02	0.00	1.02
goff 15	0-1000	0.49	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.49
goff 17	0-1000	0.00	0.00	3.69	3.69	0.00	0.00	0.00	0.00	0.00	0.00	3.69	3.69
goff 19	0-1000	0.00	0.00	15.78	15.78	0.00	0.00	80.42	80.42	0.00	0.00	96.20	96.20
goff 2	0-1000	5.57	9.92	0.00	15.49	6.52	0.00	0.00	6.52	12.09	9.92	0.00	22.01
	1-2000	0.50	0.33	0.00	0.83	2.05	0.00	0.00	2.05	2.55	0.33	0.00	2.88
	2-3000	0.55	0.00	0.00	0.55	1.77	0.00	0.00	1.77	2.32	0.00	0.00	2.32
goff 20	0-1000	0.66	0.00	0.00	0.66	1.74	0.00	0.00	1.74	2.40	0.00	0.00	2.40

goff 21	0-1000	1.71	0.00	0.00	1.71	4.31	0.00	0.00	4.31	6.02	0.00	0.00	6.02
goff 22	0-1000	2.02	3.06	0.01	5.09	4.74	2.89	0.00	7.63	6.76	5.95	0.01	12.72
goff 3	0-1000	0.65	12.92	14.01	27.58	0.00	1.91	9.20	11.11	0.65	14.83	23.21	38.69
goff 4	0-1000	1.88	0.00	0.00	1.88	1.51	0.00	0.00	1.51	3.39	0.00	0.00	3.39
	1-2000	0.00	0.00	0.00	0.00	1.03	0.00	0.00	1.03	1.03	0.00	0.00	1.03
goff 5	0-1000	1.21	1.13	0.00	2.34	0.00	0.00	0.00	0.00	1.21	1.13	0.00	2.34
goff 6	0-1000	0.38	2.51	31.38	34.27	0.00	3.49	7.22	10.71	0.38	6.00	38.60	44.98
goff 7	0-1000	2.42	0.00	0.00	2.42	0.62	0.00	0.00	0.62	3.04	0.00	0.00	3.04
	1-2000	0.32	0.00	0.00	0.32	1.00	0.00	0.00	1.00	1.32	0.00	0.00	1.32
	2-3000	0.00	0.00	0.00	0.00	2.09	0.00	0.00	2.09	2.09	0.00	0.00	2.09
goff 8	0-1000	0.00	1.73	4.58	6.31	0.00	0.00	1.84	1.84	0.00	1.73	6.42	8.15
	1-2000	0.00	0.00	3.95	3.95	0.00	0.00	1.24	1.24	0.00	0.00	5.19	5.19
	2-3000	0.00	0.00	3.82	3.82	0.00	0.00	7.00	7.00	0.00	0.00	10.82	10.82
goff 9	0-1000	0.00	0.00	4.78	4.78	0.00	0.00	2.15	2.15	0.00	0.00	6.93	6.93
	1-2000	0.00	0.00	0.83	0.83	0.00	0.00	2.13	2.13	0.00	0.00	2.96	2.96
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	2.93	2.93	0.00	0.00	2.93	2.93
keystone	0-1000	0.00	0.00	6.21	6.21	0.00	0.00	3.22	3.22	0.00	0.00	9.43	9.43
	1-2000	0.00	0.00	6.67	6.67	0.00	0.00	12.65	12.65	0.00	0.00	19.32	19.32
	2-3000	0.00	0.00	0.00	0.00	0.00	0.00	20.46	20.46	0.00	0.00	20.46	20.46
lion canyon 1	0-1000	0.47	3.55	0.02	4.04	0.00	0.32	0.00	0.32	0.47	3.87	0.02	4.36
	1-2000	0.00	1.90	0.00	1.90	0.00	0.00	0.00	0.00	0.00	1.90	0.00	1.90
	2-3000	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04
lion canyon 10	0-1000	0.00	0.00	28.57	28.57	0.00	0.00	0.00	0.00	0.00	0.00	28.57	28.57
	1-2000	0.00	0.00	17.22	17.22	0.00	0.00	0.00	0.00	0.00	0.00	17.22	17.22
	2-3000	0.00	0.00	13.57	13.57	0.00	0.00	0.00	0.00	0.00	0.00	13.57	13.57
lion canyon 11	0-1000	2.25	0.00	0.00	2.25	0.00	0.00	0.00	0.00	2.25	0.00	0.00	2.25
	1-2000	0.19	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.19
lion canyon 12	0-1000	0.57	0.86	1.82	3.25	0.64	1.17	0.14	1.95	1.21	2.03	1.96	5.20
	1-2000	0.30	0.71	0.39	1.40	1.02	1.61	1.99	4.62	1.32	2.32	2.38	6.02
	2-3000	0.10	0.59	0.00	0.69	0.57	0.88	1.07	2.52	0.67	1.47	1.07	3.21
lion canyon 13	0-1000	0.70	1.27	0.00	1.97	0.83	1.24	0.00	2.07	1.53	2.51	0.00	4.04
	1-2000	0.19	0.27	0.00	0.46	1.17	1.45	0.00	2.62	1.36	1.72	0.00	3.08
	2-3000	0.27	0.00	0.00	0.27	0.14	0.75	0.00	0.89	0.41	0.75	0.00	1.16
lion canyon 14	0-1000	1.98	0.00	2.84	4.82	0.24	1.80	0.00	2.04	2.22	1.80	2.84	6.86
	1-2000	1.43	0.00	2.53	3.96	0.55	1.07	0.00	1.62	1.98	1.07	2.53	5.58
	2-3000	0.76	0.00	1.90	2.66	2.28	0.72	0.00	3.00	3.04	0.72	1.90	5.66
lion canyon 15	0-1000	0.00	0.79	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.79
	1-2000	0.00	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.36
lion canyon 16	0-1000	1.03	0.00	0.00	1.03	0.58	0.00	0.00	0.58	1.61	0.00	0.00	1.61
	1-2000	0.52	0.00	0.00	0.52	0.67	0.00	0.00	0.67	1.19	0.00	0.00	1.19
	2-3000	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.94	0.94	0.00	0.00	0.94
lion canyon 17													

	0-1000	0.58	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.58
	1-2000	0.27	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27
lion canyon 18	0-1000	0.60	0.00	0.00	0.60	0.31	0.00	0.00	0.31	0.91	0.00	0.00	0.91
	1-2000	0.27	0.00	0.00	0.27	0.54	0.00	0.00	0.54	0.81	0.00	0.00	0.81
	2-3000	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.74	0.74	0.00	0.00	0.74
lion canyon 19	0-1000	1.85	0.87	0.00	2.72	0.00	1.09	0.00	1.09	1.85	1.96	0.00	3.81
	1-2000	1.60	0.18	0.00	1.78	0.08	0.83	0.00	0.91	1.68	1.01	0.00	2.69
	2-3000	0.34	0.00	0.00	0.34	1.50	0.96	0.00	2.46	1.84	0.96	0.00	2.80
lion canyon 2	0-1000	0.83	0.31	8.50	9.64	0.00	0.00	6.76	6.76	0.83	0.31	15.26	16.40
	1-2000	0.65	0.00	3.38	4.03	0.00	0.00	3.61	3.61	0.65	0.00	6.99	7.64
	2-3000	0.01	0.00	2.83	2.84	0.00	0.00	4.45	4.45	0.01	0.00	7.28	7.29
lion canyon 20	0-1000	1.37	0.00	0.00	1.37	0.60	0.00	0.00	0.60	1.97	0.00	0.00	1.97
	1-2000	0.45	0.00	0.00	0.45	0.90	0.00	0.00	0.90	1.35	0.00	0.00	1.35
	2-3000	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.78	0.78	0.00	0.00	0.78
lion canyon 21	0-1000	0.00	1.93	1.48	3.41	0.00	1.60	1.51	3.11	0.00	3.53	2.99	6.52
	1-2000	0.00	1.47	0.50	1.97	0.00	1.42	1.26	2.68	0.00	2.89	1.76	4.65
	2-3000	0.00	0.35	0.13	0.48	0.00	2.03	1.44	3.47	0.00	2.38	1.57	3.95
lion canyon 22	0-1000	0.00	0.00	2.70	2.70	0.00	1.33	1.31	2.64	0.00	1.33	4.01	5.34
	1-2000	0.00	0.00	2.39	2.39	0.00	1.25	2.79	4.04	0.00	1.25	5.18	6.43
	2-3000	0.00	0.00	0.00	0.00	0.00	9.53	0.00	9.53	0.00	9.53	0.00	9.53
lion canyon 23	0-1000	1.63	0.00	0.00	1.63	1.06	0.00	0.00	1.06	2.69	0.00	0.00	2.69
	1-2000	1.88	0.00	0.00	1.88	1.11	0.00	0.00	1.11	2.99	0.00	0.00	2.99
	2-3000	0.74	0.00	0.00	0.74	3.89	0.00	0.00	3.89	4.63	0.00	0.00	4.63
lion canyon 24	0-1000	2.48	2.31	0.00	4.79	0.00	4.51	0.00	4.51	2.48	6.82	0.00	9.30
	1-2000	1.60	1.40	0.00	3.00	2.95	2.14	0.00	5.09	4.55	3.54	0.00	8.09
	2-3000	0.00	1.20	0.00	1.20	5.87	6.30	0.00	12.17	5.87	7.50	0.00	13.37
lion canyon 3	0-1000	2.97	0.51	0.00	3.48	1.15	2.40	0.00	3.55	4.12	2.91	0.00	7.03
	1-2000	1.65	0.00	0.00	1.65	0.66	0.00	0.00	0.66	2.31	0.00	0.00	2.31
	2-3000	0.11	0.00	0.00	0.11	1.18	0.00	0.00	1.18	1.29	0.00	0.00	1.29
lion canyon 4	0-1000	0.00	0.00	7.23	7.23	0.00	0.00	6.88	6.88	0.00	0.00	14.11	14.11
	1-2000	0.00	0.00	1.98	1.98	0.00	0.00	2.90	2.90	0.00	0.00	4.88	4.88
	2-3000	0.00	0.00	1.78	1.78	0.00	0.00	2.95	2.95	0.00	0.00	4.73	4.73
lion canyon 5	0-1000	1.42	2.86	9.62	13.90	3.64	0.00	5.91	9.55	5.06	2.86	15.53	23.45
	1-2000	0.34	1.65	5.43	7.42	3.15	0.00	3.58	6.73	3.49	1.65	9.01	14.15
	2-3000	0.00	1.22	4.12	5.34	2.34	0.00	3.76	6.10	2.34	1.22	7.88	11.44
lion canyon 6	0-1000	7.23	0.05	0.00	7.28	1.69	1.30	0.00	2.99	8.92	1.35	0.00	10.27
	1-2000	3.17	0.02	0.00	3.19	2.71	0.29	0.00	3.00	5.88	0.31	0.00	6.19
	2-3000	0.73	0.00	0.00	0.73	3.57	0.89	0.00	4.46	4.30	0.89	0.00	5.19
lion canyon 7	0-1000	1.10	0.00	0.00	1.10	0.00	0.00	0.00	0.00	1.10	0.00	0.00	1.10
	1-2000	0.07	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07
lion canyon 8	0-1000	3.34	0.00	3.60	6.94	0.55	1.87	1.71	4.13	3.89	1.87	5.31	11.07
	1-2000	1.65	0.00	2.00	3.65	0.26	1.38	1.35	2.99	1.91	1.38	3.35	6.64
	2-3000	1.83	0.00	1.15	2.98	0.79	2.29	2.09	5.17	2.62	2.29	3.24	8.15
lion canyon 9	0-1000	0.00	3.08	4.40	7.48	0.00	1.75	2.21	3.96	0.00	4.83	6.61	11.44
	1-2000	0.00	1.50	2.40	3.90	0.00	1.03	1.78	2.81	0.00	2.53	4.18	6.71

lion canyon a	2-3000	0.00	0.79	2.17	2.96	0.00	1.05	1.59	2.64	0.00	1.84	3.76	5.60
	0-1000	0.90	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.90
	1-2000	0.12	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12
lion canyon b	0-1000	0.00	0.00	3.46	3.46	0.00	0.00	0.00	0.00	0.00	0.00	3.46	3.46
	1-2000	0.00	0.00	0.53	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.53
lion canyon c	0-1000	0.39	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.39
	1-2000	0.60	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.60
	2-3000	0.27	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27
lion canyon d	0-1000	0.00	0.00	1.44	1.44	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44
	1-2000	0.00	0.00	1.28	1.28	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28
	2-3000	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.40
louthiruf	0-1000	0.00	0.00	3.97	3.97	0.00	0.00	0.00	0.00	0.00	0.00	3.97	3.97
	1-2000	0.00	0.00	20.61	20.61	0.00	0.00	0.00	0.00	0.00	0.00	20.61	20.61
	2-3000	0.00	0.00	22.62	22.62	0.00	0.00	0.00	0.00	0.00	0.00	22.62	22.62
topwf	0-1000	0.00	0.00	181.21	181.21	0.00	0.00	0.00	0.00	0.00	0.00	181.21	181.21
	1-2000	0.00	0.00	47.27	47.27	0.00	0.00	0.00	0.00	0.00	0.00	47.27	47.27
	2-3000	0.00	0.00	23.04	23.04	0.00	0.00	0.00	0.00	0.00	0.00	23.04	23.04
county total =		170.51	185.62	1429.54	1785.67	184.39	248.23	1257.03	1689.65	354.90	433.85	2686.57	3475.32
		roust						county					
bit													
a	0-1000	0.00	0.00	4.25	4.25	0.00	0.00	0.00	0.00	0.00	0.00	4.25	4.25
b	0-1000	1.23	0.00	1.60	2.83	0.00	0.00	0.00	0.00	1.23	0.00	1.60	2.83
bear river	0-1000	0.00	0.00	76.38	76.38	0.00	0.00	0.00	0.00	0.00	0.00	76.38	76.38
	1-2000	0.00	0.00	37.48	37.48	0.00	0.00	0.00	0.00	0.00	0.00	37.48	37.48
below d	1-2000	0.00	0.00	2.42	2.42	0.00	0.00	0.00	0.00	0.00	0.00	2.42	2.42
brooks	0-1000	0.00	0.94	55.39	56.33	0.00	0.00	0.00	0.00	0.00	0.94	55.39	56.33
	1-2000	0.00	0.00	45.57	45.57	0.00	0.00	0.00	0.00	0.00	0.00	45.57	45.57
c	0-1000	0.75	0.00	14.65	15.40	0.00	0.00	0.00	0.00	0.75	0.00	14.65	15.40
	1-2000	0.00	1.38	12.05	13.43	0.00	0.00	0.00	0.00	0.00	1.38	12.05	13.43
d	0-1000	0.00	0.83	18.17	19.00	0.00	0.00	0.00	0.00	0.00	0.83	18.17	19.00
	1-2000	0.00	0.00	9.14	9.14	0.00	0.00	0.00	0.00	0.00	0.00	9.14	9.14
e	0-1000	0.00	0.00	2.74	2.74	0.00	0.00	0.00	0.00	0.00	0.00	2.74	2.74
f zone	0-1000	17.16	29.40	215.58	262.14	0.00	0.74	4.68	5.42	17.16	30.14	220.26	267.56
	1-2000	20.96	36.29	176.13	233.38	0.00	12.13	301.14	313.27	20.96	48.42	477.27	546.83
h zone	0-1000	21.74	0.00	148.72	170.46	0.00	0.00	0.00	0.00	21.74	0.00	148.72	170.46
	1-2000	0.00	0.00	100.30	100.30	0.00	0.00	0.00	0.00	0.00	0.00	100.30	100.30
j	0-1000	0.00	0.00	71.05	71.05	0.00	0.00	0.00	0.00	0.00	0.00	71.05	71.05
lennox	0-1000	8.47	50.68	41.09	100.24	0.00	30.98	75.60	106.58	8.47	81.66	116.69	206.82
	1-2000	12.62	20.53	34.08	67.23	0.00	12.34	93.42	105.76	12.62	32.87	127.50	172.99

2-3000	0.00	5.64	0.00	5.64	0.00	0.00	0.00	0.00	0.00	0.00	5.64	0.00	5.64
low group a bed													
0-1000	0.00	0.00	12.95	12.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.95	12.95
1-2000	0.00	0.00	4.48	4.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.48	4.48
low group b bed													
0-1000	0.00	0.00	6.72	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.72	6.72
1-2000	0.00	0.00	3.20	3.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.20	3.20
low group c bed													
0-1000	0.00	0.00	16.63	16.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.63	16.63
1-2000	0.00	0.00	8.50	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50	8.50
low group d bed													
0-1000	0.00	0.00	12.52	12.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.52	12.52
1-2000	0.00	0.00	7.88	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.88	7.88
lower group													
0-1000	0.00	0.37	8.06	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.37	8.06	8.43
mid group f zone													
0-1000	0.00	1.99	0.16	2.15	0.00	0.00	4.78	4.78	0.00	1.99	4.94	6.93	
1-2000	0.00	7.12	0.00	7.12	0.00	0.00	0.30	0.30	0.00	7.12	0.30	7.42	
mid group g zone													
0-1000	0.00	0.00	48.34	48.34	0.00	0.00	13.45	13.45	0.00	0.00	61.79	61.79	
mid group h zone													
0-1000	0.00	0.00	21.92	21.92	0.00	0.00	0.00	0.00	0.00	0.00	21.92	21.92	
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.58	0.00	0.00	0.58	0.58	
no 1 bed													
0-1000	0.00	5.70	139.04	144.74	0.00	0.00	0.00	0.00	0.00	5.70	139.04	144.74	
1-2000	0.00	0.00	84.60	84.60	0.00	0.00	0.00	0.00	0.00	0.00	84.60	84.60	
no 2 bed													
0-1000	0.00	11.90	166.66	178.56	0.00	0.00	0.00	0.00	0.00	11.90	166.66	178.56	
1-2000	0.00	18.73	68.12	86.85	0.00	0.00	0.00	0.00	0.00	18.73	68.12	86.85	
2-3000	0.00	4.57	0.00	4.57	0.00	0.00	0.00	0.00	0.00	4.57	0.00	4.57	
no 3 bed													
0-1000	0.00	0.00	159.61	159.61	0.00	0.00	0.00	0.00	0.00	0.00	159.61	159.61	
1-2000	0.00	0.00	141.41	141.41	0.00	0.00	0.00	0.00	0.00	0.00	141.41	141.41	
2-3000	0.00	0.00	14.38	14.38	0.00	0.00	0.00	0.00	0.00	0.00	14.38	14.38	
uncorrelated													
0-1000	6.42	96.24	587.42	690.08	0.00	0.00	0.00	0.00	6.42	96.24	587.42	690.08	
1-2000	1.53	62.98	348.20	412.71	0.00	0.00	0.00	0.00	1.53	62.98	348.20	412.71	
2-3000	0.00	6.59	0.00	6.59	0.00	0.00	0.00	0.00	0.00	6.59	0.00	6.59	
wadge													
0-1000	0.00	8.10	584.87	592.97	0.00	0.00	166.66	166.66	0.00	8.10	751.53	759.63	
1-2000	0.00	7.36	236.80	244.16	0.00	0.00	216.49	216.49	0.00	7.36	453.29	460.65	
2-3000	0.00	0.00	16.84	16.84	0.00	0.00	32.65	32.65	0.00	0.00	49.49	49.49	
wolf creek													
0-1000	0.00	0.00	531.04	531.04	0.00	0.00	331.00	331.00	0.00	0.00	862.04	862.04	
1-2000	0.00	0.00	335.91	335.91	0.00	0.00	503.84	503.84	0.00	0.00	839.75	839.75	
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	80.43	80.43	0.00	0.00	80.43	80.43	
county total =	90.88	377.34	4633.05	5101.27	0.00	56.19	1825.02	1881.21	90.88	433.53	6458.07	6982.48	
overburden													
subtotal													
0-1000	999.71	1473.51	8231.55	10704.76	1329.82	1689.45	4519.11	7538.37	2329.53	3162.96	12750.65	18243.14	
1-2000	170.96	355.95	3224.93	3751.84	358.93	548.14	4023.66	4930.73	529.89	904.09	7248.59	8682.57	
2-3000	26.02	73.98	563.37	663.37	190.40	217.33	1740.64	2148.37	216.42	291.31	2304.01	2811.74	
0-3000	0.00	0.00	0.00	0.00	15.19	54.45	350.17	419.81	15.19	54.45	350.17	419.81	
total =	1196.69	1903.44	12019.85	15119.98	1894.34	2509.37	10633.58	15037.29	3091.03	4412.81	22653.43	30157.27	

=====												
overburden												
total												
0-1000	999.71	1473.51	8231.55	10704.76	1329.82	1689.45	4519.11	7538.37	2329.53	3162.96	12750.65	18243.14
1-2000	170.96	355.95	3224.93	3751.84	358.93	548.14	4023.66	4930.73	529.89	904.09	7248.59	8682.57
2-3000	26.02	73.98	563.37	663.37	190.40	217.33	1740.64	2148.37	216.42	291.31	2304.01	2811.74
0-3000	0.00	0.00	0.00	0.00	15.19	54.45	350.17	419.81	15.19	54.45	350.17	419.81

grand total =	1196.69	1903.44	12019.85	15119.98	1894.34	2509.37	10633.58	15037.29	3091.03	4412.81	22653.43	30157.27
=====												

tonnage not included: 33101.52
because:
thickness = unclassified : 92.00
thickness = classified by zone: 33009.52
reliability = unclassified : 12619.78

total tonnage of identified coal resources in colorado 63258.79

resource figures taken from:

source	year	base year of resource
usgs of-colorado	1971	original
usgs map om138	1953	original
usgs bull 1072c	1959	original
usgs bull 1051	1957	original
usgs bull 1072g	1959	original
usgs coal map c26	1956	original
usgs coal map c20	1954	original
usgs bull 1042o	1958	original
usgs map om109	1949	original
usgs map om149	1954	original
usgs coal map c4	1951	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
colo	archuleta	uncorrelated	bit	orig	class by zone	0-3000	unclass	63.84
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	22.49
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	1.79
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	16.42
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	16.87
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	15.12
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	17.57
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	16.60
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	16.58
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	25.06
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	64.01
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	38.30
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	231.98
colo	la plata	uncorrelated	bit	orig	class by zone	1-2000	inferred	73.62

colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	543.15
colo	la plata	uncorrelated	bit	orig	class by zone	2-3000	inferred	430.43
colo	la plata	uncorrelated	bit	orig	class by zone	0-3000	unclass	3292.57
colo	las animas	uncorrelated	bit	orig	class by zone	0-3000	unclass	7988.36
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	342.52
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	796.05
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	27.95
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	149.40
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	68.54
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	942.26
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	1295.85
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	97.55
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	69.12
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	18.00
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	55.03
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	174.98
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	346.19
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	254.64
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	563.35
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	808.92
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	10.78
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	570.34
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	1842.02
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	2222.52
colo	moffat	uncorrelated	bit	orig	class by zone	unclass	inferred	1429.54
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	11.81
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	262.44
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	6.16
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	18.63
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	138.24
colo	moffat	uncorrelated	bit	orig	class by zone	0-3000	inferred	128.99
colo	montezuma	uncorrelated	bit	orig	class by zone	0-3000	unclass	1028.20
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	110.08
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	78.13
colo	rio blanco	uncorrelated	bit	orig	unclass	unclass	inferred	92.00
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	4.56
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	4.56
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	13.83
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	41.48
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	69.20
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	9.20
colo	rio blanco	uncorrelated	bit	orig	class by zone	unclass	inferred	12.31
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	20.70
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	331.74
colo	rio blanco	nde	bit	orig	class by zone	0-3000	inferred	351.35
colo	rio blanco	nde	bit	orig	class by zone	0-3000	inferred	442.49
colo	rio blanco	nde	bit	orig	class by zone	0-3000	inferred	237.79
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	1.44
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	113.26
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	12.31
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	151.44
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	102.87
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	330.71
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	135.59
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	161.68
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	49.73
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	25.86
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	62.19
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	152.01
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	197.10

colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	207.36
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	96.75
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	190.08
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	207.36
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	31.05
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	10.35
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	179.64
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	196.92
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	207.36
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	207.36
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	41.40
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	44.91
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	158.94
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	172.80
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	183.15
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	79.47
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	33.97
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	419.73
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	inferred	120.96
colo	rio blanco	uncorrelated	bit	orig	class by zone	0-3000	unclass	246.81
colo	routt	uncorrelated	bit	orig	class by zone	unclass	inferred	13.83
colo	routt	uncorrelated	bit	orig	class by zone	unclass	inferred	13.83
colo	routt	uncorrelated	bit	orig	class by zone	unclass	inferred	64.30
colo	routt	uncorrelated	bit	orig	class by zone	unclass	inferred	6.60
colo	routt	uncorrelated	bit	orig	class by zone	unclass	inferred	98.20

average analyses of coal in colorado

proximate analysis (percent)														ultimate analysis (percent)					sulfur (percent)	btu	ash of temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen													
archuleta														county								
bit	uncorrelated	3.7	38.1	48.2	13.7	5.1	69.9	1.4	8.9	0.7	12848	2781	15									
	county average	3.7	38.1	48.2	13.7	5.1	69.9	1.4	8.9	0.7	12848	2781	15									
delta														county								
bit	b	3.9	41.9	53.5	4.6	0.0	0.0	0.0	0.0	0.4	13940		1									
	b&c-grand msa&somrst	6.6	39.6	51.9	8.5	5.2	74.4	1.6	9.8	0.5	13330	2560	1									
	c	8.1	41.9	53.6	4.5	0.0	0.0	0.0	0.0	0.6	13540	2633	6									
	uncorrelated	4.9	41.0	53.0	5.2	5.6	70.0	1.6	9.9	0.6	13800	2708	39									
	county average	5.4	41.1	53.7	5.2	5.4	76.2	1.6	9.8	0.6	13760	2693	47									
fremont														county								
bit	chandler	6.4	41.0	46.6	12.5	0.0	0.0	0.0	0.0	1.5	12276	2456	3									
	magnet	7.8	41.1	50.5	8.4	0.0	0.0	0.0	0.0	1.2	12830	2210	3									
	nonac	7.1	40.0	53.1	6.9	0.0	0.0	0.0	0.0	0.7	13050		2									
	radiant	8.3	40.2	50.1	9.7	0.0	0.0	0.0	0.0	1.3	12650	2050	1									
	county average	7.2	40.7	49.7	9.6	0.0	0.0	0.0	0.0	1.2	12674	2292	9									
garfield														county								
bit	allen	5.0	41.7	50.1	8.2	5.3	75.8	1.8	10.6	0.7	13080	2206	6									
	anderson	4.0	39.7	55.2	5.1	5.4	77.9	1.8	10.7	0.5	13803	2270	3									
	uncorrelated	6.5	40.4	51.6	8.0	5.3	73.5	1.7	11.3	1.0	13089	2529	62									
	wheeler	5.1	41.3	49.9	8.8	5.2	75.0	1.6	10.8	0.6	12918	2548	10									
	county average	6.1	40.6	51.4	8.0	5.3	74.6	1.7	11.0	0.9	13093	2496	81									
gunnison														county								
bit	b	5.2	39.8	51.1	9.1	0.0	0.0	0.0	0.0	0.5	13178	2472	19									
	c	5.7	40.5	53.3	6.2	5.3	75.7	1.8	9.9	0.5	13568	2587	55									
	d	6.0	40.5	52.7	6.9	0.0	0.0	0.0	0.0	0.5	13414	2583	23									
	e	6.0	41.0	54.5	4.5	5.4	78.2	1.8	10.3	0.5	13855	2290	48									
	uncorrelated	3.4	27.9	65.3	6.8	5.3	77.8	1.8	8.4	0.5	13793	2384	34									

various	5.9	39.3	50.6	10.1	0.0	0.0	0.0	0.0	0.5	12976	2410	3
county average	5.4	38.2	55.5	6.3	5.3	77.9	1.8	10.0	0.5	13616	2453	182
<hr/>												
huerfano county												
bit												
cameron	5.6	39.1	49.5	11.4	5.1	73.1	1.4	11.5	0.9	12592	2415	64
dirty robinson	5.4	38.5	50.2	11.3	5.0	73.3	1.3	10.1	0.6	12550	2550	49
lower robinson	4.9	37.8	48.4	13.8	4.9	71.0	1.3	10.8	0.6	12272	2610	7
uncorrelated	5.0	38.8	51.2	10.0	5.1	77.9	1.6	9.5	0.7	12833	2431	23
upper rugby	3.4	40.2	49.2	10.5	0.0	0.0	0.0	0.0	0.8	13082	2522	15
various	5.9	39.8	47.0	13.3	0.0	0.0	0.0	0.0	0.6	12090	2480	3
walsen	6.9	38.9	49.0	12.0	5.2	73.7	1.2	11.8	0.6	12315	2443	12
county average	5.3	38.9	49.8	11.3	5.0	73.3	1.4	10.7	0.7	12614	2478	173
<hr/>												
la plata county												
bit												
uncorrelated	3.7	39.7	52.9	7.4	5.5	77.9	1.6	8.0	1.6	13732	2564	183
county average	3.7	39.7	52.9	7.4	5.5	77.9	1.6	8.0	1.6	13732	2564	183
<hr/>												
las animas county												
bit												
allen	4.1	34.4	44.3	21.3	5.1	65.8	1.4	5.9	0.5	11742		7
bear canyon no 6	1.9	35.2	54.2	10.6	5.1	77.7	1.5	6.7	0.6	13451	2614	33
cameron	1.7	35.6	52.8	11.6	0.0	0.0	0.0	0.0	0.7	13237	2806	10
cass	2.4	36.2	47.8	15.9	0.0	0.0	0.0	0.0	0.7	12414	2596	5
delagua no 1	3.1	37.2	52.4	10.4	4.9	73.7	1.5	9.0	0.5	13120	2500	1
empire	3.4	32.2	56.1	11.7	4.9	74.7	1.5	7.4	0.7	13217	2910	4
frederick	1.9	30.1	53.2	16.7	4.9	72.7	1.6	5.2	0.5	12706	2618	5
hastings	2.0	34.4	48.7	16.9	0.0	0.0	0.0	0.0	0.7	12585	2875	2
lower ludlow	1.7	32.1	52.3	15.6	4.6	66.9	1.2	6.7	0.7	12724	2908	26
lower robinson	2.8	37.2	52.2	10.6	0.0	0.0	0.0	0.0	0.7	13153	2903	3
lower starkville	1.9	30.1	51.5	18.5	4.7	70.9	1.3	5.3	0.7	12437	2910	11
majestic	1.9	31.2	49.7	19.2	4.7	70.8	1.2	6.3	0.6	12164	2864	16
morley	1.8	31.6	53.2	15.2	4.8	70.0	1.3	5.8	0.7	12895	2890	8
primero	2.5	32.8	52.1	15.1	4.8	73.5	1.5	6.8	0.6	12668	2560	26
rapson	2.3	35.9	50.9	13.2	0.0	0.0	0.0	0.0	0.6	12825	2842	22
uncorrelated	2.5	34.5	52.6	12.8	4.9	74.1	1.4	6.6	0.6	13005	2722	59
upper & lower ludlow	1.7	34.1	48.7	17.2	4.9	70.0	1.2	6.7	0.7	12442	2903	9
upper ludlow	2.1	33.9	46.9	19.2	4.8	67.4	1.2	6.7	0.7	12180	2910	1
walsen	2.5	35.8	51.0	13.2	4.9	73.4	1.4	8.0	0.6	12840	2885	33
county average	2.2	34.0	51.8	14.2	4.9	71.1	1.4	6.6	0.6	12835	2786	281
<hr/>												
mesa county												
bit												
cameo	7.7	38.4	50.9	10.6	4.9	70.7	1.5	10.9	0.7	12701	2833	92
palisade	7.8	39.6	51.1	9.3	5.2	72.9	1.8	9.8	0.8	12992	2567	64
uncorrelated	8.7	40.0	52.2	7.8	5.2	73.3	1.8	10.0	1.0	13232	2379	14

county average	7.8	39.0	51.1	9.9	5.1	73.3	1.8	10.0	0.8	12854	2690	170
montezuma county												
bit												
uncorrelated	5.8	36.3	54.9	8.7	5.2	78.0	1.4	9.1	0.7	13431	2884	11
county average	5.8	36.3	54.9	8.7	5.2	78.0	1.4	9.1	0.7	13431	2884	11
montrose county												
bit												
uncorrelated	5.0	33.6	56.3	10.1	0.0	0.0	0.0	0.0	0.7	13181	2910	11
county average	5.0	33.6	56.3	10.1	0.0	0.0	0.0	0.0	0.7	13181	2910	11
pitkin county												
bit												
a&b-anderson-carbondale	4.8	30.3	56.8	12.9	5.0	74.6	1.8	4.8	0.9	13330	2620	1
a&b-carbondale	3.1	29.5	58.2	12.3	0.0	0.0	0.0	0.0	1.1	13640	2470	1
a-carbondale field	3.5	30.3	55.6	14.1	4.9	72.8	1.9	5.1	1.2	13300	2870	1
allen	3.3	38.1	53.6	8.3	5.2	76.3	1.8	6.2	0.5	13466	2703	3
anderson	3.0	33.7	58.5	7.9	5.1	79.0	1.7	5.4	0.7	14165	2430	2
b (carbondale field)	2.6	30.8	60.3	8.9	5.2	76.5	2.0	6.4	1.0	14110	2500	1
uncorrelated	4.6	23.0	68.1	9.0	4.8	81.0	1.9	2.4	0.7	14355	2296	4
county average	3.7	30.4	60.1	9.6	5.0	77.8	1.9	4.6	0.7	13886	2526	13
routt county												
bit												
pinnacle	7.1	40.6	51.6	7.8	0.0	0.0	0.0	0.0	0.6	12920	2588	33
uncorrelated	7.2	41.3	50.4	8.4	5.1	75.1	1.9	11.5	1.2	12863	2305	36
wadge	6.8	39.5	52.7	7.8	0.0	0.0	0.0	0.0	0.5	12862		4
county average	7.2	40.9	51.0	8.1	5.1	75.1	1.9	11.5	0.9	12888	2434	73
san miguel county												
bit												
uncorrelated	2.8	36.1	55.7	8.2	0.0	0.0	0.0	0.0	1.5	13790	2520	1
county average	2.8	36.1	55.7	8.2	0.0	0.0	0.0	0.0	1.5	13790	2520	1

Colorado

state	county	bed	moistur	volmat	fixedc	ash	sul fur	btu	hgilo	fsilo
colorado	archuleta	uncorrelated	6.4	40.0	46.2	13.8	0.7	12500	0	4.0
colorado	archuleta	uncorrelated	4.8	39.7	47.9	12.4	0.6	12900	0	4.0
colorado	delta	uncorrelated	6.0	41.8	51.8	4.4	0.5	13730	57	1.0
colorado	delta	uncorrelated	6.4	40.3	54.7	5.0	0.5	13680	55	1.5
colorado	delta	uncorrelated	6.9	40.7	54.5	4.8	0.5	13620	56	1.0
colorado	delta	uncorrelated	6.8	40.6	54.2	5.2	0.6	13690	0	1.0
colorado	delta	c	8.8	41.7	53.7	4.6	0.6	13610	52	1.5
colorado	delta	c	7.9	41.9	54.6	3.5	0.6	13680	52	1.0
colorado	delta	c	7.4	41.3	53.4	5.3	0.6	13360	50	1.5
colorado	delta	uncorrelated	4.5	41.8	53.3	4.9	0.6	14030	0	4.5
colorado	delta	uncorrelated	4.8	41.5	53.1	5.4	0.5	13880	51	3.5
colorado	delta	uncorrelated	5.3	41.2	53.5	5.3	0.6	13860	46	5.0
colorado	delta	uncorrelated	4.6	41.1	52.7	6.2	0.6	13710	48	4.5
colorado	delta	uncorrelated	5.1	40.8	52.1	7.1	0.6	13580	48	3.0
colorado	delta	uncorrelated	4.9	40.7	53.3	6.0	0.6	13680	46	3.5

continued.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
colorado	delta	b&c-grand msa&sonmrst	6.6	39.6	51.9	8.5	0.5	13330	0	4.0
colorado	garfield	uncorrelated	5.1	41.8	53.7	4.5	0.6	13660	49	1.5
colorado	garfield	uncorrelated	4.9	38.3	45.4	16.3	2.5	11870	46	1.0
colorado	garfield	uncorrelated	5.2	38.6	49.3	12.1	2.0	12490	0	1.5
colorado	garfield	uncorrelated	4.0	40.0	51.4	8.6	0.7	13260	45	1.5
colorado	garfield	uncorrelated	4.4	38.3	50.9	10.8	1.0	12760	0	1.0
colorado	garfield	anderson	4.2	38.9	54.6	6.5	0.6	13540	0	2.5
colorado	garfield	wheeler	4.6	41.0	49.7	9.3	0.6	12790	52	3.0
colorado	garfield	wheeler	5.3	41.0	49.8	9.2	0.7	12810	0	2.0
colorado	garfield	allen	6.2	41.1	50.0	8.9	0.7	12960	0	1.0
colorado	garfield	allen	4.3	41.3	50.8	7.9	0.7	13000	0	1.0
colorado	garfield	uncorrelated	9.4	39.9	50.9	9.2	1.0	12910	51	1.5
colorado	garfield	uncorrelated	7.5	41.8	53.1	5.1	0.8	13460	0	1.0
colorado	garfield	uncorrelated	5.1	41.6	49.4	9.0	0.4	12850	0	1.5
colorado	gunnison	c	5.8	40.0	54.3	5.7	0.5	13720	49	2.5
colorado	gunnison	c	6.1	41.5	53.4	5.1	0.5	13790	54	1.0
colorado	gunnison	c	5.4	40.2	52.9	6.9	0.5	13470	0	2.5
colorado	gunnison	c	5.7	41.5	52.1	6.4	0.5	13540	0	2.5
colorado	gunnison	c	5.9	40.0	51.9	8.1	0.5	13260	0	3.0
colorado	gunnison	c	6.0	40.6	53.9	5.5	0.5	13690	51	2.0
colorado	gunnison	c	6.3	40.0	53.3	6.7	0.6	13530	51	2.5
colorado	gunnison	c	7.3	39.9	52.6	7.5	0.6	13240	51	2.5
colorado	gunnison	e	6.3	41.0	53.9	5.1	0.7	13690	0	1.5
colorado	gunnison	e	6.7	40.0	53.4	6.6	0.7	13430	0	1.0
colorado	gunnison	e	6.2	40.2	56.3	3.5	0.4	13910	51	2.0
colorado	gunnison	e	6.7	40.8	54.2	5.0	0.7	13700	53	2.0
colorado	gunnison	b	5.1	40.1	52.7	7.2	0.5	13480	46	2.5
colorado	gunnison	c	6.6	40.0	54.7	5.3	0.4	13680	55	3.0
colorado	gunnison	c	6.1	40.5	54.5	5.0	0.4	13760	49	1.5
colorado	gunnison	c	7.1	40.4	52.8	6.8	0.5	13480	52	2.5
colorado	gunnison	e	5.0	42.0	54.5	3.5	0.5	14100	0	3.0
colorado	gunnison	e	6.3	40.5	55.2	4.3	0.5	13900	56	3.0
colorado	gunnison	e	6.4	41.6	54.7	3.7	0.5	13970	53	1.5
colorado	gunnison	e	6.8	40.9	54.7	4.4	0.5	13880	54	2.5
colorado	gunnison	e	6.9	40.9	54.8	4.3	0.6	13910	0	4.0
colorado	gunnison	e	7.1	39.7	52.6	7.7	0.6	13350	0	3.0
colorado	gunnison	d	8.1	40.1	53.7	6.2	0.5	13440	55	2.0
colorado	gunnison	d	7.5	40.8	52.7	6.5	0.5	13460	49	1.5
colorado	gunnison	e	6.9	40.4	54.4	5.2	0.6	13630	50	1.5
colorado	gunnison	b	5.7	39.5	51.6	8.9	0.4	13220	46	2.0
colorado	gunnison	b	8.2	39.5	50.8	9.7	0.5	13150	44	2.5
colorado	gunnison	c	6.4	39.4	55.2	5.4	0.7	13710	55	3.5
colorado	huerfano	dirty robinson	3.4	37.2	48.3	14.5	0.6	12510	48	2.0
colorado	huerfano	cameron	7.2	41.8	47.7	10.5	11.8	12640	44	1.5
colorado	huerfano	uncorrelated	5.6	39.2	47.1	13.7	0.8	12400	46	1.0
colorado	huerfano	upper rugby	4.2	40.6	50.0	9.4	0.7	13210	48	4.0
colorado	huerfano	upper rugby	3.3	39.8	51.6	8.6	0.7	13230	46	2.0
colorado	huerfano	uncorrelated	3.6	36.9	57.6	5.5	0.4	13790	45	1.0
colorado	huerfano	uncorrelated	4.0	35.4	56.2	8.4	0.6	13400	50	1.0
colorado	huerfano	dirty robinson	6.1	37.1	47.2	15.7	0.5	11780	44	1.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
colorado	huerfano	upper rugby	3.4	40.9	48.0	11.1	0.7	13010	0	3.0
colorado	huerfano	upper rugby	2.9	40.4	47.6	12.0	0.8	12820	49	3.5
colorado	huerfano	upper rugby	3.6	39.3	48.8	11.9	1.0	12880	0	4.0
colorado	huerfano	upper rugby	3.8	39.8	47.1	13.1	1.0	12680	0	4.0
colorado	la plata	uncorrelated	4.0	40.8	54.6	4.6	0.8	14120	48	4.5
colorado	la plata	uncorrelated	3.3	41.2	52.4	6.4	0.8	13850	49	6.0
colorado	la plata	uncorrelated	3.7	39.2	50.0	10.8	0.8	13130	47	4.5
colorado	la plata	uncorrelated	5.0	40.4	54.4	5.2	1.1	13950	50	4.5
colorado	la plata	uncorrelated	2.7	39.6	55.1	5.3	0.7	13930	49	5.5
colorado	la plata	uncorrelated	3.6	39.6	53.8	6.6	0.6	13860	49	4.5
colorado	la plata	uncorrelated	4.3	39.4	53.7	6.9	0.7	13750	52	4.5
colorado	la plata	uncorrelated	4.7	39.3	54.7	6.0	0.6	13940	51	5.0
colorado	la plata	uncorrelated	1.8	38.7	54.2	7.1	1.1	14100	0	6.5
colorado	la plata	uncorrelated	4.0	40.1	53.9	6.0	0.9	13940	47	4.5
colorado	la plata	uncorrelated	4.2	40.6	52.1	7.3	1.8	13690	49	4.5
colorado	la plata	uncorrelated	3.6	40.0	51.8	8.2	2.6	13460	51	5.0
colorado	la plata	uncorrelated	4.5	40.2	52.0	7.8	0.8	13570	50	4.5
colorado	la plata	uncorrelated	3.7	40.9	54.0	5.1	0.8	14020	48	5.0
colorado	la plata	uncorrelated	6.5	38.9	50.4	10.7	0.9	12840	53	1.5
colorado	la plata	uncorrelated	6.5	37.1	46.3	16.6	0.6	12040	53	2.0
colorado	la plata	uncorrelated	5.3	40.4	54.1	5.5	0.9	13780	0	2.0
colorado	la plata	uncorrelated	6.1	39.8	47.7	12.5	0.7	12620	49	3.0
colorado	la plata	uncorrelated	2.0	40.0	54.5	5.5	1.1	14320	52	7.0
colorado	la plata	uncorrelated	2.1	39.6	53.1	7.3	1.8	14010	51	5.5
colorado	la plata	uncorrelated	2.7	38.1	53.8	8.1	1.5	13820	52	6.5
colorado	la plata	uncorrelated	4.8	40.9	52.3	6.8	1.7	13680	46	3.0
colorado	la plata	uncorrelated	3.6	40.5	51.1	8.4	2.7	13450	46	5.0
colorado	la plata	uncorrelated	4.5	38.4	54.6	7.0	0.6	13760	52	5.0
colorado	la plata	uncorrelated	2.8	39.3	55.4	5.3	0.7	14220	0	6.5
colorado	la plata	uncorrelated	3.1	38.9	55.4	5.7	0.9	14220	51	5.5
colorado	la plata	uncorrelated	3.8	40.9	51.1	8.0	2.9	13580	51	5.5
colorado	la plata	uncorrelated	4.9	40.2	53.0	6.8	2.6	13720	54	5.0
colorado	la plata	uncorrelated	3.5	41.6	51.1	7.3	2.5	13650	47	5.0
colorado	la plata	uncorrelated	3.3	40.7	50.4	8.9	2.9	13360	50	4.5
colorado	la plata	uncorrelated	2.4	38.4	52.3	9.3	1.1	13800	47	6.0
colorado	la plata	uncorrelated	2.6	38.4	55.0	6.6	0.8	14170	0	6.0
colorado	la plata	uncorrelated	2.7	40.1	55.9	4.0	0.9	14550	47	7.0
colorado	la plata	uncorrelated	3.4	37.9	55.9	6.2	0.7	14190	50	6.0
colorado	la plata	uncorrelated	2.9	39.0	55.2	5.8	1.0	14350	0	7.0
colorado	la plata	uncorrelated	3.0	39.1	53.6	7.3	1.2	14110	49	6.5
colorado	la plata	uncorrelated	2.2	40.7	54.3	5.0	0.6	14430	0	5.5
colorado	la plata	uncorrelated	3.1	40.3	48.6	11.1	3.7	13060	51	4.5
colorado	la plata	uncorrelated	3.4	39.8	48.7	11.5	4.9	12900	51	5.0
colorado	la plata	uncorrelated	3.7	38.9	48.7	12.4	3.9	12750	49	5.5
colorado	la plata	uncorrelated	3.2	39.1	50.6	10.3	3.8	13250	48	4.5
colorado	las animas	empire	4.5	30.4	56.3	13.3	0.7	12880	49	1.0
colorado	las animas	empire	3.3	32.4	54.5	13.1	0.7	13030	51	2.0
colorado	las animas	allen	4.4	33.5	43.4	23.1	0.5	11470	0	7.5
colorado	las animas	allen	4.2	34.9	46.0	19.1	0.5	12190	0	7.5
colorado	las animas	allen	1.0	38.8	50.1	11.1	0.5	13300	0	6.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
colorado	las animas	allen	4.1	33.6	43.3	23.1	0.5	11480	0	7.0
colorado	las animas	allen	4.6	34.0	43.5	22.5	0.4	11580	0	7.0
colorado	las animas	allen	4.4	33.4	42.5	24.1	0.5	11240	0	6.5
colorado	las animas	primero	2.6	33.7	52.1	14.2	0.7	12870	59	6.5
colorado	las animas	uncorrelated	3.6	31.5	53.0	15.5	0.6	12400	55	1.0
colorado	las animas	majestic	2.3	30.4	47.7	21.9	0.5	11730	50	3.5
colorado	las animas	majestic	1.8	32.0	49.1	18.9	0.6	12140	0	5.0
colorado	las animas	majestic	2.1	30.8	48.9	20.3	0.6	11950	48	2.5
colorado	las animas	majestic	2.2	30.7	49.7	19.6	0.5	12010	0	2.0
colorado	las animas	majestic	2.1	31.4	49.2	19.4	0.7	12150	52	2.0
colorado	las animas	lower ludlow	2.2	29.7	51.4	19.9	0.7	12060	53	1.0
colorado	las animas	uncorrelated	2.5	32.2	50.3	17.5	0.6	12040	49	1.0
colorado	las animas	walsen	2.8	33.7	54.7	11.6	0.6	13100	0	1.5
colorado	las animas	walsen	2.9	32.9	55.4	11.7	0.7	13020	49	1.5
colorado	las animas	uncorrelated	1.8	35.4	55.4	9.2	0.6	13880	62	7.5
colorado	las animas	uncorrelated	3.1	38.1	53.6	8.3	0.8	13650	0	5.0
colorado	las animas	uncorrelated	2.6	37.5	54.8	7.7	0.6	13770	49	4.0
colorado	las animas	uncorrelated	2.7	28.5	60.7	10.8	0.8	13640	80	1.0
colorado	las animas	primero	2.2	33.0	51.3	15.7	0.5	12670	58	6.0
colorado	las animas	uncorrelated	2.6	36.5	52.4	11.1	0.5	12880	51	2.0
colorado	las animas	uncorrelated	3.5	38.2	48.7	13.1	0.5	12850	57	4.0
colorado	las animas	uncorrelated	2.8	30.7	57.1	12.2	0.6	13190	57	4.5
colorado	las animas	uncorrelated	2.1	31.7	56.5	11.8	0.6	13250	0	6.0
colorado	las animas	uncorrelated	3.9	30.7	54.5	14.8	0.5	12610	0	1.5
colorado	las animas	delagua no 1	3.1	37.2	52.4	10.4	0.5	13120	0	3.5
colorado	las animas	uncorrelated	2.4	35.7	52.2	12.1	0.9	13160	0	4.5
colorado	las animas	uncorrelated	2.4	32.9	51.8	15.3	0.8	12860	55	6.5
colorado	las animas	uncorrelated	2.1	34.7	51.4	13.9	0.7	13020	55	6.0
colorado	las animas	uncorrelated	2.6	34.0	51.3	14.7	0.7	12860	0	6.5
colorado	las animas	upper ludlow	2.1	33.9	46.9	19.2	0.7	12180	49	5.5
colorado	las animas	lower ludlow	2.2	30.2	50.0	19.8	0.8	11990	48	4.5
colorado	las animas	uncorrelated	1.9	31.6	56.0	12.4	0.6	13350	72	5.5
colorado	las animas	uncorrelated	2.4	31.7	53.6	14.7	0.5	12860	75	6.5
colorado	las animas	uncorrelated	1.8	30.5	50.3	19.2	0.6	12160	49	4.5
colorado	las animas	uncorrelated	2.7	33.7	51.4	14.4	0.8	12700	49	2.5
colorado	las animas	uncorrelated	2.5	33.1	49.0	17.9	0.7	12230	52	5.5
colorado	las animas	uncorrelated	2.4	35.7	49.9	14.4	0.7	12850	59	6.5
colorado	las animas	uncorrelated	2.2	35.3	48.6	16.1	0.6	12530	0	6.0
colorado	las animas	uncorrelated	1.8	37.0	51.0	12.0	0.7	13130	44	3.5
colorado	las animas	uncorrelated	3.9	37.2	49.0	13.8	0.7	12730	48	3.0
colorado	las animas	walsen	2.7	34.9	48.7	16.4	0.6	12400	44	3.0
colorado	las animas	walsen	3.2	35.0	49.0	16.0	0.6	12430	46	2.0
colorado	las animas	walsen	3.3	35.9	49.2	14.9	0.7	12530	42	2.5
colorado	las animas	walsen	3.0	34.6	45.8	19.6	0.8	11810	47	3.0
colorado	las animas	lower starkville	2.1	29.7	51.5	18.8	0.7	12380	57	7.0
colorado	las animas	lower starkville	2.1	29.7	50.2	20.1	0.8	12130	61	5.5
colorado	las animas	lower starkville	2.6	31.4	52.5	16.1	0.9	12790	0	6.5
colorado	las animas	lower starkville	2.4	31.6	52.1	16.3	0.8	12820	66	7.0
colorado	las animas	lower starkville	1.7	30.7	52.3	17.0	0.8	12700	0	6.0
colorado	mesa	cameo	8.8	38.8	52.2	9.0	0.6	12900	47	1.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailn	fsilo
colorado	mesa	cameo	6.8	38.4	48.4	13.2	0.9	12230	53	1.0
colorado	mesa	cameo	8.0	37.8	47.6	14.6	1.2	12190	0	1.0
colorado	mesa	cameo	8.9	39.2	50.2	10.6	0.8	12610	55	1.0
colorado	mesa	cameo	6.6	40.0	48.7	11.3	1.1	12580	0	1.0
colorado	mesa	cameo	8.0	38.2	50.9	10.9	0.7	12650	56	1.0
colorado	mesa	cameo	8.2	39.0	51.2	10.8	0.6	12740	50	1.0
colorado	mesa	cameo	7.9	37.0	48.0	15.0	0.7	12050	0	1.0
colorado	mesa	cameo	7.6	37.3	47.5	15.2	0.8	11970	47	1.0
colorado	mesa	uncorrelated	9.3	41.0	51.5	7.5	1.2	13210	48	2.5
colorado	mesa	uncorrelated	8.2	41.7	48.5	9.8	1.6	12970	49	2.5
colorado	mesa	uncorrelated	9.2	40.6	51.6	7.8	1.7	13270	49	1.5
colorado	mesa	palisade	7.0	39.7	50.2	10.6	0.6	12440	45	1.5
colorado	mesa	palisade	8.1	38.2	48.6	13.2	0.9	12130	0	1.0
colorado	mesa	palisade	3.3	38.5	44.1	17.4	1.2	11610	0	1.5
colorado	mesa	palisade	7.7	39.1	53.1	7.8	0.6	13330	49	1.0
colorado	mesa	palisade	6.4	40.1	49.9	10.0	0.6	13140	49	1.5
colorado	mesa	palisade	7.5	40.6	52.9	6.5	0.5	13590	50	2.0
colorado	mesa	cameo	7.6	38.5	50.0	11.5	0.6	12520	52	1.5
colorado	mesa	cameo	7.1	39.1	49.5	11.4	0.7	12530	56	1.0
colorado	mesa	cameo	7.7	38.4	50.5	11.1	0.9	12440	0	1.0
colorado	mesa	palisade	8.1	39.6	50.7	0.7	0.6	13020	0	1.0
colorado	mesa	palisade	8.1	41.0	50.7	8.3	0.6	13240	49	1.0
colorado	mesa	palisade	8.9	38.7	53.0	8.3	0.7	13360	49	1.0
colorado	mesa	palisade	8.2	38.8	50.2	11.0	0.6	12760	42	1.0
colorado	mesa	palisade	8.1	39.6	50.6	9.8	0.7	13060	45	1.5
colorado	mesa	cameo	5.4	37.6	51.6	10.8	0.7	12630	0	1.0
colorado	mesa	cameo	8.9	39.4	51.2	9.4	0.8	12880	52	1.0
colorado	mesa	cameo	8.3	39.6	49.5	10.9	0.7	12620	50	1.0
colorado	mesa	cameo	7.7	38.6	51.4	10.0	0.6	12760	51	2.0
colorado	mesa	cameo	9.5	38.1	50.7	11.2	0.7	12620	57	1.0
colorado	mesa	cameo	7.8	37.4	50.3	12.3	0.6	12390	54	1.0
colorado	mesa	cameo	8.2	38.2	48.5	13.3	0.8	12230	54	1.5
colorado	mesa	cameo	8.1	38.1	51.8	10.1	0.6	12700	53	2.0
colorado	mesa	cameo	7.9	38.9	50.2	10.9	0.5	12650	55	1.5
colorado	mesa	cameo	8.5	38.1	52.3	9.6	0.6	12880	0	1.0
colorado	mesa	cameo	8.1	38.0	51.9	10.1	0.7	12830	58	1.5
colorado	mesa	cameo	5.6	38.3	51.6	10.1	0.7	12780	0	1.5
colorado	mesa	cameo	8.0	37.8	51.6	10.6	0.9	12770	54	1.0
colorado	mesa	cameo	8.6	40.0	49.2	10.8	0.7	12730	53	1.5
colorado	montezuma	uncorrelated	6.6	32.8	53.4	13.8	0.8	12780	58	1.5
colorado	montezuma	uncorrelated	5.0	31.4	51.5	17.1	0.6	12200	59	1.0
colorado	montrose	uncorrelated	7.7	34.6	54.9	10.5	0.5	13010	54	1.0
colorado	montrose	uncorrelated	6.3	37.6	53.6	12.8	0.7	12820	53	1.0
colorado	montrose	uncorrelated	6.5	33.6	54.5	11.9	0.9	12910	51	1.0
colorado	pitkin	allen	2.7	38.5	53.6	7.9	0.6	13600	52	3.0
colorado	pitkin	uncorrelated	2.8	22.7	66.1	11.2	0.7	13900	0	9.0
colorado	pitkin	uncorrelated	7.6	23.4	68.5	8.1	0.6	14490	0	9.0
colorado	pitkin	uncorrelated	3.0	22.9	69.0	8.1	0.7	14550	0	9.0
colorado	pitkin	uncorrelated	4.9	23.0	68.6	8.4	0.6	14480	**	9.0
colorado	pitkin	a-carbondale field	3.5	30.3	55.6	14.1	1.2	13300	83	8.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqtlo	fstlo
colorado	pitkin	u (carbondale field)	2.6	37.8	60.3	8.9	1.0	14110	89	7.0
colorado	pitkin	abanderson-carbondal	4.8	30.3	56.8	12.9	0.9	13330	0	9.0
colorado	pitkin	abn-carbndale	3.1	29.5	58.2	12.3	1.1	13640	86	8.0
colorado	pitkin	anderson	3.6	32.4	59.5	8.1	0.7	14100	71	7.0
colorado	pitkin	anderson	2.5	34.9	57.5	7.6	0.6	14230	69	8.0
colorado	rontt	uncorrelated	7.2	41.3	44.9	9.8	1.1	12670	0	1.5
colorado	rontt	pinnacle	7.5	41.4	51.4	7.2	0.6	12970	50	1.5
colorado	san miguel	uncorrelated	2.8	36.1	55.7	9.2	1.5	13790	0	2.0

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)					inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	
overburden													
dade					county								

bit													
no 1													
0-1000	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	
no 3													
0-1000	0.00	0.17	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.17	
no 4													
0-1000	3.34	0.00	0.00	3.34	0.00	0.00	0.00	0.00	3.34	0.00	0.00	3.34	
no 8													
0-1000	12.10	0.00	0.00	12.10	0.00	0.00	0.00	0.00	12.10	0.00	0.00	12.10	
no 9													
0-1000	0.20	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.20	

county total =	16.14	0.17	0.00	16.31	0.00	0.00	0.00	0.00	16.14	0.17	0.00	16.31	

walker					county								

bit													
no 1													
0-1000	0.50	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	
no 3													
0-1000	0.00	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.33	
no 4													
0-1000	6.66	0.00	0.00	6.66	0.00	0.00	0.00	0.00	6.66	0.00	0.00	6.66	

county total =	7.16	0.33	0.00	7.49	0.00	0.00	0.00	0.00	7.16	0.33	0.00	7.49	

=====													
overburden													
subtotal													
0-1000	23.30	0.50	0.00	23.80	0.00	0.00	0.00	0.00	23.30	0.50	0.00	23.80	

total =	23.30	0.50	0.00	23.80	0.00	0.00	0.00	0.00	23.30	0.50	0.00	23.80	

=====													

overburden													
total													
0-1000	23.30	0.50	0.00	23.80	0.00	0.00	0.00	0.00	23.30	0.50	0.00	23.80	

grand total =	23.30	0.50	0.00	23.80	0.00	0.00	0.00	0.00	23.30	0.50	0.00	23.80	

total tonnage of identified coal resources in georgia

23.80

resource figures taken from:

source	year	base year of resource
usgs coal inv map	1946	1945

average analyses of coal in georgia

proximate analysis (percent)						ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol	mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
dade						county								
bit	hazard no 5a	4.8	27.8	67.2	5.0	0.0	0.0	0.0	0.0	0.0	1.6	14630	2030	1
	no 1	3.4	19.8	62.6	17.6	0.0	0.0	0.0	0.0	0.0	1.7	12690	2850	1
	no 5	2.7	21.0	75.0	4.0	0.0	0.0	0.0	0.0	0.0	0.9	15050	2470	1
	no 8	3.2	27.9	65.8	6.3	0.0	0.0	0.0	0.0	0.0	2.2	14605	2205	2
	no 9	3.1	24.8	63.5	11.8	0.0	0.0	0.0	0.0	0.0	0.8	13590	2707	4
	rattlesnake	4.4	24.3	65.9	9.8	0.0	0.0	0.0	0.0	0.0	0.9	13840	2750	1
county average		3.4	24.8	65.6	9.6	0.0	0.0	0.0	0.0	0.0	1.3	13978	2534	10
walker						county								
bit	no 3	3.4	20.6	72.8	6.6	0.0	0.0	0.0	0.0	0.0	1.0	14640	2550	1
	no 4	3.9	19.8	69.7	10.4	0.0	0.0	0.0	0.0	0.0	1.0	13940	2555	2
	nos 1 & 3	3.6	20.3	61.2	18.4	3.9	71.1	1.3	1.8	3.0	12481	2455	9	
	nos 1 & 4	1.8	20.9	74.0	5.1	0.0	0.0	0.0	0.0	0.0	0.8	14869		13
	uncorrelated	2.6	21.3	55.8	22.9	0.0	0.0	0.0	0.0	0.0	1.2	11830	2690	1
county average		2.7	20.6	68.5	10.9	3.9	71.1	1.3	1.8	1.6	1.6	13845	2543	26

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in idaho

(In millions of short tons)

all records contain unclassified thickness and/or reliability

total tonnage= 9.24

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
idah	teton	brown bear	bit	1951	unclass	0-1000	indicated	1.42
idah	teton	brown bear	bit	1951	unclass	0-2000	inferred	1.42
idah	teton	progressive	bit	1951	unclass	0-1000	indicated	2.13
idah	teton	progressive	bit	1951	unclass	0-2000	inferred	2.13
idah	teton	boise	bit	1951	unclass	0-1000	indicated	1.07
idah	teton	boise	bit	1951	unclass	0-2000	inferred	1.07

resource figures taken from:

source	year	base year of resource
idaho bmg pamph 92	1951	1951

average analyses of coal in idaho

proximate analysis (percent)														ultimate analysis (percent)					sulfur	btu	ash of	max. no.
rank	coal bed	moistur	vol	mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	(percent)	temp(f)	averaged									
teton							county															
bit	brown bear	5.0	42.7		51.0	6.3	0.0	0.0	0.0	0.0	0.4	13470	2100	1								
	uncorrelated	6.4	41.4		52.1	6.5	5.4	75.8	1.5	11.0	1.2	13280	2198	7								
	county average	6.3	41.6		52.0	6.5	5.4	75.8	1.5	11.0	1.1	13303	2186	8								

Idaho

state
Idaho

county
teton

hed
brown bear

moistur	volmat	fixedc	ash	sulfur	otu	hgilo	fsilo
5.0	42.7	51.0	6.3	0.4	13470	0	2.5

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
adams county												
bit												
colchester no 2 0-1000	0.00	0.91	0.00	0.91	0.00	217.01	0.00	217.01	0.00	217.92	0.00	217.92
county total =	0.00	0.91	0.00	0.91	0.00	217.01	0.00	217.01	0.00	217.92	0.00	217.92
bond county												
bit												
colchester no 2 0-1000	0.00	0.00	0.00	0.00	0.00	2.09	0.00	2.09	0.00	2.09	0.00	2.09
harrisburg no 5 0-1030	0.00	0.00	79.34	79.34	0.00	3.32	217.20	220.52	0.00	3.32	296.54	299.86
herrin no 6 0-1000	0.00	5.00	1747.10	1752.10	0.00	0.00	699.86	699.86	0.00	5.00	2446.96	2451.96
litchfield 0-1000	0.00	0.00	0.00	0.00	0.00	2.47	0.00	2.47	0.00	2.47	0.00	2.47
county total =	0.00	5.00	1826.44	1831.44	0.00	7.88	917.06	924.94	0.00	12.88	2743.50	2756.38
brown county												
bit												
colchester no 2 0-1000	1.07	13.99	0.00	15.06	0.00	47.97	0.00	47.97	1.07	61.96	0.00	63.03
county total =	1.07	13.99	0.00	15.06	0.00	47.97	0.00	47.97	1.07	61.96	0.00	63.03
bureau county												
bit												
colchester no 2 0-1000	0.00	549.07	43.90	592.97	0.00	628.83	0.00	628.83	0.00	1177.90	43.90	1221.80
danville no 7 0-1000	0.00	152.52	42.19	194.71	0.00	57.04	0.00	57.04	0.00	209.56	42.19	251.75
herrin no 6 0-1000	0.00	42.61	302.96	345.57	0.00	187.71	1.72	189.43	0.00	230.32	304.68	535.00
county total =	0.00	744.20	389.05	1133.25	0.00	873.58	1.72	875.30	0.00	1617.78	390.77	2008.55
cass county												
bit												

colchester no 2												
0-1000	0.00	16.50	0.00	16.50	0.00	433.94	0.00	433.94	0.00	450.44	0.00	450.44
springfield no 5												
0-1000	0.00	0.00	3.39	3.39	0.00	1.70	43.96	45.66	0.00	1.70	47.35	49.05

county total =	0.00	16.50	3.39	19.89	0.00	435.64	43.96	479.60	0.00	452.14	47.35	499.49

champaign						county						

bit												
danville no 7												
0-1000	0.00	0.00	0.00	0.00	0.00	181.88	0.00	181.88	0.00	181.88	0.00	181.88

county total =	0.00	0.00	0.00	0.00	0.00	181.88	0.00	181.88	0.00	181.88	0.00	181.88

christian						county						

bit												
assumption												
0-1000	0.00	9.53	0.00	9.53	0.00	69.18	0.00	69.18	0.00	78.71	0.00	78.71
danville no 7												
0-1000	0.00	53.04	8.42	61.46	0.00	0.00	0.00	0.00	0.00	53.04	8.42	61.46
herrin no 6												
0-1000	0.00	6.35	2536.50	2542.85	0.00	0.00	596.54	596.54	0.00	6.35	3133.04	3139.39
springfield no 5												
0-1000	0.00	106.77	413.86	520.63	0.00	345.35	261.07	606.42	0.00	452.12	674.93	1127.05
uncorrelated												
0-1000	0.00	7.95	0.00	7.95	0.00	0.00	0.00	0.00	0.00	7.95	0.00	7.95

county total =	0.00	183.64	2958.78	3142.42	0.00	414.53	857.61	1272.14	0.00	598.17	3816.39	4414.56

clark						county						

bit												
danville no 7												
0-1000	0.00	61.18	4.09	65.27	0.00	160.64	90.75	251.39	0.00	221.82	94.84	316.66
harrisburg no 5												
0-1000	0.00	0.00	69.25	69.25	0.00	118.01	323.89	441.90	0.00	118.01	393.14	511.15
herrin no 6												
0-1000	0.00	0.00	0.00	0.00	0.00	11.85	0.00	11.85	0.00	11.85	0.00	11.85
indiana iii												
0-1000	0.00	0.00	33.93	33.93	0.00	22.27	323.69	345.96	0.00	22.27	357.62	379.89

county total =	0.00	61.18	107.27	168.45	0.00	312.77	738.33	1051.10	0.00	373.95	845.60	1219.55

clay						county						

bit												
harrisburg no 5												
0-1000	0.00	0.00	0.00	0.00	0.00	702.32	0.00	702.32	0.00	702.32	0.00	702.32
herrin no 6												
0-1000	0.00	0.00	0.00	0.00	0.00	725.97	190.86	916.83	0.00	725.97	190.86	916.83

county total =	0.00	0.00	0.00	0.00	0.00	1428.29	190.86	1619.15	0.00	1428.29	190.86	1619.15

clinton						county						

bit												
harrisburg no 5												
0-1000	0.00	2.12	0.00	2.12	0.00	544.22	5.90	550.12	0.00	546.34	5.90	552.24

herrin no 6 0-1000	0.00	3.43	1320.14	1323.57	0.00	27.52	1885.36	1912.88	0.00	30.95	3205.50	3236.45
county total =	0.00	5.55	1320.14	1325.69	0.00	571.74	1891.26	2463.00	0.00	577.29	3211.40	3788.69

coles county												

bit												
danville no 7 0-1000	0.00	36.64	0.00	36.64	0.00	275.47	0.00	275.47	0.00	312.11	0.00	312.11
harrisburg no 5 0-1000	0.00	44.05	0.00	44.05	0.00	0.00	0.00	0.00	0.00	44.05	0.00	44.05
county total =	0.00	80.69	0.00	80.69	0.00	275.47	0.00	275.47	0.00	356.16	0.00	356.16

crawford county												

bit												
danville no 7 0-1000	0.00	70.58	0.00	70.58	0.00	140.57	0.00	140.57	0.00	211.15	0.00	211.15
harrisburg no 5 0-1000	0.00	59.38	45.92	105.30	0.00	650.32	173.56	823.88	0.00	709.70	219.48	929.18
herrin no 6 0-1000	0.00	11.50	23.36	34.86	0.00	263.30	273.67	536.97	0.00	274.80	297.03	571.83
indiana iii 0-1000	0.00	0.00	151.25	151.25	0.00	0.00	301.23	301.23	0.00	0.00	452.48	452.48
jamestown 0-1000	0.00	0.00	80.66	80.66	0.00	0.00	160.65	160.65	0.00	0.00	241.31	241.31
county total =	0.00	141.46	301.19	442.65	0.00	1054.19	909.11	1963.30	0.00	1195.65	1210.30	2405.95

cumberland county												

bit												
harrisburg no 5 0-1000	0.00	0.00	0.00	0.00	0.00	45.05	126.21	171.26	0.00	45.05	126.21	171.26
herrin no 6 0-1000	0.00	0.00	0.00	0.00	0.00	36.04	126.21	162.25	0.00	36.04	126.21	162.25
trowbridge 0-1000	0.00	3.85	0.00	3.85	0.00	0.00	0.00	0.00	0.00	3.85	0.00	3.85
county total =	0.00	3.85	0.00	3.85	0.00	81.09	252.42	333.51	0.00	84.94	252.42	337.36

de witt county												

bit												
springfield no 5 0-1000	0.00	0.00	0.00	0.00	0.00	173.62	0.00	173.62	0.00	173.62	0.00	173.62
county total =	0.00	0.00	0.00	0.00	0.00	173.62	0.00	173.62	0.00	173.62	0.00	173.62

douglas county												

bit												
danville no 7 0-1000	0.00	0.00	411.57	411.57	0.00	19.33	295.93	315.26	0.00	19.33	707.50	726.83
harrisburg no 5 0-1000	0.00	11.01	0.00	11.01	0.00	0.00	0.00	0.00	0.00	11.01	0.00	11.01
uncorrelated 0-1000	0.00	10.07	0.00	10.07	0.00	0.00	0.00	0.00	0.00	10.07	0.00	10.07

county total =		0.00	21.08	411.57	432.65	0.00	19.33	295.93	315.26	0.00	40.41	707.50	747.91
		edgar				county							
bit													
danville no 7													
0-1000		0.00	154.28	527.04	681.32	0.00	400.47	341.42	741.89	0.00	554.75	868.46	1423.21
harrisburg no 5													
0-1000		0.00	173.55	158.45	332.00	0.00	103.45	5.87	109.32	0.00	277.00	164.32	441.32
herrin no 6													
0-1000		0.00	63.99	99.68	163.67	0.00	85.08	0.00	85.08	0.00	149.07	99.68	248.75
indiana iii													
0-1000		0.00	2.12	570.90	573.02	0.00	12.44	293.47	305.91	0.00	14.56	864.37	878.93
county total =		0.00	393.94	1356.07	1750.01	0.00	601.44	640.76	1242.20	0.00	995.38	1996.83	2992.21
		edwards				county							
bit													
harrisburg no 5													
0-1000		0.00	0.00	0.00	0.00	0.00	449.54	0.00	449.54	0.00	449.54	0.00	449.54
herrin no 6													
0-1000		0.00	0.00	0.00	0.00	0.00	684.31	0.00	684.31	0.00	684.31	0.00	684.31
county total =		0.00	0.00	0.00	0.00	0.00	1133.85	0.00	1133.85	0.00	1133.85	0.00	1133.85
		effingham				county							
bit													
harrisburg no 5													
0-1000		0.00	0.00	0.00	0.00	0.00	154.84	1009.51	1164.35	0.00	154.84	1009.51	1164.35
herrin no 6													
0-1000		0.00	0.00	0.00	0.00	0.00	112.11	509.96	622.07	0.00	112.11	509.96	622.07
county total =		0.00	0.00	0.00	0.00	0.00	266.95	1519.47	1786.42	0.00	266.95	1519.47	1786.42
		fayette				county							
bit													
danville no 7													
0-1000		0.00	292.40	3.63	296.03	0.00	0.00	0.00	0.00	0.00	292.40	3.63	296.03
harrisburg no 5													
0-1000		0.00	0.00	0.00	0.00	0.00	159.65	0.00	159.65	0.00	159.65	0.00	159.65
herrin no 6													
0-1000		0.00	0.00	877.70	877.70	0.00	502.84	1393.42	1896.26	0.00	502.84	2271.12	2773.96
county total =		0.00	292.40	881.33	1173.73	0.00	662.49	1393.42	2055.91	0.00	954.89	2274.75	3229.64
		franklin				county							
bit													
bald hill													
0-1000		0.00	42.43	19.62	62.05	0.00	0.00	0.00	0.00	0.00	42.43	19.62	62.05
davis													
0-1000		0.00	167.88	0.00	167.88	0.00	340.00	0.00	340.00	0.00	507.88	0.00	507.88
dekoven													
0-1000		0.00	42.98	58.06	101.04	0.00	261.11	0.00	261.11	0.00	304.09	58.06	362.15
harrisburg no 5													
0-1000		0.00	204.45	1206.66	1411.11	0.00	69.44	551.21	620.65	0.00	273.89	1757.87	2031.76

herrin no 6 0-1000	0.00	182.32	1938.69	2121.01	0.00	14.88	77.37	92.25	0.00	197.20	2016.06	2213.26
county total =	0.00	640.06	3223.03	3863.09	0.00	685.43	628.58	1314.01	0.00	1325.49	3851.61	5177.10
		fulton			county							

bit												
colchester no 2 0-1000	0.00	740.13	0.00	740.13	0.00	375.12	0.00	375.12	0.00	1115.25	0.00	1115.25
herrin no 6 0-1000	0.00	13.13	54.49	67.62	0.00	9.29	161.42	170.71	0.00	22.42	215.91	238.33
springfield no 5 0-1000	0.00	0.35	692.75	693.10	0.00	0.00	57.45	57.45	0.00	0.35	750.20	750.55
sumnum no 4 0-1000	0.00	0.00	5.45	5.45	0.00	0.00	0.00	0.00	0.00	0.00	5.45	5.45
county total =	0.00	753.61	752.69	1506.30	0.00	384.41	218.87	603.28	0.00	1138.02	971.56	2109.58
		gallatin			county							

bit												
davis 0-1000	0.00	17.30	332.02	349.32	0.00	179.02	329.69	508.71	0.00	196.32	661.71	858.03
dekoven 0-1000	0.00	263.23	4.22	267.45	0.00	384.24	0.00	384.24	0.00	647.47	4.22	651.69
harrisburg no 5 0-1000	0.00	0.00	700.48	700.48	0.00	0.00	601.00	601.00	0.00	0.00	1301.48	1301.48
herrin no 6 0-1000	0.00	58.18	568.82	627.00	0.00	0.00	524.83	524.83	0.00	58.18	1093.65	1151.83
willis 0-1000	0.00	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	6.89	0.00	6.89
county total =	0.00	345.60	1605.54	1951.14	0.00	563.26	1455.52	2018.78	0.00	908.86	3061.06	3969.92
		greene			county							

bit												
colchester no 2 0-1000	0.00	120.44	0.00	120.44	0.00	249.91	0.00	249.91	0.00	370.35	0.00	370.35
sumnum no 4 0-1000	0.00	0.00	25.21	25.21	0.00	0.00	0.00	0.00	0.00	0.00	25.21	25.21
county total =	0.00	120.44	25.21	145.65	0.00	249.91	0.00	249.91	0.00	370.35	25.21	395.56
		grundy			county							

bit												
colchester no 2 0-1000	0.00	351.00	0.00	351.00	0.00	443.49	0.00	443.49	0.00	794.49	0.00	794.49
herrin no 6 0-1000	0.00	32.50	0.00	32.50	0.00	1.33	0.00	1.33	0.00	33.83	0.00	33.83
sumnum no 4 0-1000	0.00	0.59	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.59
county total =	0.00	384.09	0.00	384.09	0.00	444.82	0.00	444.82	0.00	828.91	0.00	828.91
		hamilton			county							

bit												

davis													
0-1000	0.00	0.00	0.00	0.00	0.00	5.34	0.00	5.34	0.00	5.34	0.00	5.34	
dekoven													
0-1000	0.00	0.00	0.00	0.00	0.00	3.56	0.00	3.56	0.00	3.56	0.00	3.56	
harrisburg no 5													
0-1000	0.00	8.04	924.92	932.96	0.00	204.37	1005.98	1210.35	0.00	212.41	1930.90	2143.31	
herrin no 6													
0-1000	0.00	0.00	1489.81	1489.81	0.00	0.00	1122.18	1122.18	0.00	0.00	2611.99	2611.99	

county total =	0.00	8.04	2414.73	2422.77	0.00	213.27	2128.16	2341.43	0.00	221.31	4542.89	4764.20	

hancock county													

bit													
colchester no 2													
0-1000	0.00	5.88	0.00	5.88	0.00	48.41	0.00	48.41	0.00	54.29	0.00	54.29	

county total =	0.00	5.88	0.00	5.88	0.00	48.41	0.00	48.41	0.00	54.29	0.00	54.29	

hardin county													

bit													
davis													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	2.42	2.42	0.00	0.00	2.42	2.42	
dekoven													
0-1000	0.00	0.00	0.00	0.00	0.00	1.18	0.00	1.18	0.00	1.18	0.00	1.18	

county total =	0.00	0.00	0.00	0.00	0.00	1.18	2.42	3.60	0.00	1.18	2.42	3.60	

henry county													

bit													
colchester no 2													
0-1000	0.00	29.11	0.00	29.11	0.00	568.28	0.00	568.28	0.00	597.39	0.00	597.39	
danville no 7													
0-1000	0.00	0.00	0.00	0.00	0.00	18.47	0.00	18.47	0.00	18.47	0.00	18.47	
herrin no 6													
0-1000	0.00	8.95	101.93	110.88	0.00	84.80	10.13	94.93	0.00	93.75	112.06	205.81	
rock island no 1													
0-1000	0.00	13.76	22.02	35.78	0.00	34.49	6.39	40.88	0.00	48.25	28.41	76.66	

county total =	0.00	51.82	123.95	175.77	0.00	706.04	16.52	722.56	0.00	757.86	140.47	898.33	

jackson county													

bit													
campbell hill													
0-1000	0.00	0.00	8.83	8.83	0.00	0.00	0.00	0.00	0.00	0.00	8.83	8.83	
harrisburg no 5													
0-1000	0.00	0.00	212.00	212.00	0.00	0.00	6.50	6.50	0.00	0.00	218.50	218.50	
herrin no 6													
0-1000	0.00	76.50	134.26	210.76	0.00	0.00	0.00	0.00	0.00	76.50	134.26	210.76	
makanda													
0-1000	0.00	1.97	0.00	1.97	0.00	0.00	0.00	0.00	0.00	1.97	0.00	1.97	
murphysboro													
0-1000	0.00	14.13	54.54	68.67	0.00	144.45	27.83	172.28	0.00	158.58	82.37	240.95	

county total =	0.00	92.60	409.63	502.23	0.00	144.45	34.33	178.78	0.00	237.05	443.96	681.01	

jasper county													

bit													
harrisburg no 5													
0-1000	0.00	0.00	0.00	0.00	0.00	1170.66	244.55	1415.21	0.00	1170.66	244.55	1415.21	
herrin no 6													
0-1000	0.00	0.00	0.00	0.00	0.00	755.26	1106.41	1861.67	0.00	755.26	1106.41	1861.67	
county total =	0.00	0.00	0.00	0.00	0.00	1925.92	1350.96	3276.88	0.00	1925.92	1350.96	3276.88	

jefferson county

bit													
harrisburg no 5													
0-1000	0.00	81.36	334.11	415.47	0.00	1372.19	216.12	1588.31	0.00	1453.55	550.23	2003.78	
herrin no 6													
0-1000	0.00	9.48	1406.85	1416.33	0.00	198.05	1234.39	1432.44	0.00	207.53	2641.24	2848.77	
county total =	0.00	90.84	1740.96	1831.80	0.00	1570.24	1450.51	3020.75	0.00	1661.08	3191.47	4852.55	

jersey county

bit													
colchester no 2													
0-1000	0.00	41.27	0.00	41.27	0.00	156.51	0.00	156.51	0.00	197.78	0.00	197.78	
danville no 7													
0-1000	0.00	10.49	0.00	10.49	0.00	0.00	0.00	0.00	0.00	10.49	0.00	10.49	
herrin no 6													
0-1000	0.00	38.08	4.54	42.62	0.00	28.64	0.00	28.64	0.00	66.72	4.54	71.26	
county total =	0.00	89.84	4.54	94.38	0.00	185.15	0.00	185.15	0.00	274.99	4.54	279.53	

kankakee county

bit													
colchester no 2													
0-1000	0.00	68.43	0.00	68.43	0.00	18.62	0.00	18.62	0.00	87.05	0.00	87.05	
herrin no 6													
0-1000	0.00	36.06	0.00	36.06	0.00	0.00	0.00	0.00	0.00	36.06	0.00	36.06	
county total =	0.00	104.49	0.00	104.49	0.00	18.62	0.00	18.62	0.00	123.11	0.00	123.11	

knox county

bit													
colchester no 2													
0-1000	0.00	0.00	0.00	0.00	20.46	182.23	0.00	202.69	20.46	182.23	0.00	202.69	
herrin no 6													
0-1000	0.00	0.31	114.75	115.06	0.00	48.86	100.47	149.33	0.00	49.17	215.22	264.39	
rock island no 1													
0-1000	0.00	29.53	21.92	51.45	0.00	1.81	4.54	6.35	0.00	31.34	26.46	57.80	
springfield no 5													
0-1000	9.71	45.35	78.69	133.75	0.00	34.08	0.00	34.08	9.71	79.43	78.69	167.83	
county total =	9.71	75.19	215.36	300.26	20.46	266.98	105.01	392.45	30.17	342.17	320.37	692.71	

la salle county

bit													
colchester no 2													
0-1000	22.96	732.76	0.00	755.72	0.94	608.99	0.00	609.93	23.90	1341.75	0.00	1365.65	

danville no 7 0-1000	0.00	164.97	206.31	371.28	0.00	118.51	0.00	118.51	0.00	283.48	206.31	489.79
herrin no 6 0-1000	0.00	98.07	58.58	156.65	0.00	13.55	0.00	13.55	0.00	111.62	58.58	170.20
county total =	22.96	995.80	264.89	1283.65	0.94	741.05	0.00	741.99	23.90	1736.85	264.89	2025.64

lawrence county												

bit												
danville no 7 0-1000	0.00	61.84	81.61	143.45	0.00	44.03	35.97	80.00	0.00	105.87	117.58	223.45
harrisburg no 5 0-1000	0.00	67.26	205.26	272.52	0.00	562.09	150.42	712.51	0.00	629.35	355.68	985.03
herrin no 6 0-1000	0.00	52.44	149.70	202.14	0.00	479.00	505.54	984.54	0.00	531.44	655.24	1186.68
indiana iii 0-1000	0.00	0.00	52.67	52.67	0.00	0.00	12.46	12.46	0.00	0.00	65.13	65.13
indiana iv 0-1000	0.00	33.77	36.26	70.03	0.00	0.00	61.02	61.02	0.00	33.77	97.28	131.05
jamestown 0-1000	0.00	42.91	109.93	152.84	0.00	138.04	68.74	206.78	0.00	180.95	178.67	359.62
county total =	0.00	258.22	635.43	893.65	0.00	1223.16	834.15	2057.31	0.00	1481.38	1469.58	2950.96

livingston county												

bit												
colchester no 2 0-1000	0.00	265.50	0.00	265.50	0.00	2086.11	0.00	2086.11	0.00	2351.61	0.00	2351.61
danville no 7 0-1000	0.00	10.59	128.78	139.37	0.00	118.20	0.00	118.20	0.00	128.79	128.78	257.57
herrin no 6 0-1000	0.00	156.85	31.45	188.30	0.00	182.28	0.00	182.28	0.00	339.13	31.45	370.58
county total =	0.00	432.94	160.23	593.17	0.00	2386.59	0.00	2386.59	0.00	2819.53	160.23	2979.76

logan county												

bit												
springfield no 5 0-1000	0.00	0.00	626.70	626.70	0.00	631.50	733.86	1365.36	0.00	631.50	1360.56	1992.06
county total =	0.00	0.00	626.70	626.70	0.00	631.50	733.86	1365.36	0.00	631.50	1360.56	1992.06

macon county												

bit												
herrin no 6 0-1000	0.00	0.00	12.61	12.61	0.00	0.00	96.01	96.01	0.00	0.00	108.62	108.62
springfield no 5 0-1000	0.00	0.00	280.26	280.26	0.00	415.84	430.53	846.37	0.00	415.84	710.79	1126.63
county total =	0.00	0.00	292.87	292.87	0.00	415.84	526.54	942.38	0.00	415.84	819.41	1235.25

macoupin county												

bit												
colchester no 2 0-1000	0.00	204.41	58.87	263.28	0.00	1036.05	333.10	1369.15	0.00	1240.46	391.97	1632.43

madison county													

bit													
colchester no 2 0-1000	0.00	201.97	0.00	201.97	0.00	450.99	0.00	450.99	0.00	652.96	0.00	652.96	
davis 0-1000	0.00	0.00	0.00	0.00	0.00	4.68	0.00	4.68	0.00	4.68	0.00	4.68	
herrin no 6 0-1000	0.00	18.93	1592.62	1611.55	0.00	131.81	180.60	312.41	0.00	170.74	1773.22	1943.96	
litchfield 0-1000	0.00	0.00	0.00	0.00	0.00	0.00	8.02	8.02	0.00	0.00	8.02	8.02	
county total =	0.00	220.90	1592.62	1813.52	0.00	607.48	188.62	796.10	0.00	828.38	1781.24	2609.62	

marion county													

bit													
harrisburg no 5 0-1000	0.00	48.02	53.63	101.65	0.00	646.85	0.00	646.85	0.00	694.87	53.63	748.50	
herrin no 6 0-1000	0.00	0.00	324.80	324.80	0.00	166.30	727.15	893.45	0.00	166.30	1051.95	1218.25	
county total =	0.00	48.02	378.43	426.45	0.00	813.15	727.15	1540.30	0.00	861.17	1105.58	1966.75	

marshall county													

bit													
colchester no 2 0-1000	0.00	270.62	0.00	270.62	0.00	173.65	413.78	587.43	0.00	444.27	413.78	858.05	
denville no 7 0-1000	0.00	118.31	0.00	118.31	0.00	219.08	0.00	219.08	0.00	337.39	0.00	337.39	
herrin no 6 0-1000	0.00	9.75	0.00	9.75	0.00	0.00	0.00	0.00	0.00	9.75	0.00	9.75	
county total =	0.00	398.68	0.00	398.68	0.00	392.73	413.78	806.51	0.00	791.41	413.78	1205.19	

mason county													

bit													
springfield no 5 0-1000	0.00	0.00	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.00	23.27	23.27	
county total =	0.00	0.00	0.00	0.00	0.00	0.00	23.27	23.27	0.00	0.00	23.27	23.27	

mcdonough county													

bit													
colchester no 2													
0-1000	6.31	52.49	0.00	58.80	1.11	28.01	0.00	29.12	7.42	80.50	0.00	87.92	

county total =	6.31	52.49	0.00	58.80	1.11	28.01	0.00	29.12	7.42	80.50	0.00	87.92	

mclean							county						

bit													
colchester no 2													
0-1000	0.00	82.15	0.00	82.15	0.00	214.25	0.00	214.25	0.00	296.40	0.00	296.40	

danville no 7	0.00	123.32	108.36	231.68	0.00	371.69	0.00	371.69	0.00	495.01	108.36	603.37	
0-1000	0.00	123.32	108.36	231.68	0.00	371.69	0.00	371.69	0.00	495.01	108.36	603.37	

springfield no 5	0.00	41.88	65.24	107.12	0.00	209.22	0.00	209.22	0.00	251.10	65.24	316.34	
0-1000	0.00	41.88	65.24	107.12	0.00	209.22	0.00	209.22	0.00	251.10	65.24	316.34	

county total =	0.00	247.35	173.60	420.95	0.00	795.16	0.00	795.16	0.00	1042.51	173.60	1216.11	

menard							county						

bit													
colchester no 2													
0-1000	0.00	0.00	0.00	0.00	0.00	23.78	0.00	23.78	0.00	23.78	0.00	23.78	

springfield no 5	0.00	0.00	1327.67	1327.67	0.00	38.84	501.10	539.94	0.00	38.84	1828.77	1867.61	
0-1000	0.00	0.00	1327.67	1327.67	0.00	38.84	501.10	539.94	0.00	38.84	1828.77	1867.61	

county total =	0.00	0.00	1327.67	1327.67	0.00	62.62	501.10	563.72	0.00	62.62	1828.77	1891.39	

mercer							county						

bit													
colchester no 2													
0-1000	0.00	0.00	0.00	0.00	0.00	2.88	0.00	2.88	0.00	2.88	0.00	2.88	

rock island no 1	0.00	37.57	11.57	49.14	0.00	9.81	10.31	20.12	0.00	47.38	21.88	69.26	
0-1000	0.00	37.57	11.57	49.14	0.00	9.81	10.31	20.12	0.00	47.38	21.88	69.26	

county total =	0.00	37.57	11.57	49.14	0.00	12.69	10.31	23.00	0.00	50.26	21.88	72.14	

monroe							county						

bit													
harrisburg no 5													
0-1000	0.00	0.00	0.00	0.00	0.00	4.97	0.00	4.97	0.00	4.97	0.00	4.97	

county total =	0.00	0.00	0.00	0.00	0.00	4.97	0.00	4.97	0.00	4.97	0.00	4.97	

montgomery							county						

bit													
colchester no 2													
0-1000	0.00	146.67	5.80	152.47	0.00	325.41	80.98	406.39	0.00	472.08	86.78	558.86	

danville no 7	0.00	24.97	0.00	24.97	0.00	0.00	0.00	0.00	0.00	24.97	0.00	24.97	
0-1000	0.00	24.97	0.00	24.97	0.00	0.00	0.00	0.00	0.00	24.97	0.00	24.97	

davis	0.00	53.72	0.00	53.72	0.00	79.64	0.00	79.64	0.00	133.36	0.00	133.36	
0-1000	0.00	53.72	0.00	53.72	0.00	79.64	0.00	79.64	0.00	133.36	0.00	133.36	

herrin no 6	0.00	13.93	3339.57	3353.50	0.00	39.22	351.01	390.23	0.00	53.15	3690.58	3743.73	
0-1000	0.00	13.93	3339.57	3353.50	0.00	39.22	351.01	390.23	0.00	53.15	3690.58	3743.73	

litchfield	0.00	48.49	159.71	208.20	0.00	124.25	180.97	305.22	0.00	172.74	340.68	513.42	
0-1000	0.00	48.49	159.71	208.20	0.00	124.25	180.97	305.22	0.00	172.74	340.68	513.42	

springfield no 5												
0-1000	0.00	156.18	0.00	156.18	0.00	229.84	137.79	367.63	0.00	386.02	137.79	523.81
sumnum no 4												
0-1000	0.00	0.00	38.83	38.83	0.00	0.00	47.08	47.08	0.00	0.00	85.91	85.91
county total =	0.00	443.96	3543.91	3987.87	0.00	798.36	797.83	1596.19	0.00	1242.32	4341.74	5584.06
-----morgan-----county-----												
bit												
colchester no 2												
0-1000	0.00	40.61	68.15	108.76	0.00	773.15	471.88	1245.03	0.00	813.76	540.03	1353.79
herrin no 6												
0-1000	0.00	20.20	32.78	52.98	0.00	112.60	0.00	112.60	0.00	132.80	32.78	165.58
springfield no 5												
0-1000	0.00	0.00	0.00	0.00	0.00	18.02	0.00	18.02	0.00	18.02	0.00	18.02
sumnum no 4												
0-1000	0.00	14.28	8.25	22.53	0.00	0.00	0.00	0.00	0.00	14.28	8.25	22.53
county total =	0.00	75.09	109.18	184.27	0.00	903.77	471.88	1375.65	0.00	978.86	581.06	1559.92
-----moultrie-----county-----												
bit												
herrin no 6												
0-1000	0.00	0.00	123.10	123.10	0.00	0.00	232.43	232.43	0.00	0.00	355.53	355.53
county total =	0.00	0.00	123.10	123.10	0.00	0.00	232.43	232.43	0.00	0.00	355.53	355.53
-----peoria-----county-----												
bit												
colchester no 2												
0-1000	0.00	99.55	0.00	99.55	0.00	335.27	0.00	335.27	0.00	434.82	0.00	434.82
danville no 7												
0-1000	0.00	4.02	0.00	4.02	0.00	1.36	0.00	1.36	0.00	5.38	0.00	5.38
herrin no 6												
0-1000	0.00	105.56	2.29	107.85	0.00	779.07	16.98	796.05	0.00	884.63	19.27	903.90
springfield no 5												
0-1000	0.00	99.31	356.77	456.08	0.00	290.90	246.07	536.97	0.00	390.21	602.84	993.05
county total =	0.00	308.44	359.06	667.50	0.00	1406.60	263.05	1669.65	0.00	1715.04	622.11	2337.15
-----perry-----county-----												
bit												
harrisburg no 3												
0-1000	0.00	17.59	292.06	309.65	0.00	21.14	76.53	97.67	0.00	38.73	368.59	407.32
herrin no 6												
0-1000	0.00	30.84	1695.28	1726.12	0.00	13.96	554.29	568.25	0.00	44.80	2249.57	2294.37
county total =	0.00	48.43	1987.34	2035.77	0.00	35.10	630.82	665.92	0.00	83.53	2618.16	2701.69
-----piatt-----county-----												
bit												
springfield no 5												
0-1000	0.00	0.00	0.00	0.00	0.00	10.70	0.00	10.70	0.00	10.70	0.00	10.70
county total =	0.00	0.00	0.00	0.00	0.00	10.70	0.00	10.70	0.00	10.70	0.00	10.70

-----putnam-----county-----												
bit												
colchester no 2												
0-1000	0.00	329.01	0.00	329.01	0.00	138.88	0.00	138.88	0.00	467.89	0.00	467.89
danville no 7												
0-1000	0.00	180.99	0.00	180.99	0.00	16.03	0.00	16.03	0.00	197.02	0.00	197.02
herrin no 6												
0-1000	0.00	30.18	48.69	78.87	0.00	0.00	0.00	0.00	0.00	30.18	48.69	78.87
county total =	0.00	540.18	48.69	588.87	0.00	154.91	0.00	154.91	0.00	695.09	48.69	743.78
-----randolph-----county-----												
bit												
harrisburg no 5												
0-1000	0.00	66.87	87.23	154.10	0.00	17.95	0.00	17.95	0.00	84.82	87.23	172.05
herrin no 6												
0-1000	0.00	0.87	515.54	516.41	0.00	0.00	0.00	0.00	0.00	0.87	515.54	516.41
county total =	0.00	67.74	602.77	670.51	0.00	17.95	0.00	17.95	0.00	85.69	602.77	688.46
-----richland-----county-----												
bit												
harrisburg no 5												
0-1000	0.00	0.00	0.00	0.00	0.00	495.57	436.94	932.51	0.00	495.57	436.94	932.51
herrin no 6												
0-1000	0.00	0.00	0.00	0.00	0.00	789.56	402.27	1191.83	0.00	789.56	402.27	1191.83
county total =	0.00	0.00	0.00	0.00	0.00	1285.13	839.21	2124.34	0.00	1285.13	839.21	2124.34
-----rock island-----county-----												
bit												
rock island no 1												
0-1000	0.00	6.76	32.60	39.36	0.00	22.78	0.00	22.78	0.00	29.54	32.60	62.14
county total =	0.00	6.76	32.60	39.36	0.00	22.78	0.00	22.78	0.00	29.54	32.60	62.14
-----saline-----county-----												
bit												
colchester no 2												
0-1000	0.00	2.12	5.65	7.77	0.00	0.00	0.00	0.00	0.00	2.12	5.65	7.77
davis												
0-1000	0.00	257.96	194.69	452.65	0.00	437.49	252.39	689.88	0.00	695.45	447.08	1142.53
dekoven												
0-1000	0.00	224.37	6.35	230.72	0.00	467.54	0.00	467.54	0.00	691.91	6.35	698.26
harrisburg no 5												
0-1000	0.00	0.62	1138.96	1139.58	0.00	0.00	0.00	0.00	0.00	0.62	1138.96	1139.58
herrin no 6												
0-1000	0.00	13.84	1348.14	1361.98	0.00	0.00	0.00	0.00	0.00	13.84	1348.14	1361.98
sumnum no 4												
0-1000	0.00	6.89	0.00	6.89	0.00	0.00	0.00	0.00	0.00	6.89	0.00	6.89
uncorrelated												
0-1000	0.00	3.18	0.00	3.18	0.00	0.00	0.00	0.00	0.00	3.18	0.00	3.18
county total =	0.00	508.98	2693.79	3202.77	0.00	905.03	252.39	1157.42	0.00	1414.01	2946.18	4360.19

sangamon county													
bit													
colchester no 2													
0-1000	0.00	21.50	0.00	21.50	0.00	259.30	0.00	259.30	0.00	280.80	0.00	280.80	
herrin no 6													
0-1000	0.00	78.74	1120.57	1199.31	0.00	282.32	206.75	489.07	0.00	361.06	1327.32	1688.38	
litchfield													
0-1000	0.00	0.00	4.09	4.09	0.00	0.00	0.00	0.00	0.00	0.00	4.09	4.09	
springfield no 5													
0-1000	0.00	126.56	1657.66	1784.22	0.00	480.11	802.57	1282.68	0.00	606.67	2460.23	3066.90	
county total =	0.00	226.80	2782.32	3009.12	0.00	1021.73	1009.32	2031.05	0.00	1248.53	3791.64	5040.17	
schuyler county													
bit													
colchester no 2													
0-1000	0.00	174.02	0.00	174.02	0.00	161.15	0.00	161.15	0.00	335.17	0.00	335.17	
springfield no 5													
0-1000	0.00	0.31	55.43	55.74	0.00	0.00	0.00	0.00	0.00	0.31	55.43	55.74	
county total =	0.00	174.33	55.43	229.76	0.00	161.15	0.00	161.15	0.00	335.48	55.43	390.91	
scott county													
bit													
colchester no 2													
0-1000	0.00	0.49	0.00	0.49	0.00	143.00	0.00	143.00	0.00	143.49	0.00	143.49	
county total =	0.00	0.49	0.00	0.49	0.00	143.00	0.00	143.00	0.00	143.49	0.00	143.49	
shelby county													
bit													
danville no 7													
0-1000	0.00	121.64	3.63	125.27	0.00	0.00	0.00	0.00	0.00	121.64	3.63	125.27	
herrin no 6													
0-1000	0.00	0.00	534.10	534.10	0.00	106.40	543.10	649.50	0.00	106.40	1077.20	1183.60	
springfield no 5													
0-1000	0.00	0.00	53.11	53.11	0.00	191.72	60.04	251.76	0.00	191.72	113.15	304.87	
trowbridge													
0-1000	0.00	12.43	0.00	12.43	0.00	0.00	0.00	0.00	0.00	12.43	0.00	12.43	
uncorrelated													
0-1030	0.00	0.00	0.00	0.00	0.00	6.38	0.00	6.38	0.00	6.38	0.00	6.38	
county total =	0.00	134.07	590.84	724.91	0.00	304.90	603.14	907.64	0.00	438.57	1193.98	1632.55	
st clair county													
bit													
harrisburg no 5													
0-1000	0.00	15.66	3.63	19.29	0.00	602.28	0.00	602.28	0.00	617.94	3.63	621.57	
herrin no 6													
0-1000	0.00	1.67	1865.99	1867.66	0.00	34.73	531.86	566.59	0.00	36.40	2397.85	2434.25	
county total =	0.00	17.33	1869.62	1886.95	0.00	637.01	531.86	1168.87	0.00	654.34	2401.48	3055.82	
stark county													

bit												
herrin no 6												
0-1000	0.00	8.42	39.11	47.53	0.00	338.49	5.85	344.34	0.00	346.91	44.96	391.87
county total =	0.00	8.42	39.11	47.53	0.00	338.49	5.85	344.34	0.00	346.91	44.96	391.87

tazewell county

bit												
colchester no 2												
0-1000	0.00	41.64	0.00	41.64	0.00	152.25	0.00	152.25	0.00	193.89	0.00	193.89
herrin no 6												
0-1000	0.00	0.00	0.00	0.00	0.00	3.22	0.00	3.22	0.00	3.22	0.00	3.22
springfield no 5												
0-1000	0.00	0.00	48.33	48.33	0.00	1.31	79.45	80.76	0.00	1.31	127.78	129.09
county total =	0.00	41.64	48.33	89.97	0.00	156.78	79.45	236.23	0.00	198.42	127.78	326.20

vermillion county

bit												
danville no 7												
0-1000	0.00	171.99	1031.91	1203.90	0.00	139.47	368.81	508.28	0.00	311.46	1400.72	1712.18
herrin no 6												
0-1000	0.00	70.17	603.93	674.10	0.00	28.46	0.00	28.46	0.00	98.63	603.93	702.56
indiana iii												
0-1000	0.00	28.15	16.37	44.52	0.00	0.00	0.00	0.00	0.00	28.15	16.37	44.52
county total =	0.00	270.31	1652.21	1922.52	0.00	167.93	368.81	536.74	0.00	438.24	2021.02	2459.26

wabash county

bit												
friendsville												
0-1000	0.00	24.45	0.00	24.45	0.00	75.41	0.00	75.41	0.00	99.86	0.00	99.86
harrisburg no 5												
0-1000	0.00	0.00	0.00	0.00	0.00	513.06	0.00	513.06	0.00	513.06	0.00	513.06
herrin no 6												
0-1000	0.00	0.00	0.00	0.00	0.00	575.91	0.00	575.91	0.00	575.91	0.00	575.91
county total =	0.00	24.45	0.00	24.45	0.00	1164.38	0.00	1164.38	0.00	1188.83	0.00	1188.83

warren county

bit												
colchester no 2												
0-1000	11.58	0.00	0.00	11.58	4.73	42.66	0.00	47.39	16.31	42.66	0.00	58.97
rock island no 1												
0-1000	0.00	0.79	0.00	0.79	0.00	2.33	0.00	2.33	0.00	3.12	0.00	3.12
county total =	11.58	0.79	0.00	12.37	4.73	44.99	0.00	49.72	16.31	45.78	0.00	62.09

washington county

bit												
harrisburg no 5												
0-1000	0.00	0.00	12.11	12.11	0.00	638.49	0.00	638.49	0.00	638.49	12.11	650.60
herrin no 6												
0-1000	0.00	5.04	1542.63	1547.67	0.00	97.74	1817.40	1915.14	0.00	102.78	3360.03	3462.81

county total =	0.00	5.04	1554.74	1559.78	0.00	736.23	1817.40	2553.63	0.00	741.27	3372.14	4113.41	-----

wayne				county									

bit													
harrisburg no 5													
0-1000	0.00	0.00	0.00	0.00	0.00	1542.02	158.55	1700.57	0.00	1542.02	158.55	1700.57	
herrin no 6													
0-1000	0.00	0.00	0.00	0.00	0.00	975.64	1374.15	2349.79	0.00	975.64	1374.15	2349.79	

county total =	0.00	0.00	0.00	0.00	0.00	2517.66	1532.70	4050.36	0.00	2517.66	1532.70	4050.36	-----

white				county									

bit													
davis													
0-1000	0.00	2.65	0.00	2.65	0.00	14.56	0.00	14.56	0.00	17.21	0.00	17.21	
dekoven													
0-1000	0.00	3.18	0.00	3.18	0.00	10.65	0.00	10.65	0.00	13.83	0.00	13.83	
harrisburg no 5													
0-1000	0.00	0.00	216.53	216.53	0.00	153.14	1910.04	2063.18	0.00	153.14	2126.57	2279.71	
herrin no 6													
0-1000	0.00	0.00	360.64	360.64	0.00	26.20	1977.29	2003.49	0.00	26.20	2337.93	2364.13	

county total =	0.00	5.83	577.17	583.00	0.00	304.55	3887.33	4091.88	0.00	210.38	4464.50	4674.88	-----

will				county									

bit													
colchester no 2													
0-1000	0.00	13.73	0.00	13.73	0.00	0.00	0.00	0.00	0.00	13.73	0.00	13.73	

county total =	0.00	13.73	0.00	13.73	0.00	0.00	0.00	0.00	0.00	13.73	0.00	13.73	-----

williamson				county									

bit													
bald hill													
0-1000	0.00	4.24	0.00	4.24	0.00	6.26	0.00	6.26	0.00	10.50	0.00	10.50	
davis													
0-1000	0.00	114.10	0.00	114.10	0.00	520.20	0.00	520.20	0.00	634.30	0.00	634.30	
dekoven													
0-1000	0.00	321.94	12.89	334.83	0.00	419.87	0.00	419.87	0.00	741.81	12.89	754.70	
harrisburg no 5													
0-1000	0.00	19.11	901.57	920.68	0.00	0.00	0.00	0.00	0.00	19.11	901.57	920.68	
herrin no 6													
0-1000	0.00	0.29	822.77	823.06	0.00	0.00	0.00	0.00	0.00	0.29	822.77	823.06	
murphysboro													
0-1000	0.00	5.76	45.67	51.43	0.00	57.14	42.30	99.44	0.00	62.90	87.97	150.87	
stonefort													
0-1000	0.00	0.00	4.54	4.54	0.00	0.00	0.00	0.00	0.00	0.00	4.54	4.54	
sumnum no 4													
0-1000	0.00	2.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	2.65	0.00	2.65	

county total =	0.00	468.09	1787.44	2255.53	0.00	1003.47	42.30	1045.77	0.00	1471.56	1829.74	3301.30	-----

woodford				county									

bit													

colchester no 2												
0-1000	0.00	141.84	0.00	141.84	0.00	849.00	0.00	849.00	0.00	990.84	0.00	990.84
danville no 7												
0-1000	0.00	29.80	0.00	29.80	0.00	8.76	0.00	8.76	0.00	38.56	0.00	38.56
springfield no 5												
0-1000	0.00	42.27	0.00	42.27	0.00	102.49	0.00	102.49	0.00	144.76	0.00	144.76
county total =	0.00	213.91	0.00	213.91	0.00	960.25	0.00	960.25	0.00	1174.16	0.00	1174.16
=====												
overburden												
subtotal												
0-1000	51.63	11453.00	49191.73	60696.36	27.24	41124.98	35481.48	76633.69	78.87	52577.98	84673.21	137330.04
total =	51.63	11453.01	49191.75	60696.39	27.24	41125.00	35481.49	76633.73	78.87	52578.01	84673.24	137330.12
=====												
=====												
overburden												
total												
0-1000	51.63	11453.00	49191.73	60696.36	27.24	41124.98	35481.48	76633.69	78.87	52577.98	84673.21	137330.04
grand total =	51.63	11453.01	49191.75	60696.39	27.24	41125.00	35481.49	76633.73	78.87	52578.01	84673.24	137330.12
=====												

total tonnage of identified coal resources in illinois

137330.12

resource figures taken from:

source	year	base year of resource
illinois gs bull 78	1952	original

average analyses of coal in illinois

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
=====														
bond county														

bit														
	herrin no 6	12.3	37.9	49.0	13.1	4.7	69.2	1.2	8.4	4.2	12280	2032	5	
	county average	12.3	37.9	49.0	13.1	4.7	69.2	1.2	8.4	4.2	12280	2032	5	

bureau county														

bit														
	colchester no 2	15.1	39.8	46.2	14.0	5.0	71.1	1.2	7.2	4.2	12384	1992	5	
	danville no 7	17.7	38.7	44.4	16.9	4.8	65.0	0.9	8.3	4.1	11780	2100	1	
	county average	15.5	39.6	45.9	14.5	4.9	68.1	1.1	7.7	4.2	12283	2010	6	

calhoun county														

bit														
	colchester no 2	10.6	42.7	44.3	13.0	0.0	0.0	0.0	0.0	5.6	12560		1	
	county average	10.6	42.7	44.3	13.0	0.0	0.0	0.0	0.0	5.6	12560		1	

christian county														

bit														
	herrin no 6	13.1	40.7	45.4	13.9	5.0	69.2	1.3	8.3	4.9	12130	2005	45	
	county average	13.1	40.7	45.4	13.9	5.0	69.2	1.3	8.3	4.9	12130	2005	45	

clinton county														

bit														
	herrin no 6	11.7	38.8	47.6	13.6	4.6	67.7	1.2	9.0	4.3	12114	2032	27	
	county average	11.7	38.8	47.6	13.6	4.6	67.7	1.2	9.0	4.3	12114	2032	27	

douglas county														

bit														
	herrin no 6	13.3	42.9	47.9	9.2	0.0	0.0	0.0	0.0	2.5	13131	2126	11	
	county average	13.3	42.9	47.9	9.2	0.0	0.0	0.0	0.0	2.5	13131	2126	11	

edgar county												
bit												
herrin no 6	14.8	41.3	47.3	11.4	0.0	0.0	0.0	0.0	3.3	12800		1
county average	14.8	41.3	47.3	11.4	0.0	0.0	0.0	0.0	3.3	12800		1
franklin county												
bit												
herrin no 6	8.5	36.0	53.7	10.3	4.9	73.7	1.6	9.4	1.2	12967	2346	195
county average	8.5	36.0	53.7	10.3	4.9	73.7	1.6	9.4	1.2	12967	2346	195
fulton county												
bit												
herrin no 6	15.4	40.5	49.2	10.2	5.3	76.1	1.4	8.7	3.9	12842	2092	5
springfield no 5	14.7	40.3	45.1	14.7	4.7	68.4	1.2	7.5	3.6	12151	2014	69
county average	14.7	40.3	45.3	14.4	4.8	69.1	1.2	7.6	3.6	12197	2019	74
gallatin county												
bit												
springfield no 5	5.6	37.5	50.6	12.0	5.2	75.7	1.5	7.2	3.6	12952	2091	7
county average	5.6	37.5	50.6	12.0	5.2	75.7	1.5	7.2	3.6	12952	2091	7
grundy county												
bit												
colchester no 2	15.1	40.9	48.8	10.2	5.2	73.1	1.2	8.3	3.5	12950	1990	4
danville no 7	14.2	41.7	45.6	12.7	0.0	0.0	0.0	0.0	4.7	10750	2060	1
county average	14.9	41.1	48.2	10.7	5.2	73.1	1.2	8.3	3.8	12510	2007	5
henry county												
bit												
colchester no 2	15.4	43.2	43.5	13.3	0.0	0.0	0.0	0.0	4.3	12090	1980	3
herrin no 6	19.8	37.1	47.9	15.0	4.6	66.8	0.9	7.7	5.0	11980	2080	1
rock island no 1	14.9	42.9	43.0	14.1	5.1	71.4	1.1	7.8	5.3	12360	2063	3
county average	15.8	42.2	43.9	13.9	4.9	69.1	1.0	7.8	4.8	12190	2038	7
jackson county												
bit												
colchester no 2	5.2	35.9	50.4	13.7	4.9	72.1	1.3	6.3	5.1	12650	2085	7
herrin no 6	8.8	37.5	49.3	13.2	4.9	72.4	1.3	8.8	3.1	12427	2180	35
rock island no 1	8.9	34.8	56.5	8.7	5.0	78.4	1.6	8.5	1.2	13363	2200	3
county average	8.2	37.0	50.0	13.0	4.9	73.3	1.3	7.9	3.2	12524	2166	45

jefferson county												
bit												
herrin no 6	9.1	36.8	53.1	10.2	4.9	73.9	1.6	8.9	1.3	12975	2387	28
county average	9.1	36.8	53.1	10.2	4.9	73.9	1.6	8.9	1.3	12975	2387	28
kankakee county												
bit												
colchester no 2	15.1	44.2	49.1	6.8	0.0	0.0	0.0	0.0	3.2	13415	1945	2
county average	15.1	44.2	49.1	6.8	0.0	0.0	0.0	0.0	3.2	13415	1945	2
knox county												
bit												
colchester no 2	13.9	45.3	45.1	9.7	0.0	0.0	0.0	0.0	3.1	13015		2
herrin no 6	17.6	39.8	49.3	10.8	4.8	69.5	1.0	8.0	3.5	12510	2070	2
rock island no 1	14.7	43.7	45.8	10.5	5.4	75.0	1.3	7.9	5.2	12932	2020	4
county average	15.2	43.1	46.5	10.4	5.1	72.3	1.1	7.9	4.2	12847	2036	8
la salle county												
bit												
colchester no 2	11.7	42.1	45.0	13.0	5.0	69.9	1.1	7.4	6.3	12419	1996	29
danville no 7	13.6	47.3	43.7	9.0	0.0	0.0	0.0	0.0	4.3	13130		3
county average	11.9	42.6	44.8	12.6	5.0	69.9	1.1	7.4	6.1	12486	1996	32
livingston county												
bit												
springfield no 5	12.5	38.7	44.7	16.6	4.7	67.5	1.1	6.4	3.7	12160	2030	1
county average	12.5	38.7	44.7	16.6	4.7	67.5	1.1	6.4	3.7	12160	2030	1
logan county												
bit												
springfield no 5	11.9	41.5	45.0	13.5	4.8	70.3	1.3	8.3	4.4	12176	1925	18
county average	11.9	41.5	45.0	13.5	4.8	70.3	1.3	8.3	4.4	12176	1925	18
macon county												
bit												
springfield no 5	12.8	39.8	47.0	13.2	5.0	69.0	1.4	8.7	3.9	12280	1977	4
county average	12.8	39.8	47.0	13.2	5.0	69.0	1.4	8.7	3.9	12280	1977	4

macoupin					county							
bit												
herrin no 6	12.9	41.4	46.2	12.4	5.0	68.6	1.2	9.6	4.9	12266	2018	59
county average	12.9	41.4	46.2	12.4	5.0	68.6	1.2	9.6	4.9	12266	2018	59
madison					county							
bit												
colchester no 2	12.5	40.7	47.0	12.3	0.0	0.0	0.0	0.0	6.2	12280		1
herrin no 6	11.6	41.6	44.8	13.5	5.0	69.4	1.2	8.8	4.5	12159	2036	63
county average	11.6	41.6	44.9	13.5	5.0	69.4	1.2	8.8	4.5	12161	2036	64
marion					county							
bit												
herrin no 6	10.1	40.3	45.8	13.9	5.0	68.2	1.3	8.2	4.3	12311	2037	13
county average	10.1	40.3	45.8	13.9	5.0	68.2	1.3	8.2	4.3	12311	2037	13
marshall					county							
bit												
danville no 7	14.6	39.3	43.6	17.2	4.5	65.8	1.1	7.3	4.1	11920	2040	2
county average	14.6	39.3	43.6	17.2	4.5	65.8	1.1	7.3	4.1	11920	2040	2
menard					county							
bit												
springfield no 5	14.5	40.6	47.1	12.3	5.0	70.4	1.1	7.8	3.4	12690	2010	1
county average	14.5	40.6	47.1	12.3	5.0	70.4	1.1	7.8	3.4	12690	2010	1
montgomery					county							
bit												
colchester no 2	13.2	43.3	47.2	9.6	0.0	0.0	0.0	0.0	4.3	13105		2
herrin no 6	12.9	40.7	46.6	12.7	4.8	68.6	1.3	8.7	5.0	12238	1980	23
county average	12.9	40.9	46.7	12.4	4.8	68.6	1.3	8.7	4.9	12307	1980	25
morgan					county							
bit												
colchester no 2	13.5	41.7	40.6	17.7	0.0	0.0	0.0	0.0	4.8	11870		1
county average	13.5	41.7	40.6	17.7	0.0	0.0	0.0	0.0	4.8	11870		1
peoria					county							

bit												
colchester no 2	12.3	46.0	44.5	9.5	0.0	0.0	0.0	0.0	4.5	13076		5
herrin no 6	14.4	40.0	42.1	17.9	0.0	0.0	0.0	0.0	4.4	11330	2180	1
springfield no 5	14.4	40.0	45.6	14.4	4.8	69.1	1.3	7.8	3.5	12322	1998	9
county average	13.7	42.0	45.0	13.0	4.8	69.1	1.3	7.8	3.9	12507	2017	15

perry county

bit												
herrin no 6	9.9	38.6	49.3	12.1	4.8	70.7	1.4	9.4	3.3	12478	2100	45
springfield no 5	7.9	40.4	47.4	12.3	4.8	70.7	1.3	9.1	4.5	12375	2050	4
county average	9.7	38.7	49.1	12.1	4.8	70.7	1.4	9.4	3.4	12469	2098	49

putnam county

bit												
colchester no 2	15.1	44.1	46.1	9.8	0.0	0.0	0.0	0.0	4.0	12895		2
county average	15.1	44.1	46.1	9.8	0.0	0.0	0.0	0.0	4.0	12895		2

randolph county

bit												
herrin no 6	9.9	39.3	46.3	14.5	5.1	71.2	1.3	9.8	4.0	12036	2082	22
springfield no 5	8.1	42.9	44.1	13.0	0.0	0.0	0.0	0.0	5.7	12380	2020	1
county average	9.9	39.4	46.2	14.4	5.1	71.2	1.3	9.8	4.1	12051	2078	23

saline county

bit												
davis	3.3	32.5	54.8	12.7	0.0	0.0	0.0	0.0	4.5	13120	2130	1
herrin no 6	6.8	37.4	50.8	11.9	0.0	0.0	0.0	0.0	3.7	12777	2076	9
springfield no 5	6.5	36.3	53.7	10.1	4.9	74.2	1.6	7.4	2.4	13150	2115	83
county average	6.5	36.3	53.4	10.3	4.9	74.2	1.6	7.4	2.6	13114	2113	93

sangamon county

bit												
herrin no 6	13.2	41.6	46.6	11.8	4.9	68.6	1.3	8.8	4.6	12410	2010	1
springfield no 5	13.7	39.7	46.1	14.2	4.9	68.2	1.3	8.6	4.6	12135	1954	67
county average	13.7	39.7	46.1	14.2	4.9	68.2	1.3	8.6	4.6	12139	1955	68

schuyler county

bit												
springfield no 5	12.5	39.6	45.1	15.2	0.0	0.0	0.0	0.0	5.1	12161	2026	7
county average	12.5	39.6	45.1	15.2	0.0	0.0	0.0	0.0	5.1	12161	2026	7

scott county													
bit	colchester no 2	11.7	47.8	42.0	10.2	0.0	0.0	0.0	0.0	3.2	12970	1	
	county average	11.7	47.8	42.0	10.2	0.0	0.0	0.0	0.0	3.2	12970	1	
shelby county													
bit	springfield no 5	11.2	39.7	48.2	12.1	5.0	69.0	1.4	8.5	4.0	12470	1840	1
	county average	11.2	39.7	48.2	12.1	5.0	69.0	1.4	8.5	4.0	12470	1840	1
st clair county													
bit	herrin no 6	10.0	40.2	44.9	14.9	4.9	68.8	1.2	8.2	4.5	12035	2054	129
	county average	10.0	40.2	44.9	14.9	4.9	68.8	1.2	8.2	4.5	12035	2054	129
stark county													
bit	herrin no 6	16.6	38.4	47.2	14.4	4.8	68.8	1.0	8.0	4.6	11990	2045	3
	county average	16.6	38.4	47.2	14.4	4.8	68.8	1.0	8.0	4.6	11990	2045	3
tazewell county													
bit	springfield no 5	13.9	39.3	49.1	11.6	4.9	70.6	1.4	8.2	3.5	12625	1630	2
	county average	13.9	39.3	49.1	11.6	4.9	70.6	1.4	8.2	3.5	12625	1630	2
vermillion county													
bit	danville no 7	12.0	42.4	44.9	12.6	5.1	70.9	1.3	8.3	3.7	12595	2040	23
	herrin no 6	13.7	40.9	48.4	10.6	5.1	72.4	1.4	9.0	2.5	12767	2133	8
	county average	12.5	42.0	45.8	12.1	5.1	71.9	1.3	8.8	3.4	12640	2065	31
washington county													
bit	herrin no 6	9.8	39.7	45.9	14.5	4.8	67.9	1.3	8.3	4.5	12099	2031	12
	county average	9.8	39.7	45.9	14.5	4.8	67.9	1.3	8.3	4.5	12099	2031	12
white county													

bit												
herrin no 6	8.5	38.7	51.5	9.8	4.9	72.8	1.5	7.9	3.1	13030	2060	1
county average	8.5	38.7	51.5	9.8	4.9	72.8	1.5	7.9	3.1	13030	2060	1

will county

bit												
colchester no 2	16.4	40.6	51.2	8.2	5.5	74.9	1.4	9.9	3.1	13198	2009	16
county average	16.4	40.6	51.2	8.2	5.5	74.9	1.4	9.9	3.1	13198	2009	16

williamson county

bit												
herrin no 6	8.1	35.7	53.6	10.7	4.9	73.0	1.5	8.4	1.8	12900	2323	106
springfield no 5	6.4	36.9	50.7	12.4	5.0	73.0	1.6	7.8	3.3	12690	2057	31
county average	7.8	36.0	52.9	11.1	4.9	73.0	1.5	8.3	2.1	12852	2265	137

woodford county

bit												
colchester no 2	14.3	39.3	51.7	9.0	5.2	76.7	1.4	9.0	1.7	13304	2116	5
county average	14.3	39.3	51.7	9.0	5.2	76.7	1.4	9.0	1.7	13304	2116	5

Illinois

state	county	bed	moistur	volcat	fixedc	ash	sulfur	btu	hillo	fatlo
illinois	christian	herrin no 6	***	40.3	45.0	14.7	4.8	11960	63	4.3
illinois	christian	herrin no 6	***	38.8	44.2	17.0	5.2	11570	55	4.0
illinois	christian	herrin no 6	***	37.3	43.7	19.5	5.2	11010	57	2.0
illinois	christian	herrin no 6	***	39.8	46.0	14.2	4.5	12010	59	5.0
illinois	christian	herrin no 6	***	38.6	45.8	15.6	4.8	11870	64	5.0
illinois	christian	herrin no 6	***	37.3	46.6	16.1	4.4	11930	64	4.5
illinois	clinton	herrin no 6	***	37.6	47.5	14.9	4.0	11800	0	2.3
illinois	clinton	herrin no 6	***	38.0	46.2	15.8	4.1	11700	64	3.0
illinois	douglas	herrin no 6	***	41.7	47.3	11.0	2.3	12890	0	5.3
illinois	douglas	herrin no 6	***	41.1	48.3	10.6	2.9	12950	0	4.0
illinois	douglas	herrin no 6	***	40.5	46.0	13.5	3.0	12480	0	5.0
illinois	douglas	herrin no 6	***	41.3	49.7	9.0	2.3	13240	0	2.0
illinois	douglas	herrin no 6	***	42.0	47.8	10.2	2.6	12790	56	3.3
illinois	douglas	herrin no 6	***	42.0	48.2	9.8	3.0	12810	56	2.3
illinois	franklin	herrin no 6	9.8	35.8	52.3	11.9	2.2	12640	0	5.0
illinois	franklin	herrin no 6	***	33.5	51.8	14.7	1.9	12220	0	5.0
illinois	franklin	herrin no 6	9.5	32.4	51.2	16.4	1.6	11850	0	2.3
illinois	franklin	herrin no 6	***	33.8	52.0	14.2	1.9	12290	0	4.0
illinois	franklin	herrin no 6	***	31.9	49.6	18.5	1.5	11550	0	2.3
illinois	franklin	herrin no 6	***	33.7	50.7	13.6	1.8	12320	0	4.3
illinois	franklin	herrin no 6	***	30.8	52.3	16.9	1.2	11990	0	1.0
illinois	franklin	herrin no 6	***	32.9	48.9	18.2	2.4	11650	0	2.3
illinois	franklin	herrin no 6	8.11	40.7	51.3	8.0	2.7	13310	0	3.3
illinois	franklin	herrin no 6	8.9	34.2	45.4	20.4	4.0	11410	62	5.0
illinois	franklin	herrin no 6	***	35.4	51.6	13.0	1.8	12430	52	4.0
illinois	franklin	herrin no 6	9.0	34.2	49.5	16.3	3.2	11980	0	5.0
illinois	fulton	herrin no 6	***	38.9	42.7	18.4	5.3	11290	53	2.0
illinois	fulton	springfield no 5	***	39.1	44.4	16.5	3.1	11750	64	4.3
illinois	fulton	springfield no 5	***	37.8	40.9	21.3	2.8	10930	63	4.3
illinois	fulton	springfield no 5	***	42.8	46.6	10.6	3.3	12540	56	3.0
illinois	fulton	springfield no 5	***	42.0	46.3	11.7	3.7	12310	0	4.0
illinois	fulton	springfield no 5	***	41.7	44.9	13.4	3.9	11890	0	3.3
illinois	gallatin	springfield no 5	5.9	34.8	48.1	17.1	4.5	12010	62	6.0
illinois	jackson	herrin no 6	8.7	33.0	44.4	22.6	3.0	10870	0	2.3
illinois	jackson	herrin no 6	8.9	33.3	41.6	25.1	3.7	10390	0	4.0
illinois	jackson	herrin no 6	***	29.0	43.2	27.8	1.4	10070	0	1.0
illinois	jackson	herrin no 6	***	28.7	40.8	30.5	1.7	9710	0	1.0
illinois	jefferson	herrin no 6	***	33.9	52.4	13.7	1.5	12410	0	4.3
illinois	jefferson	herrin no 6	***	32.4	54.6	13.0	1.2	12480	0	2.3
illinois	jefferson	herrin no 6	***	36.0	51.8	12.2	1.2	12650	0	3.3
illinois	knox	herrin no 6	***	40.5	50.6	8.9	3.1	12590	56	1.0

continued.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
illinois	logan	springfield no 5	***	41.2	47.0	16.8	4.3	11710	62	3.5
illinois	macoupin	herrin no 6	***	39.8	43.1	17.1	5.3	11540	0	2.5
illinois	macoupin	herrin no 6	4.3	42.3	44.4	13.3	5.7	11900	0	4.5
illinois	macoupin	herrin no 6	***	47.4	47.0	12.6	4.9	12230	66	4.0
illinois	macoupin	herrin no 6	***	39.8	45.8	14.4	5.0	11940	65	5.5
illinois	macoupin	herrin no 6	***	39.5	45.6	14.9	5.2	11760	0	4.0
illinois	madison	herrin no 6	***	38.6	44.7	16.7	4.2	11570	0	3.5
illinois	madison	herrin no 6	***	40.0	43.0	17.0	4.2	11580	0	4.0
illinois	madison	herrin no 6	***	37.6	41.1	21.3	4.7	10820	0	3.0
illinois	madison	herrin no 6	***	39.8	41.4	18.8	5.1	11370	58	4.5
illinois	marion	herrin no 6	***	38.5	45.6	15.9	3.9	12090	58	5.0
illinois	marion	herrin no 6	***	38.4	43.6	18.0	4.3	11580	65	4.5
illinois	marion	herrin no 6	9.7	40.2	44.7	15.1	5.0	12070	64	5.0
illinois	montgomery	herrin no 6	***	41.1	47.5	11.4	4.0	12190	57	3.5
illinois	montgomery	herrin no 6	***	37.2	47.1	15.7	4.5	11700	0	3.5
illinois	peoria	herrin no 6	***	40.0	42.1	17.9	4.4	11330	59	3.0
illinois	perry	herrin no 6	9.3	37.3	46.1	16.6	4.2	11640	0	3.5
illinois	perry	herrin no 6	9.5	37.7	47.1	15.2	4.5	12030	60	4.5
illinois	perry	herrin no 6	9.1	39.7	47.0	13.3	3.4	12190	54	3.5
illinois	perry	springfield no 5	7.2	41.8	48.0	10.2	3.9	12610	60	3.0
illinois	randolph	springfield no 5	8.1	42.9	44.1	13.0	5.7	12380	0	4.0
illinois	randolph	herrin no 6	***	38.7	44.2	17.1	4.8	11510	59	4.5
illinois	randolph	herrin no 6	***	39.6	45.7	14.7	4.1	11910	60	4.0
illinois	randolph	herrin no 6	9.1	37.5	41.0	21.5	4.2	10790	54	3.5
illinois	randolph	herrin no 6	8.5	40.4	45.0	14.6	4.6	11850	54	2.5
illinois	randolph	herrin no 6	***	38.4	46.2	15.4	4.2	11890	58	4.0
illinois	st clair	herrin no 6	***	35.3	39.6	25.1	4.0	10090	0	4.0
illinois	st clair	herrin no 6	***	39.3	43.0	17.7	4.8	11510	0	5.0
illinois	st clair	herrin no 6	***	37.6	44.1	18.3	4.5	11420	61	5.0
illinois	st clair	herrin no 6	***	36.9	44.3	18.8	5.2	11470	63	4.5
illinois	st clair	herrin no 6	9.1	41.4	42.1	16.5	6.2	11560	57	4.5
illinois	st clair	herrin no 6	9.0	40.6	48.8	10.6	3.6	11820	55	4.5
illinois	st clair	herrin no 6	***	35.5	41.2	23.3	4.6	10520	0	3.0
illinois	saline	springfield no 5	8.3	33.1	50.8	16.1	2.8	12090	0	5.0
illinois	saline	davis	3.3	32.5	54.8	12.7	4.5	13120	65	8.0
illinois	saline	springfield no 5	7.2	33.0	50.1	16.9	2.7	12070	62	6.0
illinois	saline	springfield no 5	8.0	33.4	52.5	14.1	2.7	12530	62	6.0
illinois	sangamon	springfield no 5	***	40.3	44.6	15.1	4.5	11840	64	4.5
illinois	sangamon	springfield no 5	***	39.0	44.7	16.3	4.7	11760	0	4.5
illinois	sangamon	springfield no 5	***	39.4	44.7	15.9	4.6	11750	67	4.0
illinois	sangamon	springfield no 5	***	39.6	46.4	14.0	4.7	12150	60	4.5
illinois	stark	herrin no 6	***	37.5	44.5	18.0	4.3	11120	58	3.5
illinois	washington	herrin no 6	***	40.2	45.7	14.1	4.8	12120	59	4.5
illinois	will	colchester no 2	***	36.9	47.1	16.0	3.9	11870	0	3.0
illinois	will	colchester no 2	***	35.3	48.5	16.2	3.7	11910	0	2.0
illinois	williamson	springfield no 5	7.2	32.8	45.2	22.0	3.0	10870	0	4.0
illinois	williamson	herrin no 6	7.9	37.5	50.7	11.8	3.5	12720	57	3.5
illinois	williamson	herrin no 6	6.9	36.5	48.8	14.7	4.2	12260	58	5.0
illinois	williamson	herrin no 6	7.3	36.8	47.4	13.8	2.5	12490	60	5.0
illinois	williamson	herrin no 6	***	31.7	51.0	17.3	1.1	11830	0	2.5

state	county	ben	anistur	volmat	fixedc	ash	sulfur	otu	hgilt	fatlo
illinois	williamson	herrin no 6	***	50.6	52.1	17.3	1.4	11790	0	1.0
illinois	williamson	herrin no 6	***	50.5	51.5	18.0	1.6	11700	0	1.5
illinois	williamson	springfield no 5	7.6	52.7	45.3	22.0	3.5	10960	0	4.0
illinois	williamson	herrin no 6	5.5	58.7	48.6	12.7	3.4	12610	59	5.0
illinois	williamson	herrin no 6	4.1	56.2	50.1	13.7	3.1	12350	0	5.3
illinois	williamson	herrin no 6	6.2	59.4	49.9	10.8	3.3	12830	60	5.5
illinois	williamson	herrin no 6	9.4	56.4	49.5	14.1	4.2	12390	0	5.0
illinois	williamson	herrin no 6	8.1	59.1	49.8	11.1	3.4	12990	0	5.3
illinois	williamson	herrin no 6	8.6	55.3	53.2	11.5	1.9	12830	60	5.5
illinois	williamson	herrin no 6	7.9	55.2	51.4	13.4	2.7	12450	54	4.5
illinois	williamson	herrin no 6	7.6	59.1	50.2	10.7	3.6	12820	56	5.5

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
clay				county								
bit												
nde												
strippable	3.45	6.94	163.97	174.36	4.37	12.92	39.10	56.39	7.82	19.86	203.07	230.75
strip-1000	0.02	0.11	81.18	81.31	0.00	0.00	109.48	109.48	0.02	0.11	190.66	190.79
county total =	3.47	7.05	245.15	255.67	4.37	12.92	148.58	165.87	7.84	19.97	393.73	421.54
daviess				county								
bit												
nde												
strippable	56.30	114.37	88.63	259.30	8.17	1.41	25.18	34.76	64.47	115.78	113.81	294.06
strip-1000	133.00	193.82	128.15	454.97	5.94	7.13	106.29	119.36	138.94	200.95	234.44	574.33
county total =	189.30	308.19	216.78	714.27	14.11	8.54	131.47	154.12	203.41	316.73	348.25	868.39
dubois				county								
bit												
nde												
strip-1000	51.34	95.81	27.13	174.28	0.00	0.00	0.00	0.00	51.34	95.81	27.13	174.28
county total =	51.34	95.81	27.13	174.28	0.00	0.00	0.00	0.00	51.34	95.81	27.13	174.28
gibson				county								
bit												
nde												
strippable	11.50	32.94	46.06	90.50	3.79	20.14	31.99	55.92	15.29	53.08	78.05	146.42
strip-1000	56.18	178.51	1146.90	1381.59	173.23	550.13	2323.99	3047.35	229.41	728.64	3470.89	4428.94
county total =	67.68	211.45	1192.96	1472.09	177.02	570.27	2355.98	3103.27	244.70	781.72	3548.94	4575.36
green				county								
bit												
nde												
strippable	8.47	13.14	322.39	344.00	19.94	13.88	106.92	140.74	28.41	27.02	429.31	484.74
strip-1000	0.00	0.00	251.25	251.25	0.00	0.00	246.14	246.14	0.00	0.00	497.39	497.39
county total =	8.47	13.14	573.64	595.25	19.94	13.88	353.06	386.88	28.41	27.02	926.70	982.13
knox				county								

bit													
nde													
strippable	16.44	13.74	45.46	75.64	1.35	3.08	4.47	8.90	17.79	16.82	49.93	84.54	
strip-1000	431.70	619.17	1588.00	2638.87	139.39	768.63	2018.03	2926.05	571.09	1387.80	3606.03	5564.92	

county total =	448.14	632.91	1633.46	2714.51	140.74	771.71	2022.50	2934.95	588.88	1404.62	3655.96	5649.46	

martin							county						

bit													
nde													
strip-1000	73.87	98.76	23.98	196.61	0.00	0.00	0.00	0.00	73.87	98.76	23.98	196.61	

county total =	73.87	98.76	23.98	196.61	0.00	0.00	0.00	0.00	73.87	98.76	23.98	196.61	

owen							county						

bit													
nde													
strippable	4.32	13.76	3.59	21.67	2.20	7.92	0.00	10.12	6.52	21.68	3.59	31.79	

county total =	4.32	13.76	3.59	21.67	2.20	7.92	0.00	10.12	6.52	21.68	3.59	31.79	

parke							county						

bit													
nde													
strippable	0.00	0.00	82.06	82.06	0.00	0.00	0.00	0.00	0.00	0.00	82.06	82.06	
strip-1000	0.00	0.17	105.52	105.69	0.00	0.00	112.57	112.57	0.00	0.17	218.09	218.26	

county total =	0.00	0.17	187.58	187.75	0.00	0.00	112.57	112.57	0.00	0.17	300.15	300.32	

perry							county						

bit													
nde													
strip-1000	25.45	27.37	6.38	59.20	0.00	0.00	0.00	0.00	25.45	27.37	6.38	59.20	

county total =	25.45	27.37	6.38	59.20	0.00	0.00	0.00	0.00	25.45	27.37	6.38	59.20	

pike							county						

bit													
nde													
strippable	4.95	25.31	377.13	407.39	0.00	0.47	33.27	33.74	4.95	25.78	410.40	441.13	
strip-1000	17.37	37.31	250.50	305.18	39.22	80.06	313.33	432.61	56.59	117.37	563.83	737.79	

county total =	22.32	62.62	627.63	712.57	39.22	80.53	346.60	466.35	61.54	143.15	974.23	1178.92	

posey							county						

bit													
nde													
strip-1000	21.77	98.69	572.15	692.61	96.59	613.93	3990.31	4700.83	118.36	712.62	4562.46	5393.44	

county total =	21.77	98.69	572.15	692.61	96.59	613.93	3990.31	4700.83	118.36	712.62	4562.46	5393.44	

spencer							county						

bit													
nde													
	strippable	43.03	58.35	24.34	125.72	0.00	0.00	0.00	0.00	43.03	58.35	24.34	125.72
	strip-1000	36.63	61.12	26.90	124.65	0.00	0.00	0.00	0.00	36.63	61.12	26.90	124.65
	county total =	79.66	119.47	51.24	250.37	0.00	0.00	0.00	0.00	79.66	119.47	51.24	250.37
	sullivan												
	county												
bit													
nde													
	strippable	3.25	170.36	276.39	450.00	0.00	29.20	32.15	61.35	3.25	199.56	308.54	511.35
	strip-1000	98.00	286.50	1812.27	2196.77	331.36	2022.80	2563.51	4917.67	429.36	2309.30	4375.78	7114.44
	county total =	101.25	456.86	2088.66	2646.77	331.36	2052.00	2595.66	4979.02	432.61	2508.86	4684.32	7625.79
	vanderburgh												
	county												
bit													
nde													
	strip-1000	29.59	75.56	413.18	518.33	180.03	421.12	1066.45	1667.60	209.62	496.68	1479.63	2185.93
	county total =	29.59	75.56	413.18	518.33	180.03	421.12	1066.45	1667.60	209.62	496.68	1479.63	2185.93
	vermillion												
	county												
bit													
nde													
	strippable	0.04	0.88	51.74	52.66	0.00	0.00	8.58	8.58	0.04	0.88	60.32	61.24
	strip-1000	7.37	10.00	478.88	496.25	2.59	5.04	657.52	665.15	9.96	15.04	1136.40	1161.40
	county total =	7.41	10.88	530.62	548.91	2.59	5.04	666.10	673.73	10.00	15.92	1196.72	1222.64
	vigo												
	county												
bit													
nde													
	strippable	2.70	91.93	319.55	414.18	0.00	19.40	28.39	47.79	2.70	111.33	347.94	461.97
	strip-1000	25.68	131.36	1521.17	1678.21	90.26	358.36	1902.71	2351.33	115.94	489.72	3423.88	4029.54
	county total =	28.38	223.29	1840.72	2092.39	90.26	377.76	1931.10	2399.12	118.64	601.05	3771.82	4491.51
	warrick												
	county												
bit													
nde													
	strippable	28.86	72.11	443.03	544.00	1.21	3.22	19.97	24.40	30.07	75.33	463.00	568.40
	strip-1000	23.43	115.26	476.45	615.14	26.25	50.20	425.41	501.86	49.68	165.46	901.86	1117.00
	county total =	52.29	187.37	919.48	1159.14	27.46	53.42	445.38	526.26	79.75	240.79	1364.86	1685.40
	overburden												
	subtotal												
	strippable	183.31	613.83	2244.34	3041.48	41.03	111.64	330.02	482.69	224.34	725.47	2574.36	3524.17
	strip-1000	1031.40	2029.52	8909.99	11970.91	1084.86	4877.40	15835.74	21798.00	2116.26	6906.92	24745.73	33768.91
	total =	1214.71	2643.35	11154.33	15012.39	1125.89	4989.04	16165.76	22280.69	2340.60	7632.39	27320.09	37293.08

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overburden
total
  strippable 183.31 613.83 2244.34 3041.48 41.03 111.64 330.02 482.69 224.34 725.47 2574.36 3524.17
  strip-1000 1031.40 2029.52 8909.99 11970.91 1084.86 4877.40 15835.74 21798.00 2116.26 6906.92 24745.73 33768.91
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grand total = 1214.71 2643.35 11154.33 15012.39 1125.89 4989.04 16165.76 22280.69 2340.60 7632.39 27320.09 37293.08
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total tonnage of identified coal resources in indiana

37293.08

resource figures taken from:

source	year	base year of resource
usgs circ 266	1953	original

average analyses of coal in indiana

proximate analysis (percent)													
ultimate analysis (percent)													
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
clay					county								
bit													
	seelyville	10.2	44.8	44.5	10.7	0.0	0.0	0.0	0.0	4.6	12837	2071	19
	seelyville & survant	13.1	43.0	46.3	10.7	5.3	72.2	1.3	8.3	3.8	12930	2133	3
	springfield	11.9	43.3	46.3	10.4	0.0	0.0	0.0	0.0	3.8	12993	2250	3
	servant	14.2	38.1	50.0	11.9	0.0	0.0	0.0	0.0	1.9	12780	2665	2
	upper block	16.3	37.9	53.4	8.7	5.4	77.5	1.4	8.7	1.5	13372	2569	41
	county average	14.2	40.3	50.2	9.5	5.3	74.8	1.4	0.5	2.6	13160	2399	68
fountain					county								
bit													
	buffaloville	13.1	45.0	44.1	10.9	0.0	0.0	0.0	0.0	3.6	12998	2060	5
	county average	13.1	45.0	44.1	10.9	0.0	0.0	0.0	0.0	3.6	12998	2060	5
gibson					county								
bit													
	hymera	16.2	36.4	46.0	17.6	0.0	0.0	0.0	0.0	2.0	11390		1
	springfield	10.5	38.9	50.7	10.4	0.0	0.0	0.0	0.0	3.4	12937	2037	19
	county average	10.8	38.8	50.4	10.7	0.0	0.0	0.0	0.0	3.3	12860	2037	20
greene					county								
bit													
	danville	14.3	39.7	48.9	11.4	0.0	0.0	0.0	0.0	1.5	12840	2570	1
	houchin creek	10.9	45.0	46.4	8.6	0.0	0.0	0.0	0.0	3.0	13456	2343	3
	hymera	14.4	38.7	50.0	11.3	0.0	0.0	0.0	0.0	2.4	12781	2116	7
	seelyville	10.6	43.0	47.0	10.0	0.0	0.0	0.0	0.0	4.6	13041	2250	11
	springfield	10.9	40.6	48.8	10.6	0.0	0.0	0.0	0.0	3.5	12900	2090	1
	servant	14.1	40.2	49.1	10.6	5.2	74.9	1.8	9.1	2.0	13021	2422	18
	county average	12.9	41.1	48.5	10.5	5.2	74.9	1.8	9.1	2.9	13010	2339	41
knox					county								
bit													
	hymera	12.7	38.7	48.7	12.6	4.9	70.2	1.5	8.2	3.1	12579	2224	20
	springfield	10.2	40.8	47.1	12.1	0.0	0.0	0.0	0.0	4.7	12693	2060	17
	county average	11.6	39.7	48.0	12.4	4.9	70.2	1.5	8.2	3.8	12631	2154	37

owen county												
bit												
lower block	13.0	40.7	49.1	10.2	0.0	0.0	0.0	0.0	4.2	13283	2090	3
upper block	14.5	39.8	53.9	6.2	0.0	0.0	0.0	0.0	1.3	13781	2693	6
county average	14.0	40.1	52.3	7.6	0.0	0.0	0.0	0.0	2.3	13615	2391	9
pike county												
bit												
hymera	14.9	39.7	50.9	9.4	0.0	0.0	0.0	0.0	2.1	13296	2325	6
springfield	10.2	41.6	48.2	10.2	0.0	0.0	0.0	0.0	3.7	12959	2166	162
survant&springfield	12.3	42.9	46.5	10.6	0.0	0.0	0.0	0.0	4.7	12867	2078	7
various	8.9	43.0	47.2	9.8	0.0	0.0	0.0	0.0	3.9	12958	2042	5
county average	10.4	41.6	48.2	10.2	0.0	0.0	0.0	0.0	3.7	12966	2161	180
spencer county												
bit												
buffaloville	10.8	45.3	44.8	9.9	0.0	0.0	0.0	0.0	5.9	13010	2050	1
county average	10.8	45.3	44.8	9.9	0.0	0.0	0.0	0.0	5.9	13010	2050	1
sullivan county												
bit												
danville	13.7	38.0	51.7	10.4	0.0	0.0	0.0	0.0	1.0	12937	2610	4
hymera	12.4	40.8	47.7	11.4	5.2	74.2	1.6	8.5	2.7	12738	2139	22
springfield	14.0	38.1	53.7	8.2	5.2	76.7	1.7	9.4	1.2	13337	2493	32
county average	13.4	39.1	51.3	9.6	5.2	75.4	1.6	8.9	1.8	13082	2366	58
vanderburgh county												
bit												
springfield	10.3	38.5	48.1	13.4	0.0	0.0	0.0	0.0	3.5	12360	2066	5
county average	10.3	38.5	48.1	13.4	0.0	0.0	0.0	0.0	3.5	12360	2066	5
vermillion county												
bit												
hymera	11.9	42.6	46.2	11.2	0.0	0.0	0.0	0.0	3.0	12820	2070	22
springfield	11.0	43.7	43.7	12.6	5.2	71.0	1.3	7.9	4.3	12577	1991	14
survant	12.7	38.1	51.6	10.3	0.0	0.0	0.0	0.0	0.9	13080	2632	4
county average	11.6	42.5	45.9	11.6	5.2	71.0	1.3	7.9	3.3	12761	2115	40
vigo county												

bit												
danville	14.1	42.0	48.6	9.4	0.0	0.0	0.0	0.0	1.3	13030	2370	2
hymera	13.1	43.8	46.0	10.2	5.2	72.1	1.4	8.7	3.7	12966	1996	3
seelyville	10.9	41.1	45.9	13.1	0.0	0.0	0.0	0.0	4.0	12522	2131	12
springfield	11.3	42.1	43.9	13.9	4.9	67.5	1.3	7.1	4.2	12335	2052	30
survant	12.1	39.3	50.2	10.5	5.3	72.8	1.6	9.0	1.4	12954	2471	45
county average	11.8	40.7	47.4	11.9	5.1	70.0	1.4	8.0	2.7	12698	2218	92

warrick county

bit												
danville	14.9	36.0	55.4	8.6	0.0	0.0	0.0	0.0	0.9	12982	2677	4
hymera	11.3	39.8	50.6	9.6	5.1	75.4	1.5	10.1	3.1	12792	2317	5
springfield	10.4	41.5	47.4	11.1	5.1	71.5	1.3	8.3	4.4	12703	2066	64
county average	10.7	41.1	48.0	10.8	5.1	72.8	1.4	8.9	4.1	12725	2124	73

Indiana

state	county	bed	moistur	volmat	fixedc	ash	sulfur	ntu	hgilo	fello
indiana	clay	seelyville & servant	***	40.5	46.4	13.1	4.0	12510	60	5.5
indiana	clay	seelyville	8.5	43.0	45.0	12.0	4.4	12390	0	2.0
indiana	clay	upper block	***	35.7	44.9	19.4	5.3	11570	0	1.0
indiana	clay	upper block	***	32.9	54.8	12.3	1.7	12820	0	1.0
indiana	clay	upper block	***	32.1	57.1	10.8	1.6	13020	0	1.0
indiana	fountain	buffaloville	***	39.8	42.8	17.4	4.9	11910	0	4.0
indiana	gibson	springfield	***	35.5	51.4	13.1	2.4	12520	0	4.0
indiana	gibson	springfield	9.9	39.9	53.5	6.6	2.1	13500	0	4.0
indiana	gibson	springfield	***	37.5	45.5	17.0	4.5	11680	0	4.5
indiana	gibson	springfield	***	40.7	49.2	10.1	4.3	13100	0	4.0
indiana	greene	springfield	***	40.6	48.8	10.6	3.5	12900	51	4.0
indiana	greene	seelyville	9.6	42.5	45.9	11.6	6.4	12580	51	2.5
indiana	greene	seelyville	8.6	41.3	43.4	15.3	7.8	11980	55	3.5
indiana	owen	upper block	***	37.5	54.9	7.6	2.6	13480	49	4.0
indiana	pike	springfield	9.2	40.7	49.0	10.3	4.7	12710	53	6.0
indiana	pike	springfield	***	39.6	51.3	9.1	3.1	13230	64	3.5
indiana	pike	springfield	***	40.6	45.3	14.1	4.9	12270	0	5.0
indiana	pike	springfield	***	37.6	49.7	12.7	3.5	12600	0	3.0
indiana	pike	springfield	***	34.4	56.4	9.2	1.4	13200	0	4.5
indiana	pike	various	***	42.9	46.9	10.2	4.2	12900	0	4.5
indiana	pike	various	7.4	43.2	47.0	9.8	4.2	12970	0	4.5
indiana	pike	servant&springfield	***	39.6	46.6	13.8	6.0	12250	0	4.0
indiana	pike	servant&springfield	***	40.4	47.9	11.7	5.2	12710	0	5.0
indiana	pike	springfield	8.8	44.8	47.3	7.9	3.1	13260	0	3.0
indiana	pike	springfield	***	39.0	46.1	14.9	4.7	12100	0	5.0
indiana	pike	springfield	9.2	41.5	47.1	11.4	4.4	12590	0	5.0
indiana	pike	springfield	9.4	42.5	48.7	8.8	3.4	13050	0	3.0
indiana	pike	springfield	9.1	40.9	49.1	10.0	4.0	12860	56	3.0
indiana	pike	springfield	***	43.9	48.1	8.0	3.4	13400	60	4.0
indiana	pike	hymers	***	38.8	51.1	10.1	2.2	12930	0	4.5
indiana	spencer	buffaloville	***	45.3	44.8	9.9	5.9	13010	0	2.0
indiana	sullivan	hymers	***	37.9	44.7	17.4	3.0	11810	57	3.5
indiana	sullivan	danville	***	36.0	54.0	10.0	0.7	12950	52	4.0
indiana	sullivan	hymers	***	38.8	44.3	16.9	3.3	11890	52	3.5
indiana	sullivan	danville	***	39.4	49.9	10.7	1.9	12850	0	5.5
indiana	sullivan	hymers	***	38.2	46.2	15.6	2.8	11870	0	3.5
indiana	sullivan	hymers	***	37.7	42.3	20.0	3.1	11320	0	3.0
indiana	vermillion	springfield	***	40.3	43.3	16.4	4.6	11660	64	4.5
indiana	vermillion	springfield	***	38.6	42.2	19.2	4.7	11500	67	5.0

continued.....

state	county	bed	moisture	volatile	fixed	ash	sulfur	btu	heilo	felto
indiana	vermillion	hymers	***	39.4	45.8	14.8	3.6	12170	63	5.5
indiana	vermillion	hymers	***	39.1	45.0	12.9	3.5	11560	52	3.5
indiana	vigo	Janville	***	39.6	47.7	12.7	1.6	12460	0	4.0
indiana	vigo	seelyville	***	34.8	41.3	23.9	5.6	10740	0	3.5
indiana	vigo	hymers	***	43.5	46.5	10.0	4.4	12990	61	3.5
indiana	vigo	springfield	***	41.3	43.1	15.6	5.0	11980	0	5.0
indiana	vigo	survant	***	32.3	51.8	10.9	1.0	12840	66	5.5
indiana	vigo	hymers	***	41.9	46.4	9.7	2.9	13060	59	5.0
indiana	vigo	seelyville	***	38.3	44.5	16.7	5.5	11850	66	5.0
indiana	vigo	springfield	***	38.8	40.2	21.0	4.7	11080	0	5.5
indiana	vigo	springfield	***	42.1	41.8	16.1	4.5	11880	0	3.0
indiana	vigo	springfield	***	40.8	42.6	16.6	5.2	11820	0	3.5
indiana	vigo	springfield	***	39.8	42.1	18.1	4.7	11750	0	4.5
indiana	vigo	springfield	9.8	44.5	42.1	14.4	5.5	12420	61	3.0
indiana	vigo	springfield	***	42.9	43.1	14.0	4.5	12480	57	3.5
indiana	warrick	springfield	***	38.2	50.4	11.4	3.3	12400	64	1.0
indiana	warrick	springfield	9.6	43.1	44.4	12.5	4.7	12420	61	4.5
indiana	warrick	springfield	9.9	41.6	45.2	13.2	5.2	12240	0	4.0
indiana	warrick	springfield	***	40.8	47.6	11.6	4.7	12390	0	4.0
indiana	warrick	hymers	***	40.8	47.7	11.5	3.8	12560	57	2.5
indiana	warrick	springfield	9.5	41.5	44.6	13.9	4.3	12190	0	3.5
indiana	warrick	hymers	9.0	39.9	47.9	12.2	3.9	12270	51	3.0
indiana	warrick	hymers	9.6	41.9	45.1	13.0	4.3	12020	50	2.5
indiana	warrick	springfield	***	39.1	48.5	12.4	4.2	12450	62	4.0
indiana	warrick	springfield	***	39.1	48.6	12.3	4.5	12500	54	4.5

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
adair county												
bit uncorrelated 0-1000	2.02	0.00	0.00	2.02	6.59	0.00	0.00	6.59	8.61	0.00	0.00	8.61
whitebreast 0-1000	0.09	0.00	0.00	0.09	0.53	0.00	0.00	0.53	0.62	0.00	0.00	0.62
county total =	2.11	0.00	0.00	2.11	7.12	0.00	0.00	7.12	9.23	0.00	0.00	9.23
adams county												
bit nodaway 0-1000	34.81	0.00	0.00	34.81	86.50	0.00	0.00	86.50	121.31	0.00	0.00	121.31
county total =	34.81	0.00	0.00	34.81	86.50	0.00	0.00	86.50	121.31	0.00	0.00	121.31
appanoose county												
bit mystic 0-1000	39.45	157.43	0.00	196.88	113.70	369.63	0.00	483.33	153.15	527.06	0.00	680.21
county total =	39.45	157.43	0.00	196.88	113.70	369.63	0.00	483.33	153.15	527.06	0.00	680.21
boone county												
bit hastie 0-1000	5.98	16.31	11.61	33.90	3.15	4.59	0.12	7.86	9.13	20.90	11.73	41.76
hastie plus 0-1000	9.23	12.99	13.01	35.23	9.13	8.61	1.19	18.93	18.36	21.60	14.20	54.16
manbeck 0-1000	18.80	44.44	14.17	77.41	25.58	20.09	7.55	53.22	44.38	64.53	21.72	130.63
monterville 0-1000	2.77	0.03	0.00	2.80	2.49	0.00	0.00	2.49	5.26	0.03	0.00	5.29
uncorrelated 0-1000	1.39	2.97	5.11	9.47	0.00	0.15	2.33	2.48	1.39	3.12	7.44	11.95
county total =	38.17	76.74	43.90	158.81	40.35	33.44	11.19	84.98	78.52	110.18	55.09	243.79
cass county												
bit												

nodaway 0-1000	0.00	0.00	0.37	0.37	2.79	0.00	0.00	2.79	2.79	0.00	0.37	3.16
county total =	0.00	0.00	0.37	0.37	2.79	0.00	0.00	2.79	2.79	0.00	0.37	3.16

clarke county												

bit lower coal ford coal 0-1000	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.42	0.00	0.42	0.00	0.42
county total =	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.42	0.00	0.42	0.00	0.42

dallas county												

bit bevier wheeler 0-1000	0.56	0.00	0.00	0.56	0.94	0.00	0.00	0.94	1.50	0.00	0.00	1.50
hastie 0-1000	7.63	15.04	11.53	34.20	8.94	8.25	1.62	18.81	16.57	23.29	13.15	53.01
hastie plus 0-1000	2.78	2.86	0.55	6.19	0.00	0.00	0.00	0.00	2.78	2.86	0.55	6.19
lonsdale 0-1000	0.72	0.00	0.00	0.72	1.09	0.00	0.00	1.09	1.81	0.00	0.00	1.81
lower coal ford coal 0-1000	1.06	3.53	1.08	5.67	2.91	0.97	2.90	6.78	3.97	4.50	3.98	12.45
lower mystic 0-1000	0.95	1.75	0.00	2.70	5.01	1.06	0.00	6.07	5.96	2.81	0.00	8.77
monterville 0-1000	1.77	0.24	1.38	3.39	5.32	1.53	1.73	8.58	7.09	1.77	3.11	11.97
mystic 0-1000	0.35	0.00	0.92	1.27	0.04	0.69	2.76	3.49	0.39	0.69	3.68	4.76
no 5 0-1000	0.28	0.00	0.00	0.28	0.00	0.00	0.55	0.55	0.28	0.00	0.55	0.83
uncorrelated 0-1000	2.32	8.52	2.33	13.17	8.06	16.97	2.90	27.93	10.38	25.49	5.23	41.10
whitebreast 0-1000	1.64	0.70	0.00	2.34	2.78	2.07	0.00	4.85	4.42	2.77	0.00	7.19
county total =	20.06	32.64	17.79	70.49	35.09	31.54	12.46	79.09	55.15	64.18	30.25	149.58

davis county												

bit cliffland 0-1000	1.40	2.83	3.47	7.70	4.03	6.08	10.72	20.83	5.43	8.91	14.19	28.53
laddsdale 0-1000	0.90	8.76	20.06	29.72	2.47	15.83	25.42	43.72	3.37	24.59	45.48	73.44
uncorrelated 0-1000	1.05	1.83	0.00	2.88	3.02	4.31	0.00	7.33	4.07	6.14	0.00	10.21
whitebreast 0-1000	0.00	0.66	0.00	0.66	0.87	0.00	0.00	0.87	0.87	0.66	0.00	1.53
county total =	3.35	14.08	23.53	40.96	10.39	26.22	36.14	72.75	13.74	40.30	59.67	113.71

decatur county												

bit bevier 0-1000	3.33	2.17	14.97	20.47	18.69	4.08	64.37	87.14	22.02	6.25	79.34	107.61

bit													
uncorrelated	0-1000	0.57	1.35	4.82	6.74	0.66	1.31	11.75	13.72	1.23	2.66	16.57	20.46
whitebreast	0-1000	2.50	2.06	8.11	12.67	18.00	13.94	39.68	71.62	20.50	16.00	47.79	84.29

county total =		6.40	5.58	27.90	39.88	37.35	19.33	115.80	172.48	43.75	24.91	143.70	212.36

fremont county													

bit													
nodaway	0-1000	1.33	0.00	0.00	1.33	10.00	0.00	0.00	10.00	11.33	0.00	0.00	11.33

county total =		1.33	0.00	0.00	1.33	10.00	0.00	0.00	10.00	11.33	0.00	0.00	11.33

greene county													

bit													
uncorrelated	0-1000	3.47	5.79	7.55	16.81	12.47	12.79	4.43	29.69	15.94	18.58	11.98	46.50

county total =		3.47	5.79	7.55	16.81	12.47	12.79	4.43	29.69	15.94	18.58	11.98	46.50

guthrie county													

bit													
bevier	0-1000	0.33	0.00	0.00	0.33	0.48	0.00	0.00	0.48	0.81	0.00	0.00	0.81
lonsdale	0-1000	5.54	0.00	0.00	5.54	6.64	0.00	0.00	6.64	12.18	0.00	0.00	12.18
lower coal ford coal	0-1000	0.00	0.00	2.30	2.30	0.00	0.00	6.92	6.92	0.00	0.00	9.22	9.22
lower mystic	0-1000	1.89	0.00	0.00	1.89	1.77	0.00	0.00	1.77	3.66	0.00	0.00	3.66
monterville	0-1000	9.14	0.00	0.92	10.06	4.97	0.00	2.77	7.74	14.11	0.00	3.69	17.80
uncorrelated	0-1000	1.19	0.21	0.00	1.40	0.79	0.00	0.00	0.79	1.98	0.21	0.00	2.19
whitebreast	0-1000	10.23	0.58	0.00	10.81	11.82	1.73	0.00	13.55	22.05	2.31	0.00	24.36
wiley	0-1000	0.35	0.69	0.00	1.04	1.04	2.07	0.00	3.11	1.39	2.76	0.00	4.15

county total =		28.67	1.48	3.22	33.37	27.51	3.80	9.69	41.00	56.18	5.28	12.91	74.37

hamilton county													

bit													
colborn	0-1000	1.07	0.00	0.00	1.07	1.93	0.00	0.00	1.93	3.00	0.00	0.00	3.00
pretty	0-1000	1.34	0.00	0.00	1.34	2.01	0.00	0.00	2.01	3.35	0.00	0.00	3.35
tyson	0-1000	2.38	5.07	3.44	10.89	6.16	10.12	4.50	20.78	8.54	15.19	7.94	31.67

county total =		4.79	5.07	3.44	13.30	10.10	10.12	4.50	24.72	14.89	15.19	7.94	38.02

hardin county													

bit													

uncorrelated 0-1000	0.40	1.38	3.22	5.00	0.04	4.68	2.03	6.75	0.44	6.06	5.25	11.75
county total =	0.40	1.38	3.22	5.00	0.04	4.68	2.03	6.75	0.44	6.06	5.25	11.75

henry county												

bit												
cliffland 0-1000	0.00	0.00	0.23	0.23	0.00	0.00	0.27	0.27	0.00	0.00	0.50	0.50
laddsdale 0-1000	0.25	0.52	0.48	1.25	0.46	1.42	0.00	1.88	0.71	1.94	0.48	3.13
county total =	0.25	0.52	0.71	1.48	0.46	1.42	0.27	2.15	0.71	1.94	0.98	3.63

jasper county												

bit												
lower coal ford coal 0-1000	7.86	23.09	23.02	53.97	28.84	18.98	12.58	60.40	36.70	42.07	35.60	114.37
manbeck 0-1000	1.16	2.18	0.21	3.55	4.77	2.60	0.08	7.45	5.93	4.78	0.29	11.00
monterville 0-1000	3.02	3.58	3.89	10.49	4.15	2.42	0.00	6.57	7.17	6.00	3.89	17.06
no 5 0-1000	1.29	0.93	4.25	6.47	1.94	2.82	2.64	7.40	3.23	3.75	6.89	13.87
uncorrelated 0-1000	3.86	7.83	16.34	28.03	7.05	1.90	1.04	9.99	10.91	9.73	17.38	38.02
county total =	17.19	37.61	47.71	102.51	46.75	28.72	16.34	91.81	63.94	66.33	64.05	194.32

jefferson county												

bit												
cliffland 0-1000	0.00	0.61	0.00	0.61	0.00	1.22	0.00	1.22	0.00	1.83	0.00	1.83
laddsdale 0-1000	2.58	28.07	20.19	50.84	10.76	35.79	23.93	70.48	13.34	63.86	44.12	121.32
lower coal ford coal 0-1000	1.03	0.00	0.00	1.03	2.15	0.00	0.00	2.15	3.18	0.00	0.00	3.18
uncorrelated 0-1000	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.64	0.00	0.00	0.64	0.64
county total =	3.61	28.68	20.19	52.48	12.91	37.01	24.57	74.49	16.52	65.69	44.76	126.97

keokuk county												

bit												
cliffland 0-1000	0.00	0.98	76.56	77.54	0.55	4.87	57.66	63.08	0.55	5.85	134.22	140.62
county total =	0.00	0.98	76.56	77.54	0.55	4.87	57.66	63.08	0.55	5.85	134.22	140.62

lee county												

bit												
uncorrelated 0-1000	2.17	2.00	0.71	4.88	5.05	4.71	1.62	11.38	7.22	6.71	2.33	16.26
county total =	2.17	2.00	0.71	4.88	5.05	4.71	1.62	11.38	7.22	6.71	2.33	16.26

lucas														county													
bit																											
bevier																											
0-1000		5.38	0.00	0.00	5.38	13.91	0.00	0.00	13.91	19.29	0.00	0.00	19.29														
lower coal ford coal																											
0-1000		4.39	14.60	101.02	120.01	24.29	28.01	110.76	163.06	28.68	42.61	211.78	283.07														
mulky																											
0-1000		4.72	0.00	0.00	4.72	3.75	0.00	0.00	3.75	8.47	0.00	0.00	8.47														
mystic																											
0-1000		0.00	0.00	0.00	0.00	1.11	0.00	0.00	1.11	1.11	0.00	0.00	1.11														
no 5																											
0-1000		3.14	11.73	0.00	14.87	7.69	4.87	0.00	12.56	10.83	16.60	0.00	27.43														
no 7																											
0-1000		2.78	0.00	0.00	2.78	2.85	0.00	0.00	2.85	5.63	0.00	0.00	5.63														
wheeler																											
0-1000		12.44	2.30	0.00	14.74	23.06	5.30	0.00	28.36	35.50	7.60	0.00	43.10														
whitebreast																											
0-1000		10.78	2.86	0.00	13.64	51.79	0.00	0.00	51.79	62.57	2.86	0.00	65.43														
wiley																											
0-1000		8.30	1.87	0.00	10.17	19.03	0.00	0.00	19.03	27.33	1.87	0.00	29.20														
county total =		51.93	33.36	101.02	186.31	147.48	38.18	110.76	296.42	199.41	71.54	211.78	482.73														

		manaska				county							
bit													
laddsdale													
0-1000		0.00	0.00	4.21	4.21	0.00	0.00	2.12	2.12	0.00	0.00	6.33	6.33
lower coal ford coal													
0-1000		9.53	34.79	264.27	308.59	18.10	35.60	113.13	166.83	27.63	70.39	377.40	475.42
manbeck													
0-1000		0.37	10.75	11.32	22.44	5.78	12.01	2.00	19.79	6.15	22.76	13.32	42.23
county total =		9.90	45.54	279.80	335.24	23.88	47.61	117.25	188.74	33.78	93.15	397.05	523.98

		marion				county							
bit													
lower coal ford coal													
0-1000		41.14	103.27	258.90	403.31	48.97	83.38	43.39	175.74	90.11	186.65	302.29	579.05
manbeck													
0-1000		1.54	5.72	16.04	23.30	4.02	3.00	5.57	12.59	5.56	8.72	21.61	35.89
no 5													
0-1000		1.22	2.11	0.77	4.10	1.88	2.84	0.14	4.86	3.10	4.95	0.91	8.96
uncorrelated													
0-1000		0.55	8.72	2.81	12.08	2.21	4.09	1.09	7.39	2.76	12.81	3.90	19.47
wiley													
0-1000		0.52	0.00	0.00	0.52	1.27	0.00	0.00	1.27	1.79	0.00	0.00	1.79
county total =		44.97	119.82	278.52	443.31	58.35	93.31	50.19	201.85	103.32	213.13	328.71	645.16

		marshall				county							
bit													
hastie													
0-1000		0.52	0.83	0.34	1.69	1.67	0.56	0.17	2.40	2.19	1.39	0.51	4.09
uncorrelated													
0-1000		0.46	2.00	0.00	2.46	1.38	5.60	5.53	12.51	1.84	7.60	5.53	14.97

county total =		0.98	2.83	0.34	4.15	3.05	6.16	5.70	14.91	4.03	8.99	6.04	19.06

monroe						county							

bit													
bevier wheeler													
0-1000		2.66	0.00	0.00	2.66	7.08	0.00	0.00	7.08	9.74	0.00	0.00	9.74
lower coal ford coal													
0-1000		7.89	101.35	408.32	517.56	25.01	107.26	175.34	307.61	32.90	208.61	583.66	825.17
manbeck													
0-1000		0.00	3.73	0.00	3.73	0.00	4.29	0.00	4.29	0.00	8.02	0.00	8.02
mystic													
0-1000		0.09	0.00	0.00	0.09	1.11	0.00	0.00	1.11	1.20	0.00	0.00	1.20
no 5													
0-1000		0.15	4.58	0.00	4.73	0.62	3.44	0.00	4.06	0.77	8.02	0.00	8.79
whitebreast													
0-1000		11.05	0.69	0.00	11.74	20.17	0.00	0.00	20.17	31.22	0.69	0.00	31.91
county total =		21.84	110.35	408.32	540.51	53.99	114.99	175.34	344.32	75.83	225.34	583.66	884.83

montgomery						county							

bit													
nodaway													
0-1000		0.78	0.00	0.00	0.78	20.21	0.00	0.00	20.21	20.99	0.00	0.00	20.99
county total =		0.78	0.00	0.00	0.78	20.21	0.00	0.00	20.21	20.99	0.00	0.00	20.99

muscatine						county							

bit													
laddsdale													
0-1000		0.96	0.07	0.00	1.03	2.95	0.00	0.00	2.95	3.91	0.07	0.00	3.98
county total =		0.96	0.07	0.00	1.03	2.95	0.00	0.00	2.95	3.91	0.07	0.00	3.98

page						county							

bit													
nodaway													
0-1000		25.98	0.00	0.00	25.98	91.14	0.00	0.00	91.14	117.12	0.00	0.00	117.12
county total =		25.98	0.00	0.00	25.98	91.14	0.00	0.00	91.14	117.12	0.00	0.00	117.12

polk						county							

bit													
hastie													
0-1000		38.96	94.30	188.21	321.47	11.44	10.07	3.55	25.06	50.40	104.37	191.76	346.53
hastie plus													
0-1000		20.95	41.69	48.05	110.69	16.30	12.96	11.86	41.12	37.25	54.65	59.91	151.81
lower coal ford coal													
0-1000		6.86	16.94	22.94	46.74	18.95	16.89	6.69	42.53	25.81	33.83	29.63	89.27
manbeck													
0-1000		11.75	17.03	33.37	62.15	12.78	10.87	18.29	41.94	24.53	27.90	51.66	104.09
monterville													
0-1000		0.76	3.06	6.99	10.81	2.78	3.50	4.53	10.81	3.54	6.56	11.52	21.62
no 5													
0-1000		0.69	4.24	14.11	19.04	2.28	7.35	5.08	14.71	2.97	11.59	19.19	33.75

uncorrelated 0-1000	0.82	0.00	0.00	0.82	0.57	0.00	0.00	0.57	1.39	0.00	0.00	1.39
wheeler 0-1000	0.46	0.00	0.00	0.46	0.94	0.00	0.00	0.94	1.40	0.00	0.00	1.40
county total =	81.25	177.26	313.67	572.18	66.04	61.64	50.00	177.68	147.29	238.90	363.67	749.86
----- poweshiek county -----												
bit lower coal ford coal 0-1000	0.25	0.00	0.00	0.25	0.47	0.00	0.00	0.47	0.72	0.00	0.00	0.72
county total =	0.25	0.00	0.00	0.25	0.47	0.00	0.00	0.47	0.72	0.00	0.00	0.72
----- scott county -----												
bit laddsdale 0-1000	0.64	1.68	0.57	2.89	2.91	0.99	0.00	3.90	3.55	2.67	0.57	6.79
county total =	0.64	1.68	0.57	2.89	2.91	0.99	0.00	3.90	3.55	2.67	0.57	6.79
----- story county -----												
bit hastie 0-1000	0.71	1.72	6.07	8.50	2.48	3.43	10.46	16.37	3.19	5.15	16.53	24.87
hastie plus 0-1000	0.58	0.18	1.15	1.91	1.42	0.69	3.46	5.57	2.00	0.87	4.61	7.48
manbeck 0-1000	0.00	0.24	4.31	4.55	0.46	0.55	11.48	12.49	0.46	0.79	15.79	17.04
monterville 0-1000	0.00	0.04	2.94	2.98	0.43	1.49	6.15	8.07	0.43	1.53	9.09	11.05
uncorrelated 0-1000	2.57	3.64	13.68	19.89	6.28	14.19	19.71	40.18	8.85	17.83	33.39	60.07
county total =	3.86	5.82	28.15	37.83	11.07	20.35	51.26	82.68	14.93	26.17	79.41	120.51
----- taylor county -----												
bit nodaway 0-1000	10.63	0.00	0.00	10.63	41.64	0.00	0.00	41.64	52.27	0.00	0.00	52.27
county total =	10.63	0.00	0.00	10.63	41.64	0.00	0.00	41.64	52.27	0.00	0.00	52.27
----- van buren county -----												
bit laddsdale 0-1000	3.05	19.94	15.17	38.16	8.52	34.51	5.11	48.14	11.57	54.45	20.28	86.30
lower coal ford coal 0-1000	0.44	0.81	0.64	1.89	0.72	0.36	0.78	1.86	1.16	1.17	1.42	3.75
nb 5 0-1000	0.18	0.42	0.00	0.60	0.27	1.11	0.00	1.38	0.45	1.53	0.00	1.98
uncorrelated 0-1000	0.74	5.71	6.04	12.49	2.19	16.64	4.52	23.35	2.93	22.35	10.56	35.84
county total =	4.41	26.88	21.85	53.14	11.70	52.62	10.41	74.73	16.11	79.30	32.26	127.87

wapello county												
bit												
cliffland												
0-1000	3.53	7.42	10.33	21.28	6.24	8.04	9.86	24.14	9.77	15.46	20.19	45.42
laddsdale												
0-1000	4.75	8.94	5.62	19.31	6.24	9.91	5.64	21.79	10.99	18.85	11.26	41.10
lower coal ford coal												
0-1000	2.34	3.51	27.52	33.37	2.75	6.10	29.46	38.31	5.09	9.61	56.98	71.68
no 5												
0-1000	5.18	23.84	60.96	89.98	13.03	41.59	56.60	111.22	18.21	65.43	117.56	201.20
uncorrelated												
0-1000	0.00	0.81	0.00	0.81	0.00	1.90	0.00	1.90	0.00	2.71	0.00	2.71
whitebreast												
0-1000	0.26	0.00	0.00	0.26	1.98	0.00	0.00	1.98	2.24	0.00	0.00	2.24
county total =	16.06	44.52	104.43	165.01	30.24	67.54	101.56	199.34	46.30	112.06	205.99	364.35
warren county												
bit												
bevier												
0-1000	7.45	0.00	0.00	7.45	11.07	0.00	0.00	11.07	18.52	0.00	0.00	18.52
lower coal ford coal												
0-1000	12.68	51.06	13.21	76.95	70.04	85.16	0.94	156.14	82.72	136.22	14.15	233.09
monterville												
0-1000	10.36	14.00	0.67	25.03	26.50	7.32	0.00	33.82	36.86	21.32	0.67	58.85
mystic												
0-1000	1.43	0.00	0.00	1.43	3.10	0.00	0.00	3.10	4.53	0.00	0.00	4.53
uncorrelated												
0-1000	1.41	0.17	1.15	2.73	3.03	1.21	2.67	6.91	4.44	1.38	3.82	9.64
wheeler												
0-1000	9.56	6.29	0.00	15.85	23.99	9.03	0.00	33.02	33.55	15.32	0.00	48.87
whitebreast												
0-1000	13.56	0.00	0.00	13.56	25.58	0.00	0.00	25.58	39.14	0.00	0.00	39.14
wiley												
0-1000	5.99	0.98	0.00	6.97	11.51	0.00	0.00	11.51	17.50	0.98	0.00	18.48
county total =	62.44	72.50	15.03	149.97	174.82	102.72	3.61	281.15	237.26	175.22	18.64	431.12
wayne county												
bit												
mystic												
0-1000	51.91	0.00	0.00	51.91	299.66	0.00	0.00	299.66	351.57	0.00	0.00	351.57
county total =	51.91	0.00	0.00	51.91	299.66	0.00	0.00	299.66	351.57	0.00	0.00	351.57
webster county												
bit												
colborn												
0-1000	10.39	10.79	6.67	27.85	16.34	6.08	0.00	22.42	26.73	16.87	6.67	50.27
pretty												
0-1000	10.03	12.71	11.08	33.82	18.60	10.45	5.12	34.17	28.63	23.16	16.20	67.99
tyson												
0-1000	2.22	2.41	0.29	4.92	4.68	4.22	0.33	9.23	6.90	6.63	0.62	14.15
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	3.68	0.00	0.00	3.68	3.68	0.00	0.00	3.68

county total =	22.64	25.91	18.04	66.59	43.30	20.75	5.45	69.50	65.94	46.66	23.49	136.09
overburden subtotal 0-1000	617.66	1036.52	1846.54	3500.72	1542.03	1215.56	978.23	3735.82	2159.69	2252.08	2824.77	7236.54
total =	617.66	1036.52	1846.54	3500.72	1542.03	1215.56	978.23	3735.82	2159.69	2252.08	2824.77	7236.54
overburden total 0-1000	617.66	1036.52	1846.54	3500.72	1542.03	1215.56	978.23	3735.82	2159.69	2252.08	2824.77	7236.54
grand total =	617.66	1036.52	1846.54	3500.72	1542.03	1215.56	978.23	3735.82	2159.69	2252.08	2824.77	7236.54

total tonnage of identified coal resources in iowa

7236.54

resource figures taken from:

source	year	base year of resource
iowa gs tech paper 4	1965	original

average analyses of coal in iowa

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
=====														
appanoose county														

bit														
mystic	16.1	41.3	43.8	15.0	4.9	68.5	1.2	8.9	5.2	11923	1974	52		
uncorrelated	14.4	42.1	47.9	10.0	0.0	0.0	0.0	0.0	4.7	12750		3		
county average	16.1	41.3	44.0	14.7	4.9	68.5	1.2	8.9	5.2	11968	1974	55		

boone county														

bit														
lower coal ford coal	15.4	43.0	45.6	11.4	5.0	68.6	1.0	8.5	5.5	12550	2300	1		
manbeck	20.3	37.7	40.1	22.2	0.0	0.0	0.0	0.0	9.0	10530	2020	3		
county average	19.0	39.0	41.5	19.5	5.0	68.6	1.0	8.5	8.1	11035	2090	4		

dallas county														

bit														
lower coal ford coal	15.5	39.0	42.0	19.1	4.7	65.6	1.3	8.3	5.2	11299	2075	12		
county average	15.5	39.0	42.0	19.1	4.7	65.6	1.3	8.3	5.2	11299	2075	12		

davis county														

bit														
uncorrelated	12.2	42.5	38.5	19.0	0.0	0.0	0.0	0.0	8.6	11380	1920	1		
county average	12.2	42.5	38.5	19.0	0.0	0.0	0.0	0.0	8.6	11380	1920	1		

jasper county														

bit														
lower coal ford coal	15.9	41.9	41.6	16.5	4.6	63.6	1.3	7.3	6.7	11640	2000	1		
uncorrelated	16.7	40.4	41.4	18.2	0.0	0.0	0.0	0.0	5.4	11345	2025	2		
county average	16.4	40.9	41.4	17.6	4.6	63.6	1.3	7.3	5.8	11443	2016	3		

lucas county														

bit														
lower coal ford coal	16.2	41.2	43.0	15.7	4.6	66.9	1.2	7.5	4.7	11715	2058	8		
uncorrelated	17.5	39.8	43.8	16.4	4.7	64.9	1.5	7.6	3.6	11633	2060	12		

county average	17.0	40.4	43.5	16.1	4.6	66.1	1.4	7.5	4.0	11666	2060	20
mahaska				county								
bit												
cliffland	12.1	43.6	39.2	17.2	4.6	62.7	0.9	6.8	7.8	11450	2070	1
hastie	12.4	44.5	39.6	15.9	4.7	62.9	1.1	6.8	8.6	11000	1950	1
lower coal ford coal	9.6	48.1	38.3	13.6	4.9	65.6	1.6	7.0	7.3	12130	1910	1
no 5	12.8	38.1	32.3	29.6	4.0	52.6	0.9	6.6	6.3	9570	2190	1
uncorrelated	12.9	43.5	41.3	15.2	4.7	63.4	1.0	6.2	6.1	11895	2015	20
county average	12.7	43.5	40.6	15.9	4.6	62.2	1.1	6.5	6.3	11752	2018	24
marion				county								
bit												
lower coal ford coal	15.9	41.4	42.6	16.0	4.6	65.3	1.3	7.2	5.8	11656	2024	58
mystic	15.7	42.8	42.1	15.1	4.9	66.8	1.2	9.1	6.0	11755	2003	4
uncorrelated	16.3	41.3	41.8	17.0	4.7	64.9	1.2	8.4	6.2	11547	2026	55
various	17.8	40.8	43.9	15.3	4.6	64.5	1.2	7.5	6.9	11770	2010	1
county average	16.1	41.4	42.2	16.4	4.7	65.1	1.3	8.0	6.0	11609	2024	118
monroe				county								
bit												
hastie	13.4	45.2	38.8	16.0	4.7	64.1	1.2	7.8	6.2	11690	2080	1
lower coal ford coal	13.9	41.2	43.6	15.1	4.6	65.8	1.3	8.3	3.9	11960	2013	15
uncorrelated	16.2	42.6	43.5	13.9	4.9	67.5	1.2	9.0	4.9	12114	1989	16
county average	15.0	42.0	43.4	14.6	4.8	66.4	1.3	8.6	4.4	12028	2000	32
page				county								
bit												
nodaway	20.4	43.8	43.7	12.5	4.9	67.9	1.5	9.2	4.1	12063	2283	3
county average	20.4	43.8	43.7	12.5	4.9	67.9	1.5	9.2	4.1	12063	2283	3
polk				county								
bit												
lower coal ford coal	14.4	39.9	41.0	19.0	4.7	65.6	1.2	8.7	6.4	11333	2013	29
uncorrelated	10.1	37.7	38.7	23.6	0.0	0.0	0.0	0.0	6.2	10760		1
county average	14.2	39.9	40.9	19.2	4.7	65.6	1.2	8.7	6.4	11314	2013	30
taylor				county								
bit												
nodaway	20.5	40.4	44.6	15.0	4.7	65.6	1.3	8.5	5.1	11750	2197	4
county average	20.5	40.4	44.6	15.0	4.7	65.6	1.3	8.5	5.1	11750	2197	4

van buren county												
bit												
uncorrelated	11.8	42.2	41.6	16.3	5.0	67.6	1.0	7.3	7.3	11815	2080	2
county average	11.8	42.2	41.6	16.3	5.0	67.6	1.0	7.3	7.3	11815	2080	2
wapello county												
bit												
mystic	17.0	42.9	44.8	12.3	4.8	68.4	1.2	9.2	5.0	12316	2333	3
no 5	12.8	40.0	38.5	21.5	4.4	59.4	1.0	6.1	7.6	10830	2080	1
uncorrelated	14.7	43.3	41.8	14.9	5.0	67.2	1.1	8.4	5.8	12062	1986	7
county average	15.1	42.9	42.3	14.8	4.8	65.5	1.1	8.0	5.8	12020	2100	11
warren county												
hit												
lower coal ford coal	12.5	42.0	43.7	14.3	0.0	0.0	0.0	0.0	4.9	12187		12
uncorrelated	12.9	45.4	44.2	10.4	0.0	0.0	0.0	0.0	4.2	12750		1
county average	12.5	42.2	43.7	14.0	0.0	0.0	0.0	0.0	4.8	12230		13
wayne county												
bit												
mystic	18.7	42.6	44.3	13.1	4.7	66.1	1.2	8.9	6.0	12090	1930	1
county average	18.7	42.6	44.3	13.1	4.7	66.1	1.2	8.9	6.0	12090	1930	1
webster county												
bit												
lower coal ford coal	21.9	44.3	40.8	14.8	4.8	64.4	1.0	9.1	7.5	11587	2135	4
county average	21.9	44.3	40.8	14.8	4.8	64.4	1.0	9.1	7.5	11587	2135	4

Iowa

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fatlo
iowa	appanose	mystic	***	41.6	41.2	17.2	6.1	11570	0	2.5
iowa	apuanoose	mystic	***	42.7	41.3	16.0	5.2	11610	0	3.5
iowa	davis	uncorrelated	***	42.5	38.5	19.0	8.6	11380	59	3.0
iowa	lucas	uncorrelated	***	40.9	39.4	19.7	4.3	11170	57	3.0
iowa	lucas	uncorrelated	***	40.9	45.9	13.2	3.4	12120	0	3.5
iowa	lucas	uncorrelated	***	38.1	45.0	16.9	2.5	11550	0	2.5
iowa	lucas	uncorrelated	***	39.7	41.0	19.3	3.6	11220	0	3.0
iowa	lucas	uncorrelated	***	40.2	43.8	16.0	4.3	11660	55	2.0
iowa	mahaska	uncorrelated	***	40.6	41.6	17.8	4.9	11520	66	2.5
iowa	mahaska	cliffland	***	43.6	39.2	17.2	7.8	11450	52	5.0
iowa	mahaska	hastie	***	44.5	39.6	15.9	8.6	11000	51	3.0
iowa	mahaska	lower coal ford coal	9.6	48.1	38.3	13.6	7.3	12130	50	3.5
iowa	mahaska	uncorrelated	***	47.2	39.9	12.9	6.4	12250	46	3.0
iowa	mahaska	no 5	***	38.1	32.3	29.6	6.3	9570	59	1.0
iowa	mahaska	uncorrelated	***	40.4	42.8	16.8	5.9	11730	70	4.0
iowa	mahaska	uncorrelated	***	39.3	39.6	21.1	8.1	11020	58	3.0
iowa	mahaska	uncorrelated	***	41.9	34.2	23.9	***	10570	59	4.5
iowa	mahaska	uncorrelated	7.6	41.3	51.6	7.1	2.6	13250	0	2.5
iowa	mahaska	uncorrelated	***	41.6	38.9	19.5	7.8	11180	63	4.0
iowa	mahaska	uncorrelated	***	43.4	37.4	19.2	***	11090	53	5.0
iowa	marion	lower coal ford coal	***	42.8	40.9	16.3	8.2	11440	69	3.5
iowa	marion	lower coal ford coal	***	41.2	44.7	14.1	5.4	11930	0	1.0
iowa	marion	lower coal ford coal	***	42.1	41.9	16.0	5.3	11730	59	3.5
iowa	marion	lower coal ford coal	***	42.5	41.1	16.4	6.1	11440	0	2.5
iowa	marion	lower coal ford coal	***	42.3	41.8	15.9	7.4	11590	0	2.0

continued,.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fatlo
iowa	marion	lower coal ford coal	***	41.2	43.3	15.5	5.2	11700	0	1.5
iowa	marion	lower coal ford coal	***	39.0	40.8	20.2	4.6	10870	0	1.0
iowa	marion	uncorrelated	***	41.3	40.6	18.1	7.2	11100	62	2.5
iowa	marion	uncorrelated	***	37.8	41.4	21.8	5.1	10970	71	1.0
iowa	marion	uncorrelated	***	41.1	42.9	13.8	7.9	12140	69	4.0
iowa	marion	uncorrelated	***	36.1	36.6	27.3	8.4	10120	0	1.5
iowa	marion	lower coal ford coal	***	39.3	40.1	20.6	6.5	11010	64	2.0
iowa	marion	uncorrelated	***	41.5	39.1	19.4	7.4	11330	67	3.5
iowa	marion	uncorrelated	***	40.6	42.4	17.0	6.1	11650	65	3.5
iowa	marion	uncorrelated	***	40.9	39.4	19.7	8.5	11110	55	3.5
iowa	marion	uncorrelated	***	46.6	39.7	13.7	6.9	12200	63	3.0
iowa	marion	uncorrelated	***	43.2	37.6	19.2	6.2	11050	65	3.0
iowa	marion	lower coal ford coal	***	42.2	41.2	16.6	7.5	11150	68	3.0
iowa	marion	lower coal ford coal	***	42.3	40.0	17.7	6.7	11170	56	2.0
iowa	marion	lower coal ford coal	***	41.5	35.1	23.4	8.0	10050	0	1.5
iowa	marion	lower coal ford coal	***	41.3	42.0	16.7	7.1	11170	54	1.0
iowa	marion	uncorrelated	***	41.8	46.0	12.2	5.4	12150	59	1.0
iowa	marion	lower coal ford coal	***	41.5	41.4	17.1	5.8	11370	0	3.5
iowa	monroe	uncorrelated	***	40.8	41.8	17.4	6.1	11540	63	3.5
iowa	monroe	lower coal ford coal	***	41.9	42.0	16.1	2.9	11710	58	3.0
iowa	monroe	lower coal ford coal	***	42.8	43.0	14.2	5.8	11470	0	1.0
iowa	monroe	lower coal ford coal	***	41.3	42.5	16.2	5.9	11690	52	2.5
iowa	monroe	hastie	***	45.2	38.8	16.0	6.2	11690	51	3.0
iowa	wapello	no 5	***	40.0	38.5	21.5	7.6	10830	50	3.0
iowa	wapello	uncorrelated	***	44.1	40.7	15.2	6.3	11920	57	4.0

average analyses of coal in kansas

proximate analysis (percent)														ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol	mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen												
cherokee														county								
bit																						
	bevier	5.0	38.2		50.6	11.2	0.0	0.0	0.0	0.0	2.9	13186	2120			3						
	fleming	2.4	39.7		48.0	12.3	0.0	0.0	0.0	0.0	4.4	13010	2250			2						
	mineral	4.0	37.8		49.9	12.3	0.0	0.0	0.0	0.0	3.8	12936	1980			3						
county average		4.0	38.4		49.7	11.9	0.0	0.0	0.0	0.0	3.6	13048	2117			8						
crawford														county								
bit																						
	bevier	4.4	37.9		48.0	14.1	0.0	0.0	0.0	0.0	2.5	12420	2405			40						
	mineral	4.6	36.8		48.7	14.5	0.0	0.0	0.0	0.0	4.4	12772	1973			18						
	various	2.7	42.9		45.4	11.7	0.0	0.0	0.0	0.0	5.1	13260				1						
	weir-pittsburg	4.6	35.8		51.8	12.4	5.0	72.7	1.4	5.0	4.5	13069	2045			18						
county average		4.5	37.2		49.0	13.8	5.0	72.7	1.4	5.0	3.4	12665	2202			77						
leavenworth														county								
bit																						
	bevier	9.6	38.2		42.8	19.0	0.0	0.0	0.0	0.0	7.1	11510				1						
county average		9.6	38.2		42.8	19.0	0.0	0.0	0.0	0.0	7.1	11510				1						
osage														county								
bit																						
	nodaway	12.3	40.4		46.8	12.8	0.0	0.0	0.0	0.0	5.7	11940	2120			2						
county average		12.3	40.4		46.8	12.8	0.0	0.0	0.0	0.0	5.7	11940	2120			2						

Kansas

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
kansas	cherokee	fleming	2.4	39.7	44.4	15.9	5.2	12080	0	8.5
kansas	cherokee	mineral	3.8	36.2	50.9	12.9	4.1	12770	0	8.0
kansas	crawford	weir-pittsburg	5.7	34.4	50.9	14.7	4.7	12600	63	8.0
kansas	crawford	bevier	6.0	37.5	50.0	12.5	2.3	12870	68	8.5
kansas	crawford	bevier	6.4	37.9	50.2	11.9	2.2	12890	71	7.5
kansas	crawford	bevier	6.1	37.0	48.4	14.6	2.0	12430	0	7.5

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in eastern kentucky

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
bell county												
bit												
bennett fork												
0-1000	1.51	11.78	0.07	13.36	1.30	13.35	0.00	14.65	2.81	25.13	0.07	28.01
blue gem												
0-1000	0.13	0.16	0.00	0.29	2.49	1.96	0.00	4.45	2.62	2.12	0.00	4.74
cranes creek												
0-1000	5.39	0.28	0.00	5.67	11.94	0.00	0.00	11.94	17.33	0.28	0.00	17.61
fire clay												
U-1000	6.07	25.75	10.26	42.10	7.67	36.67	21.92	66.26	13.76	62.42	32.18	108.36
fire clay rider												
0-1000	0.38	1.10	1.16	2.64	0.31	0.00	0.78	1.09	0.69	1.10	1.94	3.73
francis												
0-1000	0.25	0.56	1.11	1.92	0.00	0.00	0.42	0.42	0.25	0.56	1.53	2.34
harlan												
0-1000	0.64	3.83	20.77	25.26	0.00	1.46	12.27	13.73	0.64	5.29	33.06	38.99
hindman												
0-1000	0.00	0.05	0.88	0.93	0.00	0.00	0.40	0.40	0.00	0.05	1.28	1.33
imboden												
0-1000	1.71	33.26	6.79	41.76	8.71	39.36	3.83	51.90	10.42	72.62	10.62	93.66
jellico												
0-1000	1.30	62.59	2.66	66.55	1.56	58.72	0.00	60.28	2.86	121.31	2.66	126.83
lily												
0-1000	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.30	0.30	0.00	0.00	0.30
lower hamlin												
0-1000	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.34	0.34	0.00	0.00	0.34
lower hignite												
0-1000	0.06	26.60	28.94	55.60	0.00	0.28	5.76	6.04	0.06	26.88	34.70	61.64
mingo												
0-1000	7.77	35.64	33.65	77.06	2.67	41.91	19.35	63.93	10.44	77.55	53.00	140.99
moss												
0-1000	9.07	10.64	2.99	22.65	18.55	18.58	3.21	40.34	27.57	29.22	6.20	62.99
poplar lick												
0-1000	0.16	9.81	65.83	75.80	0.00	0.21	26.81	27.02	0.16	10.02	92.64	102.82
red spring												
0-1000	0.00	2.26	4.23	6.49	0.00	0.56	4.76	5.32	0.00	2.82	8.99	11.81
rich mountain												
0-1000	0.37	5.46	0.00	5.83	0.00	10.63	0.00	10.63	0.37	16.09	0.00	16.46
sandstone parting												
0-1000	3.29	22.10	0.08	25.47	0.44	45.18	1.40	47.02	3.73	67.28	1.48	72.49
sterling												
0-1000	0.71	3.68	15.31	19.70	0.00	0.00	4.94	4.94	0.71	3.68	20.25	24.64
stray												
0-1000	0.63	9.02	3.89	13.54	4.36	35.32	6.07	45.75	4.99	44.34	9.96	59.29

county total =		39.41	264.57	198.64	502.62	60.64	304.19	111.92	476.75	100.05	568.76	310.56	979.37
		boyd				county							
bit													
princess no 10													
0-1000		0.00	0.00	0.00	0.00	3.19	0.00	0.00	3.19	3.19	0.00	0.00	3.19
princess no 3													
0-1000		1.90	0.00	0.00	1.90	15.71	3.56	0.00	19.27	17.61	3.56	0.00	21.17
princess no 4													
0-1000		0.45	0.00	0.00	0.45	8.06	0.00	0.00	8.06	8.51	0.00	0.00	8.51
princess no 5													
0-1000		12.90	15.34	2.27	30.51	19.00	12.24	0.00	31.24	31.90	27.58	2.27	61.75
princess no 5a													
0-1000		11.59	6.04	0.00	17.63	25.81	3.07	0.00	28.88	37.40	9.11	0.00	46.51
princess no 5b													
0-1000		7.75	0.00	0.00	7.75	7.04	0.00	0.00	7.04	14.79	0.00	0.00	14.79
princess no 6													
0-1000		7.51	17.51	7.28	32.30	20.00	13.10	3.34	36.44	27.51	30.61	10.62	68.74
princess no 7													
0-1000		19.13	53.45	33.28	105.86	12.67	40.34	7.22	60.23	31.80	93.79	40.50	166.09
princess no 8													
0-1000		9.76	3.43	3.43	16.64	28.54	1.13	0.00	29.67	38.30	4.58	3.43	46.31
princess no 9													
0-1000		2.23	0.00	0.00	2.23	13.04	4.17	0.00	17.21	15.27	4.17	0.00	19.44
county total =		73.22	95.79	46.26	215.27	153.06	77.61	10.56	241.23	226.28	173.40	56.82	456.50
		breathitt				county							
bit													
amburgy													
0-1000		15.44	9.83	0.00	25.27	30.00	40.79	0.00	70.79	45.44	50.62	0.00	96.06
colvin													
0-1000		11.80	0.20	0.00	12.00	0.00	0.00	0.00	0.00	11.80	0.20	0.00	12.00
copland													
0-1000		0.00	6.19	0.82	7.01	10.84	0.00	0.00	10.84	10.84	6.19	0.82	17.85
fire clay													
0-1000		36.55	1.45	0.00	38.00	36.42	1.21	0.00	37.63	72.97	2.66	0.00	75.63
fire clay rider													
0-1000		112.41	102.52	3.79	218.72	17.26	4.36	0.00	21.62	129.67	106.88	3.79	240.34
francis													
0-1000		15.44	59.79	95.92	171.15	22.53	9.08	5.73	37.34	37.97	68.87	101.65	208.49
haddix													
0-1000		84.52	74.31	15.44	174.27	67.80	7.82	0.03	75.65	152.32	82.13	15.47	249.92
hazard													
0-1000		81.37	66.66	14.08	162.11	45.94	7.46	0.00	53.40	127.31	74.12	14.08	215.51
hazard no 7													
0-1000		54.10	67.06	165.41	286.57	50.17	17.54	6.12	73.83	104.27	84.60	171.53	360.40
hindman													
0-1000		4.11	0.00	1.00	5.11	2.62	0.00	0.00	2.62	6.73	0.00	1.00	7.73
lower whitesburg													
0-1000		28.42	1.96	0.00	30.38	60.58	19.96	0.00	80.54	89.00	21.92	0.00	110.92
skyline													
0-1000		0.18	3.07	18.91	22.16	0.12	1.98	0.00	2.10	0.30	5.05	18.91	24.26
uncorrelated													
0-1000		4.11	3.06	0.00	7.17	15.41	0.00	0.00	15.41	19.52	3.06	0.00	22.58
upper elkhorn no 1													
0-1000		3.70	1.70	0.00	7.40	12.55	0.37	0.00	12.92	18.25	2.07	0.00	20.32

upper elkhorn no 3													
0-1000	60.38	31.73	4.80	96.91	70.16	4.79	0.00	74.95	130.54	36.52	4.80	171.86	
zachariah													
0-1000	14.70	0.00	0.00	14.70	38.50	0.00	0.00	38.50	53.20	0.00	0.00	53.20	
county total =	529.23	429.53	320.17	1278.93	480.90	115.36	11.88	608.14	1010.13	544.89	332.05	1887.07	
	carter						county						
bit													
fire clay													
0-1000	4.53	6.55	2.83	13.91	7.37	8.49	0.00	15.86	11.90	15.04	2.83	29.77	
grassy													
0-1000	1.41	0.00	0.00	1.41	14.08	0.00	0.00	14.08	15.49	0.00	0.00	15.49	
gun creek													
0-1000	2.57	0.00	0.00	2.57	10.28	0.00	0.00	10.28	12.85	0.00	0.00	12.85	
lee coal beds													
0-1000	0.00	0.00	0.00	0.00	5.28	0.00	0.00	5.28	5.28	0.00	0.00	5.28	
princess no 3													
0-1000	17.43	8.70	0.00	26.13	36.51	0.41	0.00	36.92	53.94	9.11	0.00	63.05	
princess no 4													
0-1000	3.78	4.49	0.00	8.27	15.95	1.87	0.00	17.82	19.73	6.36	0.00	26.09	
princess no 5													
U=1000	15.44	12.97	8.09	36.50	36.19	24.47	6.08	66.74	51.63	37.44	14.17	103.24	
princess no 5a													
0-1000	2.95	0.00	0.00	2.95	10.11	0.00	0.00	10.11	13.06	0.00	0.00	13.06	
princess no 6													
0-1000	5.46	4.49	0.00	9.95	23.14	17.44	2.54	43.12	28.60	21.93	2.54	53.07	
princess no 7													
0-1000	8.63	38.78	36.53	83.94	7.28	22.48	7.08	36.84	15.91	61.26	43.61	120.78	
princess no 8													
0-1000	2.18	2.74	0.00	4.92	5.58	7.94	0.00	13.52	7.76	10.68	0.00	18.44	
tom cooper													
0-1000	35.69	34.66	8.03	78.38	35.92	13.75	0.00	49.67	71.61	48.41	8.03	128.05	
county total =	100.07	113.38	55.48	268.93	207.69	96.85	15.70	320.24	307.76	210.23	71.18	589.17	
	clay						county						
bit													
bacon creek													
0-1000	0.00	0.00	0.00	0.00	1.88	0.00	0.00	1.88	1.88	0.00	0.00	1.88	
blue gem													
0-1000	0.00	0.00	0.00	0.00	0.00	3.77	0.00	3.77	0.00	3.77	0.00	3.77	
fire clay													
0-1000	44.34	49.61	10.89	104.84	80.46	30.05	0.00	110.51	124.80	79.66	10.89	215.35	
fire clay rider													
0-1000	7.32	9.33	3.39	20.04	25.13	6.46	0.00	31.59	32.45	15.79	3.39	51.63	
francis													
0-1000	0.00	0.00	0.00	0.00	0.11	1.02	4.40	5.53	0.11	1.02	4.40	5.53	
haddix													
0-1000	2.93	2.85	6.99	12.77	17.10	10.16	14.41	41.67	20.03	13.01	21.40	54.44	
hazard													
0-1000	0.00	0.00	0.00	0.00	3.01	0.00	0.00	3.01	3.01	0.00	0.00	3.01	
jellico													
0-1000	17.32	17.54	0.00	34.86	60.45	47.52	0.00	107.97	77.77	65.06	0.00	142.83	
lily													
0-1000	67.70	109.17	0.32	177.19	100.81	38.65	0.00	139.44	168.51	147.82	0.32	316.65	
lower hamlin													
0-1000	7.02	16.25	3.31	26.58	27.70	37.22	26.68	91.60	34.72	53.47	29.99	118.18	

mills												
0-1000	1.13	0.00	0.00	1.13	2.98	0.00	0.00	2.98	4.11	0.00	0.00	4.11
moss												
0-1000	4.93	1.20	0.00	6.13	26.62	8.00	0.00	34.62	31.55	9.20	0.00	40.75
upper hamlin												
0-1000	1.81	1.46	0.00	3.27	10.04	3.90	0.00	13.94	11.85	5.36	0.00	17.21
county total =	154.50	207.41	24.90	386.81	356.29	186.75	45.49	588.53	510.79	394.16	70.39	975.34

clinton county

bit												
beaver creek												
0-1000	0.00	1.04	5.81	6.85	0.00	0.00	0.00	0.00	0.00	1.04	5.81	6.85
county total =	0.00	1.04	5.81	6.85	0.00	0.00	0.00	0.00	0.00	1.04	5.81	6.85

elliott county

bit												
beattyville												
0-1000	0.00	0.00	0.00	0.00	4.79	0.00	0.00	4.79	4.79	0.00	0.00	4.79
colvin												
0-1000	0.00	0.00	0.00	0.00	1.38	0.00	0.00	1.38	1.38	0.00	0.00	1.38
fire clay												
0-1000	4.11	8.33	0.00	12.44	18.89	14.48	0.00	33.37	23.00	22.81	0.00	45.81
fugate												
0-1000	0.00	0.00	0.00	0.00	0.00	1.22	0.00	1.22	0.00	1.22	0.00	1.22
grassy												
0-1000	5.68	8.21	0.00	13.89	22.12	18.44	0.00	40.56	27.80	26.65	0.00	54.45
gun creek												
0-1000	1.53	0.20	0.00	1.73	5.81	0.00	0.00	5.81	7.34	0.20	0.00	7.54
index												
0-1000	8.78	14.03	3.60	26.41	21.77	16.98	1.06	39.81	30.55	31.01	4.66	66.22
nickell												
0-1000	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12	0.12	0.00	0.00	0.12
princess no 6												
0-1000	0.00	0.00	0.00	0.00	1.66	0.00	0.00	1.66	1.66	0.00	0.00	1.66
princess no 7												
0-1000	0.00	0.00	0.00	0.00	1.25	0.00	0.00	1.25	1.25	0.00	0.00	1.25
richardson												
0-1000	0.25	0.00	0.57	0.82	3.86	2.39	2.61	8.86	4.11	2.39	3.18	9.68
tom cooper												
0-1000	22.53	24.99	0.00	47.52	34.40	22.80	0.00	57.20	56.93	47.79	0.00	104.72
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	3.52	0.00	0.00	3.52	3.52	0.00	0.00	3.52
whitesburg												
0-1000	0.17	0.00	0.00	0.17	0.58	3.79	0.00	4.37	0.75	3.79	0.00	4.54
county total =	43.05	55.76	4.17	102.98	120.15	80.10	3.67	203.92	163.20	135.86	7.84	306.90

floyd county

bit												
fire clay												
0-1000	35.63	75.43	44.59	155.65	10.80	21.73	0.00	32.53	46.43	97.16	44.59	188.18
haddix												
0-1000	0.00	0.00	0.33	0.33	0.00	6.96	4.61	11.57	0.00	6.96	4.94	11.90
hamlin												
0-1000	0.04	16.74	5.39	22.17	0.00	0.00	0.00	0.00	0.04	16.74	5.39	22.17

peach orchard												
0-1000	0.00	0.00	0.00	0.00	0.42	10.47	0.00	10.89	0.42	10.47	0.00	10.89
richardson												
0-1000	0.00	0.00	5.41	5.41	0.00	0.00	5.07	5.07	0.00	0.00	10.48	10.48
torchlight												
0-1000	0.00	4.36	0.91	5.27	0.00	4.65	3.94	8.59	0.00	9.01	4.85	13.86
upper elkhorn no 1												
0-1000	97.89	262.78	69.17	429.84	9.14	4.81	0.00	13.95	107.03	267.59	69.17	443.79
upper elkhorn no 2												
0-1000	99.05	213.98	67.38	380.41	32.34	10.73	0.00	43.07	131.39	224.71	67.38	423.48
upper elkhorn no 3												
0-1000	132.70	438.87	116.24	687.81	9.55	29.38	0.00	38.93	142.25	468.25	116.24	726.74
upper whitesburg												
0-1000	3.30	0.00	0.00	3.30	6.47	0.00	0.00	6.47	9.77	0.00	0.00	9.77
williamson												
0-1000	0.27	0.00	3.93	4.20	13.14	3.05	5.02	21.21	13.41	3.05	8.95	25.41
county total =	368.88	1012.16	313.35	1694.39	81.86	91.78	18.64	192.28	450.74	1103.94	331.99	1886.67

greenup						county						

bit												
fire clay												
0-1000	0.39	0.00	0.00	0.39	10.91	0.00	0.00	10.91	11.30	0.00	0.00	11.30
grassy												
0-1000	2.49	0.00	0.00	2.49	4.74	0.00	0.00	4.74	7.23	0.00	0.00	7.23
gun creek												
0-1000	2.53	2.27	0.00	4.80	10.96	0.00	0.00	10.96	13.49	2.27	0.00	15.76
lee coal beds												
0-1000	0.00	0.00	0.00	0.00	0.00	4.41	0.00	4.41	0.00	4.41	0.00	4.41
princess no 3												
0-1000	62.66	15.48	0.77	78.91	35.75	3.42	0.77	39.94	98.41	18.90	1.54	118.85
princess no 4												
0-1000	3.56	6.85	1.00	11.41	24.95	0.00	0.00	24.95	28.51	6.85	1.00	36.36
princess no 5												
0-1000	3.80	3.66	0.67	8.13	13.94	4.20	0.00	18.14	17.74	7.86	0.67	26.27
princess no 5a												
0-1000	0.00	0.00	0.00	0.00	2.42	0.00	0.00	2.42	2.42	0.00	0.00	2.42
princess no 5b												
0-1000	4.50	0.00	0.00	4.50	5.61	0.00	0.00	5.61	10.11	0.00	0.00	10.11
princess no 6												
0-1000	0.00	1.26	0.18	1.44	5.88	1.23	0.58	7.69	5.88	2.49	0.76	9.13
princess no 7												
0-1000	0.41	9.28	4.47	14.16	0.78	0.00	0.67	1.45	1.19	9.28	5.14	15.61
princess no 8												
0-1000	0.00	0.00	0.47	0.47	0.26	0.00	0.00	0.26	0.26	0.00	0.47	0.73
tom cooper												
0-1000	11.16	0.87	0.00	12.03	18.57	0.00	0.00	18.57	29.73	0.87	0.00	30.60
county total =	91.50	39.67	7.56	138.73	134.77	13.26	2.02	150.05	226.27	52.93	9.58	288.78

harlan						county						

bit												
amburgy												
0-1000	0.00	0.00	0.00	0.00	5.95	4.86	0.00	10.81	5.95	4.86	0.00	10.81
collier												
0-1000	23.49	221.01	70.61	315.11	97.21	50.56	0.51	148.28	120.70	271.57	71.12	463.39
cornett												
0-1000	8.89	37.35	70.18	116.42	1.88	14.14	5.04	21.06	10.77	51.49	75.22	137.48

d	0-1000	1.24	35.53	16.15	52.92	7.20	54.48	8.31	69.99	8.44	90.01	24.46	122.91
darby	0-1000	24.16	245.40	92.27	361.83	27.03	22.04	2.67	51.74	51.19	267.44	94.94	413.57
fire clay	0-1000	22.38	39.16	36.61	98.15	41.11	39.52	2.65	83.28	63.49	78.68	39.26	181.43
fire clay rider	0-1000	2.97	0.42	0.00	3.39	6.84	1.93	0.00	8.77	9.81	2.35	0.00	12.16
francis	0-1000	0.00	0.86	5.91	6.77	2.62	1.53	0.93	5.08	2.62	2.39	6.84	11.85
gin creek	0-1000	9.69	9.38	2.63	21.70	10.93	7.16	0.00	18.09	20.62	16.54	2.63	39.79
haddix	0-1000	0.00	2.45	0.72	3.17	0.36	16.79	0.00	17.15	0.36	19.24	0.72	20.32
harlan	0-1000	29.78	200.01	293.45	523.24	66.06	24.29	8.92	99.27	95.84	224.30	302.37	622.51
hazard	0-1000	0.22	65.81	20.94	86.97	0.00	0.00	0.00	0.00	0.22	65.81	20.94	86.97
hazard no 7	0-1000	0.44	0.00	0.00	0.44	5.88	2.90	0.00	8.78	6.32	2.90	0.00	9.22
high splint	0-1000	1.58	9.57	148.52	159.67	0.00	0.00	0.00	0.00	1.58	9.57	148.52	159.67
hindman	0-1000	0.28	3.37	8.05	11.70	0.00	4.59	11.24	15.83	0.28	7.96	19.29	27.53
imhoden	0-1000	1.65	51.51	133.10	166.34	21.46	68.63	0.00	90.09	23.11	100.14	133.18	256.43
kellioka	0-1000	9.33	10.73	0.00	20.06	45.22	36.01	4.74	85.97	54.55	46.74	4.74	106.03
low splint	0-1000	3.84	57.07	35.54	96.45	8.11	0.00	4.97	13.08	11.95	57.07	40.51	109.53
lower hamlin	0-1000	1.74	0.00	0.00	1.74	6.11	0.00	0.00	6.11	7.85	0.00	0.00	7.85
lower split, harlan	0-1000	48.84	25.29	23.51	97.64	1.16	19.04	0.00	20.20	50.00	44.33	23.51	117.84
pardee	0-1000	0.25	7.47	51.60	59.32	0.61	9.24	7.04	16.89	0.86	16.71	58.64	76.21
upper elkhorn no 3	0-1000	0.00	0.00	0.00	0.00	1.28	0.00	0.00	1.28	1.28	0.00	0.00	1.28
wax	0-1000	9.94	12.33	15.70	37.97	11.73	3.91	0.00	15.64	21.67	16.24	15.70	53.61
county total =		200.71	1014.72	1025.57	2241.00	368.75	381.62	57.02	807.39	569.46	1396.34	1082.59	3048.39

jackson county

bit													
barren fork	0-1000	18.26	53.76	0.00	72.07	28.30	31.01	0.00	59.31	46.56	84.77	0.00	131.33
beaver creek	0-1000	15.22	29.79	0.00	45.01	26.15	37.87	0.00	64.02	41.37	67.66	0.00	109.03
hudson	0-1000	7.22	13.35	0.82	21.39	19.05	16.89	0.00	35.94	26.27	30.24	0.82	57.33
uncorrelated	0-1000	9.62	5.54	0.00	15.16	27.83	6.27	0.00	34.10	37.45	11.81	0.00	49.26
county total =		50.32	102.44	0.82	153.58	101.33	92.04	0.00	193.37	151.65	194.48	0.82	346.95

johnson county

bit

fire clay 0-1000	20.89	21.33	1.49	43.71	53.07	30.54	0.00	83.61	73.96	51.87	1.49	127.32
haddix 0-1000	0.00	8.17	22.91	31.08	4.92	38.33	12.87	56.12	4.92	46.50	35.78	87.20
lower whitesburg 0-1000	15.34	4.04	0.00	19.38	32.27	1.27	0.00	33.54	47.61	5.31	0.00	52.92
mine fork 0-1000	1.14	0.00	0.00	1.14	5.18	0.00	0.00	5.18	6.32	0.00	0.00	6.32
peach orchard 0-1000	0.96	0.00	6.72	7.68	1.38	5.30	21.00	27.68	2.34	5.30	27.72	35.36
richardson 0-1000	0.00	0.00	2.46	2.46	0.00	0.00	7.62	7.62	0.00	0.00	10.08	10.08
torchlight 0-1000	0.00	0.94	12.35	13.29	0.00	5.40	3.12	8.52	0.00	6.34	15.47	21.81
upper elkhorn no 2 0-1000	0.00	6.47	0.00	6.47	22.26	0.00	0.00	22.26	22.26	6.47	0.00	28.73
upper elkhorn no 3 0-1000	74.60	177.33	8.41	260.34	52.49	75.54	0.00	128.03	127.09	252.87	8.41	388.37
upper whitesburg 0-1000	20.15	0.00	0.00	20.15	32.77	0.00	0.00	32.77	52.92	0.00	0.00	52.92
williamson 0-1000	5.21	0.00	0.00	5.21	3.43	0.00	0.00	3.43	8.64	0.00	0.00	8.64
county total =	138.29	218.28	54.34	410.91	207.77	156.38	44.61	408.76	346.06	374.66	98.95	819.67

knott

county

bit

amburgy 0-1000	83.61	57.53	0.00	141.14	27.55	49.51	0.00	77.06	111.16	107.04	0.00	218.20
colvin 0-1000	4.15	0.00	0.00	4.15	0.00	0.00	0.00	0.00	4.15	0.00	0.00	4.15
fire clay 0-1000	211.12	222.18	98.05	531.35	40.46	0.50	0.00	40.96	251.58	222.68	98.05	572.31
fire clay rider 0-1000	1.75	0.00	0.00	1.75	1.56	0.00	0.00	1.56	3.31	0.00	0.00	3.31
francis 0-1000	2.45	6.72	5.44	14.61	0.00	4.34	2.08	6.42	2.45	11.06	7.52	21.03
haddix 0-1000	28.44	36.58	3.42	68.44	1.17	0.00	0.00	1.17	29.61	36.58	3.42	69.61
hazard 0-1000	15.26	29.73	12.22	57.21	8.69	8.99	0.00	17.68	23.95	38.72	12.22	74.89
hazard no 7 0-1000	11.32	113.95	247.27	372.54	9.81	14.71	4.82	29.34	21.13	128.66	252.09	401.88
hindman 0-1000	6.78	10.18	63.46	80.42	0.00	2.39	7.22	9.61	6.78	12.57	70.68	90.03
skyline 0-1000	0.00	0.21	0.52	0.73	0.00	0.07	0.04	0.11	0.00	0.28	0.56	0.84
upper elkhorn no 1 0-1000	80.33	42.91	18.67	141.91	16.61	0.00	0.00	16.61	96.94	42.91	18.67	158.52
upper elkhorn no 2 0-1000	123.09	91.04	2.37	216.50	14.60	3.29	0.00	17.89	137.69	94.33	2.37	234.39
upper elkhorn no 3 0-1000	41.43	334.88	115.93	492.24	48.65	22.26	0.00	70.91	90.08	357.14	115.93	563.15
upper whitesburg 0-1000	59.95	28.80	0.00	88.75	14.03	5.06	0.00	19.09	73.98	33.86	0.00	107.84
county total =	669.68	974.71	567.35	2211.74	183.13	111.12	14.16	308.41	852.81	1085.83	581.51	2520.15

knox

county

princess no 7												
0-1000	2.34	3.80	4.61	10.75	9.32	4.72	6.44	20.48	11.66	8.52	11.05	31.23
princess no 8												
0-1000	7.77	17.69	1.38	26.84	48.91	0.00	0.00	48.91	56.68	17.69	1.38	75.75
richardson												
0-1000	3.93	4.98	30.15	39.06	29.83	53.57	0.44	83.84	33.76	58.55	30.59	122.90
tom cooper												
0-1000	0.00	0.00	0.00	0.00	10.68	2.02	0.00	12.70	10.68	2.02	0.00	12.70
torchlight												
0-1000	4.49	12.67	6.03	23.19	23.62	5.70	0.00	29.32	28.11	18.37	6.03	52.51
whitesburg												
0-1000	4.60	0.00	0.00	4.60	9.01	0.00	0.00	9.01	13.61	0.00	0.00	13.61
county total =	69.02	50.14	48.72	167.88	288.99	102.33	22.27	413.59	358.01	152.47	70.99	581.47
-----lee county-----												
bit												
barren fork												
0-1000	3.33	0.00	0.00	3.33	11.45	0.00	0.00	11.45	14.78	0.00	0.00	14.78
beaver creek												
0-1000	22.07	23.46	7.55	53.08	41.44	32.20	10.41	84.05	63.51	55.66	17.96	137.13
jellico												
0-1000	0.00	0.00	0.00	0.00	0.08	1.49	0.00	1.57	0.08	1.49	0.00	1.57
lily												
0-1000	2.92	2.48	0.00	5.40	4.34	0.88	0.00	5.22	7.26	3.36	0.00	10.62
uncorrelated												
0-1000	10.68	7.54	0.50	18.72	11.64	6.01	0.00	17.65	22.32	13.55	0.50	36.37
county total =	39.00	33.48	8.05	80.53	68.95	40.58	10.41	119.94	107.95	74.06	18.46	200.47
-----lelie county-----												
bit												
amburgy												
0-1000	27.97	39.62	0.00	67.59	59.48	65.55	0.00	125.03	87.45	105.17	0.00	192.62
fire clay												
0-1000	164.23	239.05	101.70	504.98	130.23	78.14	23.46	231.83	294.46	317.19	125.16	736.81
fire clay rider												
0-1000	152.93	115.74	28.36	297.03	119.64	11.50	4.33	135.47	272.57	127.24	32.69	432.50
francis												
0-1000	5.59	11.96	15.71	33.26	14.08	17.43	12.52	44.03	19.67	29.39	28.23	77.29
haddix												
0-1000	1.51	5.19	1.08	7.78	19.25	6.07	0.00	25.32	20.76	11.26	1.08	33.10
hazard												
0-1000	65.05	165.69	69.16	299.90	32.72	26.62	6.12	65.46	97.77	192.31	75.28	365.36
hazard no 7												
0-1000	39.87	45.51	17.53	102.91	18.93	18.65	0.35	37.93	58.80	64.16	17.88	140.84
hindman												
0-1000	1.60	3.00	16.82	21.42	19.74	16.33	48.00	84.07	21.34	19.33	64.82	105.49
lower hamlin												
0-1000	0.00	0.00	0.00	0.00	27.82	0.00	0.00	27.82	27.82	0.00	0.00	27.82
lower whitesburg												
0-1000	31.55	3.31	1.17	36.03	2.52	0.00	0.00	2.52	34.07	3.31	1.17	38.55
upper elkhorn no 3												
0-1000	2.14	4.80	0.00	6.94	22.41	25.00	0.00	47.41	24.55	29.80	0.00	54.35
upper hamlin												
0-1000	3.03	0.50	0.00	3.53	18.82	5.30	0.20	24.32	21.85	5.80	0.20	27.85
upper whitesburg												
0-1000	1.53	0.00	0.00	1.53	9.37	0.00	0.00	9.37	10.90	0.00	0.00	10.90

county total =	497.00	634.37	251.53	1382.90	495.01	270.59	94.98	860.58	992.01	904.96	346.51	2243.48	-----

letcher				county									

bit													
amburgy													
0-1000	58.22	65.80	25.49	149.51	107.90	34.29	1.77	143.96	166.12	100.09	27.26	293.47	
collier													
0-1000	0.00	0.00	0.00	0.00	6.25	0.00	0.00	6.25	6.25	0.00	0.00	6.25	
cornett													
0-1000	0.00	0.00	0.64	0.64	0.00	2.40	0.67	3.07	0.00	2.40	1.31	3.71	
darby													
0-1000	0.00	0.00	0.00	0.00	1.22	0.37	0.00	1.59	1.22	0.37	0.00	1.59	
elkhorn leader													
0-1000	55.17	16.29	1.30	72.76	32.06	0.00	0.00	32.06	87.23	16.29	1.30	104.82	
fire clay													
0-1000	21.95	78.57	180.32	280.84	8.29	54.75	1.35	64.39	30.24	133.32	181.67	345.23	
francis													
0-1000	0.00	0.00	0.00	0.00	0.00	1.56	0.00	1.56	0.00	1.56	0.00	1.56	
haddix													
0-1000	0.00	2.53	18.18	20.71	0.00	4.62	0.00	4.62	0.00	7.15	18.18	25.33	
harlan													
0-1000	3.02	8.83	0.00	11.85	3.41	0.00	0.00	3.41	6.43	8.83	0.00	15.26	
hazard													
0-1000	1.76	11.06	51.27	64.09	0.04	5.18	1.49	6.71	1.80	16.24	52.76	70.80	
hazard no 7													
0-1000	0.71	2.71	12.46	15.88	2.16	2.44	2.57	7.17	2.87	5.15	15.03	23.05	
high splint													
0-1000	0.00	1.60	3.03	4.63	1.18	0.00	0.00	1.18	1.18	1.60	3.03	5.81	
imboden													
0-1000	0.96	11.39	97.27	109.62	14.52	0.00	0.00	14.52	15.48	11.39	97.27	124.14	
kellioka													
0-1000	0.00	8.11	0.00	8.11	17.60	5.87	0.00	23.47	17.60	13.98	0.00	31.58	
low splint													
0-1000	0.00	0.00	0.00	0.00	0.73	8.99	11.17	20.89	0.73	8.99	11.17	20.89	
lower elkhorn													
0-1000	5.58	8.37	0.00	13.95	16.39	0.00	0.00	16.39	21.97	8.37	0.00	30.34	
upper elkhorn no 1													
0-1000	51.62	0.65	0.45	52.72	15.17	0.00	0.00	15.17	66.79	0.65	0.45	67.89	
upper elkhorn no 2													
0-1000	55.03	2.75	0.00	57.78	35.41	9.09	0.00	44.50	90.44	11.84	0.00	102.28	
upper elkhorn no 3													
0-1000	35.29	111.66	289.11	436.06	25.36	8.09	24.59	58.04	60.65	119.75	313.70	494.10	
upper hamlin													
0-1000	0.59	1.18	25.95	27.72	3.06	6.78	0.00	9.84	3.65	7.96	25.95	37.56	
upper whitesburg													
0-1000	25.16	45.70	14.85	85.71	55.79	3.77	0.00	59.56	80.95	49.47	14.85	145.27	

county total =	315.06	377.20	720.32	1412.58	346.54	148.20	43.61	538.35	661.60	525.40	763.93	1950.93	-----

magoffin				county									

bit													
colvin													
0-1000	10.12	1.38	0.00	11.50	0.00	0.00	0.00	0.00	10.12	1.38	0.00	11.50	
fire clay													
0-1000	110.70	35.65	0.00	146.35	23.83	2.25	0.00	26.08	134.53	37.90	0.00	172.43	
fire clay rider													
0-1000	0.93	0.00	0.00	0.93	2.11	0.00	0.00	2.11	3.04	0.00	0.00	3.04	

fugate													
0-1000	15.47	9.61	10.51	35.59	15.31	10.85	0.00	26.16	30.78	20.46	10.51	61.75	
grassy													
0-1000	5.87	0.00	0.00	5.87	7.71	0.00	0.00	7.71	13.58	0.00	0.00	13.58	
gun creek													
0-1000	55.16	7.61	0.00	62.77	56.89	1.52	0.00	58.41	112.05	9.13	0.00	121.18	
haddix													
0-1000	0.00	1.24	0.00	1.24	5.69	0.00	0.00	5.69	5.69	1.24	0.00	6.93	
hamlin													
0-1000	39.91	7.64	0.00	47.55	13.23	0.00	0.00	13.23	53.14	7.64	0.00	60.78	
hindman													
0-1000	0.00	2.33	1.35	3.68	8.82	0.34	0.00	9.16	8.82	2.67	1.35	12.84	
index													
0-1000	36.27	47.28	30.41	113.96	11.38	5.94	0.00	17.32	47.65	53.22	30.41	131.28	
mine fork													
0-1000	1.62	0.00	0.00	1.62	5.53	0.00	0.00	5.53	7.15	0.00	0.00	7.15	
nickell													
0-1000	0.00	0.45	0.00	0.45	0.09	0.00	0.00	0.09	0.09	0.45	0.00	0.54	
oakley													
0-1000	29.71	63.47	8.62	101.80	33.44	6.39	0.00	39.83	63.15	69.86	8.62	141.63	
prater													
0-1000	8.51	8.37	0.37	17.25	1.57	0.00	0.00	1.57	10.08	8.37	0.37	18.82	
skyline													
0-1000	0.12	1.81	7.96	9.89	0.84	0.22	0.69	1.75	0.96	2.03	8.65	11.64	
tom cooper													
0-1000	100.17	39.44	1.00	140.61	47.31	5.82	0.00	53.13	147.48	45.26	1.00	193.74	
uncorrelated													
0-1000	0.06	0.00	0.00	0.06	0.66	0.00	0.00	0.66	0.72	0.00	0.00	0.72	
upper elkhorn no 1													
0-1000	22.16	22.09	0.00	44.25	27.56	5.75	0.00	33.31	49.72	27.84	0.00	77.56	
upper elkhorn no 2													
0-1000	1.08	0.00	0.00	1.08	0.00	0.00	0.00	0.00	1.08	0.00	0.00	1.08	
whitesburg													
0-1000	46.39	13.94	0.16	60.49	26.75	0.00	0.00	26.75	73.14	13.94	0.16	87.24	
county total =	484.25	262.31	60.38	806.94	288.72	39.08	0.69	328.49	772.97	301.39	61.07	1135.43	

martin county													

bit													
fire clay													
0-1000	20.03	64.49	0.00	84.52	39.50	71.84	0.00	111.34	59.53	136.33	0.00	195.86	
fire clay rider													
0-1000	19.22	22.06	0.00	41.28	24.99	20.64	0.00	45.63	44.21	42.70	0.00	86.91	
haddix													
0-1000	12.97	31.36	1.89	46.22	38.36	87.69	16.65	142.70	51.33	119.05	18.54	188.92	
hamlin													
0-1000	8.23	22.93	3.35	34.51	18.76	57.68	0.00	76.44	26.99	80.61	3.35	110.95	
lower elkhorn													
0-1000	0.00	0.00	0.00	0.00	0.00	23.83	0.00	23.83	0.00	23.83	0.00	23.83	
lower whitesburg													
0-1000	7.91	2.93	0.00	10.84	37.40	0.00	0.00	37.40	45.31	2.93	0.00	48.24	
peach orchard													
0-1000	14.08	36.48	94.67	145.23	8.37	84.04	129.57	221.98	22.45	120.52	224.24	367.21	
richardson													
0-1000	0.00	0.38	19.15	19.53	0.00	1.31	39.19	40.50	0.00	1.69	58.34	60.03	
torchlight													
0-1000	1.43	17.26	120.61	139.30	5.50	25.91	72.75	104.16	6.93	43.17	193.36	243.46	
upper elkhorn no 3													
0-1000	0.00	4.73	17.07	21.80	0.00	11.92	29.13	41.05	0.00	16.65	44.20	62.85	

upper whitesburg												
0-1000	0.00	0.00	0.00	0.00	7.60	0.00	0.00	7.60	7.60	0.00	0.00	7.60
williamson												
0-1000	0.00	1.41	0.00	1.41	5.84	25.36	0.00	31.20	5.84	26.77	0.00	32.61
county total =	83.87	204.03	256.74	544.64	186.32	410.22	287.29	883.83	270.19	614.25	544.03	1428.47

mccreary county												

bit												
bacon creek												
0-1000	1.87	0.00	0.00	1.87	0.00	0.00	0.00	0.00	1.87	0.00	0.00	1.87
barren fork												
0-1000	30.77	26.21	0.00	56.98	37.50	59.74	0.00	97.24	68.27	85.95	0.00	154.22
beaver creek												
0-1000	28.14	73.50	68.54	170.18	6.61	0.92	14.60	22.13	34.75	74.42	83.14	192.31
blue gem												
0-1000	2.72	0.00	0.00	2.72	5.30	0.00	0.00	5.30	8.02	0.00	0.00	8.02
hudson												
0-1000	20.20	39.31	34.14	93.65	0.00	0.00	0.00	0.00	20.20	39.31	34.14	93.65
jellico												
0-1000	1.46	0.32	0.00	1.78	6.54	1.28	0.00	7.82	8.00	1.60	0.00	9.60
lily												
0-1000	25.59	2.28	0.00	27.87	33.33	1.84	0.00	35.17	58.92	4.12	0.00	63.04
stearns no 1 1/2												
0-1000	7.62	7.52	9.12	24.26	1.03	0.00	0.00	1.83	9.45	7.52	9.12	26.09
uncorrelated												
0-1000	3.34	0.00	0.00	3.34	14.11	0.00	0.00	14.11	17.45	0.00	0.00	17.45
county total =	121.71	149.14	111.80	382.65	105.22	63.78	14.60	183.60	226.93	212.92	126.40	566.25

menifee county												

bit												
beattyville												
0-1000	18.46	4.80	0.00	23.26	7.66	0.00	0.00	7.66	26.12	4.80	0.00	30.92
county total =	18.46	4.80	0.00	23.26	7.66	0.00	0.00	7.66	26.12	4.80	0.00	30.92

morgan county												

bit												
adele												
0-1000	0.58	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.58
fire clay												
0-1000	19.62	5.96	1.56	27.14	6.58	1.55	0.00	8.13	26.20	7.51	1.56	35.27
fugate												
0-1000	6.34	0.92	0.00	7.26	0.00	0.00	0.00	0.00	6.34	0.92	0.00	7.26
grassy												
0-1000	58.77	0.00	0.00	58.77	15.70	0.00	0.00	15.70	74.47	0.00	0.00	74.47
gun creek												
0-1000	17.98	20.75	0.00	38.73	13.43	0.36	0.00	13.79	31.41	21.11	0.00	52.52
haddix												
0-1000	0.00	0.30	0.00	0.30	0.07	0.00	0.00	0.07	0.07	0.30	0.00	0.37
hamlin												
0-1000	1.59	0.00	0.00	1.59	10.44	0.00	0.00	10.44	12.03	0.00	0.00	12.03
index												
0-1000	19.52	3.91	0.00	23.43	51.30	37.58	0.00	88.88	70.82	41.49	0.00	112.31
mine fork												
0-1000	1.93	0.00	0.00	1.93	3.44	0.00	0.00	3.44	5.37	0.00	0.00	5.37

nickell												
0-1000	1.18	0.00	0.00	1.18	0.69	0.00	0.00	0.69	1.87	0.00	0.00	1.87
oakley												
0-1000	8.43	0.00	0.00	8.43	2.46	4.75	0.00	7.21	10.89	4.75	0.00	15.64
richardson												
0-1000	0.00	0.00	4.93	4.93	0.00	0.00	3.99	3.99	0.00	0.00	8.92	8.92
tom cooper												
0-1000	62.57	17.31	0.00	79.88	39.67	39.61	0.00	79.28	102.24	56.92	0.00	159.16
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.42	0.42	0.00	0.00	0.42
county total =	198.51	49.15	6.49	254.15	144.20	83.85	3.99	232.04	342.71	133.00	10.48	486.19

owsley

county

bit												
barren fork												
0-1000	2.68	0.00	0.00	2.68	2.23	0.00	0.00	2.23	4.91	0.00	0.00	4.91
beaver creek												
0-1000	0.00	0.00	0.00	0.00	5.13	3.37	0.00	8.50	5.13	3.37	0.00	8.50
jellico												
0-1000	0.00	0.00	0.00	0.00	0.00	1.43	0.00	1.43	0.00	1.43	0.00	1.43
lily												
0-1000	0.64	2.12	0.66	3.42	2.16	3.71	0.00	5.87	2.80	5.83	0.66	9.29
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	0.19	0.44	0.00	0.63	0.19	0.44	0.00	0.63
county total =	3.32	2.12	0.66	6.10	9.71	8.95	0.00	18.66	13.03	11.07	0.66	24.76

perry

county

bit												
amburgy												
0-1000	46.24	64.81	0.00	111.05	50.85	199.23	0.00	250.08	97.09	264.04	0.00	361.13
fire clay												
0-1000	167.81	234.19	118.38	520.38	30.98	10.22	23.86	65.06	198.79	244.41	142.24	585.44
fire clay rider												
0-1000	65.17	27.78	0.59	93.54	1.73	0.00	0.00	1.73	66.90	27.78	0.59	95.27
francis												
0-1000	15.55	30.95	28.96	75.46	3.16	8.31	8.29	19.76	18.71	39.26	37.25	95.22
haddix												
0-1000	38.58	26.78	4.42	69.78	3.75	0.00	0.00	3.75	42.33	26.78	4.42	73.53
hazard												
0-1000	79.86	229.26	171.40	480.52	9.19	5.30	1.89	16.38	89.05	234.56	173.29	496.90
hazard no 7												
0-1000	24.28	64.51	421.67	510.46	12.03	19.72	14.31	46.06	36.31	84.23	435.98	556.52
hindman												
0-1000	1.55	22.69	67.82	92.06	0.00	3.52	14.30	17.82	1.55	26.21	82.12	109.88
upper elkhorn no 3												
0-1000	8.62	21.41	0.00	30.03	30.64	20.84	0.00	51.48	39.26	42.25	0.00	81.51
county total =	447.66	722.38	813.24	1983.28	142.33	267.14	62.65	472.12	589.99	989.52	875.89	2455.40

pike

county

bit												
auxier												
0-1000	74.43	37.48	6.65	118.56	79.07	3.56	2.77	85.40	153.50	41.04	9.42	203.96
bingham												
0-1000	74.44	96.16	70.64	241.24	137.49	21.26	0.00	158.75	211.93	117.42	70.64	399.99

eagle	0-1000	41.94	23.50	3.15	68.59	23.95	0.00	0.00	23.95	65.89	23.50	3.15	92.54
elswick	0-1000	8.15	31.24	3.42	42.81	57.57	8.18	0.00	65.75	65.72	39.42	3.42	108.56
fire clay	0-1000	21.04	96.42	77.13	194.59	57.06	47.28	4.07	108.41	78.10	143.70	81.20	303.00
fire clay rider	0-1000	0.00	0.00	14.15	14.15	19.07	10.50	1.49	31.06	19.07	10.50	15.64	45.21
haddix	0-1000	0.00	0.00	4.94	4.94	4.72	12.99	5.64	23.35	4.72	12.99	10.58	28.29
hagy	0-1000	43.80	9.92	0.00	53.72	25.21	14.65	0.00	39.86	69.01	24.57	0.00	93.58
hamlin	0-1000	4.79	14.51	40.01	59.31	14.41	15.93	0.00	30.34	19.20	30.44	40.01	89.65
lower elkhorn	0-1000	19.52	184.13	843.47	1047.12	56.80	98.33	30.39	185.52	76.32	282.46	873.86	1232.64
lower whitesburg	0-1000	0.00	1.81	0.00	1.81	0.00	22.11	0.00	22.11	0.00	23.92	0.00	23.92
millard	0-1000	219.86	52.65	7.03	279.54	156.07	13.73	0.00	169.80	375.93	66.38	7.03	449.34
peach orchard	0-1000	1.60	14.75	45.79	62.14	5.29	17.40	5.77	28.46	6.89	32.15	51.56	90.60
richardson	0-1000	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.00	0.00	0.42	0.42
torchlight	0-1000	0.00	2.63	3.71	6.34	0.00	0.68	23.92	24.60	0.00	3.31	27.63	30.94
upper banner	0-1000	4.57	11.20	3.30	19.07	21.15	15.40	0.00	36.55	25.72	26.60	3.30	55.62
upper elkhorn no 1	0-1000	100.40	213.74	71.59	385.73	135.36	82.43	3.45	221.24	235.76	296.17	75.04	606.97
upper elkhorn no 2	0-1000	58.70	264.36	359.13	682.19	147.93	143.70	20.54	312.17	206.63	408.06	379.67	994.36
upper elkhorn no 3	0-1000	24.32	120.64	222.70	367.66	120.35	84.57	10.95	215.87	144.67	205.21	233.65	583.53
upper whitesburg	0-1000	1.15	0.86	4.45	6.46	1.62	0.00	0.00	1.62	2.77	0.86	4.45	8.08
williamson	0-1000	27.72	79.80	162.53	270.05	118.59	20.08	5.45	144.12	146.31	99.88	167.98	414.17
county total =		726.43	1255.80	1943.79	3926.02	1181.71	632.78	114.86	1929.35	1908.14	1888.58	2058.65	5855.37
powell county													
bit													
beattyville	0-1000	2.06	0.98	0.00	3.04	0.90	0.00	0.00	0.90	2.96	0.98	0.00	3.94
county total =		2.06	0.98	0.00	3.04	0.90	0.00	0.00	0.90	2.96	0.98	0.00	3.94
pulaski county													
bit													
barren fork	0-1000	0.74	8.83	2.96	12.53	1.49	0.23	0.00	1.72	2.23	9.06	2.96	14.25
beaver creek	0-1000	0.00	8.43	32.51	40.94	6.57	10.15	8.14	24.86	6.57	18.58	40.65	65.80
county total =		0.74	17.26	35.47	53.47	8.06	10.38	8.14	26.58	8.80	27.64	43.61	80.05
rockcastle county													

bit												
barren fork												
0-1000	3.19	5.95	0.00	9.14	15.56	6.75	0.00	22.31	18.75	12.70	0.00	31.45
beaver creek												
0-1000	19.30	5.88	0.00	25.18	44.51	12.75	0.00	57.26	63.81	18.63	0.00	82.44
hudson												
0-1000	0.26	9.91	1.85	12.02	0.56	18.88	0.00	19.44	0.82	28.79	1.85	31.46
county total =	22.75	21.74	1.85	46.34	60.63	38.38	0.00	99.01	83.38	60.12	1.85	145.35

wayne county

bit												
beaver creek												
0-1000	7.71	15.02	9.67	32.40	4.45	1.95	0.00	6.40	12.16	16.97	9.67	38.80
county total =	7.71	15.02	9.67	32.40	4.45	1.95	0.00	6.40	12.16	16.97	9.67	38.80

whitley county

bit												
haron creek												
0-1000	3.45	0.00	0.00	3.45	13.66	0.00	0.00	13.66	17.11	0.00	0.00	17.11
bennett fork												
0-1000	0.00	3.64	0.00	3.64	0.00	1.12	0.00	1.12	0.00	4.76	0.00	4.76
blue gem												
0-1000	93.62	8.55	0.00	102.17	105.54	0.00	0.00	105.54	199.16	8.55	0.00	207.71
fire clay												
0-1000	0.00	0.00	0.87	0.87	0.00	12.17	7.72	19.89	0.00	12.17	8.59	20.76
jellico												
0-1000	25.17	100.99	2.79	128.95	23.06	57.41	1.07	81.54	48.23	158.40	3.86	210.49
lily												
0-1000	56.20	12.21	0.00	68.41	100.67	15.87	0.00	116.54	156.87	28.08	0.00	184.95
moss												
0-1000	0.06	0.15	0.00	0.21	2.94	0.89	0.00	3.83	3.00	1.04	0.00	4.04
uncorrelated												
0-1000	2.44	0.67	0.00	3.11	7.67	0.00	0.00	7.67	10.11	0.67	0.00	10.78
county total =	180.94	126.21	3.66	310.81	253.54	87.46	8.79	349.79	434.48	213.67	12.45	660.60

wolfe county

bit												
adele												
0-1000	0.93	0.12	0.00	1.05	0.00	0.00	0.00	0.00	0.93	0.12	0.00	1.05
beattyville												
0-1000	1.49	0.00	0.00	1.49	0.00	0.00	0.00	0.00	1.49	0.00	0.00	1.49
fire clay												
0-1000	4.98	0.00	0.00	4.98	7.10	0.00	0.00	7.10	12.08	0.00	0.00	12.08
fugate												
0-1000	0.57	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.57
grassy												
0-1000	9.58	0.58	0.00	10.16	3.25	0.00	0.00	3.25	12.83	0.58	0.00	13.41
gun creek												
0-1000	7.78	12.77	0.00	20.55	9.17	1.18	0.00	10.35	16.95	13.95	0.00	30.90
hamlin												
0-1000	2.02	0.00	0.00	2.02	8.81	0.00	0.00	8.81	10.83	0.00	0.00	10.83
nickell												
0-1000	2.02	0.91	0.00	2.93	4.19	0.00	0.00	4.19	6.21	0.91	0.00	7.12

tom cooper												
0-1000	15.21	5.73	0.00	20.94	14.56	7.97	0.00	22.53	29.77	13.70	0.00	43.47
uncorrelated												
0-1000	14.23	0.00	0.00	14.23	20.21	0.00	0.00	20.21	34.44	0.00	0.00	34.44
zachariah												
0-1000	9.07	13.59	0.99	23.65	26.48	3.41	0.00	29.89	35.55	17.00	0.99	53.54
zachariah rider												
0-1000	1.06	0.00	0.00	1.06	0.00	0.00	0.00	0.00	1.06	0.00	0.00	1.06
county total =	68.94	33.70	0.99	103.63	93.77	12.56	0.00	106.33	162.71	46.26	0.99	209.96
=====												
overburden												
subtotal												
0-1000	6039.66	8661.92	6963.33	21664.90	6616.12	4139.85	1019.28	11775.24	12655.77	12801.77	7982.61	33440.14
total =	6039.66	8661.93	6963.33	21664.92	6616.12	4139.85	1019.28	11775.25	12655.78	12801.78	7982.61	33440.17
=====												
=====												
overburden												
total												
0-1000	6039.66	8661.92	6963.33	21664.90	6616.12	4139.85	1019.28	11775.24	12655.77	12801.77	7982.61	33440.14
grand total =	6039.66	8661.93	6963.33	21664.92	6616.12	4139.85	1019.28	11775.25	12655.78	12801.78	7982.61	33440.17
=====												

total tonnage of identified coal resources in eastern kentucky

33440.17

resource figures taken from:

source	year	base year of resource
usgs bull 1120	1963	original

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
breckinridge county												
bit												
breckinridge cannal												
strippable	0.01	0.00	0.00	0.01	0.26	0.00	0.00	0.26	0.27	0.00	0.00	0.27
county total =	0.01	0.00	0.00	0.01	0.26	0.00	0.00	0.26	0.27	0.00	0.00	0.27
butler county												
bit												
aberdeen												
strippable	1.03	10.33	0.01	11.37	5.18	23.13	0.00	28.31	6.21	33.46	0.01	39.68
foster & amos												
strippable	11.98	0.00	0.00	11.98	12.06	0.00	0.00	12.06	24.04	0.00	0.00	24.04
main nolin												
strippable	8.53	0.00	0.00	8.53	0.00	0.00	0.00	0.00	8.53	0.00	0.00	8.53
mining city												
strippable	6.55	17.86	8.60	33.01	4.49	3.37	0.01	7.87	11.04	21.23	8.61	40.88
strip-1000	1.06	0.30	0.48	1.84	8.68	2.05	0.00	10.73	9.74	2.35	0.48	12.57
mud river												
strippable	0.00	0.62	0.00	0.62	0.36	0.00	0.00	0.36	0.36	0.62	0.00	0.98
strip-1000	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
no 4												
strippable	19.60	47.76	26.77	94.13	13.69	30.09	45.04	88.82	33.29	77.85	71.81	182.95
strip-1000	0.55	8.73	3.05	12.33	0.19	2.06	47.12	49.37	0.74	10.79	50.17	61.70
no 4a												
strippable	2.02	1.44	0.00	3.46	3.33	4.53	0.00	7.86	5.35	5.97	0.00	11.32
strip-1000	0.60	1.89	0.00	2.49	0.47	14.46	0.00	14.93	1.07	16.35	0.00	17.42
nu 6												
strippable	1.30	2.29	0.00	3.59	0.00	0.00	0.00	0.00	1.30	2.29	0.00	3.59
unnamed												
strippable	2.75	0.00	0.00	2.75	7.30	0.00	0.00	7.30	10.05	0.00	0.00	10.05
county total =	55.97	91.25	38.91	186.13	55.75	79.69	92.17	227.61	111.72	170.94	131.08	413.74
caldwell county												
bit												
no 4												
strippable	0.72	1.69	7.91	10.32	0.29	1.69	2.07	4.05	1.01	3.38	9.98	14.37
strip-1000	0.07	0.00	0.65	0.72	0.07	0.60	3.35	4.02	0.14	0.60	4.00	4.74
no 6												
strippable	0.00	0.00	0.51	0.51	0.00	0.12	0.34	0.46	0.00	0.12	0.85	0.97
no 7												

strippable	0.00	0.00	0.65	0.65	0.00	0.00	0.22	0.22	0.00	0.00	0.87	0.87
nos 1 & 2												
strippable	0.00	0.84	4.73	5.57	0.00	18.31	0.84	19.15	0.00	19.15	5.57	24.72
unnamed												
strippable	0.72	6.03	5.91	12.66	0.00	0.96	8.10	9.06	0.72	6.99	14.01	21.72
county total =	1.51	8.56	20.36	30.43	0.36	21.68	14.92	36.96	1.87	30.24	35.28	67.39

christian county												

bit												
bancroft												
strippable	0.05	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.05	0.03	0.00	0.08
empire												
strippable	2.39	10.84	0.34	13.57	0.00	0.00	0.00	0.00	2.39	10.84	0.34	13.57
no 4												
strippable	1.10	18.41	30.78	50.29	1.33	0.00	0.00	1.33	2.43	18.41	30.78	51.62
strip-1000	0.05	0.00	0.00	0.05	0.06	0.00	0.00	0.06	0.11	0.00	0.00	0.11
unnamed												
strippable	0.36	1.32	0.00	1.68	1.74	1.93	0.00	3.67	2.10	3.25	0.00	5.35
county total =	3.95	30.60	31.12	65.67	3.13	1.93	0.00	5.06	7.08	32.53	31.12	70.73

crittenden county												

bit												
no 4												
strippable	0.22	1.93	0.34	2.49	0.36	1.27	0.17	1.80	0.58	3.20	0.51	4.29
nos 1 & 2												
strippable	2.19	12.66	0.49	15.34	0.15	7.83	0.00	7.98	2.34	20.49	0.49	23.32
strip-1000	0.00	0.43	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.43
unnamed												
strippable	0.00	0.24	2.53	2.77	0.00	5.78	5.06	10.84	0.00	6.02	7.59	13.61
county total =	2.41	15.26	3.36	21.03	0.51	14.88	5.23	20.62	2.92	30.14	8.59	41.65

daviess county												

bit												
deanfield												
strippable	2.09	5.66	8.27	16.02	1.22	5.28	23.67	30.17	3.31	10.94	31.94	46.19
strip-1000	0.00	0.04	0.39	0.43	0.00	0.24	19.57	19.81	0.00	0.28	19.96	20.24
havesville												
strippable	3.12	8.08	0.38	11.58	3.11	21.21	0.00	24.32	6.23	29.29	0.38	35.90
lead creek												
strippable	11.21	12.60	0.83	24.64	23.88	14.28	18.72	56.88	35.09	26.88	19.55	81.52
strip-1000	2.22	0.36	0.00	2.58	24.07	7.30	0.00	31.17	26.29	7.66	0.00	33.95
lewisport												
strippable	3.93	95.53	12.87	112.33	23.28	33.90	14.51	71.69	27.21	129.43	27.38	184.02
strip-1000	0.43	0.94	0.00	1.37	1.26	15.33	0.39	16.98	1.69	16.27	0.39	18.35
no 4												
strippable	0.00	4.42	0.00	4.42	0.00	7.39	0.00	7.39	0.00	11.81	0.00	11.81
strip-1000	5.21	61.09	13.29	79.59	3.94	12.20	1.99	18.13	9.15	73.29	15.28	97.72
no 6												
strippable	20.16	53.27	26.31	99.74	4.28	46.94	81.73	132.95	24.44	100.21	108.04	232.69
strip-1000	41.57	38.10	12.67	92.34	37.06	27.32	36.48	100.86	78.63	65.42	49.15	193.20
no 7												
strippable	0.15	0.29	0.00	0.44	0.00	0.00	0.00	0.00	0.15	0.29	0.00	0.44
no 9												
strippable	0.00	13.92	206.10	220.02	0.00	48.28	0.00	48.28	0.00	62.20	206.10	268.30

strip-1000	0.00	1.70	91.66	93.36	0.00	2.96	0.00	2.96	0.00	4.66	91.66	96.32
white ash												
strippable	0.58	2.54	0.00	3.12	6.03	0.60	0.00	6.63	6.61	3.14	0.00	9.75
county total =	90.67	298.54	372.77	761.98	128.13	243.23	197.06	568.42	218.80	541.77	569.83	1330.40

edmonson county												

bit												
main nolin												
strippable	17.41	100.76	0.00	118.17	11.49	0.12	0.00	11.61	28.90	100.88	0.00	129.78
unnamed												
strippable	2.84	0.27	0.00	3.11	7.45	19.28	0.00	26.73	10.29	19.55	0.00	29.84
county total =	20.25	101.03	0.00	121.28	18.94	19.40	0.00	38.34	39.19	120.43	0.00	159.62

grayson county												

bit												
main nolin												
strippable	0.00	90.64	0.00	90.64	0.00	0.00	0.00	0.00	0.00	90.64	0.00	90.64
unnamed												
strippable	11.37	0.00	0.00	11.37	3.03	0.00	0.00	3.03	14.40	0.00	0.00	14.40
county total =	11.37	90.64	0.00	102.01	3.03	0.00	0.00	3.03	14.40	90.64	0.00	105.04

hancock county												

bit												
deanfield												
strippable	3.91	0.00	0.00	3.91	2.02	0.00	0.00	2.02	5.93	0.00	0.00	5.93
hawesville												
strippable	0.00	3.47	0.00	3.47	2.91	25.64	0.00	28.55	2.91	29.11	0.00	32.02
strip-1000	0.00	0.00	0.00	0.00	0.00	3.95	0.00	3.95	0.00	3.95	0.00	3.95
lead creek												
strippable	12.82	10.28	0.00	23.10	13.23	10.24	7.16	30.63	26.05	20.52	7.16	53.73
strip-1000	0.05	0.00	0.00	0.05	0.06	0.00	0.00	0.06	0.11	0.00	0.00	0.11
lewisport												
strippable	0.67	3.12	3.66	7.45	0.02	0.08	1.64	1.74	0.69	3.20	5.30	9.19
unnamed												
strippable	1.20	5.08	0.00	6.28	1.70	57.04	0.00	58.74	2.90	62.12	0.00	65.02
strip-1000	0.01	0.00	0.00	0.01	0.10	0.00	0.00	0.10	0.11	0.00	0.00	0.11
white ash												
strippable	0.12	0.00	0.00	0.12	0.09	0.00	0.00	0.09	0.21	0.00	0.00	0.21
county total =	18.78	21.95	3.66	44.39	20.13	96.95	8.80	125.88	38.91	118.90	12.46	170.27

henderson county												

bit												
no 13												
strippable	0.23	0.00	0.00	0.23	0.00	0.40	0.00	0.40	0.23	0.40	0.00	0.63
strip-1000	2.42	135.84	217.86	356.12	12.23	38.40	84.92	135.55	14.65	174.24	302.78	491.67
no 14												
strip-1000	0.00	0.00	0.00	0.00	0.00	24.58	4.05	28.63	0.00	24.58	4.05	28.63
no 4												
strip-1000	11.78	71.82	18.56	102.16	115.53	782.41	339.91	1237.85	127.31	854.23	358.47	1340.01
no 6												
strippable	0.00	4.22	1.00	5.22	0.00	0.48	16.87	17.35	0.00	4.70	17.87	22.57
strip-1000	4.25	507.68	978.95	1490.88	3.47	132.18	140.42	276.07	7.72	639.86	1119.37	1766.95

no 9													
strippable	0.00	10.36	123.46	133.82	0.00	0.00	0.00	0.00	0.00	10.36	123.46	133.82	
strip-1000	0.22	22.71	1935.11	1958.04	0.00	0.00	0.00	0.00	0.22	22.71	1935.11	1958.04	
nos 11 & 12													
strippable	0.00	0.00	5.58	5.58	0.00	0.00	29.74	29.74	0.00	0.00	35.32	35.32	
strip-1000	9.62	91.04	544.04	644.70	17.35	111.96	301.13	430.44	26.97	203.00	845.17	1075.14	
county total =	28.52	843.67	3824.56	4696.75	148.58	1090.41	917.04	2156.03	177.10	1934.08	4741.60	6852.78	

hopkins county													

bit													
bancroft													
strippable	1.62	0.00	0.00	1.62	0.84	0.70	0.00	1.54	2.46	0.70	0.00	3.16	
strip-1000	0.03	0.00	0.00	0.03	0.01	0.06	0.00	0.07	0.04	0.06	0.00	0.10	
empire													
strippable	3.76	3.13	0.00	6.89	0.00	0.00	0.00	0.00	3.76	3.13	0.00	6.89	
no 13													
strippable	6.56	3.86	36.23	46.65	0.42	0.43	58.26	59.11	6.98	4.29	94.49	105.76	
strip-1000	10.18	31.91	57.36	99.45	39.98	191.81	173.46	405.25	50.16	223.72	230.82	504.70	
no 14													
strippable	3.45	0.00	59.75	63.20	0.92	0.00	62.20	63.12	4.37	0.00	121.95	126.32	
strip-1000	0.00	13.40	68.92	82.32	0.00	179.89	341.99	521.88	0.00	193.29	410.91	604.20	
no 15													
strippable	0.00	3.25	0.00	3.25	0.00	0.60	0.00	0.60	0.00	3.85	0.00	3.85	
strip-1000	0.00	0.36	0.00	0.36	0.00	0.72	0.00	0.72	0.00	1.08	0.00	1.08	
no 4													
strippable	18.44	41.68	130.91	191.03	14.03	34.06	22.73	70.82	32.47	75.74	153.64	261.85	
strip-1000	47.23	188.37	250.55	486.15	60.48	621.48	311.75	993.71	107.71	809.85	562.30	1479.86	
no 6													
strippable	14.39	26.43	9.80	50.62	26.22	15.29	15.28	56.79	40.61	41.72	25.08	107.41	
strip-1000	35.82	269.78	179.57	485.17	47.55	324.31	366.49	738.35	83.37	594.09	546.06	1223.52	
no 7													
strippable	9.87	11.13	3.86	24.86	16.80	33.24	0.17	50.21	26.67	44.37	4.03	75.07	
strip-1000	3.70	7.50	0.17	11.37	18.88	55.22	4.05	78.15	22.58	62.72	4.22	89.52	
no 8													
strippable	0.15	1.57	0.00	1.72	0.07	17.23	0.00	17.30	0.22	18.80	0.00	19.02	
no 9													
strippable	0.00	10.24	365.50	375.74	0.00	0.00	0.00	0.00	0.00	10.24	365.50	375.74	
strip-1000	0.00	1.39	1313.94	1315.33	0.00	0.00	0.00	0.00	0.00	1.39	1313.94	1315.33	
nos 11 & 12													
strippable	0.00	0.24	487.22	487.46	0.00	0.00	79.54	79.54	0.00	0.24	566.76	567.00	
strip-1000	5.01	25.00	1103.53	1133.54	1.71	0.31	775.43	777.45	6.72	25.31	1878.96	1910.99	
unnamed													
strippable	0.00	12.90	0.00	12.90	0.00	20.59	0.00	20.59	0.00	33.49	0.00	33.49	
county total =	160.21	652.14	4067.31	4879.66	227.91	1495.94	2211.35	3935.20	388.12	2148.08	6278.66	8814.86	

mclean county													

bit													
no 10													
strip-1000	2.17	19.94	0.00	22.11	0.62	33.59	0.00	34.21	2.79	53.53	0.00	56.32	
no 13													
strippable	0.00	0.62	1.36	1.98	0.00	0.00	0.00	0.00	0.00	0.62	1.36	1.98	
strip-1000	28.48	25.74	25.75	79.97	16.52	72.78	160.13	249.43	45.00	98.52	185.88	329.40	
no 14													
strip-1000	0.00	4.83	0.00	4.83	0.00	59.55	0.00	59.55	0.00	64.38	0.00	64.38	
no 4													
strippable	0.00	2.90	0.00	2.90	0.00	2.05	0.00	2.05	0.00	4.95	0.00	4.95	

no 6	strip-1000	0.00	34.53	65.21	99.74	20.06	272.99	149.08	442.13	20.06	307.52	214.29	541.87
	strippable	0.00	6.41	0.00	6.41	0.72	5.48	4.63	10.83	0.72	11.89	4.63	17.24
	strip-1000	12.57	339.70	80.84	433.11	7.10	145.12	187.57	339.79	19.67	484.82	268.41	772.90
no 9	strippable	0.00	7.78	106.38	114.16	0.00	0.00	0.00	0.00	0.00	7.78	106.38	114.16
	strip-1000	0.00	5.50	773.17	778.67	0.00	0.00	204.75	204.75	0.00	5.50	977.92	983.42
nos 11 & 12	strippable	0.00	0.00	1.52	1.52	0.00	0.00	14.75	14.75	0.00	0.00	16.27	16.27
	strip-1000	41.23	20.42	133.14	194.79	32.83	17.69	428.23	478.75	74.06	38.11	561.37	673.54
county total =		84.45	468.37	1187.37	1740.19	77.85	609.25	1149.14	1836.24	162.30	1077.62	2336.51	3576.43

muhlenberg

county

bit

bancroft	strippable	25.11	5.41	3.14	33.66	27.64	13.48	0.00	41.12	52.75	18.89	3.14	74.78
	strip-1000	0.44	1.44	0.20	2.08	0.49	32.01	0.00	32.50	0.93	33.45	0.20	34.58
mud river	strippable	1.52	7.59	4.92	14.03	2.51	0.60	0.00	3.11	4.03	8.19	4.92	17.14
	strip-1000	0.15	0.28	0.37	0.80	18.80	0.00	0.00	18.80	18.95	0.28	0.37	19.60
no 10	strippable	0.22	2.89	0.04	3.15	0.00	4.22	0.00	4.22	0.22	7.11	0.04	7.37
	strip-1000	4.37	13.59	3.16	21.12	1.73	21.02	0.00	22.75	6.10	34.61	3.16	43.87
no 13	strippable	61.12	22.75	10.40	94.27	49.48	0.00	0.00	49.48	110.60	22.75	10.40	143.75
	strip-1000	43.75	9.11	23.14	76.00	5.98	1.46	38.54	45.98	49.73	10.57	61.68	121.98
no 14	strippable	5.65	3.28	63.85	72.78	14.19	8.17	0.00	22.36	19.84	11.45	63.85	95.14
	strip-1000	0.93	11.75	25.31	37.99	3.66	18.93	0.72	23.31	4.59	30.68	26.03	61.30
no 15	strippable	4.57	0.00	0.00	4.57	0.00	0.00	0.00	0.00	4.57	0.00	0.00	4.57
no 4	strippable	5.56	14.60	17.27	37.43	1.91	44.18	4.51	50.60	7.47	58.78	21.78	88.03
	strip-1000	9.71	119.75	36.01	165.47	22.33	557.28	56.16	635.77	32.04	677.03	92.17	801.24
no 6	strippable	8.73	27.42	2.50	38.65	17.15	36.20	0.68	54.03	25.88	63.62	3.18	92.68
	strip-1000	6.45	44.54	91.07	142.06	69.24	131.79	442.63	643.66	75.69	176.33	533.70	785.72
no 9	strippable	0.00	59.13	370.95	430.08	0.00	0.00	0.00	0.00	0.00	59.13	370.95	430.08
	strip-1000	0.00	163.97	512.13	676.10	0.00	0.00	0.00	0.00	0.00	163.97	512.13	676.10
nos 11 & 12	strippable	0.00	72.74	688.94	761.68	0.00	0.00	82.26	82.26	0.00	72.74	771.20	843.94
	strip-1000	0.00	9.92	314.77	324.69	0.00	5.92	51.44	57.36	0.00	15.84	366.21	382.05
county total =		178.28	590.16	2168.17	2936.61	235.11	875.26	676.94	1787.31	413.39	1463.42	2045.11	4723.92

ohio

county

bit

deanfield	strippable	19.74	33.10	33.77	86.61	2.57	16.95	48.10	67.62	22.31	50.05	81.87	154.23
	strip-1000	1.72	5.44	11.63	18.79	0.38	10.32	34.49	45.19	2.10	15.76	46.12	63.98
elm lick	strippable	4.85	20.70	14.46	40.01	11.86	15.66	1.59	29.11	16.71	36.36	16.05	69.12
	strip-1000	0.27	2.83	0.00	3.10	1.59	7.11	0.00	8.70	1.86	9.94	0.00	11.80
lead creek	strippable	0.00	9.25	0.00	9.25	0.00	42.96	0.00	42.96	0.00	52.21	0.00	52.21
	strip-1000	0.00	0.03	0.00	0.03	0.00	4.13	0.00	4.13	0.00	4.16	0.00	4.16

lewisport													
strippable	4.88	4.21	0.00	9.09	6.07	2.89	0.00	8.96	10.95	7.10	0.00	18.05	
strip-1000	0.09	0.00	0.00	0.09	0.06	0.00	0.00	0.06	0.15	0.00	0.00	0.15	
no 10													
strippable	0.36	1.81	0.00	2.17	0.00	0.00	1.45	1.45	0.36	1.81	1.45	3.62	
no 13													
strippable	3.19	2.04	17.92	23.15	16.15	11.45	49.59	77.19	19.34	13.49	67.51	100.34	
no 14													
strippable	0.00	0.00	62.95	62.95	0.00	0.00	41.97	41.97	0.00	0.00	104.92	104.92	
strip-1000	0.00	0.00	0.13	0.13	0.00	0.00	0.12	0.12	0.00	0.00	0.25	0.25	
no 4													
strippable	1.22	3.47	0.58	5.27	0.51	6.35	0.35	7.21	1.73	9.82	0.93	12.48	
strip-1000	0.00	6.23	0.00	6.23	0.00	44.12	6.08	50.20	0.00	50.35	6.08	56.43	
no 6													
strippable	5.80	1.63	0.94	8.37	3.47	0.00	0.50	3.97	9.27	1.63	1.44	12.34	
strip-1000	1.49	1.53	9.81	12.83	15.71	40.53	25.97	82.21	17.20	42.06	35.78	95.04	
no 8													
strippable	0.92	0.00	0.00	0.92	9.76	0.00	0.00	9.76	10.68	0.00	0.00	10.68	
strip-1000	0.94	0.00	10.28	11.22	13.85	4.87	55.69	74.41	14.79	4.87	65.97	85.63	
no 9													
strippable	0.04	2.88	231.88	234.80	0.00	0.00	0.00	0.00	0.04	2.88	231.88	234.80	
strip-1000	0.00	0.01	340.71	340.72	0.00	0.00	0.00	0.00	0.00	0.01	340.71	340.72	
nos 11 & 12													
strippable	0.54	8.54	134.47	143.55	0.43	26.92	184.60	211.95	0.97	35.44	319.07	365.50	
strip-1000	0.00	0.65	11.35	12.00	0.00	7.70	10.63	18.33	0.00	8.35	21.98	30.33	
truman hill													
strippable	1.32	0.00	0.00	1.32	0.00	0.00	0.00	0.00	1.32	0.00	0.00	1.32	
unnamed													
strippable	6.56	0.00	0.00	6.56	0.00	0.00	0.00	0.00	6.56	0.00	0.00	6.56	
strip-1000	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	
county total =	53.96	104.35	880.88	1039.19	82.41	241.96	461.13	785.50	136.37	346.31	1342.01	1824.69	

union

county

bit													
geiger lake													
strippable	1.09	0.99	0.00	2.08	0.00	0.34	0.00	0.34	1.09	1.33	0.00	2.42	
no 10													
strippable	0.08	1.98	0.54	2.60	0.00	1.68	0.00	1.68	0.08	3.66	0.54	4.28	
strip-1000	28.36	9.86	0.00	38.22	8.22	1.92	0.00	10.14	36.58	11.78	0.00	48.36	
no 13													
strippable	1.73	8.30	0.00	10.03	2.81	10.53	1.13	14.47	4.54	18.83	1.13	24.50	
strip-1000	29.96	156.30	75.85	262.11	14.40	151.29	223.62	389.31	44.36	307.59	299.47	651.42	
no 14													
strip-1000	0.00	0.00	0.00	0.00	0.00	5.90	2.70	8.60	0.00	5.90	2.70	8.60	
no 16													
strippable	0.00	8.19	0.63	8.82	0.21	0.86	0.07	1.14	0.21	9.05	0.70	9.96	
strip-1000	0.32	13.88	46.69	60.89	0.00	10.84	118.58	129.42	0.32	24.72	165.27	190.31	
no 4													
strippable	0.00	0.00	0.00	0.00	0.00	7.60	5.53	13.13	0.00	7.60	5.53	13.13	
strip-1000	0.00	0.00	0.00	0.00	110.54	453.44	245.09	809.07	110.54	453.44	245.09	809.07	
no 6													
strippable	0.19	3.42	7.21	10.82	0.00	6.79	0.00	6.79	0.19	10.21	7.21	17.61	
strip-1000	4.27	283.66	515.65	803.58	4.93	174.55	212.76	392.24	9.20	458.21	728.41	1195.82	
no 7													
strippable	2.58	17.40	4.94	24.92	0.00	0.00	0.00	0.00	2.58	17.40	4.94	24.92	
strip-1000	0.00	17.21	16.56	33.77	0.00	22.47	41.71	64.18	0.00	39.68	58.27	97.95	
no 9													
strippable	0.00	0.00	22.05	22.05	0.00	0.00	0.00	0.00	0.00	0.00	22.05	22.05	

strip-1000		0.00	0.00	1628.54	1628.54	0.00	0.00	0.00	0.00	0.00	0.00	1628.54	1628.54
nos 11 & 12	strippable	0.72	17.48	37.53	55.73	0.00	4.93	15.78	20.71	0.72	22.41	53.31	76.44
	strip-1000	6.27	57.64	1195.61	1259.52	7.05	22.03	393.11	422.19	13.32	79.67	1588.72	1681.71
county total =		75.57	596.31	3551.80	4223.68	148.16	875.17	1260.08	2283.41	223.73	1471.48	4811.88	6507.09

warren county													

bit													
main	nolin												
	strippable	2.03	3.37	0.00	5.40	0.01	0.00	0.00	0.01	2.04	3.37	0.00	5.41
unnamed	strippable	1.66	0.72	0.00	2.38	0.36	0.00	0.00	0.36	2.02	0.72	0.00	2.74
county total =		3.69	4.09	0.00	7.78	0.37	0.00	0.00	0.37	4.06	4.09	0.00	8.15

webster county													

bit													
no 10	strippable	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.84	0.00	0.84	0.00	0.84
	strip-1000	0.00	0.00	0.00	0.00	0.00	8.56	0.00	8.56	0.00	8.56	0.00	8.56
no 13	strippable	0.00	0.45	52.60	53.05	0.00	0.00	2.72	2.72	0.00	0.45	55.32	55.77
	strip-1000	1.94	11.85	232.08	245.87	2.50	19.86	406.01	428.37	4.44	31.71	638.09	674.24
no 14	strip-1000	0.00	13.28	15.34	28.62	0.00	27.38	131.94	159.32	0.00	40.66	147.28	187.94
no 15	strippable	0.00	6.63	0.00	6.63	0.00	7.23	0.00	7.23	0.00	13.86	0.00	13.86
	strip-1000	0.00	0.24	28.07	28.31	0.00	0.00	0.00	0.00	0.00	0.24	28.07	28.31
no 4	strippable	1.44	2.77	0.00	4.21	0.22	19.16	0.00	19.38	1.66	21.93	0.00	23.59
	strip-1000	1.99	68.93	0.26	71.18	49.33	497.81	105.87	653.01	51.32	566.74	106.13	724.19
no 6	strippable	0.00	12.77	7.59	20.36	0.00	9.04	7.93	16.97	0.00	21.81	15.52	37.33
	strip-1000	4.89	163.36	137.20	305.45	35.63	235.50	328.93	600.06	40.52	398.86	466.13	905.51
no 7	strippable	0.22	1.44	0.00	1.66	0.51	0.12	0.00	0.63	0.73	1.56	0.00	2.29
no 8	strippable	0.94	0.12	0.00	1.06	0.00	0.00	0.00	0.00	0.94	0.12	0.00	1.06
no 9	strippable	0.00	0.36	104.51	104.87	0.00	0.00	0.00	0.00	0.00	0.36	104.51	104.87
	strip-1000	0.00	34.58	1547.78	1582.36	0.00	0.00	0.00	0.00	0.00	34.58	1547.78	1582.36
nos 11 & 12	strippable	0.00	3.01	34.28	37.29	0.00	1.21	6.53	7.74	0.00	4.22	40.81	45.03
	strip-1000	5.43	54.65	747.15	807.23	10.63	46.43	1062.83	1119.89	16.06	101.08	1809.98	1927.12
county total =		16.85	374.44	2906.86	3298.15	98.82	873.14	2052.76	3024.72	115.67	1247.58	4959.62	6322.87
=====													
overburden subtotal													
	strippable	386.15	1083.78	3611.42	5081.35	382.12	820.20	968.74	2171.06	768.27	1903.98	4580.16	7252.41
	strip-1000	420.30	3207.58	15445.71	19073.59	867.33	5718.69	8077.88	14663.90	1287.63	8926.27	23523.59	33737.48
total =		806.45	4291.36	19057.13	24154.94	1249.45	6538.89	9046.62	16834.96	2055.90	10830.25	28103.75	40989.90

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overburden
total
strippable 386.15 1083.78 3611.42 5081.35 382.12 820.20 968.74 2171.06 768.27 1903.98 4580.16 7252.41
strip-1000 420.30 3207.58 15445.71 19073.59 867.33 5718.69 8077.88 14663.90 1287.63 8926.27 23523.59 33737.48
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grand total = 806.45 4291.36 19057.13 24154.94 1249.45 6538.89 9046.62 16834.96 2055.90 10830.25 28103.75 40989.90
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total tonnage of identified coal resources in western kentucky 40989.90

resource figures taken from:

source	year	base year of resource
kentucky gs of-w ky	1978	original

average analyses of coal in kentucky

proximate analysis (percent)														ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen													
bell														county								
bit	blue gem	3.8	35.5	55.1	9.4	5.0	76.7	1.9	5.8	1.2	13670	2700	1									
	fire clay	4.0	37.6	55.1	7.3	5.1	73.8	1.7	6.8	1.0	13872	2627	18									
	haddix	3.1	37.0	47.1	15.9	0.0	0.0	0.0	0.0	1.2	12120	2570	1									
	harlan	3.7	37.3	57.6	5.2	0.0	0.0	0.0	0.0	0.8	14268	2441	21									
	harlan & low splint	2.4	36.2	50.2	13.6	0.0	0.0	0.0	0.0	2.0	12940	2580	1									
	hindman	4.4	36.5	50.9	12.6	4.9	72.3	1.5	7.3	1.4	12850	2910	1									
	jellico	2.8	39.9	56.4	3.7	5.7	83.0	2.0	6.9	1.0	14566	2211	43									
	kellioka	2.4	37.7	55.5	6.8	0.0	0.0	0.0	0.0	0.8	14029	2487	13									
	l hignite & sterling	2.5	37.6	53.7	8.7	0.0	0.0	0.0	0.0	1.2	13600	2610	10									
	l hignite&ss parting	2.7	39.8	56.7	3.4	5.5	82.3	1.8	7.3	0.8	14443	2423	3									
	low splint	3.1	38.4	55.8	5.8	5.3	78.1	2.1	5.9	1.2	14200	2463	39									
	lower hignite	3.0	38.5	55.8	5.7	5.5	81.2	1.9	7.8	0.7	14089	2516	21									
	moss	6.8	37.4	52.2	10.4	0.0	0.0	0.0	0.0	1.1	13100	2150	1									
	poplar lick	4.0	38.9	54.2	6.9	5.8	79.9	2.0	8.8	0.9	13913	2456	3									
	red spring	4.0	39.0	52.7	8.3	5.4	79.2	1.5	8.0	1.5	13623	2675	21									
	red spring&l hignite	3.6	39.8	52.8	7.5	0.0	0.0	0.0	0.0	1.0	13790	2740	2									
	sandstone parting	2.9	38.8	55.7	5.5	5.3	77.4	2.2	5.8	1.2	14214	2509	34									
	sterling	2.2	39.8	50.3	10.0	0.0	0.0	0.0	0.0	3.2	13405	2361	6									
	sterling & jellico	3.6	38.6	54.3	7.1	0.0	0.0	0.0	0.0	1.1	13902	2822	4									
	uncorrelated	3.7	36.0	50.3	13.7	0.0	0.0	0.0	0.0	1.8	12794	2722	5									
	various	4.5	37.7	53.3	8.9	0.0	0.0	0.0	0.0	1.3	13499	2619	82									
county average		3.5	38.3	54.7	6.9	5.4	78.6	2.0	6.7	1.2	13931	2503	330									
boyd														county								
bit	princess no 3	8.7	38.1	48.7	13.2	0.0	0.0	0.0	0.0	2.8	12293	2250	31									
	uncorrelated	7.3	40.8	46.0	13.3	4.7	64.6	1.2	7.8	3.7	12230	2325	2									
county average		8.7	38.3	48.5	13.2	4.7	64.6	1.2	7.8	2.8	12289	2260	33									
breathitt														county								
bit	hazard	9.3	35.4	52.1	12.5	4.3	68.8	1.3	10.9	0.8	12390	2910	2									
	hazard no 7&hindman	8.9	37.2	56.0	6.8	0.0	0.0	0.0	0.0	0.7	13360	2910	1									
	hindman	6.1	39.4	54.3	6.3	0.0	0.0	0.0	0.0	0.8	13750	2910	1									
	oakley	6.9	37.6	52.4	10.0	0.0	0.0	0.0	0.0	0.8	13220	2910	1									
	upper elkhorn no 3	5.1	39.9	54.0	6.2	0.0	0.0	0.0	0.0	0.8	14020	2240	2									
county average		7.3	37.8	53.6	8.6	4.3	68.8	1.3	10.9	0.8	13307	2718	7									

butler county												
bit												
no 6	10.8	40.9	53.3	5.8	0.0	0.0	0.0	0.0	1.5	13800	2178	10
county average	10.8	40.9	53.3	5.8	0.0	0.0	0.0	0.0	1.5	13800	2178	10
carter county												
bit												
princess no 3	8.7	38.4	51.8	9.7	5.1	76.1	1.5	10.0	1.5	12928	2634	17
tom cooper	7.7	39.0	52.6	8.4	5.4	79.6	1.7	9.2	1.2	13265	2807	7
county average	8.4	38.6	52.1	9.3	5.3	77.9	1.6	9.6	1.4	13027	2711	24
christian county												
bit												
no 6	10.4	39.1	53.9	6.9	5.3	78.5	1.9	8.3	2.6	13550	2066	6
county average	10.4	39.1	53.9	6.9	5.3	78.5	1.9	8.3	2.6	13550	2066	6
clay county												
bit												
fire clay	3.7	39.1	54.8	6.1	5.5	79.8	1.8	7.7	1.0	14042	2677	130
fire clay & lily	3.6	41.6	52.7	5.8	0.0	0.0	0.0	0.0	2.1	14126	2166	3
hazard no 7	5.6	33.6	52.4	14.0	0.0	0.0	0.0	0.0	0.8	12590	2910	1
lily	3.8	38.9	54.2	6.9	5.4	76.4	1.3	6.3	1.7	14000	2426	36
uncorrelated	3.2	39.2	48.3	12.5	0.0	0.0	0.0	0.0	3.1	13030	2250	1
various	3.8	38.3	55.0	6.7	0.0	0.0	0.0	0.0	1.2	13922	2468	15
county average	3.8	39.0	54.6	6.4	5.4	79.4	1.7	7.6	1.2	14012	2604	186
daviess county												
bit												
no 9	11.3	39.9	46.6	13.5	0.0	0.0	0.0	0.0	4.0	12151	2096	12
uncorrelated	12.2	43.0	45.2	11.7	0.0	0.0	0.0	0.0	6.7	12595	2080	4
county average	11.5	40.7	46.3	13.1	0.0	0.0	0.0	0.0	4.7	12262	2092	16
floyd county												
bit												
haddix&peach orchard	5.4	35.1	50.7	14.2	0.0	0.0	0.0	0.0	0.9	12440	2910	1
u elkhorn nos 1 & 2	4.6	38.2	56.0	5.8	0.0	0.0	0.0	0.0	0.9	14057	2515	17
u elkhorn nos 1 & 3	6.7	35.0	55.2	9.8	0.0	0.0	0.0	0.0	1.2	13420	2520	1
u elkhorn nos 2 & 3	5.3	37.9	54.5	7.6	0.0	0.0	0.0	0.0	1.2	13733	2436	3
uncorrelated	6.9	37.1	54.6	8.3	0.0	0.0	0.0	0.0	0.6	13240	2910	1
upper elkhorn no 1	4.1	38.7	56.7	6.6	5.5	79.1	1.6	8.0	1.0	13970	2527	43
upper elkhorn no 2	4.3	37.9	56.5	5.6	5.3	79.5	1.6	8.0	1.1	14077	2565	21
upper elkhorn no 3	4.5	38.4	56.6	5.0	5.4	80.5	1.7	8.4	0.8	14205	2576	114
various	5.0	37.9	54.8	7.3	0.0	0.0	0.0	0.0	1.1	13829	2577	20

[illegible]

bit												
uncorrelated	6.2	37.7	55.1	7.3	0.0	0.0	0.0	0.0	0.6	13490	2910	2
upper elkhorn no 3	6.3	38.6	56.1	5.3	5.3	80.4	1.7	9.0	1.3	13963	2372	37
county average	6.3	38.6	56.0	5.4	5.3	80.4	1.7	9.0	1.3	13939	2400	39

knott county

bit												
fire clay	3.7	38.2	56.1	5.7	5.1	76.8	1.7	7.0	0.8	14176	2855	6
hazard no 7	6.0	35.8	54.6	9.6	0.0	0.0	0.0	0.0	0.8	13311	2905	6
hindman	4.8	37.8	53.5	8.8	5.2	78.1	1.5	6.9	2.2	13550	2605	9
upper elkhorn no 3	4.5	37.7	59.6	2.8	0.0	0.0	0.0	0.0	0.8	14560	2451	6
various	6.9	35.8	50.8	13.4	0.0	0.0	0.0	0.0	1.4	12590	2710	1
county average	4.8	37.3	55.5	7.2	5.2	77.5	1.6	6.9	1.2	13815	2677	28

knox county

bit												
blue gem	7.4	37.0	56.4	6.5	0.0	0.0	0.0	0.0	1.3	13975	2180	2
fire clay	3.6	37.5	54.3	8.2	5.4	79.4	1.9	7.9	1.0	13626	2782	20
jellico	3.8	39.7	51.6	8.7	0.0	0.0	0.0	0.0	2.5	13710	2382	7
various	2.8	38.5	56.0	5.4	0.0	0.0	0.0	0.0	1.0	14260		2
county average	3.8	38.0	54.0	8.0	5.4	79.4	1.9	7.9	1.3	13708	2622	31

laurel county

bit												
blue gem	5.5	39.0	57.2	3.8	5.4	80.4	1.9	7.5	1.0	14390	2600	1
jellico	5.9	37.7	51.3	11.1	0.0	0.0	0.0	0.0	2.6	13085	2430	2
lily	4.4	41.8	51.8	6.4	5.7	79.2	1.9	7.1	3.3	14017	2117	7
uncorrelated	5.2	38.9	55.0	6.1	0.0	0.0	0.0	0.0	2.2	13874	2230	5
county average	5.0	40.1	53.2	6.7	5.5	79.8	1.9	7.3	2.7	13870	2228	15

lee county

bit												
fire clay	6.8	40.1	51.1	8.8	5.6	79.7	1.7	8.4	2.0	13488	2306	6
county average	6.8	40.1	51.1	8.8	5.6	79.7	1.7	8.4	2.0	13488	2306	6

letcher county

bit												
amburgy	2.6	38.0	49.9	12.1	5.0	73.5	1.4	5.9	3.5	13150	2300	4
fire clay	3.4	38.5	56.0	5.6	5.3	79.8	1.9	7.1	0.8	14201	2721	17
fire clay & fr clay r	3.2	38.8	54.3	6.9	0.0	0.0	0.0	0.0	0.9	13840	2470	1
fire clay&fr clay rdr	3.2	38.8	54.3	6.9	0.0	0.0	0.0	0.0	0.9	13840	2470	1
fire clay&u elkhorn 3	3.4	39.4	54.8	5.8	0.0	0.0	0.0	0.0	1.4	14294	2436	5
fire clay&whitesburg	2.8	36.2	52.5	11.4	0.0	0.0	0.0	0.0	1.0	13170	2750	2
hazard	4.6	35.6	58.1	6.3	0.0	0.0	0.0	0.0	0.6	13915	2895	2

hazard no 7	5.4	36.4	53.6	10.0	0.0	0.0	0.0	0.0	0.7	13300	2910	1
lower whitesburg	4.1	36.3	55.0	8.7	0.0	0.0	0.0	0.0	1.2	13566	2736	3
u elkhorn 3&whitsbrg	5.5	37.0	54.5	8.4	0.0	0.0	0.0	0.0	1.5	13435	2650	2
u elkhorn nos 1 & 2	3.2	37.6	59.2	3.2	5.5	83.2	1.6	6.5	0.7	14636	2583	6
u elkhorn 3&elkhon rdr	5.4	36.1	56.0	7.9	0.0	0.0	0.0	0.0	1.1	13610	2600	1
upper elkhorn no 3	3.2	38.5	56.5	5.0	5.4	81.6	1.6	6.7	1.2	14331	2368	60
various	3.8	37.0	54.2	8.7	0.0	0.0	0.0	0.0	1.2	13636	2545	11
county average	3.4	38.1	55.9	6.0	5.4	80.9	1.6	6.7	1.2	14134	2487	116

magoffin						county						

bit												
hindman	6.8	36.8	55.0	8.2	0.0	0.0	0.0	0.0	0.9	13400	2905	8
oakley	6.7	37.4	54.8	7.8	0.0	0.0	0.0	0.0	0.9	13345	2910	2
county average	6.8	36.9	55.0	8.1	0.0	0.0	0.0	0.0	0.9	13389	2906	10

martin						county						

hit												
haddix	4.0	37.7	52.7	9.6	5.4	78.9	1.6	8.8	0.7	13363	2899	12
lower elkhorn	6.8	37.8	53.8	8.4	5.1	76.4	1.6	7.4	1.1	13670	2680	1
county average	4.7	37.7	52.8	9.5	5.3	77.6	1.6	8.1	0.7	13386	2879	13

mccreary						county						

bit												
barren fork	3.2	41.3	47.6	11.2	0.0	0.0	0.0	0.0	4.0	13115	2150	2
beaver creek	2.7	41.6	47.2	11.2	4.8	68.1	1.1	6.2	3.8	13197	2064	29
hudson	3.5	40.4	51.2	8.4	0.0	0.0	0.0	0.0	2.2	13618	2535	19
hudson&stearns 1 1/2	3.6	38.1	54.1	7.7	0.0	0.0	0.0	0.0	1.7	13797	2386	4
jellico	6.0	35.3	52.9	11.8	4.9	73.3	1.7	7.1	1.2	13106	2663	3
lily	3.2	41.5	48.6	9.9	0.0	0.0	0.0	0.0	4.1	13450	2122	4
stearns no 11/2	4.4	39.0	55.6	5.5	0.0	0.0	0.0	0.0	0.5	14085	2654	16
various	3.1	39.8	52.4	7.8	0.0	0.0	0.0	0.0	2.5	13710		5
county average	3.5	40.3	50.7	9.0	4.9	70.7	1.4	6.6	2.5	13535	2403	82

muhlenberg						county						

bit												
no 11	7.4	42.1	47.8	10.1	0.0	0.0	0.0	0.0	4.1	12922	2103	34
no 12	7.4	36.7	46.1	17.3	0.0	0.0	0.0	0.0	3.9	11705	2130	4
no 14	10.3	39.7	54.4	6.0	0.0	0.0	0.0	0.0	1.9	13585	2300	2
no 6	8.7	41.0	50.1	8.9	5.1	76.5	1.7	8.8	3.4	13228	2148	9
no 9	7.7	40.0	49.0	11.0	5.1	72.6	1.6	8.5	4.0	12853	2069	319
nos 11 & 12	7.0	43.1	48.0	8.9	0.0	0.0	0.0	0.0	3.5	13170	2170	1
various	7.6	40.7	49.0	10.3	0.0	0.0	0.0	0.0	4.0	12870	2102	15
county average	7.7	40.2	48.9	10.8	5.1	73.6	1.6	8.6	4.0	12861	2079	384

ohio						county						

bit												
no 14	12.1	37.0	46.4	16.6	0.0	0.0	0.0	0.0	5.3	11640	2080	1
no 6	12.3	41.7	49.8	8.6	5.2	77.1	1.6	7.8	2.9	13385	2120	2
no 9	8.4	40.7	48.9	10.4	5.2	72.7	1.6	7.7	3.7	12924	2087	54
county average	8.6	40.7	48.9	10.4	5.2	74.2	1.6	7.7	3.7	12918	2088	57

	perry				county							
bit												
fire clay	3.4	38.5	55.9	5.6	5.5	81.3	1.7	7.3	0.9	14132	2655	90
fire clay & hazard 7	3.7	38.0	56.2	5.8	0.0	0.0	0.0	0.0	0.7	14126	2910	3
fire clay & hindman	4.5	37.6	54.2	8.2	0.0	0.0	0.0	0.0	2.2	13650	2500	5
hazard	5.0	37.6	54.2	8.3	5.3	80.1	1.6	7.7	0.7	13572	2796	32
hazard & hazard no 7	4.3	38.1	54.5	7.4	5.4	78.7	1.6	9.1	0.7	13775	2903	12
hazard no 7	4.7	37.2	56.0	6.8	5.4	80.9	1.5	7.5	0.7	13847	2884	40
hazard no 7&hindman	5.1	38.1	53.6	8.4	0.0	0.0	0.0	0.0	2.1	13595	2580	4
hindman	4.1	39.3	52.9	7.8	5.5	80.0	1.5	7.1	2.2	13713	2560	12
various	4.9	37.3	55.2	7.6	0.0	0.0	0.0	0.0	0.9	13737	2860	29
county average	4.2	38.0	55.3	6.7	5.4	80.7	1.7	7.6	0.9	13891	2739	227

	pike				county							
bit												
auxier	2.2	28.0	54.0	18.0	4.5	70.9	1.4	4.4	0.8	12530	2840	1
bingham	3.0	33.5	58.4	8.2	5.1	79.2	1.7	5.4	1.4	14142	2698	7
bingham & l elkhorn	5.0	31.3	58.7	10.0	0.0	0.0	0.0	0.0	0.7	13510	2910	1
elswick	1.8	32.0	58.1	10.0	4.9	77.3	1.8	3.0	3.0	13925	2212	6
fire clay & hazard	6.0	37.4	50.8	11.8	0.0	0.0	0.0	0.0	2.7	12850	2160	1
haddix	3.8	39.7	55.5	4.8	0.0	0.0	0.0	0.0	0.7	14240		1
lower elkhorn	2.9	33.7	57.6	8.7	4.9	76.2	1.5	6.1	0.6	13855	2786	61
u elkhorn 1&l elkhorn	2.7	33.8	59.0	7.2	5.2	81.8	1.4	5.4	0.6	14198	2874	27
u elkhorn 3&l elkhorn	4.8	33.2	59.1	7.7	0.0	0.0	0.0	0.0	0.8	13980	2845	2
u elkhorn nos 1 & 2	4.2	33.9	54.5	11.7	0.0	0.0	0.0	0.0	1.0	13250	2648	5
u elkhorn nos 1 & 3	3.8	38.6	54.8	6.6	0.0	0.0	0.0	0.0	1.0	14006	2553	6
u elkhorn nos 2 & 3	5.3	35.5	53.2	11.3	0.0	0.0	0.0	0.0	0.9	13206	2776	5
upper elkhorn no 1	3.8	34.5	57.0	8.5	5.3	83.0	1.5	6.2	0.7	13827	2796	16
upper elkhorn no 2	3.8	35.5	56.5	7.9	5.2	79.4	1.4	6.7	0.8	13923	2705	37
upper elkhorn no 3	3.8	37.2	54.1	8.7	5.1	76.4	1.4	6.6	1.3	13740	2581	29
various	3.8	35.5	56.7	7.8	0.0	0.0	0.0	0.0	1.0	13955	2612	16
county average	3.4	34.8	56.8	8.4	5.0	77.4	1.5	5.9	0.9	13876	2703	221

	pulaski				county							
bit												
barren fork	7.1	35.3	55.1	9.6	0.0	0.0	0.0	0.0	1.6	13190	2790	1
county average	7.1	35.3	55.1	9.6	0.0	0.0	0.0	0.0	1.6	13190	2790	1

	rockcastle				county							
bit												
uncorrelated	8.3	37.9	53.8	8.4	5.3	77.9	1.6	9.3	0.6	13355	2910	4

county average	8.3	37.9	53.8	8.4	5.3	77.9	1.6	9.3	0.6	13355	2910	4

union						county						

bit												
no 11	8.5	40.5	47.7	11.8	4.9	71.1	1.4	7.7	4.1	12683	2045	9
no 14	6.1	37.5	53.5	9.0	0.0	0.0	0.0	0.0	2.9	13370	2130	1
no 9	4.1	38.0	50.2	11.8	4.9	69.9	1.5	6.8	3.9	12997	2027	53
nos 6 & 9	4.0	37.2	49.3	13.6	0.0	0.0	0.0	0.0	3.9	12745	2070	2
nos 9 & 11	4.3	35.9	44.9	19.2	0.0	0.0	0.0	0.0	4.4	11820	2070	1
county average	4.8	38.3	49.8	11.9	4.9	70.6	1.4	7.3	3.9	12934	2038	66

webster						county						

bit												
no 9	4.1	38.3	49.9	11.8	4.7	69.4	1.5	6.3	3.9	12956	2054	125
nos 9 & 11	3.8	37.9	50.9	11.2	5.3	75.1	1.6	6.6	4.3	13153	2090	3
county average	4.0	38.3	49.9	11.8	5.0	72.3	1.5	6.5	3.9	12960	2057	128

whitley						county						

bit												
blue gem	4.4	41.4	55.3	3.3	5.7	81.4	2.1	8.0	1.2	14378	2146	5
jellico	4.8	37.6	56.3	6.1	5.2	78.1	1.8	7.9	1.1	13927	2526	44
lily	3.3	41.5	50.2	8.3	0.0	0.0	0.0	0.0	3.6	13752	2025	4
various	5.5	38.4	52.6	9.0	0.0	0.0	0.0	0.0	1.6	13400	2275	2
county average	4.7	38.2	55.6	6.1	5.3	78.7	1.9	7.9	1.3	13936	2439	55

Kentucky

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
kentucky	bell	varinus	4.6	37.2	53.9	8.9	1.4	13480	0	4.0
kentucky	bell	various	4.6	37.4	53.7	8.9	1.4	13410	0	1.0
kentucky	bell	various	5.2	37.3	53.8	8.9	1.2	13410	0	1.5
kentucky	bell	various	5.9	35.9	52.7	11.4	1.0	12940	0	5.0
kentucky	bell	various	7.1	37.2	52.2	10.6	1.2	13130	0	3.0
kentucky	bell	various	6.7	36.8	52.5	10.7	1.2	13110	0	1.5
kentucky	bell	various	7.4	36.5	51.7	11.8	1.1	12870	0	1.5
kentucky	bell	various	6.5	36.0	51.2	12.8	1.0	12660	0	1.0
kentucky	bell	varinus	6.7	37.2	54.2	8.6	1.2	13580	0	6.5
kentucky	bell	various	8.2	32.4	45.9	21.7	1.7	11170	0	1.0
kentucky	bell	various	7.0	34.1	49.1	16.8	1.2	12010	0	1.0
kentucky	bell	various	3.0	39.2	52.8	8.0	1.3	13760	0	5.5
kentucky	bell	various	3.2	37.5	54.1	8.4	0.7	13660	0	5.0
kentucky	bell	various	3.5	37.2	52.7	10.1	0.9	13370	0	5.0
kentucky	bell	various	3.5	38.9	52.7	8.4	1.6	13580	0	4.0
kentucky	bell	various	4.2	38.3	53.6	8.1	1.3	13660	0	2.5
kentucky	bell	varinus	3.7	38.4	52.9	8.7	1.9	13560	0	4.5
kentucky	bell	various	4.5	38.8	52.9	8.3	1.4	13620	0	1.0
kentucky	bell	various	3.9	38.6	52.9	8.5	1.5	13590	0	4.5

continued.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
kentucky	bell	various	4.3	38.6	53.3	8.1	1.1	13680	0	4.0
kentucky	bell	various	4.0	38.2	54.4	7.4	0.9	13770	0	4.0
kentucky	bell	various	3.7	38.0	52.6	9.4	0.9	13600	0	3.0
kentucky	bell	various	6.3	38.1	53.1	8.8	2.0	13480	0	1.5
kentucky	bell	various	5.2	37.3	53.9	8.8	1.3	13460	0	5.0
kentucky	bell	various	4.6	37.8	53.2	9.0	1.6	13470	0	1.0
kentucky	bell	various	3.0	37.3	53.2	9.5	1.4	13470	0	5.0
kentucky	bell	varinus	6.0	36.6	51.8	11.6	1.3	12960	0	1.5
kentucky	bell	various	5.5	37.9	53.3	8.8	1.3	13550	0	1.0
kentucky	bell	various	5.0	37.1	53.4	9.5	1.7	13380	0	5.5
kentucky	bell	various	5.5	36.4	53.1	10.5	1.5	13200	0	1.0
kentucky	bell	varinus	6.5	35.0	52.6	12.4	1.3	12830	0	2.5
kentucky	bell	various	4.5	36.8	54.9	9.3	1.0	13530	0	4.0
kentucky	bell	various	5.8	37.5	52.3	10.2	1.8	13240	0	5.0
kentucky	bell	various	4.7	37.8	53.4	8.8	1.6	13530	0	4.0
kentucky	bell	varinus	6.2	37.4	53.9	8.7	1.2	13470	0	1.5
kentucky	bell	various	5.4	37.1	54.8	8.1	1.0	13560	0	1.5
kentucky	bell	various	5.5	37.2	53.1	9.7	1.1	13360	0	3.0
kentucky	bell	various	***	35.3	56.1	8.6	1.1	13330	0	1.5
kentucky	bell	various	6.8	35.1	54.4	10.5	1.4	13010	0	1.0
kentucky	bell	various	7.7	33.9	54.4	11.7	1.2	12850	0	1.5
kentucky	bell	red spring	4.6	39.0	52.7	8.3	1.1	13680	48	5.0
kentucky	bell	red spring	3.9	40.1	47.4	12.5	4.0	13000	43	5.0
kentucky	bell	red spring	5.4	36.3	52.0	11.7	2.6	13080	45	5.5
kentucky	bell	red spring	5.2	36.1	47.6	16.3	2.9	12310	48	4.5
kentucky	bell	fire clay	7.1	37.3	56.9	5.8	0.9	13890	44	2.0
kentucky	bell	low splint	5.8	36.4	56.6	7.0	0.8	13630	40	1.5
kentucky	bell	low splint	3.6	35.4	54.8	9.8	0.8	13420	40	4.5
kentucky	bell	low splint	5.7	38.5	56.6	4.9	1.9	14210	43	5.5
kentucky	bell	low splint	5.0	38.2	56.6	5.2	1.6	14130	43	6.0
kentucky	bell	various	7.8	37.2	54.7	8.1	0.9	13520	0	2.5
kentucky	bell	various	6.3	34.9	50.8	14.3	1.1	12590	0	1.0
kentucky	bell	sandstone parting	2.2	39.6	55.6	4.8	1.5	14360	0	6.0
kentucky	bell	sandstone parting	3.6	36.6	54.8	8.6	1.6	13760	0	6.5
kentucky	bell	harlan	5.1	36.4	58.9	4.7	0.7	14220	0	1.0
kentucky	bell	harlan	4.1	37.1	56.8	6.1	0.8	14070	0	5.5
kentucky	bell	harlan	5.4	36.0	60.0	4.0	0.9	14360	0	5.0
kentucky	bell	harlan	2.9	38.8	57.8	3.4	0.9	14580	47	5.5
kentucky	bell	harlan	3.4	34.7	51.2	14.1	0.9	12760	48	5.5
kentucky	bell	harlan	4.6	35.1	54.6	10.3	1.1	13430	49	7.5
kentucky	bell	haddix	3.1	37.0	47.1	15.9	1.2	12120	43	1.0
kentucky	bell	fire clay	3.2	36.3	44.9	18.8	1.2	11990	43	4.5
kentucky	bell	sandstone parting	2.4	39.2	51.1	9.7	2.6	13620	0	7.0
kentucky	bell	sandstone parting	2.3	51.2	39.7	9.1	2.2	13690	59	7.5
kentucky	bell	blue gem	3.3	35.5	55.1	9.4	1.2	13670	48	6.5
kentucky	bell	harlan & low splint	2.4	36.2	50.2	13.6	2.0	12940	55	6.5
kentucky	bell	jellico	2.9	39.4	56.6	4.0	0.9	14500	0	4.5
kentucky	bell	jellico	2.9	37.0	56.2	6.8	0.8	14020	0	6.0
kentucky	bell	jellico	3.6	37.0	57.9	5.1	0.9	14350	0	6.5
kentucky	bell	fire clay	5.8	38.1	54.3	7.6	0.7	13780	41	3.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
kentucky	bell	low solint	2.7	37.9	53.4	8.7	2.1	13780	59	8.0
kentucky	bell	low solint	2.6	38.9	51.6	9.5	1.9	13660	56	7.5
kentucky	bell	various	3.7	37.2	52.4	10.4	1.6	13310	46	5.0
kentucky	bell	l hignite & sterling	4.0	37.2	51.1	11.7	1.6	13140	44	5.0
kentucky	bell	poplar lick	4.9	38.0	55.8	6.2	1.2	14010	0	4.5
kentucky	bell	poplar lick	4.3	36.3	51.9	11.8	0.9	13110	50	4.5
kentucky	bell	sterling	2.3	40.5	50.1	9.4	4.1	13550	57	4.0
kentucky	bell	sandstone parting	2.4	37.3	52.5	10.2	1.4	13440	55	5.0
kentucky	bell	sterling & jellico	7.3	37.0	54.4	3.6	1.0	13630	49	5.0
kentucky	bell	red spring	5.7	36.9	52.4	10.7	1.2	13230	46	5.0
kentucky	bell	sandstone parting	5.9	36.5	59.6	3.9	0.8	14390	0	4.0
kentucky	bell	red spring&l hignite	4.1	37.0	50.5	12.5	1.3	12950	44	5.0
kentucky	bell	red spring	5.8	38.5	54.4	7.1	0.7	13730	40	4.0
kentucky	bell	fire clay	2.9	39.6	55.3	6.1	1.3	14160	49	4.5
kentucky	bell	low solint	4.4	39.1	52.5	8.4	2.9	13790	60	6.5
kentucky	bell	fire clay	5.7	38.0	55.4	6.6	1.2	13860	0	4.0
kentucky	bell	sandstone parting	3.1	36.4	56.8	6.8	0.8	13960	56	4.5
kentucky	bell	low solint	5.3	35.5	55.9	8.6	1.0	13720	53	5.5
kentucky	bell	uncorrelated	2.6	35.5	49.2	15.3	0.9	12680	40	4.5
kentucky	bell	jellico	3.3	38.4	56.5	5.1	1.3	14350	32	6.0
kentucky	bell	kellioka	3.3	34.9	52.4	12.7	0.7	13040	53	6.0
kentucky	bell	sandstone parting	2.5	36.9	52.6	10.5	1.9	13450	0	7.0
kentucky	bell	sandstone parting	3.2	38.1	53.0	8.9	1.7	13700	58	7.0
kentucky	bell	red spring	4.5	37.8	50.9	11.3	1.3	13120	42	5.5
kentucky	bell	moss	6.8	37.4	52.2	10.4	1.1	13100	46	2.5
kentucky	bell	harlan	5.2	37.9	57.5	4.6	1.1	14360	56	5.0
kentucky	bell	harlan	4.5	37.3	56.2	6.5	0.9	14000	45	5.5
kentucky	bell	hindman	4.4	36.5	50.9	12.6	1.4	12850	41	5.0
kentucky	bell	sandstone parting	6.5	37.1	51.1	11.8	1.3	12960	44	3.5
kentucky	boyd	princess no 3	9.1	40.3	49.8	9.9	2.3	12880	48	2.5
kentucky	breathitt	hazard	8.2	36.1	52.7	11.2	0.8	12870	0	1.0
kentucky	breathitt	makley	6.9	37.6	52.4	10.0	0.8	13220	38	1.0
kentucky	breathitt	upper elkhorn no 3	6.4	37.3	53.1	9.6	0.8	13480	0	5.0
kentucky	breathitt	hazard no 7&hindman	8.9	37.2	56.0	6.8	0.7	13360	43	1.5
kentucky	carter	princess no 3	9.8	36.6	52.5	10.9	1.0	12780	0	2.5
kentucky	carter	tom cropper	8.6	35.7	50.7	13.6	0.9	12450	0	2.0
kentucky	clay	lily	3.7	36.8	53.6	9.6	1.1	13570	45	5.0
kentucky	clay	lily	4.3	36.8	55.1	9.1	0.8	13810	0	5.0
kentucky	clay	lily	2.9	37.2	53.8	9.0	0.7	13670	0	5.0
kentucky	clay	fire clay	5.3	37.5	57.3	5.2	0.9	14220	48	5.5
kentucky	clay	fire clay	4.5	39.0	53.7	7.3	1.1	13800	45	4.5
kentucky	clay	fire clay	2.7	38.9	53.1	8.0	1.1	13750	54	5.0
kentucky	clay	fire clay	3.6	37.2	55.0	7.8	1.0	13760	45	4.0
kentucky	clay	fire clay	4.1	34.3	52.1	13.6	1.0	12750	48	4.5
kentucky	clay	fire clay	5.9	36.5	55.6	7.9	1.2	13650	0	5.0
kentucky	clay	fire clay	4.7	37.0	54.7	8.3	1.5	13530	47	5.0
kentucky	clay	fire clay	4.6	36.1	54.3	9.6	1.1	13290	0	5.5
kentucky	clay	fire clay	3.6	39.5	53.0	7.5	1.0	13760	48	5.5
kentucky	clay	fire clay	5.2	36.4	51.2	12.4	1.1	12750	49	5.5
kentucky	clay	fire clay	4.1	38.7	54.4	6.9	1.1	13840	44	6.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
kentucky	clay	lily	3.7	41.1	50.0	8.9	3.2	13580	47	4.5
kentucky	clay	fire clay	5.5	36.8	54.1	9.1	1.0	13430	50	5.0
kentucky	clay	fire clay	3.5	40.0	54.1	5.9	1.7	14070	46	4.5
kentucky	clay	fire clay	4.8	37.3	54.3	8.4	1.0	13630	47	5.0
kentucky	clay	fire clay	5.1	34.7	56.0	7.3	1.2	13730	48	5.0
kentucky	clay	hazard no 7	5.6	33.6	57.4	14.0	0.8	12590	44	2.0
kentucky	clay	uncorrelated	3.2	39.2	48.3	12.5	3.1	13030	45	7.0
kentucky	clay	fire clay & lily	4.0	40.4	52.4	7.2	2.2	13900	9	4.5
kentucky	clay	fire clay	4.2	38.4	53.5	8.1	1.1	13760	48	5.0
kentucky	clay	fire clay	3.9	38.2	53.9	7.9	1.0	13700	48	4.0
kentucky	clay	fire clay	4.1	37.7	52.6	9.7	1.9	13390	49	5.0
kentucky	clay	fire clay	4.6	38.2	54.4	7.4	1.3	13740	0	4.0
kentucky	clay	fire clay	4.5	37.0	52.0	11.0	2.9	13240	51	5.0
kentucky	clay	fire clay	5.0	38.7	53.9	7.4	1.1	13740	52	4.5
kentucky	clay	lily clay	4.6	38.7	53.9	7.4	1.1	13740	51	4.0
kentucky	clay	lily	3.1	41.5	50.2	8.3	3.8	13720	45	5.0
kentucky	clay	fire clay	4.0	39.1	52.8	8.1	1.2	13710	48	4.0
kentucky	clay	fire clay	6.3	38.7	55.3	6.0	1.0	14100	47	5.0
kentucky	clay	fire clay	4.8	37.9	54.2	7.9	0.8	13540	0	5.0
kentucky	clay	lily	3.0	41.3	51.2	7.5	3.9	13790	46	4.0
kentucky	clay	lily	5.9	39.4	53.1	7.5	1.1	13860	50	5.0
kentucky	clay	fire clay	5.9	36.4	56.7	6.9	0.9	13840	0	5.0
kentucky	clay	fire clay	5.0	37.8	54.1	8.1	1.0	13630	0	4.5
kentucky	clay	fire clay	5.4	36.6	55.1	8.3	1.3	13660	50	6.0
kentucky	clay	fire clay	5.0	36.9	57.4	5.7	0.7	14200	0	5.0
kentucky	clay	fire clay	5.7	37.3	54.8	7.9	1.3	13870	49	3.5
kentucky	clay	fire clay	3.8	36.8	55.4	7.8	1.2	13940	48	5.0
kentucky	clay	fire clay	3.6	38.0	55.2	6.8	0.9	14050	0	4.5
kentucky	clay	fire clay	4.9	34.6	55.0	10.4	0.9	13240	47	3.0
kentucky	clay	fire clay	4.8	37.3	53.3	9.4	1.2	13510	0	3.5
kentucky	floyd	uncorrelated	6.9	37.1	54.6	8.3	0.6	13240	40	1.0
kentucky	floyd	upper elkhorn no 3	7.1	33.4	58.0	8.6	0.8	13680	0	5.0
kentucky	floyd	upper elkhorn no 3	6.3	34.1	57.6	8.3	0.7	13790	48	5.0
kentucky	floyd	various	4.8	36.2	51.2	12.6	1.5	13030	0	5.5
kentucky	floyd	u elkhorn nos 1 & 2	3.6	39.3	49.6	11.1	1.9	13210	44	5.5
kentucky	floyd	upper elkhorn no 1	4.0	39.4	53.0	8.6	0.8	13530	38	4.5
kentucky	floyd	upper elkhorn no 1	4.1	40.0	55.3	4.7	0.9	14370	36	5.5
kentucky	floyd	upper elkhorn no 1	4.9	36.3	55.5	8.2	1.2	13650	0	5.5
kentucky	floyd	haddix&oeach orchard	5.4	35.1	50.7	14.2	0.9	12440	42	1.5
kentucky	floyd	various	6.3	35.0	54.7	10.3	1.1	13240	47	3.0
kentucky	floyd	upper elkhorn no 2	5.9	35.6	57.3	7.1	1.1	13810	0	3.5
kentucky	floyd	u elkhorn nos 2 & 3	8.3	35.0	53.1	11.9	1.5	12970	0	4.0
kentucky	floyd	upper elkhorn no 1	3.2	43.8	51.3	4.9	3.0	14190	44	4.0
kentucky	floyd	various	6.4	36.2	53.8	10.0	1.2	13390	46	4.5
kentucky	floyd	upper elkhorn no 2	7.1	34.7	57.2	8.1	1.6	13610	0	3.5
kentucky	floyd	upper elkhorn no 1	7.5	34.4	53.0	12.6	1.2	12860	0	4.0
kentucky	floyd	various	5.6	35.8	54.3	9.9	1.1	13360	47	4.5
kentucky	floyd	u elkhorn nos 1 & 2	7.4	35.3	57.5	7.2	1.0	13850	0	4.0
kentucky	floyd	u elkhorn nos 1 & 2	6.3	34.3	54.1	11.6	1.2	13140	0	4.5
kentucky	floyd	upper elkhorn no 3	6.4	35.5	56.6	7.9	1.0	13660	0	3.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
kentucky	floyd	u elk horn nos 1 & 3	6.7	35.0	55.2	9.8	1.2	13420	0	4.0
kentucky	floyd	upper elk horn no 3	4.0	36.7	56.5	6.8	0.5	13980	0	6.0
kentucky	floyd	upper elk horn no 3	6.3	37.2	57.0	5.8	0.8	13930	44	4.0
kentucky	floyd	upper elk horn no 3	7.9	36.7	55.7	7.6	0.9	13720	0	4.5
kentucky	floyd	upper elk horn no 3	7.1	36.0	55.8	8.2	0.9	13590	48	2.5
kentucky	floyd	upper elk horn no 3	6.9	36.6	56.2	7.2	1.1	13730	0	4.5
kentucky	floyd	upper elk horn no 3	5.7	36.1	55.7	8.2	1.2	13590	0	3.0
kentucky	floyd	u elk horn nos 1 & 2	6.7	35.6	56.6	7.8	0.9	13740	0	4.5
kentucky	floyd	upper elk horn no 3	6.8	36.2	56.8	7.0	1.4	13680	0	4.0
kentucky	floyd	upper elk horn no 3	7.1	37.4	56.5	6.1	0.7	13920	48	3.5
kentucky	floyd	upper elk horn no 3	8.5	34.8	57.6	7.6	0.9	13680	0	3.0
kentucky	floyd	various	5.9	37.3	54.5	8.2	1.2	13690	0	5.0
kentucky	floyd	various	4.2	38.5	55.3	6.2	1.1	14020	0	4.5
kentucky	floyd	u elk horn nos 2 & 3	4.4	38.5	53.1	8.4	1.3	13610	43	4.5
kentucky	floyd	various	6.3	37.1	49.7	13.2	1.4	12930	0	4.0
kentucky	floyd	various	5.8	36.5	57.0	6.5	1.2	13940	0	4.0
kentucky	floyd	various	6.3	33.2	54.1	12.7	1.1	12980	0	3.5
kentucky	floyd	u elk horn nos 1 & 2	4.3	38.1	56.2	5.7	1.0	14060	43	4.0
kentucky	floyd	upper elk horn no 3	3.9	38.0	58.6	3.4	0.7	14590	44	5.5
kentucky	floyd	upper elk horn no 3	7.2	36.3	57.5	6.2	0.7	13880	0	3.5
kentucky	floyd	upper elk horn no 3	7.0	36.8	56.0	7.2	1.0	13820	0	4.5
kentucky	floyd	upper elk horn no 3	6.7	36.2	55.9	7.9	0.9	13610	0	3.5
kentucky	floyd	upper elk horn no 3	6.4	35.5	56.4	8.1	0.8	13630	44	4.0
kentucky	harlan	harlan	4.1	38.9	56.3	4.8	1.1	14330	42	5.5
kentucky	harlan	harlan	2.9	36.2	56.3	7.5	0.8	13930	0	5.5
kentucky	harlan	darby	4.7	36.3	57.4	6.3	1.7	14080	0	5.5
kentucky	harlan	darby	3.9	36.7	57.5	5.8	1.7	14170	0	5.5
kentucky	harlan	darby	4.4	36.2	56.8	7.0	2.0	13910	0	4.5
kentucky	harlan	harlan	3.3	36.3	57.4	6.3	0.7	14100	52	5.5
kentucky	harlan	harlan	4.8	37.0	54.6	13.4	1.0	12820	51	4.5
kentucky	harlan	harlan	3.6	37.9	55.8	10.3	1.1	13460	0	5.0
kentucky	harlan	harlan	3.4	39.0	57.1	3.9	0.7	14470	45	5.5
kentucky	harlan	harlan	4.3	35.8	58.6	5.6	1.1	14200	0	5.5
kentucky	harlan	harlan	4.3	36.3	54.1	9.6	1.2	13490	0	5.0
kentucky	harlan	cornett	3.9	39.3	53.5	7.2	0.8	13940	0	4.0
kentucky	harlan	cornett	5.0	36.4	53.0	10.6	0.8	13360	0	5.0
kentucky	harlan	darby	7.1	35.7	56.2	8.1	0.7	13400	48	3.0
kentucky	harlan	darby	4.7	37.0	57.5	5.5	0.6	14080	0	5.0
kentucky	harlan	harlan	6.0	35.0	56.1	8.9	0.9	13630	0	5.5
kentucky	harlan	high solint	4.5	39.5	55.3	5.2	0.6	14060	0	5.0
kentucky	harlan	high solint	5.7	38.7	54.4	6.9	0.6	13740	0	5.0
kentucky	harlan	darby	7.1	37.9	59.5	2.6	0.5	14140	46	1.0
kentucky	harlan	harlan	4.4	37.0	58.8	4.2	0.6	13720	46	1.0
kentucky	harlan	darby	5.2	35.1	57.0	7.9	0.6	13890	0	5.0
kentucky	harlan	high solint	2.4	36.6	55.8	7.6	0.9	13590	0	5.0
kentucky	harlan	high solint	5.0	36.8	53.7	9.5	1.0	13270	0	3.5
kentucky	harlan	fire clay & darby	3.5	37.3	54.0	8.7	1.2	13500	45	5.0
kentucky	harlan	harlan	3.1	33.4	54.5	12.1	1.0	13170	55	7.0
kentucky	harlan	high solint	5.3	38.4	57.8	3.8	0.6	14280	0	4.5
kentucky	harlan	high solint	5.3	40.6	55.3	4.1	0.6	14200	44	4.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
kentucky	harlan	high splint	6.1	39.7	54.9	5.4	0.6	14060	0	4.5
kentucky	harlan	darby	4.9	36.8	57.5	5.7	0.6	14000	0	5.0
kentucky	harlan	darby	5.1	36.4	59.1	5.5	0.6	14070	0	4.5
kentucky	harlan	darby	5.5	35.9	57.5	6.6	0.4	13840	0	5.0
kentucky	harlan	darby	6.7	35.4	56.3	8.3	0.7	13720	0	5.0
kentucky	harlan	low splint	4.1	37.6	56.1	6.3	0.8	14100	50	5.5
kentucky	harlan	various	5.7	36.3	55.6	8.1	1.0	13470	46	3.5
kentucky	harlan	low splint	3.0	37.0	53.0	10.0	0.9	13340	40	5.0
kentucky	harlan	harlan	2.9	39.1	56.2	4.7	1.2	14290	46	4.5
kentucky	harlan	harlan	2.9	39.6	55.4	5.0	1.1	14300	46	4.5
kentucky	harlan	harlan & low splint	2.9	38.9	55.8	5.3	1.2	14170	47	6.0
kentucky	harlan	fire clay	6.8	38.5	56.6	4.9	0.7	13890	0	3.5
kentucky	harlan	fire clay	7.9	37.9	55.7	6.4	0.9	13650	0	1.5
kentucky	harlan	darby	4.0	38.3	54.9	6.8	1.6	13980	43	5.0
kentucky	harlan	darby	3.5	36.2	51.8	12.0	0.9	13060	41	4.5
kentucky	harlan	harlan	4.6	34.6	54.1	7.3	0.6	13890	0	5.0
kentucky	harlan	high splint	5.9	37.4	57.9	9.7	1.1	13250	41	3.5
kentucky	harlan	harlan	3.3	37.8	54.4	7.8	1.0	13740	45	5.0
kentucky	harlan	harlan	6.0	35.8	53.6	10.6	1.1	13380	0	4.5
kentucky	harlan	darby	5.6	36.6	55.2	8.2	1.3	13340	45	3.0
kentucky	harlan	darby	7.2	36.4	51.7	11.9	1.0	12610	0	2.5
kentucky	harlan	darby	7.0	36.3	58.7	5.0	0.7	14120	0	4.5
kentucky	harlan	harlan	7.4	34.4	54.5	11.1	1.0	13090	0	3.0
kentucky	harlan	harlan	7.0	33.3	57.4	9.3	0.9	13470	0	4.0
kentucky	harlan	harlan	5.0	35.1	55.9	9.0	1.2	13530	0	4.5
kentucky	harlan	hazard	5.5	39.2	52.3	8.5	0.7	13550	39	3.5
kentucky	harlan	darby	3.9	39.5	52.5	8.0	2.2	13790	0	4.0
kentucky	harlan	darby	8.4	35.2	59.1	5.7	0.7	13840	0	3.5
kentucky	harlan	harlan	5.3	36.7	56.0	7.3	0.7	13620	0	2.5
kentucky	harlan	low splint	3.9	38.9	52.5	8.6	2.8	13590	39	2.5
kentucky	harlan	harlan	4.7	36.9	57.5	5.6	0.8	14130	0	5.0
kentucky	harlan	harlan	5.0	36.1	57.2	6.7	1.0	14000	0	5.5
kentucky	harlan	darby	5.2	35.8	54.7	9.5	1.4	13550	0	4.5
kentucky	harlan	darby	3.8	35.7	57.4	6.9	1.3	13950	0	4.5
kentucky	harlan	darby	3.8	34.4	59.5	4.1	0.7	14370	0	4.5
kentucky	harlan	darby	4.5	34.5	58.2	5.3	0.6	14230	0	6.0
kentucky	johnson	upper elkhorn no 3	7.5	41.1	54.3	4.6	0.9	13910	43	3.0
kentucky	johnson	upper elkhorn no 3	6.2	38.9	56.1	5.0	0.8	14060	41	3.0
kentucky	johnson	upper elkhorn no 3	6.9	39.2	57.7	4.1	0.9	14180	45	2.5
kentucky	johnson	upper elkhorn no 3	6.6	36.6	57.1	11.3	3.2	12850	0	1.5
kentucky	johnson	upper elkhorn no 3	7.5	35.4	58.8	5.8	1.2	13730	0	1.0
kentucky	johnson	uncorrelated	6.5	36.5	54.8	8.7	0.6	13230	40	1.0
kentucky	johnson	upper elkhorn no 3	6.8	35.8	51.2	13.0	3.5	12750	0	4.0
kentucky	johnson	upper elkhorn no 3	9.0	33.9	54.9	11.2	1.1	12960	49	1.5
kentucky	johnson	upper elkhorn no 3	6.8	36.2	54.9	8.9	1.0	13350	0	4.5
kentucky	knott	fire clay	3.1	34.8	54.6	8.6	0.8	13710	46	6.0
kentucky	knott	hindman	3.6	34.3	51.5	10.2	2.6	13340	48	5.0
kentucky	knott	various	6.9	35.8	50.8	13.4	1.4	12590	0	2.0
kentucky	knott	hazard no 7	6.1	36.8	55.5	7.7	0.6	13560	0	1.5
kentucky	knott	fire clay	3.7	38.5	56.4	5.1	0.8	14260	46	4.5

state	county	bed	mnistur	vnmat	fixedc	ash	sulfur	btu	hqilo	fsilo
kentucky	knott	fire clay	4.9	37.9	56.5	5.6	0.8	14190	0	4.5
kentucky	knott	fire clay	4.2	37.8	56.5	5.7	0.9	14070	44	4.5
kentucky	knott	hindman	4.2	38.4	54.1	7.5	1.9	13760	0	4.5
kentucky	knott	hindman	8.5	34.7	54.4	10.9	3.3	13110	0	2.5
kentucky	knott	hazard no 7	4.9	36.0	54.9	9.1	0.6	13470	40	2.0
kentucky	knott	hazard no 7	5.8	35.9	54.1	10.0	0.9	13290	0	2.0
kentucky	knott	hazard no 7	5.1	35.5	53.1	11.4	1.1	13080	0	1.5
kentucky	knott	hazard no 7	7.2	35.7	54.3	10.0	0.8	13220	0	2.0
kentucky	knox	jellico	5.4	37.1	51.3	11.6	2.1	13130	54	4.5
kentucky	knox	blue gem	8.5	36.9	57.2	5.9	1.2	14110	0	5.0
kentucky	knox	blue gem	6.6	37.2	55.7	7.1	1.4	13840	0	5.0
kentucky	knox	fire clay	4.4	33.6	53.0	13.4	0.9	12620	44	1.5
kentucky	knox	fire clay	3.6	37.8	53.0	9.2	1.9	13480	49	5.5
kentucky	knox	jellico	4.4	42.2	51.5	6.3	2.4	14220	46	4.0
kentucky	laurel	uncorrelated	9.8	35.8	53.8	10.4	2.2	13150	55	5.5
kentucky	laurel	uncorrelated	2.7	41.9	49.2	8.9	4.6	13550	52	3.5
kentucky	laurel	jellico	6.6	36.9	50.6	12.5	2.5	12860	59	4.0
kentucky	laurel	lily	4.2	42.1	50.9	7.0	3.9	13950	0	4.0
kentucky	laurel	blue gem	5.6	39.0	57.2	3.8	1.0	14390	47	5.5
kentucky	laurel	lily	6.2	38.8	53.4	7.8	3.0	13740	50	4.5
kentucky	lee	fire clay	9.2	34.7	54.3	11.0	1.8	12990	0	2.5
kentucky	lee	fire clay	***	37.0	48.9	14.1	2.0	12570	0	3.5
kentucky	letcher	fire clay	3.2	38.3	56.8	4.9	0.8	14220	44	4.0
kentucky	letcher	fire clay&whitesburg	2.6	36.0	51.5	12.5	0.9	13000	38	5.0
kentucky	letcher	fire clay	3.8	38.0	57.5	4.5	0.8	14360	46	5.0
kentucky	letcher	upper elkhorn no 3	3.3	37.1	55.2	7.7	1.9	13820	45	5.5
kentucky	letcher	upper elkhorn no 3	4.4	36.2	56.2	7.6	1.5	13800	0	5.5
kentucky	letcher	fire clay	2.9	37.7	55.4	6.9	0.8	14040	0	4.5
kentucky	letcher	amburg	2.3	37.6	51.1	11.3	2.9	13180	0	6.0
kentucky	letcher	upper elkhorn no 3	2.8	40.1	53.9	6.0	1.9	14280	0	6.0
kentucky	letcher	upper elkhorn no 3	3.4	39.7	54.6	5.7	1.5	14250	45	4.0
kentucky	letcher	upper elkhorn no 3	4.2	38.0	56.5	5.5	1.1	14120	0	5.5
kentucky	letcher	various	4.0	35.9	51.6	12.5	1.0	12990	0	5.0
kentucky	letcher	amburg	2.8	35.4	46.2	18.4	3.6	12070	0	6.5
kentucky	letcher	hazard	5.6	34.6	57.9	7.5	0.6	13660	44	3.0
kentucky	letcher	upper elkhorn no 3	3.9	38.7	56.6	4.7	1.3	14350	0	5.5
kentucky	letcher	fire clay	3.2	39.2	55.8	5.0	0.9	14310	0	4.5
kentucky	letcher	fire clay&u elkhorn 3	4.8	37.3	54.4	8.3	1.3	13770	47	5.5
kentucky	letcher	fire clay&u elkhorn 3	4.6	37.9	54.7	7.4	1.7	13980	0	5.5
kentucky	letcher	fire clay	3.4	38.6	56.6	4.8	0.8	14370	0	5.0
kentucky	letcher	upper elkhorn no 3	3.3	39.4	54.8	5.8	1.6	14180	48	6.5
kentucky	letcher	upper elkhorn no 3	4.9	34.5	57.7	7.8	1.0	13790	0	5.5
kentucky	letcher	various	5.6	36.9	54.1	9.0	1.1	13530	0	5.5
kentucky	letcher	hazard no 7	5.4	36.4	53.6	10.0	0.7	13300	39	3.5
kentucky	letcher	lower whitesburg	5.2	34.2	53.9	11.9	0.9	13050	47	4.0
kentucky	letcher	u elkhorn 3&whitsbrg	5.3	38.5	53.4	8.1	1.4	13450	44	5.0
kentucky	letcher	u elkhorn 3&elkhorn rdr	5.4	36.1	56.0	7.9	1.1	13610	44	4.0
kentucky	letcher	fire clay & fr clay r	3.2	38.8	54.3	6.9	0.9	13840	43	6.0
kentucky	letcher	fire clay&fr clay rdr	3.2	38.8	54.3	6.9	0.9	13840	43	6.0
kentucky	letcher	amburg	2.9	38.6	49.7	11.7	4.5	13250	47	6.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqiln	fsilo
kentucky	letcher	upper elkhorn no 3	5.0	36.6	52.6	10.8	2.2	13400	0	6.0
kentucky	letcher	upper elkhorn no 3	4.9	35.7	52.9	11.4	1.7	13200	0	6.0
kentucky	letcher	upper elkhorn no 3	4.9	35.9	51.3	12.8	1.8	12990	0	7.0
kentucky	letcher	fire clay	4.3	38.7	55.8	5.5	0.8	14210	45	5.0
kentucky	letcher	fire clay&wnitesburg	3.0	36.3	53.4	10.3	1.1	13340	40	5.0
kentucky	letcher	lower whitesburg	2.8	37.0	53.8	9.2	1.6	13590	41	4.5
kentucky	letcher	fire clay	5.1	36.7	56.0	7.3	0.9	13910	0	5.5
kentucky	letcher	lower whitesburn	4.4	37.7	57.3	5.0	1.0	14060	43	3.5
kentucky	mccreary	lily	3.4	41.3	47.4	11.3	4.9	13230	46	4.0
kentucky	mccreary	jellico	5.3	35.2	52.9	11.9	1.1	13070	0	4.5
kentucky	mccreary	jellico	5.4	35.3	53.0	11.7	1.2	13130	0	5.0
kentucky	mccreary	jellico	7.3	35.3	52.9	11.8	1.7	13120	45	6.5
kentucky	mccreary	stearns no 11/2	5.0	38.4	55.1	6.5	0.6	13900	46	4.0
kentucky	mccreary	stearns no 11/2	7.7	36.3	54.8	8.9	0.4	13360	0	2.0
kentucky	mccreary	stearns no 11/2	7.8	35.2	57.1	7.7	0.5	13600	0	2.0
kentucky	mccreary	beaver creek	3.1	40.2	44.2	15.6	5.2	12420	44	3.5
kentucky	mccreary	hudson	5.1	37.7	52.5	9.8	1.5	13320	38	4.5
kentucky	mccreary	hudson	3.4	39.5	49.3	11.2	3.0	13180	41	4.0
kentucky	mccreary	hudson	4.1	38.0	51.3	10.7	2.3	13200	0	5.0
kentucky	mccreary	beaver creek	3.2	41.5	46.1	12.4	5.1	12960	48	3.5
kentucky	mccreary	beaver creek	4.0	39.7	45.9	14.4	4.1	12640	50	4.5
kentucky	mccreary	beaver creek	2.9	40.5	46.2	13.5	4.1	12850	49	4.0
kentucky	mccreary	beaver creek	4.2	39.7	45.7	14.6	4.2	12540	0	3.5
kentucky	mccreary	beaver creek	3.7	40.2	47.4	12.4	4.1	12940	46	4.5
kentucky	magoffin	hindman	8.5	36.3	55.0	8.7	0.9	13260	48	2.0
kentucky	magoffin	hindman	7.1	35.5	57.3	7.2	0.8	13570	0	1.0
kentucky	magoffin	oakley	7.9	36.6	54.5	8.9	0.9	13030	44	2.5
kentucky	martin	lower elkhorn	6.8	37.8	53.8	8.4	1.1	13670	43	5.0
kentucky	perry	fire clay	6.1	35.9	55.8	8.3	0.9	13600	47	5.5
kentucky	perry	hazard no 7	4.6	36.1	54.9	9.0	0.6	13560	0	4.5
kentucky	perry	hazard	6.0	37.9	55.4	6.7	0.6	13790	42	3.5
kentucky	perry	hazard	4.0	37.3	53.1	9.6	0.6	13440	0	5.0
kentucky	perry	hazard	5.9	33.7	49.0	17.3	0.7	12230	0	3.0
kentucky	perry	hazard no 7	7.4	36.7	56.3	7.0	0.6	13650	43	1.0
kentucky	perry	hazard	3.8	38.1	54.2	7.7	0.8	13720	42	4.0
kentucky	perry	fire clay	4.4	37.2	55.4	7.4	0.9	13760	0	5.0
kentucky	perry	fire clay	4.3	36.7	56.3	7.0	0.8	13940	44	5.5
kentucky	perry	fire clay & hindman	5.6	36.8	54.7	8.5	1.6	13650	47	6.0
kentucky	perry	various	6.8	34.7	53.3	12.0	0.9	13120	0	5.5
kentucky	perry	hazard & hazard no 7	4.2	36.8	54.5	8.7	0.7	13530	41	3.0
kentucky	perry	fire clay & hindman	7.9	35.3	50.0	14.7	4.9	12300	0	2.5
kentucky	perry	hindman	4.5	39.3	52.3	8.4	2.1	13600	44	5.0
kentucky	perry	hindman	5.4	35.2	52.2	12.6	3.1	12850	0	5.0
kentucky	perry	hazard no 7	4.0	37.9	55.4	6.7	0.6	13890	0	4.0
kentucky	perry	hazard no 7	3.8	39.3	54.8	5.9	1.0	14070	0	4.5
kentucky	perry	hazard no 7	6.5	36.6	56.7	6.7	0.6	13860	41	3.5
kentucky	perry	various	5.8	36.2	54.3	9.5	0.6	13330	0	1.5
kentucky	perry	hazard no 7	4.6	35.5	55.6	8.9	0.5	13530	42	4.0
kentucky	perry	hazard	4.4	37.8	57.1	10.1	1.0	13350	42	4.0
kentucky	perry	hazard & hazard no 7	5.1	36.6	53.8	9.6	0.7	13440	0	4.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
kentucky	perry	hazard no 7	4.5	36.3	55.3	8.4	0.6	13620	0	5.0
kentucky	perry	fire clay	3.1	37.8	55.4	6.8	0.8	13990	0	5.0
kentucky	perry	fire clay	4.7	37.7	54.7	7.6	0.9	13760	0	5.5
kentucky	perry	fire clay	3.8	36.0	53.8	10.2	0.9	13330	0	5.5
kentucky	perry	hindman	3.1	38.2	52.3	9.5	2.7	13440	40	5.0
kentucky	perry	hazard no 7&hindman	4.5	36.9	54.0	9.1	2.2	13470	42	4.5
kentucky	perry	hazard	6.3	38.2	54.4	7.4	0.7	13670	0	1.0
kentucky	perry	hazard	7.7	37.7	54.9	7.4	0.6	13540	0	1.0
kentucky	perry	hazard	6.8	36.8	54.1	9.1	0.7	13360	0	1.0
kentucky	perry	hazard	5.8	37.1	53.8	9.1	0.6	13350	0	1.5
kentucky	perry	hazard	5.6	38.0	53.1	8.9	0.7	13490	41	1.0
kentucky	perry	hazard	7.0	37.5	53.5	9.0	0.6	13350	0	1.5
kentucky	perry	hazard	4.8	37.1	54.0	8.9	0.6	13420	0	1.5
kentucky	perry	fire clay	1.8	37.3	55.6	7.1	0.7	13950	48	6.0
kentucky	perry	hazard no 7	7.8	36.5	57.7	5.8	0.5	13810	42	1.5
kentucky	perry	hazard	5.1	36.8	51.5	11.7	0.9	12820	47	4.5
kentucky	perry	hazard	3.4	39.3	54.9	5.8	0.5	14110	38	4.0
kentucky	perry	hindman	4.4	38.6	52.1	9.3	2.5	13410	0	5.5
kentucky	perry	hindman	5.1	38.3	51.8	9.9	1.9	13250	41	3.0
kentucky	perry	various	3.5	39.2	53.6	7.2	0.9	13880	0	4.5
kentucky	perry	hazard & hazard no 7	4.5	36.7	52.5	10.8	1.0	13190	0	4.0
kentucky	perry	hazard & hazard no 7	4.3	37.2	50.7	12.1	0.9	12910	40	4.0
kentucky	perry	hindman	5.9	34.9	53.2	11.9	3.6	13070	0	5.0
kentucky	perry	hazard no 7&hindman	8.6	34.3	51.1	14.6	3.3	12550	0	4.5
kentucky	perry	hazard no 7	6.7	36.6	54.1	9.3	0.7	13120	41	1.0
kentucky	perry	fire clay	1.9	37.0	57.2	5.8	0.8	14110	53	6.0
kentucky	perry	fire clay	3.3	37.9	55.3	6.8	0.9	13870	50	5.0
kentucky	perry	fire clay	4.1	38.0	55.1	6.9	0.9	13980	44	4.5
kentucky	perry	fire clay & hazard 7	4.4	36.0	55.2	8.8	0.8	13640	0	5.5
kentucky	perry	fire clay	3.1	38.2	57.0	4.8	0.8	14320	0	5.0
kentucky	perry	fire clay	4.6	36.9	55.5	7.6	0.8	13880	0	6.0
kentucky	perry	fire clay	3.2	39.6	54.4	6.0	0.9	14030	0	5.0
kentucky	pike	lower elkhorn	4.9	34.0	56.1	9.9	0.7	13570	48	7.0
kentucky	pike	upper elkhorn no 1	4.0	35.8	56.5	7.7	0.7	14090	0	6.5
kentucky	pike	upper elkhorn no 3	2.9	37.7	55.1	7.2	1.6	14130	0	6.0
kentucky	pike	upper elkhorn no 1	6.9	34.9	57.9	7.2	0.9	13700	0	1.0
kentucky	pike	upper elkhorn no 1	7.0	34.9	59.8	5.3	0.6	14270	50	3.5
kentucky	pike	lower elkhorn	2.5	33.6	57.7	8.7	0.6	13940	50	8.0
kentucky	pike	upper elkhorn no 3	6.5	35.3	50.1	14.6	1.1	12360	43	1.5
kentucky	pike	lower elkhorn	3.6	31.3	55.0	13.7	0.6	13130	53	9.0
kentucky	pike	lower elkhorn	2.5	32.4	55.6	12.0	0.8	13220	52	8.0
kentucky	pike	upper elkhorn no 2	6.4	34.8	56.7	8.5	0.7	13850	49	6.5
kentucky	pike	bingham	2.5	33.5	56.9	9.6	1.2	13930	58	7.5
kentucky	pike	upper elkhorn no 3	3.0	38.8	53.7	7.5	1.5	14000	44	6.0
kentucky	pike	various	4.0	31.7	59.2	9.1	1.0	14010	0	8.0
kentucky	pike	bingham	2.1	33.6	58.6	7.8	1.6	14250	64	7.0
kentucky	pike	upper elkhorn no 2	4.1	38.0	54.3	7.7	1.0	13800	46	4.5
kentucky	pike	upper elkhorn no 2	3.7	38.2	55.0	6.8	1.0	14040	42	5.5
kentucky	pike	upper elkhorn no 3	2.0	36.3	53.6	10.1	2.4	13610	49	6.0
kentucky	pike	upper elkhorn no 1	3.7	32.7	54.5	12.8	0.9	13160	51	6.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
kentucky	dike	various	4.1	38.5	55.7	5.8	1.1	14120	0	6.5
kentucky	dike	u elkhorn nos 1 & 3	4.1	38.6	55.8	5.6	1.2	14140	42	4.5
kentucky	dike	u elkhorn nos 1 & 3	6.1	36.6	55.1	8.3	1.1	13580	0	5.5
kentucky	dike	u elkhorn nos 1 & 2	6.1	35.1	54.3	10.6	1.0	13250	0	4.5
kentucky	dike	bingham	2.6	32.4	60.5	7.1	1.2	14290	0	8.0
kentucky	dike	bingham	6.1	32.5	59.4	8.1	1.0	14150	0	7.5
kentucky	dike	upper elkhorn no 2	4.2	33.6	59.6	6.8	0.8	14250	51	7.5
kentucky	dike	upper elkhorn no 2	2.6	34.8	57.5	7.7	0.7	14080	52	8.0
kentucky	dike	upper elkhorn no 2	3.0	33.4	59.7	6.9	0.9	14270	51	7.5
kentucky	dike	lower elkhorn	3.4	31.2	57.3	11.5	0.7	13370	52	7.5
kentucky	dike	upper elkhorn no 3	3.4	39.1	56.0	4.9	1.3	14390	46	6.0
kentucky	dike	upper elkhorn no 2	7.4	36.3	56.1	7.6	0.7	13860	45	5.5
kentucky	dike	u elkhorn nos 2 & 3	6.3	32.8	54.7	12.5	0.6	13110	0	5.0
kentucky	dike	upper elkhorn no 3	5.8	33.1	55.6	11.3	0.6	13080	0	2.5
kentucky	dike	elswick	2.9	31.8	58.8	9.4	2.0	14060	0	5.5
kentucky	dike	elswick	1.7	32.7	57.3	10.0	3.0	13950	64	7.0
kentucky	dike	elswick	1.5	33.7	57.1	9.2	3.8	14020	68	7.0
kentucky	dike	lower elkhorn	5.2	30.2	58.0	11.8	0.7	13420	0	7.5
kentucky	dike	lower elkhorn	4.7	30.6	56.4	13.0	0.9	13260	0	7.5
kentucky	dike	lower elkhorn	2.6	33.7	56.2	10.1	0.6	13600	50	6.5
kentucky	dike	lower elkhorn	2.8	36.4	58.1	5.5	0.5	14340	47	6.0
kentucky	dike	lower elkhorn	6.8	29.3	56.0	14.7	0.7	12770	0	6.5
kentucky	dike	lower elkhorn	2.7	37.0	55.2	7.8	0.6	13800	43	6.5
kentucky	dike	u elkhorn 3% elkhorn	5.0	32.4	54.8	8.8	0.7	13810	0	7.5
kentucky	dike	lower elkhorn	2.9	33.9	55.7	10.4	0.8	13450	51	7.5
kentucky	dike	lower elkhorn	3.9	32.9	56.2	10.9	0.8	13440	0	7.0
kentucky	dike	upper elkhorn no 1	4.7	32.1	55.8	12.1	0.8	13270	56	7.5
kentucky	dike	u elkhorn nos 1 & 3	3.5	34.0	54.6	11.4	1.0	13380	51	7.5
kentucky	dike	upper elkhorn no 2	2.6	36.3	58.6	5.1	0.8	14470	50	8.0
kentucky	dike	upper elkhorn no 2	4.5	31.1	56.8	12.1	0.6	13370	51	7.5
kentucky	dike	upper elkhorn no 1	3.2	31.4	56.4	12.2	0.5	13240	52	7.0
kentucky	dike	upper elkhorn no 3	5.2	33.7	48.9	12.4	1.0	12190	53	4.0
kentucky	dike	various	2.7	33.0	57.9	9.1	1.1	13970	56	8.0
kentucky	dike	upper elkhorn no 2	2.9	35.5	53.6	10.9	1.4	13360	46	6.5
kentucky	dike	upper elkhorn no 2	3.4	34.3	51.8	13.9	0.9	12920	44	6.5
kentucky	dike	upper elkhorn no 2	3.9	34.1	59.8	6.1	0.8	14390	0	8.0
kentucky	dike	lower elkhorn	2.7	31.8	55.9	12.3	0.6	13390	50	8.0
kentucky	dike	lower elkhorn	3.0	33.3	59.5	7.2	0.7	14170	0	8.0
kentucky	dike	lower elkhorn	2.9	33.0	59.6	7.4	0.6	14200	58	8.0
kentucky	dike	upper elkhorn no 1	3.8	35.1	59.4	5.5	0.6	14550	46	7.0
kentucky	dike	upper elkhorn no 1	4.4	33.5	58.1	8.4	0.6	13760	46	4.0
kentucky	dike	upper elkhorn no 3	3.9	36.8	56.8	6.4	0.8	14060	0	1.5
kentucky	dike	upper elkhorn no 3	3.9	38.8	55.9	5.3	1.3	14300	44	6.5
kentucky	dike	upper elkhorn no 3	3.0	38.8	55.7	5.5	1.4	14320	0	6.5
kentucky	dike	u elkhorn nos 2 & 3	6.7	32.7	50.4	16.9	0.8	12170	47	1.5
kentucky	dike	lower elkhorn	3.4	31.2	53.1	15.7	0.9	12700	50	7.5
kentucky	dike	bingham	1.9	33.7	58.8	7.5	1.4	14190	62	7.5
kentucky	dike	bingham	3.1	33.5	58.4	8.1	1.0	14160	58	7.0
kentucky	dike	various	2.4	32.0	57.4	10.6	0.7	13630	53	8.0
kentucky	dike	upper elkhorn no 2	3.2	30.5	53.0	16.5	0.6	12520	51	6.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailn	fsilo
kentucky	oike	lower elkhorn	2.5	31.9	54.9	13.2	0.8	13150	52	8.0
kentucky	oike	lower elkhorn	4.0	33.4	53.6	13.0	0.9	12860	48	5.5
kentucky	oike	u elkhorn 1&l elkhorn	3.6	33.0	59.3	7.7	0.7	14120	0	7.0
kentucky	oike	u elkhorn 1&l elkhorn	5.2	33.1	60.2	6.7	0.6	14230	0	7.5
kentucky	oike	lower elkhorn	3.6	34.1	58.6	7.3	0.9	14160	54	7.5
kentucky	oike	upper elkhorn no 2	4.0	35.2	60.3	4.5	0.7	14450	0	6.0
kentucky	oike	upper elkhorn no 2	4.3	36.0	56.5	7.5	1.4	14030	48	5.5
kentucky	oike	upper elkhorn no 2	5.2	34.4	57.3	8.3	0.7	13680	0	1.5
kentucky	oike	upper elkhorn no 2	3.0	38.4	56.2	5.4	1.0	14350	45	7.0
kentucky	oike	upper elkhorn no 2	3.1	35.6	59.6	4.8	0.7	14530	52	7.5
kentucky	oike	upper elkhorn no 3	2.7	36.0	55.1	8.9	1.6	13840	46	7.5
kentucky	oike	fire clay & hazard	6.0	37.4	50.8	11.8	2.7	12850	51	5.5
kentucky	oike	u elkhorn nos 2 & 3	4.6	37.0	54.3	8.7	0.9	13710	45	5.5
kentucky	oike	upper elkhorn no 1	2.6	36.9	59.7	3.4	0.6	14720	44	7.0
kentucky	oike	upper elkhorn no 3	6.2	35.0	47.3	17.7	2.6	12220	0	5.5
kentucky	ulke	upper elkhorn no 3	4.2	35.5	47.3	17.2	2.1	12310	47	6.0
kentucky	oike	upper elkhorn no 3	5.3	34.2	46.6	19.2	1.9	12010	0	5.5
kentucky	oike	upper elkhorn no 3	6.0	37.8	47.1	20.1	1.8	11800	0	5.0
kentucky	oike	lower elkhorn	5.9	32.7	55.9	11.4	0.5	13270	0	4.0
kentucky	oike	lower elkhorn	2.6	30.3	53.3	16.4	0.5	12690	0	7.5
kentucky	oike	lower elkhorn	2.6	32.6	60.1	7.3	0.6	14260	57	8.5
kentucky	oike	bingham	2.9	35.1	56.0	8.9	2.4	14030	63	7.0
kentucky	oike	bingham & l elkhorn	5.0	31.3	58.7	10.0	0.7	13510	60	6.5
kentucky	oike	varinus	3.4	39.0	56.3	4.7	1.0	14300	0	5.0
kentucky	oike	various	3.3	37.8	56.4	5.8	0.8	14230	0	5.0
kentucky	oike	upper elkhorn no 3	3.5	39.4	56.0	4.6	1.2	14360	40	6.0
kentucky	oike	upper elkhorn no 3	4.9	39.4	55.1	5.5	1.1	14110	42	4.0
kentucky	oike	upper elkhorn no 2	3.6	34.7	55.1	10.2	0.8	13520	45	6.5
kentucky	oike	upper elkhorn no 1	3.6	34.7	57.0	8.3	0.8	13830	48	6.0
kentucky	oike	upper elkhorn no 1	3.4	34.5	57.2	8.3	1.0	13720	50	6.5
kentucky	oike	various	4.4	36.5	51.9	11.6	1.6	13190	46	5.5
kentucky	oike	u elkhorn nos 2 & 3	5.6	36.2	54.6	9.2	1.2	13480	0	6.0
kentucky	oike	u elkhorn nos 1 & 2	3.7	37.9	56.3	10.8	0.8	13450	0	6.5
kentucky	oike	upper elkhorn no 3	5.0	32.6	56.6	10.8	1.0	13440	50	7.0
kentucky	oike	lower elkhorn	3.5	32.6	57.4	9.8	0.8	13710	51	7.0
kentucky	oike	lower elkhorn	2.7	33.6	60.7	5.7	0.9	14580	39	8.5
kentucky	oike	upper elkhorn no 1	3.5	30.5	55.9	13.6	0.7	13110	58	8.0
kentucky	oike	u elkhorn nos 1 & 2	2.9	31.9	55.4	12.7	0.6	13300	53	8.0
kentucky	oike	u elkhorn nos 1 & 2	4.3	32.1	51.4	16.5	1.3	12500	57	8.0
kentucky	oike	lower elkhorn	2.8	31.4	58.8	9.8	0.7	13840	56	8.5
kentucky	oike	lower elkhorn	2.7	31.4	57.0	11.6	0.6	13550	56	9.0
kentucky	oike	upper elkhorn no 2	4.1	34.0	57.5	8.5	0.7	13910	49	6.5
kentucky	oike	various	3.6	37.0	54.7	8.3	1.7	13840	46	7.0
kentucky	oike	upper elkhorn no 2	4.6	34.9	57.7	7.4	0.6	13900	0	6.0
kentucky	oike	upper elkhorn no 3	5.3	35.9	58.5	5.6	0.9	14240	53	6.0
kentucky	oike	u elkhorn 3&l elkhorn	4.7	33.9	59.4	6.7	0.9	14150	57	7.0
kentucky	pulaski	barren fork	7.1	35.3	55.1	9.6	1.6	13190	48	5.5
kentucky	rockcastle	uncorrelated	***	35.0	53.3	11.7	0.4	12610	50	1.5
kentucky	whitley	jellico	7.4	37.4	56.8	5.8	1.3	14010	48	4.5
kentucky	whitley	jellico	8.8	35.4	57.6	7.0	0.9	13420	57	1.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	otu	hailo	tsilo
kentucky	whitley	lily	3.8	40.1	49.5	11.4	4.5	13240	46	3.5
kentucky	whitley	jelllico	4.9	37.8	55.7	6.5	1.1	13850	44	5.0
kentucky	whitley	jelllico	4.1	37.7	57.5	4.8	1.2	14210	45	5.0
kentucky	whitley	jelllico	5.5	36.5	57.2	6.3	1.0	13780	0	1.0
kentucky	whitley	jelllico	6.0	37.1	58.5	4.4	0.9	14260	50	5.0
kentucky	whitley	jelllico	6.2	37.2	56.4	6.4	1.1	13810	0	2.5
kentucky	whitley	jelllico	4.6	38.6	56.7	4.7	1.1	14250	0	5.5
kentucky	whitley	jelllico	4.7	36.9	55.2	7.9	1.1	13800	0	5.5
kentucky	whitley	jelllico	4.6	40.8	54.9	4.3	1.5	14310	45	5.0
kentucky	whitley	various	3.3	38.3	50.6	11.1	2.1	13050	43	5.0
kentucky	whitley	various	7.7	38.5	54.6	6.9	1.2	13750	0	2.0
kentucky	whitley	jelllico	4.4	36.7	53.5	9.8	1.6	13390	47	5.0
kentucky	whitley	jelllico	3.6	42.6	52.6	4.8	2.5	14290	53	5.5
kentucky	whitley	jelllico	5.2	39.0	54.9	6.1	1.9	13900	47	5.5
kentucky	whitley	jelllico	4.0	38.0	55.6	6.4	1.3	13990	46	5.0
kentucky	whitley	jelllico	4.5	36.2	56.9	6.9	1.1	13860	50	5.5
kentucky	butler	no 6	***	33.8	52.9	13.3	2.1	12570	0	2.0
kentucky	butler	no 5	***	35.8	54.1	10.1	1.6	13050	0	1.0
kentucky	daviess	uncorrelated	***	37.2	44.7	18.1	7.1	11590	0	1.0
kentucky	daviess	no 9	***	37.2	41.3	21.5	4.2	10810	0	3.5
kentucky	daviess	no 9	***	41.5	47.8	10.7	3.6	12540	0	5.0
kentucky	hancock	no 6	***	40.2	45.5	14.3	6.2	12240	54	3.5
kentucky	hopkins	no 9	8.4	37.6	49.1	13.3	4.3	12520	58	6.0
kentucky	hopkins	no 9	***	37.9	49.3	12.8	5.0	12590	63	4.0
kentucky	hopkins	no 9	5.5	40.1	48.5	11.4	4.4	12900	0	6.0
kentucky	hopkins	no 9	7.1	39.4	49.6	12.0	4.2	12640	59	4.5
kentucky	hopkins	no 9	9.1	39.5	47.8	12.7	4.5	12570	61	4.5
kentucky	hopkins	no 9	5.0	38.3	49.3	12.4	4.8	12500	52	3.0
kentucky	hopkins	no 9	8.6	39.4	48.6	12.0	4.2	12840	62	5.0
kentucky	hopkins	no 11	7.3	39.8	46.1	14.1	4.0	12450	0	5.5
kentucky	hopkins	no 9	9.9	38.9	50.6	10.5	3.7	12980	53	4.0
kentucky	hopkins	no 9	7.8	39.9	48.5	11.6	3.9	12750	54	4.0
kentucky	hopkins	no 14	4.8	36.8	47.3	15.9	4.9	12030	0	4.0
kentucky	hopkins	no 12	4.6	37.9	44.2	17.9	4.1	11700	0	4.5
kentucky	hopkins	no 11	5.2	40.4	47.8	11.8	4.6	12670	0	3.5
kentucky	hopkins	no 9	6.7	39.7	51.3	9.0	4.0	13160	0	6.0
kentucky	hopkins	no 11	7.9	38.7	46.7	14.6	4.5	12280	60	5.0
kentucky	hopkins	no 11	***	37.0	46.1	16.9	4.7	11850	0	4.5
kentucky	hopkins	no 9	8.5	39.8	48.0	12.2	4.0	12650	61	4.0
kentucky	hopkins	no 6	***	38.8	52.5	8.7	3.5	13230	0	6.0
kentucky	hopkins	no 6	***	38.3	51.1	10.6	3.3	12950	0	5.0
kentucky	hopkins	no 6	9.6	34.6	52.5	12.9	2.8	12520	0	3.5
kentucky	hopkins	no 9	6.2	40.0	49.1	10.9	4.2	12690	0	3.5
kentucky	hopkins	no 11	6.1	38.8	44.7	17.0	4.7	11850	0	5.0
kentucky	hopkins	no 11	8.0	39.3	47.8	12.9	3.9	12550	53	5.5
kentucky	hopkins	no 11	8.0	37.3	49.3	13.4	4.2	12480	0	5.5
kentucky	hopkins	no 11	***	40.1	48.3	11.6	4.8	12660	0	4.5
kentucky	hopkins	no 11	8.7	38.2	47.8	14.0	4.6	12250	0	4.5
kentucky	hopkins	no 11	9.1	35.7	44.3	20.0	5.0	11330	57	5.5
kentucky	hopkins	no 6	***	41.7	52.3	6.0	3.4	13770	0	5.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
kentucky	hopkins	no 6	***	35.3	54.3	10.4	4.9	13060	56	4.5
kentucky	hopkins	no 6	***	33.6	57.1	9.3	1.8	13320	0	2.5
kentucky	hopkins	no 6	***	32.9	46.4	20.7	4.9	11120	0	1.0
kentucky	hopkins	no 9	8.4	40.0	49.4	10.6	4.7	12940	59	5.0
kentucky	hopkins	no 9	9.7	36.4	47.6	16.0	5.2	12110	59	5.0
kentucky	hopkins	no 6	***	38.0	51.5	10.5	3.3	13020	0	5.5
kentucky	hopkins	no 6	***	34.6	54.4	11.0	2.5	12980	0	4.5
kentucky	hopkins	no 11	8.0	36.5	47.8	15.7	4.1	12090	0	5.5
kentucky	hopkins	no 9	9.0	37.6	51.0	11.4	4.9	12850	60	6.5
kentucky	hopkins	no 9	8.4	38.6	47.1	14.3	4.7	12380	0	5.0
kentucky	hopkins	no 9	***	36.9	50.9	12.2	4.2	12750	62	6.0
kentucky	hopkins	no 9	5.1	39.8	49.9	10.3	3.6	13040	0	6.5
kentucky	hopkins	no 9	4.9	39.7	48.5	11.8	3.9	12890	62	5.5
kentucky	hopkins	no 9	5.1	40.8	50.0	9.2	4.2	13310	54	6.0
kentucky	hopkins	no 9	5.4	38.9	48.6	12.5	4.2	12690	0	5.0
kentucky	hopkins	no 6	9.7	40.2	55.0	4.8	1.7	13870	47	4.5
kentucky	hopkins	no 6	***	35.7	50.7	13.6	3.2	12530	0	5.0
kentucky	hopkins	no 6	***	36.9	53.2	9.9	2.9	13040	0	5.0
kentucky	hopkins	no 6	***	35.1	56.5	8.4	1.7	13280	0	3.0
kentucky	hopkins	no 9	7.2	40.8	48.9	10.3	3.6	12830	56	4.5
kentucky	hopkins	no 9	6.5	37.8	48.6	13.6	4.5	12450	56	6.5
kentucky	muhlenberg	no 11	8.3	40.1	47.1	12.8	3.9	12530	51	4.5
kentucky	muhlenberg	no 9	***	39.4	48.0	12.6	4.4	12540	56	5.0
kentucky	muhlenberg	no 9	7.7	40.2	48.4	11.4	3.8	12730	58	4.5
kentucky	muhlenberg	no 9	7.9	39.4	48.7	11.9	4.5	12660	55	6.0
kentucky	muhlenberg	no 12	7.3	37.7	45.5	16.8	4.4	11730	0	4.5
kentucky	muhlenberg	no 11	6.8	39.5	47.4	13.1	4.7	12320	0	4.0
kentucky	muhlenberg	no 9	8.2	38.3	47.5	14.2	4.1	12390	62	5.0
kentucky	muhlenberg	no 9	8.4	38.5	49.0	12.5	4.0	12570	59	4.5
kentucky	muhlenberg	no 11	9.2	35.5	44.3	20.2	4.0	11450	55	6.0
kentucky	muhlenberg	no 11	8.5	36.5	46.3	17.2	3.9	11780	0	5.5
kentucky	muhlenberg	no 11	6.5	43.8	50.9	5.3	3.0	13730	54	3.0
kentucky	muhlenberg	no 9	***	40.8	49.4	9.8	4.0	13030	56	5.0
kentucky	muhlenberg	no 12	8.4	36.1	47.7	16.2	2.7	11790	0	4.0
kentucky	muhlenberg	no 9	***	37.4	50.1	12.5	4.0	12640	55	6.5
kentucky	muhlenberg	no 9	9.3	38.6	49.1	12.3	4.0	12660	62	4.0
kentucky	muhlenberg	no 9	9.5	38.6	49.6	11.8	3.9	12770	0	5.0
kentucky	muhlenberg	no 6	9.2	40.6	51.4	8.0	2.5	13440	0	3.0
kentucky	muhlenberg	no 9	8.9	39.2	47.5	13.3	4.1	12400	53	6.0
kentucky	muhlenberg	no 9	8.7	40.6	49.8	9.6	4.0	13040	62	4.5
kentucky	muhlenberg	no 9	9.7	39.5	49.7	10.8	3.9	12900	63	5.0
kentucky	muhlenberg	no 9	9.1	39.1	48.8	12.1	4.4	12650	61	5.5
kentucky	muhlenberg	no 9	9.6	39.0	48.8	12.2	4.0	12680	54	3.0
kentucky	muhlenberg	no 9	9.0	40.0	48.3	11.7	4.4	12690	58	5.0
kentucky	muhlenberg	no 11	7.8	40.1	47.6	12.3	4.8	12500	0	4.5
kentucky	muhlenberg	no 9	7.3	40.1	49.3	10.6	4.3	12890	0	4.5
kentucky	muhlenberg	no 9	7.6	39.8	47.9	12.3	4.7	12580	50	5.0
kentucky	muhlenberg	no 9	***	38.3	49.6	12.1	4.0	12540	54	5.5
kentucky	muhlenberg	no 9	7.9	39.0	46.9	14.1	4.6	12280	61	4.5
kentucky	muhlenberg	no 9	7.4	40.7	47.4	11.9	4.5	12620	51	4.0

state	county	bed	anistur	volant	fixed	ash	sulfur	wtu	hailn	falln
kentucky	muhlenberg	no 7	***	39.5	50.6	9.9	3.9	13060	60	5.5
kentucky	muhlenberg	nos 11 & 12	7.0	43.1	48.0	8.9	3.5	13170	46	3.5
kentucky	muhlenberg	no 9	***	38.9	48.4	12.7	3.5	12490	0	5.5
kentucky	muhlenberg	no 12	7.6	35.7	46.5	17.8	4.3	11610	0	5.5
kentucky	muhlenberg	no 11	8.1	41.6	45.9	12.5	4.5	12560	0	4.5
kentucky	muhlenberg	no 12	6.4	37.2	44.6	18.2	4.2	11690	0	4.5
kentucky	muhlenberg	no 11	6.2	39.8	47.8	12.4	4.9	12510	0	5.0
kentucky	muhlenberg	no 9	***	38.9	48.7	12.4	4.6	12640	0	5.5
kentucky	ohio	no 6	***	41.5	52.4	6.1	2.2	13740	45	3.5
kentucky	ohio	no 9	***	39.3	48.8	11.9	4.6	12610	58	5.5
kentucky	ohio	no 9	8.2	40.7	48.0	11.3	3.9	12780	54	3.0
kentucky	ohio	no 6	***	41.9	47.1	11.0	3.7	13030	0	4.0
kentucky	ohio	no 9	7.6	41.7	50.0	8.3	3.6	13170	53	3.0
kentucky	ohio	no 9	***	37.0	43.8	19.2	5.0	11440	0	5.0
kentucky	ohio	no 9	9.0	37.9	44.9	17.2	4.9	11650	0	3.5
kentucky	ohio	no 9	***	38.4	49.3	12.3	4.0	12580	61	4.0
kentucky	ohio	no 9	***	39.5	50.0	10.5	4.4	12490	65	2.0
kentucky	ohio	no 9	***	40.1	48.8	11.1	3.4	12750	60	5.5
kentucky	ohio	no 9	8.0	40.5	48.0	11.5	3.8	12740	0	4.0
kentucky	union	no 14	6.1	37.5	53.5	9.0	2.9	13370	62	5.5
kentucky	union	no 11	4.1	38.1	47.5	14.4	4.8	12540	55	6.0
kentucky	union	no 7	4.7	36.6	49.4	14.0	4.4	12680	57	7.0
kentucky	union	nos 6 & 9	4.5	37.4	49.2	13.4	3.7	12830	58	7.0
kentucky	union	nos 6 & 9	3.5	36.9	49.4	13.7	4.2	12660	59	8.0
kentucky	union	no 9	4.0	36.6	48.3	15.1	4.1	12620	61	6.0
kentucky	union	no 9	4.2	39.0	50.5	10.5	4.2	13060	55	7.0
kentucky	union	no 11	4.4	37.3	44.4	18.3	4.8	12010	57	7.0
kentucky	union	no 9	5.9	35.2	47.1	17.7	4.1	12130	61	6.5
kentucky	union	no 9	3.5	36.9	47.7	15.4	4.2	12440	59	7.0
kentucky	union	nos 9 & 11	4.3	35.9	44.9	19.2	4.4	11820	0	7.0
kentucky	union	no 9	8.1	39.0	49.8	11.2	3.8	12640	0	3.5
kentucky	webster	no 9	4.4	37.8	48.4	13.8	4.3	12720	62	6.5
kentucky	webster	no 9	4.3	37.5	48.0	14.5	4.7	12410	58	7.0
kentucky	webster	no 9	4.4	36.8	48.5	14.7	4.0	12510	0	7.0

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in maryland

(In millions of short tons)												
rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
allegany county												
bit												
barton												
0-1000	19.05	1.73	0.00	20.78	21.34	5.02	0.00	26.36	40.39	6.75	0.00	47.14
harlem												
0-1000	14.55	0.00	0.00	14.55	0.00	0.00	0.00	0.00	14.55	0.00	0.00	14.55
lower bakerstown												
0-1000	6.09	28.18	30.59	64.86	5.42	7.15	0.00	12.57	11.51	35.33	30.59	77.43
lower freeport												
0-1000	0.00	0.00	0.00	0.00	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04
lower kittanning												
0-1000	0.00	0.00	0.00	0.00	10.72	0.00	0.00	10.72	10.72	0.00	0.00	10.72
mahoning												
0-1000	0.00	0.00	0.00	0.00	3.14	3.34	0.00	6.48	3.14	3.34	0.00	6.48
middle kittanning												
0-1000	0.00	0.00	0.00	0.00	3.90	0.00	0.00	3.90	3.90	0.00	0.00	3.90
upper bakerstown												
0-1000	27.76	20.94	7.96	56.66	14.86	1.53	1.02	17.41	42.62	22.47	8.98	74.07
upper freeport												
0-1000	15.98	9.98	37.07	63.03	22.20	5.02	16.21	43.43	38.18	15.00	53.28	106.46
upper kittanning												
0-1000	22.36	3.59	0.87	26.82	11.62	9.66	4.31	25.59	33.98	13.25	5.18	52.41
county total =	105.79	64.42	76.49	246.70	96.24	31.72	21.54	149.50	202.03	96.14	98.03	396.20
garrett county												
bit												
barton												
0-1000	4.87	4.17	0.00	9.04	5.47	1.67	0.00	7.14	10.34	5.84	0.00	16.18
brush creek												
0-1000	19.80	0.00	0.00	19.80	3.89	0.00	0.00	3.89	23.69	0.00	0.00	23.69
harlem												
0-1000	18.58	0.00	0.00	18.58	6.95	0.00	0.00	6.95	25.53	0.00	0.00	25.53
lower bakerstown												
0-1000	36.99	25.91	10.56	73.46	9.42	15.77	0.00	25.19	46.41	41.68	10.56	98.65
mahoning												
0-1000	0.59	4.00	1.94	6.53	4.70	0.72	0.00	5.42	5.29	4.72	1.94	11.95
middle kittanning												
0-1000	27.75	15.79	23.31	66.85	23.03	6.89	3.52	33.44	50.78	22.68	26.83	100.29
upper bakerstown												
0-1000	1.46	1.65	1.08	4.19	0.83	0.21	0.14	1.18	2.29	1.86	1.22	5.37
upper freeport												
0-1000	27.01	20.86	29.82	77.69	6.67	9.65	4.19	20.51	33.68	30.51	34.01	98.20

upper kittanning 0-1000	35.70	32.09	0.00	67.79	12.52	2.63	0.00	15.15	48.22	34.72	0.00	82.94
county total =	172.75	104.47	66.71	343.93	73.48	37.54	7.85	118.87	246.23	142.01	74.56	462.80
overburden subtotal 0-1000	278.54	168.89	143.20	590.63	169.72	69.26	29.39	268.37	448.26	238.15	172.59	859.00
total =	278.54	168.89	143.20	590.63	169.72	69.26	29.39	268.37	448.26	238.15	172.59	859.00
overburden total 0-1000	278.54	168.89	143.20	590.63	169.72	69.26	29.39	268.37	448.26	238.15	172.59	859.00
grand total =	278.54	168.89	143.20	590.63	169.72	69.26	29.39	268.37	448.26	238.15	172.59	859.00

total tonnage of identified coal resources in maryland

839.00

resource figures taken from:

source	year	base year of resource
usbm bull 507	1952	1950
usbm tech paper 725	1949	original

average analyses of coal in maryland

rank	proximate analysis (percent)					ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
allegany county													
bit													
	barton	2.1	16.4	69.6	14.0	0.0	0.0	0.0	0.0	2.1	13321	2555	19
	franklin	2.2	18.0	68.8	13.2	0.0	0.0	0.0	0.0	2.6	13326	2326	3
	little pittsburgh	4.0	20.5	61.6	17.9	0.0	0.0	0.0	0.0	2.3	12173	2486	3
	lower freeport	4.4	16.0	78.5	5.5	0.0	0.0	0.0	0.0	1.4	14770	2360	1
	pittsburgh	3.5	18.7	72.2	9.2	4.4	80.1	1.9	2.3	0.9	14140	2883	79
	pittsburgh&sewickley	4.2	17.8	71.8	10.4	0.0	0.0	0.0	0.0	0.9	13710	2910	1
	redstone	2.0	17.6	60.8	21.6	0.0	0.0	0.0	0.0	3.3	11890	2595	2
	sewickley	2.7	19.9	71.6	8.4	4.5	80.7	1.7	2.5	1.2	14275	2726	92
	upper bakerstown	2.9	17.3	70.2	12.5	0.0	0.0	0.0	0.0	1.6	13645	2490	4
	upper freeport	2.3	16.6	65.5	17.9	0.0	0.0	0.0	0.0	2.7	12490	2720	1
	upper kittanning	2.2	16.1	68.4	15.5	3.9	74.7	1.3	2.9	2.8	13030	2615	2
	wayneshurg	2.3	19.6	60.0	11.6	0.0	0.0	0.0	0.0	2.0	13710	2553	12
county average													
		2.9	19.0	71.2	9.8	4.3	79.2	1.7	2.5	1.3	14017	2725	219
garrett county													
bit													
	barton	4.8	18.9	67.3	13.8	0.0	0.0	0.0	0.0	1.1	12715	2215	2
	clarion	1.8	15.4	71.2	13.4	0.0	0.0	0.0	0.0	3.2	13400	2290	1
	franklin	1.7	18.4	61.5	20.1	0.0	0.0	0.0	0.0	3.5	12125	2367	4
	harlem	2.2	19.2	64.9	15.9	0.0	0.0	0.0	0.0	3.1	12980	2180	1
	l bakerstown&u frept	2.0	16.4	71.4	12.2	0.0	0.0	0.0	0.0	2.3	13644	2340	13
	l kittanning&u frept	6.5	22.1	63.2	14.7	0.0	0.0	0.0	0.0	1.4	12670	2910	1
	low & up kittanning	2.8	21.6	69.8	8.6	0.0	0.0	0.0	0.0	1.7	14230	2670	1
	lower bakerstown	2.0	17.5	69.3	13.2	0.0	0.0	0.0	0.0	2.9	13460	2368	18
	lower freeport	3.5	18.1	66.7	15.1	0.0	0.0	0.0	0.0	2.8	12890	2370	2
	lower kittanning	2.4	20.3	66.4	13.3	4.1	77.1	1.2	2.3	2.9	13308	2472	23
	pittsburgh	3.0	21.0	71.7	7.3	0.0	0.0	0.0	0.0	0.8	14420	2910	1
	sewickley	2.3	19.6	54.9	25.5	0.0	0.0	0.0	0.0	1.6	11280	2910	1
	uncorrelated	3.2	18.9	64.3	16.9	0.0	0.0	0.0	0.0	1.9	12755	2670	4
	upper bakerstown	2.3	20.0	67.0	13.0	0.0	0.0	0.0	0.0	3.1	13469	2205	13
	upper freeport	2.9	19.9	69.4	10.7	4.3	77.2	1.4	2.7	1.6	13866	2671	86
	upper kittanning	2.4	17.9	68.6	13.5	0.0	0.0	0.0	0.0	3.6	13350	2400	1
	various	3.8	16.5	70.4	13.1	0.0	0.0	0.0	0.0	1.1	13490	2820	1
county average													
		2.6	19.3	68.5	12.2	4.2	77.2	1.3	2.6	2.2	13583	2534	173

Maryland

state	county	hed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
Maryland	allegany	Pittsburgh	2.3	15.2	70.5	11.3	0.9	13860	0	9.0
Maryland	allegany	Pittsburgh	3.4	17.6	68.3	14.1	1.2	13320	0	9.0
Maryland	allegany	sewickley	2.4	19.9	68.8	11.3	1.2	13880	0	9.0
Maryland	allegany	sewickley	2.8	19.4	71.2	9.4	1.2	14180	0	8.5
Maryland	allegany	sewickley	2.8	18.8	69.0	12.2	1.7	13660	0	9.0
Maryland	allegany	Pittsburgh	3.1	18.3	71.1	10.6	0.9	13690	0	7.0
Maryland	allegany	Pittsburgh&sewickley	4.2	17.8	71.8	10.4	0.9	13710	99	3.5
Maryland	allegany	Franklin	2.1	17.9	70.3	11.8	1.2	13500	0	3.0
Maryland	allegany	Franklin	1.6	17.2	69.2	13.6	3.6	13270	0	9.0
Maryland	allegany	Waynesburg	2.0	18.8	64.1	17.1	2.6	12680	0	9.0
Maryland	allegany	Pittsburgh	2.5	17.6	72.9	9.5	0.9	14110	0	8.5
Maryland	allegany	upper Kittanning	2.0	15.7	69.3	15.0	2.2	13160	0	5.5
Maryland	allegany	upper Freeport	2.3	16.6	65.5	17.9	2.7	12490	0	8.5
Maryland	allegany	Franklin	2.8	18.9	67.0	14.1	3.1	13210	0	9.0
Maryland	allegany	upper Bakerstown	2.0	14.8	60.8	22.4	2.8	11880	0	9.0
Maryland	allegany	Pittsburgh	3.4	18.4	70.6	11.0	1.0	13830	0	8.0

continued.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hylio	faile
Maryland	allegany	sewickley	4.9	17.7	72.4	7.9	0.8	14150	**	7.0
Maryland	allegany	waynesburg	3.2	14.7	63.8	17.5	2.0	12670	85	9.0
Maryland	allegany	waynesburg	1.9	17.7	59.7	22.6	2.2	11680	0	6.5
Maryland	allegany	sewickley	2.8	21.6	71.4	6.6	0.9	14590	95	9.0
Maryland	allegany	sewickley	2.2	20.9	72.2	6.9	1.1	14450	95	9.0
Maryland	allegany	redstone	1.9	17.7	63.3	19.0	2.8	12330	0	8.5
Maryland	allegany	redstone	2.1	17.5	58.3	24.2	3.8	13450	0	8.0
Maryland	garrett	upper freeport	2.7	23.1	60.0	16.9	1.6	12800	84	9.0
Maryland	garrett	upper freeport	2.7	16.7	71.2	12.1	1.0	13550	0	7.5
Maryland	garrett	pittsburgh	3.0	21.0	71.7	7.3	0.8	14420	99	9.0
Maryland	garrett	lower freeport	4.8	20.5	65.5	14.0	1.8	12990	**	1.5
Maryland	garrett	uncorrelated	3.0	16.4	65.3	18.3	3.5	12560	91	6.5
Maryland	garrett	upper kittanning	2.4	17.9	68.6	13.5	3.6	13350	0	6.0
Maryland	garrett	upper freeport	1.9	21.3	59.9	18.8	5.6	12170	0	8.5
Maryland	garrett	upper freeport	1.8	20.0	65.7	14.3	2.3	13190	0	8.5
Maryland	garrett	upper freeport	3.0	17.8	72.8	9.4	2.3	13970	0	7.5
Maryland	garrett	upper freeport	1.6	17.4	72.7	9.9	2.0	13880	**	7.0
Maryland	garrett	sewickley	2.3	19.6	54.9	25.5	1.6	11280	0	9.0
Maryland	garrett	upper freeport	2.5	15.2	68.8	16.0	2.5	12980	0	5.5
Maryland	garrett	upper freeport	2.8	14.8	71.0	14.2	1.2	13180	0	4.0
Maryland	garrett	upper bakerstown	3.4	20.4	65.4	14.2	3.4	13270	0	9.0
Maryland	garrett	upper freeport	3.4	20.7	67.3	12.0	2.1	13710	99	9.0
Maryland	garrett	low & up kittanning	2.8	21.6	69.8	8.6	1.7	14230	98	9.0
Maryland	garrett	l kittanning&u frent	6.5	22.1	63.2	14.7	1.4	12670	0	4.5
Maryland	garrett	upper bakerstown	1.2	17.9	67.5	14.6	3.7	13360	0	9.0
Maryland	garrett	upper freeport	4.4	18.8	73.7	7.5	0.5	14170	**	1.0
Maryland	garrett	upper freeport	2.1	18.7	67.6	13.7	2.2	13300	**	8.5
Maryland	garrett	franklin	1.8	18.6	57.1	24.3	3.0	11400	0	8.5
Maryland	garrett	franklin	1.6	19.3	67.1	13.6	3.4	13290	0	9.0
Maryland	garrett	franklin	1.8	18.8	66.2	15.0	3.5	12970	0	9.0
Maryland	garrett	franklin	1.7	16.8	55.6	27.6	4.1	10840	0	8.0
Maryland	garrett	upper freeport	2.9	17.1	73.3	9.6	0.7	14080	95	9.0
Maryland	garrett	various	3.8	16.5	70.4	13.1	1.1	13490	0	3.0
Maryland	garrett	lower bakerstown	1.8	17.1	66.3	16.6	6.4	12820	0	6.5
Maryland	garrett	lower bakerstown	1.9	15.4	75.0	9.6	2.7	14000	0	7.5
Maryland	garrett	lower kittanning	2.0	24.7	60.5	14.8	1.8	13010	91	8.5
Maryland	garrett	harlem	2.2	19.2	64.9	15.9	3.1	12980	0	9.0
Maryland	garrett	lower freeport	2.1	15.8	67.9	16.3	3.8	12790	0	4.5
Maryland	garrett	barton	4.1	14.8	67.9	13.3	1.8	13220	0	3.0
Maryland	garrett	upper freeport	4.6	17.5	65.2	17.3	2.1	12670	0	9.0
Maryland	garrett	lower kittanning	3.0	16.1	70.8	13.1	2.2	13460	90	9.0

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in michigan

(in millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
bit	bay				county							
uncorrelated												
0-1000	6.20	34.82	7.64	48.66	0.00	0.00	0.00	0.00	6.20	34.82	7.64	48.66
county total =	6.20	34.82	7.64	48.66	0.00	0.00	0.00	0.00	6.20	34.82	7.64	48.66
bit	genesee				county							
uncorrelated												
0-1000	0.00	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	6.94	0.00	6.94
county total =	0.00	6.94	0.00	6.94	0.00	0.00	0.00	0.00	0.00	6.94	0.00	6.94
bit	huron				county							
uncorrelated												
0-1000	0.00	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	6.38	0.00	6.38
county total =	0.00	6.38	0.00	6.38	0.00	0.00	0.00	0.00	0.00	6.38	0.00	6.38
bit	midland				county							
uncorrelated												
0-1000	1.32	0.00	0.00	1.32	0.00	0.00	0.00	0.00	1.32	0.00	0.00	1.32
county total =	1.32	0.00	0.00	1.32	0.00	0.00	0.00	0.00	1.32	0.00	0.00	1.32
bit	saginaw				county							
uncorrelated												
0-1000	11.27	18.46	4.15	33.88	0.00	0.00	0.00	0.00	11.27	18.46	4.15	33.88
county total =	11.27	18.46	4.15	33.88	0.00	0.00	0.00	0.00	11.27	18.46	4.15	33.88
bit	shiawassee				county							
uncorrelated												
0-1000	0.99	2.02	0.00	3.01	0.00	0.00	0.00	0.00	0.99	2.02	0.00	3.01

county total =	0.99	2.02	0.00	3.01	0.00	0.00	0.00	0.00	0.99	2.02	0.00	3.01

tuscola				county								

bit												
uncorrelated												
0-1000	9.12	12.54	3.02	24.68	0.00	0.00	0.00	0.00	9.12	12.54	3.02	24.68

county total =	9.12	12.54	3.02	24.68	0.00	0.00	0.00	0.00	9.12	12.54	3.02	24.68

=====												
overburden												
subtotal												
0-1000	28.90	81.16	14.81	124.87	0.00	0.00	0.00	0.00	28.90	81.16	14.81	124.87

total =	28.90	81.16	14.81	124.87	0.00	0.00	0.00	0.00	28.90	81.16	14.81	124.87
=====												
=====												
overburden												
total												
0-1000	28.90	81.16	14.81	124.87	0.00	0.00	0.00	0.00	28.90	81.16	14.81	124.87

grand total =	28.90	81.16	14.81	124.87	0.00	0.00	0.00	0.00	28.90	81.16	14.81	124.87

tonnage not included: 95.03
because:
thickness = unclassified : 95.03

total tonnage of identified coal resources in michigan 219.90

resource figures taken from:

source	year	base year of resource
usgs circ 77	1950	1950

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.57
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	0.98
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.43
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	1.12
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.62
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	4.88
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.79
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	2.15
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	6.24
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	12.01

mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	4.34
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	8.98
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.25
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	0.62
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.22
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	0.58
mich	bay	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.56
mich	bay	uncorrelated	bit	1950	unclass	0-1000	inferred	1.61
mich	genesee	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.09
mich	genesee	uncorrelated	bit	1950	unclass	0-1000	inferred	0.20
mich	huron	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.08
mich	huron	uncorrelated	bit	1950	unclass	0-1000	inferred	0.19
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.16
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.19
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.40
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	1.25
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.22
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.60
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.35
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	3.12
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.45
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.95
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.08
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	2.53
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.16
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.47
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.39
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	3.88
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.95
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	1.49
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.07
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.22
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.49
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.20
mich	saginaw	uncorrelated	bit	1950	unclass	0-1000	inferred	0.59
mich	shiawassee	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.24
mich	shiawassee	uncorrelated	bit	1950	unclass	0-1000	inferred	0.31
mich	shiawassee	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.27
mich	shiawassee	uncorrelated	bit	1950	unclass	0-1000	inferred	0.43
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.50
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	1.45
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.89
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	4.98
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.41
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	1.59
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	2.07
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	4.67
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	0.68
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	2.00
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	indicatd	1.08
mich	tuscola	uncorrelated	bit	1950	unclass	0-1000	inferred	1.74

average analyses of coal in michigan

rank	coal bed	proximate analysis (percent)				ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
		moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
		bay				county							
bit	uncorrelated	13.3	37.7	50.8	11.5	0.0	0.0	0.0	0.0	1.6	12830	2311	8
	upper verne	10.3	40.0	51.0	9.0	0.0	0.0	0.0	0.0	2.2	13255	2175	4
	county average	12.3	38.4	50.9	10.7	0.0	0.0	0.0	0.0	1.8	12971	2284	12
		huron				county							
bit	uncorrelated	10.5	39.7	46.0	14.3	0.0	0.0	0.0	0.0	8.9	12345	2285	2
	county average	10.5	39.7	46.0	14.3	0.0	0.0	0.0	0.0	8.9	12345	2285	2
		midland				county							
bit	uncorrelated	12.1	36.9	52.0	11.1	0.0	0.0	0.0	0.0	1.8	12940		1
	county average	12.1	36.9	52.0	11.1	0.0	0.0	0.0	0.0	1.8	12940		1
		saginaw				county							
bit	saginaw	10.9	38.2	56.6	5.2	0.0	0.0	0.0	0.0	1.4	13890	2220	3
	uncorrelated	13.3	36.9	53.5	9.6	0.0	0.0	0.0	0.0	1.7	13189	2207	10
	upper verne	11.5	37.0	50.6	12.4	0.0	0.0	0.0	0.0	1.2	12750	2260	1
	county average	12.7	37.2	53.9	8.8	0.0	0.0	0.0	0.0	1.6	13307	2213	14
		shiawassee				county							
bit	uncorrelated	14.4	36.5	50.0	13.5	0.0	0.0	0.0	0.0	2.0	12605	2208	6
	upper verne	13.9	36.0	52.6	11.4	0.0	0.0	0.0	0.0	1.7	12926	2240	6
	county average	14.2	36.2	51.3	12.5	0.0	0.0	0.0	0.0	1.8	12765	2222	12
		tuscola				county							
bit	uncorrelated	11.4	41.2	52.6	6.1	0.0	0.0	0.0	0.0	3.1	13745	2090	2

county average	11.4	41.2	52.6	6.1	0.0	0.0	0.0	0.0	3.1	13745	2090	2
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National Coal Resources Data System

U.S. Geological Survey

identified coal resources in missouri

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
adair				county								
bit												
bevier												
0-1000	13.98	447.48	0.00	461.46	0.00	326.90	0.00	326.90	13.98	774.38	0.00	788.36
croweburg												
0-1000	217.53	0.00	0.00	217.53	358.27	0.00	0.00	358.27	575.80	0.00	0.00	575.80
lexington												
0-1000	0.00	67.97	0.00	67.97	0.00	50.94	0.00	50.94	0.00	118.91	0.00	118.91
county total =	231.51	515.45	0.00	746.96	358.27	377.84	0.00	736.11	589.78	893.29	0.00	1483.07
andrew				county								
bit												
bevier												
0-1000	0.00	0.00	0.00	0.00	109.90	0.00	0.00	109.90	109.90	0.00	0.00	109.90
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	0.00	170.96	0.00	170.96	0.00	170.96	0.00	170.96
county total =	0.00	0.00	0.00	0.00	109.90	170.96	0.00	280.86	109.90	170.96	0.00	280.86
atchinson				county								
bit												
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	263.95	0.00	0.00	263.95	263.95	0.00	0.00	263.95
county total =	0.00	0.00	0.00	0.00	263.95	0.00	0.00	263.95	263.95	0.00	0.00	263.95
audrain				county								
bit												
mulky												
0-1000	0.00	548.86	0.00	548.86	0.00	0.00	0.00	0.00	0.00	548.86	0.00	548.86
county total =	0.00	548.86	0.00	548.86	0.00	0.00	0.00	0.00	0.00	548.86	0.00	548.86
barton				county								
bit												
rowe												
0-1000	233.44	0.00	0.00	233.44	24.77	0.00	0.00	24.77	258.21	0.00	0.00	258.21
weir-pittsburg												
0-1000	0.00	109.36	0.00	109.36	0.00	0.00	0.00	0.00	0.00	109.36	0.00	109.36

bates													
county													
bit													
mineral													
0-1000	167.91	71.38	134.57	373.86	0.00	32.25	0.00	32.25	167.91	103.63	134.57	406.11	
mulberry													
0-1000	153.97	183.12	0.00	337.09	33.02	0.00	0.00	33.02	186.99	183.12	0.00	370.11	
tebo													
0-1000	199.26	8.40	0.00	207.66	483.14	0.00	0.00	483.14	682.40	8.40	0.00	690.80	
county total =													
521.14	262.90	134.57	918.61	516.16	32.25	0.00	548.41	1037.30	295.15	134.57	1467.02		
boone													
county													
bit													
bevier													
0-1000	0.00	222.40	38.56	260.96	0.00	0.00	0.00	0.00	0.00	222.40	38.56	260.96	
crouseburg													
0-1000	0.00	0.00	0.00	0.00	86.40	0.00	0.00	86.40	86.40	0.00	0.00	86.40	
summit													
0-1000	64.99	0.00	0.00	64.99	0.00	0.00	0.00	0.00	64.99	0.00	0.00	64.99	
county total =													
64.99	222.40	38.56	325.95	86.40	0.00	0.00	0.00	86.40	151.39	222.40	38.56	412.35	
buchanan													
county													
bit													
bevier													
0-1000	122.11	0.00	0.00	122.11	0.00	0.00	0.00	0.00	122.11	0.00	0.00	122.11	
bevier wheeler													
0-1000	128.22	0.00	0.00	128.22	78.62	0.00	0.00	78.62	206.84	0.00	0.00	206.84	
crouseburg													
0-1000	103.76	0.00	0.00	103.76	0.00	0.00	0.00	0.00	103.76	0.00	0.00	103.76	
tebo													
0-1000	111.55	0.00	0.00	111.55	0.00	0.00	0.00	0.00	111.55	0.00	0.00	111.55	
county total =													
465.64	0.00	0.00	465.64	78.62	0.00	0.00	0.00	78.62	544.26	0.00	0.00	544.26	
caldwell													
county													
bit													
bevier wheeler													
0-1000	130.10	0.00	0.00	130.10	0.00	0.00	0.00	0.00	130.10	0.00	0.00	130.10	
lexington													
0-1000	151.35	128.60	0.00	279.95	30.72	0.00	0.00	30.72	182.07	128.60	0.00	310.67	
county total =													
281.45	128.60	0.00	410.05	30.72	0.00	0.00	0.00	30.72	312.17	128.60	0.00	440.77	
callaway													
county													
bit													
bevier													
0-1000	0.00	296.68	0.00	296.68	0.00	0.00	0.00	0.00	0.00	296.68	0.00	296.68	
county total =													
0.00	296.68	0.00	296.68	0.00	0.00	0.00	0.00	0.00	0.00	296.68	0.00	296.68	
carroll													
county													

bit												
bevier wheeler												
0-1000	154.20	0.00	0.00	154.20	76.20	0.00	0.00	76.20	230.40	0.00	0.00	230.40
croweburg												
0-1000	72.08	0.00	0.00	72.08	100.72	0.00	0.00	100.72	172.80	0.00	0.00	172.80
mulky												
0-1000	0.00	0.00	0.00	0.00	5.18	0.00	0.00	5.18	5.18	0.00	0.00	5.18
county total =	226.28	0.00	0.00	226.28	182.10	0.00	0.00	182.10	408.38	0.00	0.00	408.38

cass county

bit												
tebo												
0-1000	0.00	72.86	0.00	72.86	0.00	0.00	0.00	0.00	0.00	72.86	0.00	72.86
county total =	0.00	72.86	0.00	72.86	0.00	0.00	0.00	0.00	0.00	72.86	0.00	72.86

cedar county

bit												
rove												
0-1000	0.00	0.00	0.00	0.00	40.00	0.00	0.00	40.00	40.00	0.00	0.00	40.00
county total =	0.00	0.00	0.00	0.00	40.00	0.00	0.00	40.00	40.00	0.00	0.00	40.00

chariton county

bit												
bevier												
0-1000	135.66	58.95	52.25	246.86	18.36	0.00	0.00	18.36	154.02	58.95	52.25	265.22
croweburg												
0-1000	222.16	71.90	0.00	294.06	304.78	185.44	0.00	490.22	526.94	257.34	0.00	784.28
mulky												
0-1000	49.68	0.00	0.00	49.68	0.00	0.00	0.00	0.00	49.68	0.00	0.00	49.68
weir-pittsburg												
0-1000	0.00	0.00	0.00	0.00	0.00	150.00	0.00	150.00	0.00	150.00	0.00	150.00
county total =	407.50	130.85	52.25	590.60	323.14	335.44	0.00	658.58	730.64	466.29	52.25	1249.18

clark county

bit												
rove												
0-1000	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	2.00
county total =	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	0.00	2.00	0.00	2.00

clay county

bit												
bevier wheeler												
0-1000	36.79	0.00	0.00	36.79	0.00	0.00	0.00	0.00	36.79	0.00	0.00	36.79
lexington												
0-1000	130.18	32.42	0.00	162.60	69.46	0.00	0.00	69.46	199.64	32.42	0.00	232.06
county total =	166.97	32.42	0.00	199.39	69.46	0.00	0.00	69.46	236.43	32.42	0.00	268.85

clinton county

bit													
bevier wheeler													
0-1000		61.82	0.00	0.00	61.82	0.00	0.00	0.00	0.00	61.82	0.00	0.00	61.82
lexington													
0-1000		26.81	0.00	0.00	26.81	112.06	0.00	0.00	112.06	138.87	0.00	0.00	138.87
county total =		88.63	0.00	0.00	88.63	112.06	0.00	0.00	112.06	200.69	0.00	0.00	200.69
cooper county													
bit													
bevier													
0-1000		0.00	0.00	0.00	0.00	31.50	0.00	0.00	31.50	31.50	0.00	0.00	31.50
county total =		0.00	0.00	0.00	0.00	31.50	0.00	0.00	31.50	31.50	0.00	0.00	31.50
dade county													
bit													
rove													
0-1000		17.60	0.00	0.00	17.60	0.00	0.00	0.00	0.00	17.60	0.00	0.00	17.60
county total =		17.60	0.00	0.00	17.60	0.00	0.00	0.00	0.00	17.60	0.00	0.00	17.60
daviess county													
bit													
lexington													
0-1000		80.72	74.02	0.00	154.74	42.24	0.00	0.00	42.24	122.96	74.02	0.00	196.98
county total =		80.72	74.02	0.00	154.74	42.24	0.00	0.00	42.24	122.96	74.02	0.00	196.98
de kalb county													
bit													
lexington													
0-1000		36.48	0.00	0.00	36.48	0.00	0.00	0.00	0.00	36.48	0.00	0.00	36.48
county total =		36.48	0.00	0.00	36.48	0.00	0.00	0.00	0.00	36.48	0.00	0.00	36.48
gentry county													
bit													
lexington													
0-1000		0.00	0.00	0.00	0.00	34.56	0.00	0.00	34.56	34.56	0.00	0.00	34.56
rue													
0-1000		0.00	0.00	0.00	0.00	0.00	0.00	111.86	111.86	0.00	0.00	111.86	111.86
county total =		0.00	0.00	0.00	0.00	34.56	0.00	111.86	146.42	34.56	0.00	111.86	146.42
grundy county													
bit													
lexington													
0-1000		137.85	31.10	0.00	168.95	0.00	0.00	0.00	0.00	137.85	31.10	0.00	168.95
county total =		137.85	31.10	0.00	168.95	0.00	0.00	0.00	0.00	137.85	31.10	0.00	168.95
harrison county													

bit												
bevier wheeler												
0-1000	133.90	0.00	0.00	133.90	0.00	0.00	0.00	0.00	133.90	0.00	0.00	133.90
rowe												
0-1000	0.00	169.54	54.18	223.72	0.00	0.00	0.00	0.00	0.00	169.54	54.18	223.72
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	1059.43	264.86	0.00	1324.29	1059.43	264.86	0.00	1324.29
county total =	133.90	169.54	54.18	357.62	1059.43	264.86	0.00	1324.29	1193.33	434.40	54.18	1681.91

henry

county

bit												
croweburg												
0-1000	211.31	0.00	0.00	211.31	50.20	0.00	0.00	50.20	261.51	0.00	0.00	261.51
fleming												
0-1000	0.00	0.00	0.00	0.00	234.00	0.00	0.00	234.00	234.00	0.00	0.00	234.00
rowe												
0-1000	98.75	105.99	0.00	204.74	0.00	0.00	0.00	0.00	98.75	105.99	0.00	204.74
tebo												
0-1000	251.66	282.41	0.00	534.07	98.67	11.14	0.00	109.81	350.33	293.55	0.00	643.88
weir-pittsburg												
0-1000	58.80	0.00	0.00	58.80	97.28	34.06	0.00	131.34	156.08	34.06	0.00	190.14
county total =	620.52	388.40	0.00	1008.92	480.15	45.20	0.00	525.35	1100.67	433.60	0.00	1534.27

holt

county

bit												
bevier wheeler												
0-1000	167.04	0.00	0.00	167.04	0.00	0.00	0.00	0.00	167.04	0.00	0.00	167.04
county total =	167.04	0.00	0.00	167.04	0.00	0.00	0.00	0.00	167.04	0.00	0.00	167.04

howard

county

bit												
bevier												
0-1000	93.70	202.13	0.00	295.83	219.26	106.80	0.00	326.06	312.96	308.93	0.00	621.89
croweburg												
0-1000	0.00	0.00	0.00	0.00	218.49	0.00	0.00	218.49	218.49	0.00	0.00	218.49
mulky												
0-1000	20.35	0.00	0.00	20.35	0.00	0.00	0.00	0.00	20.35	0.00	0.00	20.35
summit												
0-1000	70.27	0.00	0.00	70.27	0.00	0.00	0.00	0.00	70.27	0.00	0.00	70.27
county total =	184.32	202.13	0.00	386.45	437.75	106.80	0.00	544.55	622.07	308.93	0.00	931.00

jackson

county

bit												
bevier wheeler												
0-1000	220.80	0.00	0.00	220.80	0.00	0.00	0.00	0.00	220.80	0.00	0.00	220.80
county total =	220.80	0.00	0.00	220.80	0.00	0.00	0.00	0.00	220.80	0.00	0.00	220.80

jasper

county

bit

rowe	0-1000	6.00	0.00	0.00	6.00	87.60	0.00	0.00	87.60	93.60	0.00	0.00	93.60
county total =		6.00	0.00	0.00	6.00	87.60	0.00	0.00	87.60	93.60	0.00	0.00	93.60

johnson							county						

bit													
bevier wheeler													
0-1000	25.24	0.00	0.00	25.24	607.05	0.00	0.00	607.05	632.29	0.00	0.00	632.29	
croweburg													
0-1000	167.64	0.00	0.00	167.64	602.52	0.00	0.00	602.52	770.16	0.00	0.00	770.16	
mulky													
0-1000	54.09	0.00	0.00	54.09	116.60	0.00	0.00	116.60	170.69	0.00	0.00	170.69	
rowe													
0-1000	115.20	0.00	67.54	182.74	0.00	0.00	0.00	0.00	115.20	0.00	67.54	182.74	
tebo													
0-1000	300.81	20.04	0.00	320.85	976.12	0.00	0.00	976.12	1276.93	20.04	0.00	1296.97	
county total =		662.98	20.04	67.54	750.56	2302.29	0.00	0.00	2302.29	2965.27	20.04	67.54	3052.85

lafayette							county						

bit													
bevier													
0-1000	272.09	0.00	0.00	272.09	74.54	0.00	0.00	74.54	346.63	0.00	0.00	346.63	
mulky													
0-1000	133.32	0.00	0.00	133.32	66.96	0.00	0.00	66.96	200.28	0.00	0.00	200.28	
rowe													
0-1000	0.00	0.00	0.00	0.00	264.00	18.24	0.00	282.24	264.00	18.24	0.00	282.24	
county total =		405.41	0.00	0.00	405.41	405.50	18.24	0.00	423.74	810.91	18.24	0.00	829.15

lewis							county						

bit													
rowe													
0-1000	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.00	0.05	0.05	0.10	
county total =		0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.10	0.00	0.05	0.05	0.10

linn							county						

bit													
bevier wheeler													
0-1000	218.69	0.00	0.00	218.69	0.00	0.00	0.00	0.00	218.69	0.00	0.00	218.69	
croweburg													
0-1000	225.01	145.15	0.00	368.16	261.41	21.50	0.00	282.91	484.42	166.65	0.00	651.07	
weir-pittsburg													
0-1000	0.00	419.54	0.00	419.54	0.00	0.00	0.00	0.00	0.00	419.54	0.00	419.54	
county total =		441.70	564.69	0.00	1006.39	261.41	21.50	0.00	282.91	703.11	586.19	0.00	1289.30

livingston							county						

bit													
bevier wheeler													
0-1000	319.68	0.00	0.00	319.68	0.00	0.00	0.00	0.00	319.68	0.00	0.00	319.68	
county total =		319.68	0.00	0.00	319.68	0.00	0.00	0.00	319.68	0.00	0.00	319.68	

bevier wheeler 0-1000	0.00	0.00	0.00	0.00	78.83	0.00	0.00	78.83	78.83	0.00	0.00	78.83
county total =	0.00	0.00	0.00	0.00	78.83	0.00	0.00	78.83	78.83	0.00	0.00	78.83

putnam county

bit bevier wheeler 0-1000	194.72	0.00	0.00	194.72	254.00	0.00	0.00	254.00	448.72	0.00	0.00	448.72
lexington 0-1000	19.97	459.79	0.00	479.76	0.00	0.00	0.00	0.00	19.97	459.79	0.00	479.76
uncorrelated 0-1000	169.34	0.00	0.00	169.34	0.00	0.00	0.00	0.00	169.34	0.00	0.00	169.34
county total =	384.03	459.79	0.00	843.82	254.00	0.00	0.00	254.00	638.03	459.79	0.00	1097.82

ralls county

bit mulky 0-1000	47.38	0.00	0.00	47.38	34.56	0.00	0.00	34.56	81.94	0.00	0.00	81.94
county total =	47.38	0.00	0.00	47.38	34.56	0.00	0.00	34.56	81.94	0.00	0.00	81.94

randolph county

bit bevier 0-1000	13.56	27.14	824.50	865.20	0.00	26.88	0.00	26.88	13.56	54.02	824.50	892.08
croweburg 0-1000	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	200.00	0.00	0.00	200.00
mulky 0-1000	245.95	0.00	0.00	245.95	26.08	0.00	0.00	26.08	272.03	0.00	0.00	272.03
summit 0-1000	152.93	0.00	0.00	152.93	0.00	0.00	0.00	0.00	152.93	0.00	0.00	152.93
county total =	612.44	27.14	824.50	1464.08	26.08	26.88	0.00	52.96	638.52	54.02	824.50	1517.04

ray county

bit bevier wheeler 0-1000	72.50	0.00	0.00	72.50	0.00	0.00	0.00	0.00	72.50	0.00	0.00	72.50
lexington 0-1000	551.97	126.72	0.00	678.69	0.00	0.00	0.00	0.00	551.97	126.72	0.00	678.69
county total =	624.47	126.72	0.00	751.19	0.00	0.00	0.00	0.00	624.47	126.72	0.00	751.19

saline county

bit bevier 0-1000	0.00	0.00	0.00	0.00	40.00	0.00	0.00	40.00	40.00	0.00	0.00	40.00
croweburg 0-1000	0.00	0.00	0.00	0.00	60.00	0.00	0.00	60.00	60.00	0.00	0.00	60.00
mulky 0-1000	0.00	0.00	0.00	0.00	12.00	0.00	0.00	12.00	12.00	0.00	0.00	12.00
county total =	0.00	0.00	0.00	0.00	112.00	0.00	0.00	112.00	112.00	0.00	0.00	112.00

schuyler county													
bit													
bevier													
0-1000	0.00	0.00	0.00	0.00	57.60	0.00	0.00	57.60	57.60	0.00	0.00	57.60	
lexington													
0-1000	0.00	0.00	0.00	0.00	0.00	10.08	0.00	10.08	0.00	10.08	0.00	10.08	
county total =	0.00	0.00	0.00	0.00	57.60	10.08	0.00	67.68	57.60	10.08	0.00	67.68	
scotland county													
bit													
uncorrelated													
0-1000	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	
county total =	0.00	0.00	0.00	0.00	2.00	0.00	0.00	2.00	2.00	0.00	0.00	2.00	
st clair county													
bit													
rowe													
0-1000	43.19	209.82	0.00	253.01	0.00	0.00	0.00	0.00	43.19	209.82	0.00	253.01	
tebo													
0-1000	30.36	0.00	0.00	30.36	0.00	0.00	0.00	0.00	30.36	0.00	0.00	30.36	
county total =	73.55	209.82	0.00	283.37	0.00	0.00	0.00	0.00	73.55	209.82	0.00	283.37	
sullivan county													
bit													
bevier wheeler													
0-1000	0.00	283.39	0.00	283.39	846.61	0.00	0.00	846.61	846.61	283.39	0.00	1130.00	
lexington													
0-1000	0.00	97.57	0.00	97.57	0.00	390.44	0.00	390.44	0.00	488.01	0.00	488.01	
county total =	0.00	380.96	0.00	380.96	846.61	390.44	0.00	1237.05	846.61	771.40	0.00	1618.01	
vernon county													
bit													
bevier wheeler													
0-1000	16.13	0.00	0.00	16.13	36.86	0.00	0.00	36.86	52.99	0.00	0.00	52.99	
croweburg													
0-1000	96.19	0.00	0.00	96.19	0.00	0.00	0.00	0.00	96.19	0.00	0.00	96.19	
fleming													
0-1000	61.92	0.00	0.00	61.92	0.00	0.00	0.00	0.00	61.92	0.00	0.00	61.92	
mineral													
0-1000	116.83	109.95	32.34	259.12	0.00	0.00	0.00	0.00	116.83	109.95	32.34	259.12	
mulky													
0-1000	29.95	0.00	0.00	29.95	5.76	0.00	0.00	5.76	35.71	0.00	0.00	35.71	
rowe													
0-1000	167.19	38.34	0.00	205.53	102.76	0.00	0.00	102.76	269.95	38.34	0.00	308.29	
weir-pittsburg													
0-1000	5.94	71.40	0.00	77.34	0.00	0.00	0.00	0.00	5.94	71.40	0.00	77.34	
county total =	494.15	219.69	32.34	746.18	145.38	0.00	0.00	145.38	639.53	219.69	32.34	891.56	
worth county													

bit												
lexington												
0-1000	17.07	0.00	0.00	17.07	102.43	0.00	0.00	102.43	119.50	0.00	0.00	119.50
rowe												
0-1000	82.86	19.35	0.00	102.21	0.00	0.00	0.00	0.00	82.86	19.35	0.00	102.21
tebo												
0-1000	9.22	0.00	0.00	9.22	0.00	0.00	0.00	0.00	9.22	0.00	0.00	9.22

county total =	109.15	19.35	0.00	128.50	102.43	0.00	0.00	102.43	211.58	19.35	0.00	230.93
=====												
overburden												
subtotal												
0-1000	9694.90	5750.54	1992.77	17438.21	11421.24	2695.51	111.91	14228.66	21116.14	8446.05	2104.68	31666.86

total =	9694.90	5750.54	1992.77	17438.21	11421.24	2695.51	111.91	14228.66	21116.14	8446.05	2104.68	31666.87
=====												
=====												
overburden												
total												
0-1000	9694.90	5750.54	1992.77	17438.21	11421.24	2695.51	111.91	14228.66	21116.14	8446.05	2104.68	31666.86

grand total =	9694.90	5750.54	1992.77	17438.21	11421.24	2695.51	111.91	14228.66	21116.14	8446.05	2104.68	31666.87
=====												

total tonnage of identified coal resources in missouri

31666.87

resource figures taken from:

source	year	base year of resource
missouri gs ri 48	1971	original

average analyses of coal in missouri

[illegible]

lexington	12.1	41.9	45.5	12.6	0.0	0.0	0.0	0.0	5.5	12540	2010	1
county average	12.1	41.9	45.5	12.6	0.0	0.0	0.0	0.0	5.5	12540	2010	1

henry				county								

bit												
bevier	9.0	42.8	46.0	11.2	0.0	0.0	0.0	0.0	5.5	12872	2010	4
tebo	9.0	40.4	42.6	17.0	0.0	0.0	0.0	0.0	4.8	11951	2053	18
uncorrelated	12.9	40.5	52.7	6.8	0.0	0.0	0.0	0.0	1.5	13760	2500	1
county average	9.1	40.8	43.6	15.6	0.0	0.0	0.0	0.0	4.8	12190	2071	23

johnson				county								

bit												
bevier	12.2	41.3	46.6	12.1	0.0	0.0	0.0	0.0	5.6	12560	2064	8
bevier & tebo	8.9	45.4	39.7	14.9	0.0	0.0	0.0	0.0	6.0	11850	2380	1
county average	11.8	41.8	45.8	12.4	0.0	0.0	0.0	0.0	5.6	12481	2116	9

lafayette				county								

bit												
lexington	12.7	38.1	45.9	16.0	0.0	0.0	0.0	0.0	4.1	12000	2055	3
county average	12.7	38.1	45.9	16.0	0.0	0.0	0.0	0.0	4.1	12000	2055	3

linn				county								

bit												
tebo	10.5	41.2	42.2	16.5	5.1	70.0	1.2	7.2	6.5	11807	2041	13
county average	10.5	41.2	42.2	16.5	5.1	70.0	1.2	7.2	6.5	11807	2041	13

macon				county								

bit												
bevier	13.2	39.1	46.0	14.9	0.0	0.0	0.0	0.0	5.1	12026	2073	14
mulky	11.4	41.5	43.2	15.3	0.0	0.0	0.0	0.0	5.9	12115		2
county average	12.9	39.4	45.7	15.0	0.0	0.0	0.0	0.0	5.2	12037	2073	16

randolph				county								

bit												
bevier	9.8	40.2	46.9	12.9	0.0	0.0	0.0	0.0	5.0	12517	2017	28
county average	9.8	40.2	46.9	12.9	0.0	0.0	0.0	0.0	5.0	12517	2017	28

ray				county								

bit												

lexington	12.3	39.4	44.7	15.9	0.0	0.0	0.0	0.0	5.2	11926	2056	15
county average	12.3	39.4	44.7	15.9	0.0	0.0	0.0	0.0	5.2	11926	2056	15
st clair county												
bit												
tebo	5.3	37.1	40.8	22.1	0.0	0.0	0.0	0.0	5.8	11180		1
county average	5.3	37.1	40.8	22.1	0.0	0.0	0.0	0.0	5.8	11180		1
vernon county												
bit												
croweburg	6.0	37.8	47.4	14.8	0.0	0.0	0.0	0.0	5.2	12642	2067	4
fleming	3.5	43.5	44.7	11.8	0.0	0.0	0.0	0.0	6.1	12800	2150	1
mineral	3.1	39.4	45.8	14.8	0.0	0.0	0.0	0.0	6.8	12480		1
mulky	5.2	39.0	49.8	11.2	0.0	0.0	0.0	0.0	4.3	13324	2020	5
uncorrelated	6.5	36.7	45.6	17.7	0.0	0.0	0.0	0.0	4.2	11870	1970	1
weir-pittsburg	4.6	35.9	50.8	13.3	0.0	0.0	0.0	0.0	5.3	12860		1
county average	5.2	38.6	48.1	13.3	0.0	0.0	0.0	0.0	5.0	12861	2050	13

Missouri

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fello
missouri	barton	knife-ton	5.8	34.5	49.3	16.2	4.7	12490	57	7.5
missouri	barton	rowe	4.5	37.4	44.6	23.0	5.6	11270	57	8.0
missouri	barton	knife-ton & rowe	5.2	30.4	41.6	28.0	4.6	10620	65	6.0
missouri	barton	knife-ton & rowe	5.2	30.4	41.6	28.0	4.6	10620	65	6.0
missouri	bates	bevier	***	35.4	51.5	13.1	2.6	12840	70	5.5
missouri	clay	bevier	***	37.9	43.1	19.0	4.6	11080	68	5.0
missouri	henry	tebo	6.0	38.4	41.4	20.2	5.4	11150	58	2.5
missouri	randolph	bevier	9.1	32.9	36.3	30.8	5.0	9540	62	3.0
missouri	vernon	uncorrelated	6.5	36.7	45.6	17.7	4.2	11870	66	7.0
missouri	vernon	craneburg	4.8	48.2	44.6	15.2	4.3	12310	59	8.0
missouri	vernon	fleming	3.5	43.5	44.7	11.8	6.1	12800	51	7.5

average analyses of coal in montana

=====													
		proximate analysis (percent)				ultimate analysis (percent)							max. no.
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	sulfur (percent)	btu	ash sof temp(f)	analyses averaged
=====													
		carbon				county							

bit													
	uncorrelated	7.1	29.5	41.7	28.8	0.0	0.0	0.0	0.0	0.7	9590		1
	county average	7.1	29.5	41.7	28.8	0.0	0.0	0.0	0.0	0.7	9590		1

		cascade				county							

bit													
	belt creek	4.2	32.3	46.6	21.1	0.0	0.0	0.0	0.0	4.2	10865	2681	16
	uncorrelated	6.1	29.1	49.8	21.1	0.0	0.0	0.0	0.0	3.3	10785	2870	13
	county average	5.1	30.9	48.0	21.1	0.0	0.0	0.0	0.0	3.8	10829	2796	29

		hill				county							

bit													
	uncorrelated	5.5	36.1	46.5	17.4	0.0	0.0	0.0	0.0	1.1	11140	2290	2
	county average	5.5	36.1	46.5	17.4	0.0	0.0	0.0	0.0	1.1	11140	2290	2
=====													

		proximate analysis (percent)					ultimate analysis (percent)							max. no.
rank	coal bed	moistur	vol	mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	sulfur (percent)	btu	ash sof temp(f)	analyses averaged
		esmeralda					county							
bit	uncorrelated	2.7	23.1	23.7	53.2	3.0	37.3	0.9	3.9	1.7	6810	2700	1	
	county average	2.7	23.1	23.7	53.2	3.0	37.3	0.9	3.9	1.7	6810	2700	1	

=====														
		proximate analysis (percent)					ultimate analysis (percent)							max. no.
rank	coal bed	moistur	vol	mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	sulfur (percent)	btu	ash sof temp(f)	analyses averaged
=====														
esmeralda						county								

bit	uncorrelated	2.7	23.1	23.7	53.2	3.0	37.3	0.9	3.9	1.7	6810	2700	1	
county average		2.7	23.1	23.7	53.2	3.0	37.3	0.9	3.9	1.7	6810	2700	1	
=====														

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
bernalillo county												
bit uncorrelated												
0-1000	1.60	0.00	0.00	1.60	0.00	0.00	0.00	0.00	1.60	0.00	0.00	1.60
county total =	1.60	0.00	0.00	1.60	0.00	0.00	0.00	0.00	1.60	0.00	0.00	1.60
colfax county												
bit uncorrelated												
0-1000	376.50	431.40	949.60	1757.50	328.70	27.10	347.40	703.20	705.20	458.50	1297.00	2460.70
1-2000	1.10	36.50	69.40	107.00	668.50	355.40	715.30	1739.20	669.60	391.90	784.70	1846.20
2-3000	0.00	0.00	0.00	0.00	25.20	0.00	376.90	402.10	25.20	0.00	376.90	402.10
county total =	377.60	467.90	1019.00	1864.50	1022.40	382.50	1439.60	2844.50	1400.00	850.40	2458.60	4709.00
lincoln county												
bit uncorrelated												
0-1000	4.40	5.70	1.20	11.30	0.00	0.00	0.00	0.00	4.40	5.70	1.20	11.30
county total =	4.40	5.70	1.20	11.30	0.00	0.00	0.00	0.00	4.40	5.70	1.20	11.30
rio arriba county												
bit uncorrelated												
0-1000	9.10	4.20	0.30	13.60	0.00	0.00	0.00	0.00	9.10	4.20	0.30	13.60
county total =	9.10	4.20	0.30	13.60	0.00	0.00	0.00	0.00	9.10	4.20	0.30	13.60
san juan county												
bit uncorrelated												
0-1000	21.20	50.50	64.20	115.90	0.00	0.00	12.40	12.40	21.20	30.50	76.60	128.30
county total =	21.20	30.50	64.20	115.90	0.00	0.00	12.40	12.40	21.20	30.50	76.60	128.30
sandoval county												
bit uncorrelated												
0-1000	21.20	50.50	64.20	115.90	0.00	0.00	12.40	12.40	21.20	30.50	76.60	128.30
county total =	21.20	30.50	64.20	115.90	0.00	0.00	12.40	12.40	21.20	30.50	76.60	128.30

uncorrelated													
0-1000	4.10	3.50	0.00	7.60	0.50	0.00	0.00	0.50	4.60	3.50	0.00	8.10	
1-2000	2.90	2.80	0.00	5.70	0.20	0.00	0.00	0.20	3.10	2.80	0.00	5.90	
2-3000	2.60	0.60	0.00	3.20	0.10	0.00	0.00	0.10	2.70	0.60	0.00	3.30	

county total =	9.60	6.90	0.00	16.50	0.80	0.00	0.00	0.80	10.40	6.90	0.00	17.30	

sante fe						county							

bit	-----												
uncorrelated													
0-1000	8.50	8.10	1.00	17.60	0.70	0.00	0.00	0.70	9.20	8.10	1.00	18.30	
1-2000	3.50	0.10	0.00	3.60	25.60	0.00	0.00	25.60	29.10	0.10	0.00	29.20	

county total =	12.00	8.20	1.00	21.20	26.30	0.00	0.00	26.30	38.30	8.20	1.00	47.50	

socorro						county							

bit	-----												
uncorrelated													
0-1000	6.50	2.70	24.80	34.00	4.40	0.00	0.30	4.70	10.90	2.70	25.10	38.70	

county total =	6.50	2.70	24.80	34.00	4.40	0.00	0.30	4.70	10.90	2.70	25.10	38.70	

=====													
overburden	-----												
subtotal													
0-1000	431.90	486.10	1041.10	1959.10	334.30	27.10	360.10	721.50	766.20	513.20	1401.20	2680.60	
1-2000	7.50	39.40	69.40	116.30	694.30	355.40	715.30	1765.00	701.80	394.80	784.70	1881.30	
2-3000	2.60	0.60	0.00	3.20	25.30	0.00	376.90	402.20	27.90	0.60	376.90	405.40	

total =	442.00	526.10	1110.50	2078.60	1053.90	382.50	1452.30	2888.70	1495.90	908.60	2562.80	4967.30	
=====													

overburden	-----												
total													
0-1000	431.90	486.10	1041.10	1959.10	334.30	27.10	360.10	721.50	766.20	513.20	1401.20	2680.60	
1-2000	7.50	39.40	69.40	116.30	694.30	355.40	715.30	1765.00	701.80	394.80	784.70	1881.30	
2-3000	2.60	0.60	0.00	3.20	25.30	0.00	376.90	402.20	27.90	0.60	376.90	405.40	

grand total =	442.00	526.10	1110.50	2078.60	1053.90	382.50	1452.30	2888.70	1495.90	908.60	2562.80	4967.30	
=====													

tonnage not included: 5980.40
because:
thickness = classified by zone: 5980.40

total tonnage of identified coal resources in new mexico 10947.70

resource figures taken from:

source	year	base year of resource
usgs circ 89	1950	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
new	lincoln	uncorrelated	bit	orig	class by zone	0-1000	inferred	679.80
new	lincoln	uncorrelated	bit	orig	class by zone	1-2000	inferred	457.10
new	lincoln	uncorrelated	bit	orig	class by zone	2-3000	inferred	268.40
new	otero	uncorrelated	bit	orig	class by zone	0-1000	inferred	78.50
new	otero	uncorrelated	bit	orig	class by zone	1-2000	inferred	101.60
new	otero	uncorrelated	bit	orig	class by zone	2-3000	inferred	47.30
new	rio arriba	uncorrelated	bit	orig	class by zone	0-1000	inferred	186.70
new	rio arriba	uncorrelated	bit	orig	class by zone	1-2000	inferred	77.30
new	rio arriba	uncorrelated	bit	orig	class by zone	2-3000	inferred	126.30
new	san juan	uncorrelated	bit	orig	class by zone	0-1000	inferred	1432.90
new	san juan	uncorrelated	bit	orig	class by zone	1-2000	inferred	1127.60
new	san juan	uncorrelated	bit	orig	class by zone	2-3000	inferred	1396.90

average analyses of coal in new mexico

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
colfax county														
bit														
raton	1.9	35.0	50.5	14.5	5.4	72.7	1.4	7.2	0.7	12864	2902	120		
sugarite	3.2	38.6	48.7	12.7	0.0	0.0	0.0	0.0	0.6	13080	2868	5		
uncorrelated	5.6	38.9	50.2	10.9	5.0	72.5	1.5	9.0	0.6	13020	2878	11		
upper york canyon	3.3	37.0	53.9	9.1	5.1	76.3	1.6	7.4	0.5	13600	2350	1		
yankee	5.1	36.8	47.8	15.5	5.1	73.7	1.4	8.2	0.7	12336	2863	35		
county average	2.8	35.8	49.9	14.4	5.1	73.5	1.5	8.3	0.7	12777	2878	172		
lincoln county														
bit														
uncorrelated	3.2	31.0	49.5	19.5	0.0	0.0	0.0	0.0	0.7	11905	2455	2		
county average	3.2	31.0	49.5	19.5	0.0	0.0	0.0	0.0	0.7	11905	2455	2		
mckinley county														
bit														
aztec	7.2	41.8	47.8	10.4	0.0	0.0	0.0	0.0	0.6	12555		2		
black diamond	8.0	41.4	48.3	10.3	0.0	0.0	0.0	0.0	0.6	12667	2910	9		
uncorrelated	8.2	41.1	48.3	10.5	0.0	0.0	0.0	0.0	0.7	12702	2818	24		
county average	8.1	41.2	48.3	10.5	0.0	0.0	0.0	0.0	0.6	12684	2831	35		
rio arriba county														
bit														
uncorrelated	2.7	39.3	50.7	10.0	5.3	74.3	1.6	7.4	1.7	13385	2470	52		
county average	2.7	39.3	50.7	10.0	5.3	74.3	1.6	7.4	1.7	13385	2470	52		
san juan county														
bit														
hogback	6.5	43.0	50.5	6.5	0.0	0.0	0.0	0.0	0.6	13110	2300	1		
uncorrelated	6.2	39.7	46.8	13.5	0.0	0.0	0.0	0.0	0.7	12569	2837	11		
county average	6.3	40.0	47.1	12.9	0.0	0.0	0.0	0.0	0.7	12614	2784	12		
sante fe county														

socioeconomic													
bit	cook & white	2.2	33.5	54.1	12.3	0.0	0.0	0.0	0.0	0.8	12998	2322	58
	uncorrelated	2.5	27.3	63.8	9.0	0.0	0.0	0.0	0.0	1.1	12995	2760	2

	county average	2.2	33.3	54.5	12.2	0.0	0.0	0.0	0.0	0.8	12998	2447	60

socioeconomic													

socioeconomic													

bit	carthage	2.4	38.0	50.2	11.8	0.0	0.0	0.0	0.0	0.8	13118	2812	11
	county average	2.4	38.0	50.2	11.8	0.0	0.0	0.0	0.0	0.8	13118	2812	11

socioeconomic													

New Mexico

state	county	bed	moistur	volcan	fiasec	ash	sulfur	btu	hgilo	fello
new mexico	colfax	uncorrelated	7.8	38.1	51.7	10.2	0.5	12990	0	2.5
new mexico	colfax	raton	2.4	32.1	46.1	21.8	0.8	11660	56	7.0
new mexico	colfax	uncorrelated	3.7	41.4	45.4	17.8	0.4	12730	0	4.0
new mexico	colfax	yankee	6.0	36.2	42.5	23.3	0.7	11040	59	1.5
new mexico	colfax	yankee	6.0	30.9	34.7	34.4	0.7	9300	0	1.0
new mexico	colfax	yankee	4.2	33.7	40.9	25.4	0.8	10620	0	1.5
new mexico	colfax	yankee	4.2	37.5	50.9	11.6	0.6	13110	0	4.0
new mexico	colfax	yankee	4.2	35.2	45.6	19.2	0.8	11820	47	2.5
new mexico	colfax	yankee	4.6	35.5	46.4	18.1	0.9	11990	52	3.0
new mexico	colfax	yankee	4.1	35.4	46.9	17.7	1.0	12100	48	3.0
new mexico	colfax	yankee	7.3	37.8	46.2	16.0	0.5	12150	47	1.5
new mexico	colfax	yankee	7.6	39.3	47.8	12.9	0.6	12500	0	2.5
new mexico	colfax	yankee	7.7	38.2	46.5	15.3	0.7	12170	56	2.0
new mexico	colfax	raton	1.5	38.4	48.9	12.7	0.6	13120	0	4.5
new mexico	colfax	raton	3.1	36.5	47.4	16.1	0.7	12560	0	4.0
new mexico	colfax	yankee	4.1	35.9	47.7	16.4	0.7	12300	48	3.5
new mexico	colfax	yankee	5.5	33.8	43.4	22.8	0.7	11280	0	2.0
new mexico	colfax	uncorrelated	5.4	36.5	49.0	14.5	0.7	12380	0	2.0
new mexico	colfax	yankee	5.7	38.1	49.3	12.6	0.6	12800	59	5.0
new mexico	colfax	raton	1.9	36.4	50.0	13.6	0.9	12830	51	5.0
new mexico	colfax	raton	2.8	33.2	47.1	19.7	0.6	11870	0	3.5
new mexico	colfax	uncorrelated	5.9	37.9	45.8	16.3	0.7	12270	0	3.5
new mexico	colfax	yankee	4.2	36.6	46.8	16.6	0.6	12120	53	2.5
new mexico	colfax	yankee	5.0	37.1	50.0	12.9	0.7	12780	58	5.0
new mexico	colfax	upper york canyon	3.3	37.0	53.9	9.1	0.5	13600	54	8.0
new mexico	rio arriba	uncorrelated	3.7	39.9	51.5	9.6	1.0	13310	0	4.5
new mexico	rio arriba	uncorrelated	3.2	39.2	53.2	7.6	0.6	13750	47	5.0
new mexico	rio arriba	uncorrelated	4.3	40.1	49.8	10.1	2.3	13160	46	3.0
new mexico	rio arriba	uncorrelated	2.4	40.4	49.2	10.4	3.2	13250	46	4.5
new mexico	rio arriba	uncorrelated	5.8	40.1	48.8	11.1	1.4	12610	48	1.0
new mexico	rio arriba	uncorrelated	2.6	38.9	49.7	11.4	2.9	13150	45	5.5
new mexico	rio arriba	uncorrelated	2.2	38.9	50.2	10.9	3.2	13180	41	4.5
new mexico	rio arriba	uncorrelated	2.3	38.0	49.8	12.2	3.4	13060	0	3.5
new mexico	rio arriba	uncorrelated	2.4	36.9	47.5	15.6	4.6	12460	44	4.0
new mexico	rio arriba	uncorrelated	2.4	37.9	47.0	15.1	3.8	12500	45	3.5
new mexico	rio arriba	uncorrelated	2.4	37.9	47.8	14.3	4.2	12640	43	4.0
new mexico	sante fe	uncorrelated	3.5	27.0	67.6	5.4	1.2	12750	69	1.0
new mexico	socorro	carthage	2.7	38.3	49.2	12.5	0.6	13000	52	5.0
new mexico	socorro	carthage	2.6	37.1	46.7	16.2	1.1	12370	56	4.0
new mexico	socorro	carthage	2.4	38.2	47.2	14.6	0.8	12550	56	4.5

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in north carolina

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
chatham county												
bit												
cumnock												
0-2000	3.19	11.31	4.61	19.11	0.00	0.00	0.00	0.00	3.19	11.31	4.61	19.11
2-3000	0.00	3.00	1.91	4.91	0.00	0.00	0.00	0.00	0.00	3.00	1.91	4.91
gulf												
0-2000	6.13	0.00	0.00	6.13	0.00	0.00	0.00	0.00	6.13	0.00	0.00	6.13
county total =	9.32	14.31	6.52	30.15	0.00	0.00	0.00	0.00	9.32	14.31	6.52	30.15
lee county												
bit												
cumnock												
0-2000	12.34	13.51	8.24	34.09	22.37	0.00	0.00	22.37	34.71	13.51	8.24	56.46
2-3000	2.06	4.90	4.40	11.36	0.00	0.00	0.00	0.00	2.06	4.90	4.40	11.36
gulf												
0-2000	3.84	0.00	0.00	3.84	0.00	0.00	0.00	0.00	3.84	0.00	0.00	3.84
county total =	18.24	18.41	12.64	49.29	22.37	0.00	0.00	22.37	40.61	18.41	12.64	71.66
moore county												
bit												
cumnock												
0-2000	7.17	1.36	0.00	8.53	0.00	0.00	0.00	0.00	7.17	1.36	0.00	8.53
county total =	7.17	1.36	0.00	8.53	0.00	0.00	0.00	0.00	7.17	1.36	0.00	8.53
overburden												
subtotal												
2-3000	2.06	7.90	6.31	16.27	0.00	0.00	0.00	0.00	2.06	7.90	6.31	16.27
0-2000	32.67	26.18	12.85	71.70	22.37	0.00	0.00	22.37	55.04	26.18	12.85	94.07
total =	34.73	34.08	19.16	87.97	22.37	0.00	0.00	22.37	57.10	34.08	19.16	110.34
overburden												
total												
2-3000	2.06	7.90	6.31	16.27	0.00	0.00	0.00	0.00	2.06	7.90	6.31	16.27
0-2000	32.67	26.18	12.85	71.70	22.37	0.00	0.00	22.37	55.04	26.18	12.85	94.07

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grand total =	34.73	34.08	19.16	87.97	22.37	0.00	0.00	22.37	57.10	34.08	19.16	110.34
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====

total tonnage of identified coal resources in north carolina 110.34

resource figures taken from:

source	year	base year of resource
usgs prof paper 246	1950	1950

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in ohio

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
athens county												
bit												
lower kittanning												
0-1000	26.77	0.00	0.00	26.77	295.78	0.00	0.00	295.78	322.55	0.00	0.00	322.55
meigs creek to bench												
0-1000	2.39	5.01	12.34	19.74	6.54	7.72	1.12	15.38	8.93	12.73	13.46	35.12
meigs creek up bench												
0-1000	8.33	0.00	0.00	8.33	9.61	0.00	0.00	9.61	17.94	0.00	0.00	17.94
middle kittanning												
0-1000	33.73	228.27	784.08	1046.08	137.89	108.18	12.35	258.42	171.62	336.45	796.43	1304.50
pittsburgh												
0-1000	21.84	26.54	157.00	205.38	1.78	2.92	7.62	12.32	23.62	29.46	164.62	217.70
redstone												
0-1000	5.62	0.00	0.00	5.62	0.18	0.00	0.00	0.18	5.80	0.00	0.00	5.80
upper freeport												
0-1000	48.46	84.18	187.11	319.75	1.99	0.00	0.00	1.99	50.45	84.18	187.11	321.74
county total =	147.14	344.00	1140.53	1631.67	453.77	118.82	21.09	593.68	600.91	462.82	1161.62	2225.35
belmont county												
bit												
fishpot												
0-1000	0.00	0.00	0.00	0.00	166.90	109.30	0.00	276.20	166.90	109.30	0.00	276.20
meigs creek												
0-1000	83.40	582.20	803.90	1469.50	0.00	0.00	0.00	0.00	83.40	582.20	803.90	1469.50
pittsburgh												
0-1000	4.20	49.20	2703.10	2756.50	0.00	0.00	0.00	0.00	4.20	49.20	2703.10	2756.50
uniontown												
0-1000	0.00	0.00	0.00	0.00	138.70	74.50	2.90	216.10	138.70	74.50	2.90	216.10
washington												
0-1000	0.00	0.00	0.00	0.00	42.60	141.00	219.80	403.40	42.60	141.00	219.80	403.40
waynesburg												
0-1000	232.70	260.30	78.80	571.80	9.40	0.00	0.00	9.40	242.10	260.30	78.80	581.20
waynesburg a												
0-1000	0.00	0.00	0.00	0.00	17.50	34.60	5.80	57.90	17.50	34.60	5.80	57.90
county total =	320.30	891.70	3585.80	4797.80	375.10	359.40	228.50	963.00	695.40	1251.10	3814.30	5760.80
carroll county												
bit												
brookville												
0-1000	2.06	0.00	0.00	2.06	0.00	0.00	0.00	0.00	2.06	0.00	0.00	2.06

lower freeport 0-1000	67.57	5.62	31.81	105.00	40.48	40.13	74.46	155.07	108.05	45.75	106.27	260.07
lower kittanning 0-1000	29.64	135.52	25.99	191.15	641.30	84.74	0.00	726.04	670.94	220.26	25.99	917.19
middle kittanning 0-1000	44.50	170.99	212.75	428.24	93.81	47.56	163.59	304.96	138.31	218.55	376.34	733.20
pittsburgh 0-1000	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
upper freeport 0-1000	40.01	134.28	153.14	327.43	38.87	170.63	13.36	222.86	78.88	304.91	166.50	550.29
county total =	183.78	446.41	423.74	1053.93	814.46	343.06	251.41	1408.93	998.24	789.47	675.15	2462.86

columbiana county												

bit												
lower freeport 0-1000	94.80	25.63	0.00	120.43	0.43	0.00	0.00	0.43	95.23	25.63	0.00	120.86
lower kittanning 0-1000	207.06	265.38	37.14	509.58	530.40	124.86	8.75	664.01	737.46	390.24	45.89	1173.59
middle kittanning 0-1000	212.83	63.22	1.50	277.55	202.54	42.23	0.00	244.77	415.37	105.45	1.50	522.32
upper freeport 0-1000	135.94	411.05	277.56	824.55	23.85	57.71	3.53	85.09	159.79	468.76	281.09	909.64
county total =	650.63	765.28	316.20	1732.11	757.22	224.80	12.28	994.30	1407.85	990.08	328.48	2726.41

coshocton county												

bit												
brookville 0-1000	11.59	2.80	1.47	15.86	0.00	0.00	0.00	0.00	11.59	2.80	1.47	15.86
lower kittanning 0-1000	42.66	76.65	9.23	128.54	49.18	31.13	0.24	80.55	91.84	107.78	9.47	209.09
middle kittanning 0-1000	27.83	126.23	178.58	332.64	1.77	0.56	0.00	2.33	29.60	126.79	178.58	334.97
county total =	82.08	205.68	189.28	477.04	50.95	31.69	0.24	82.88	133.03	237.37	189.52	559.92

gallia county												

bit												
clarion 0-1000	9.37	11.56	0.00	20.93	0.73	0.60	0.00	1.33	10.10	12.16	0.00	22.26
lower kittanning 0-1000	71.45	49.15	0.00	120.60	820.58	6.85	0.00	827.43	892.03	56.00	0.00	948.03
middle kittanning 0-1000	84.20	76.82	17.62	178.64	90.99	0.56	0.00	91.55	175.19	77.38	17.62	270.19
pittsburgh 0-1000	11.88	19.39	149.25	180.52	0.04	0.00	0.00	0.04	11.92	19.39	149.25	180.56
redstone 0-1000	22.87	57.97	67.53	148.37	2.18	0.00	0.00	2.18	25.05	57.97	67.53	150.55
upper freeport 0-1000	12.26	13.89	37.99	64.14	3.99	2.90	0.00	6.89	16.25	16.79	37.99	71.03
county total =	212.03	228.78	272.39	713.20	918.51	10.91	0.00	929.42	1130.54	239.69	272.39	1642.62

guernsey county												

bit												

lower kittanning												
0-1000	28.18	53.80	43.68	125.66	692.10	219.66	7.10	918.86	720.28	273.46	50.78	1044.52
meigs creek lo bench												
0-1000	1.76	4.71	10.58	17.05	0.10	0.00	0.00	0.10	1.86	4.71	10.58	17.15
meigs creek up bench												
0-1000	0.88	0.33	0.00	1.21	0.00	0.00	0.00	0.00	0.88	0.33	0.00	1.21
middle kittanning												
0-1000	84.02	401.50	44.31	529.83	174.19	338.19	0.00	512.38	258.21	739.69	44.31	1042.21
pittsburgh												
0-1000	1.72	12.59	49.36	63.67	0.22	0.44	0.46	1.12	1.94	13.03	49.82	64.79
upper freeport												
0-1000	58.54	146.34	477.77	682.65	7.75	6.42	8.12	22.29	66.29	152.76	485.89	704.94
county total =	175.10	619.27	625.70	1420.07	874.36	564.71	15.68	1454.75	1049.46	1183.98	641.38	2874.82

harrison county

bit												
lower freeport												
0-1000	11.85	35.35	411.36	458.56	32.59	30.09	44.84	107.52	44.44	65.44	456.20	566.08
lower kittanning												
0-1000	14.68	30.40	3.96	49.04	598.32	21.94	0.00	620.26	613.00	52.34	3.96	669.30
meigs creek lo bench												
0-1000	6.08	31.32	92.20	129.60	0.00	0.00	0.00	0.00	6.08	31.32	92.20	129.60
meigs creek up bench												
0-1000	3.43	0.00	0.00	3.43	0.00	0.00	0.00	0.00	3.43	0.00	0.00	3.43
middle kittanning												
0-1000	67.97	254.61	278.22	600.80	42.63	70.68	9.68	122.99	110.60	325.29	287.90	723.79
pittsburgh												
0-1000	0.34	7.87	478.54	486.75	0.02	0.00	3.96	3.98	0.36	7.87	482.50	490.73
upper freeport												
0-1000	50.29	217.52	73.26	341.07	13.07	31.91	0.00	44.98	63.36	249.43	73.26	386.05
county total =	154.64	577.07	1337.54	2069.25	686.63	154.62	58.48	899.73	841.27	731.69	1396.02	2968.98

hocking county

bit												
brookville												
0-1000	0.00	0.20	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.20
clarion												
0-1000	27.60	0.94	0.00	28.54	0.30	0.00	0.00	0.30	27.90	0.94	0.00	28.84
lower kittanning												
0-1000	37.73	3.16	2.62	43.51	4.76	0.00	0.00	4.76	42.49	3.16	2.62	48.27
middle kittanning												
0-1000	0.00	1.37	192.53	193.90	0.00	0.00	0.00	0.00	0.00	1.37	192.53	193.90
upper freeport												
0-1000	3.66	8.25	13.31	25.22	0.00	0.00	0.00	0.00	3.66	8.25	13.31	25.22
county total =	68.99	13.92	208.46	291.37	5.06	0.00	0.00	5.06	74.05	13.92	208.46	296.43

holmes county

bit												
brookville												
0-1000	12.48	1.38	0.00	13.86	0.00	0.00	0.00	0.00	12.48	1.38	0.00	13.86
lower kittanning												
0-1000	18.72	53.27	6.92	78.91	1.87	12.29	0.00	14.16	20.59	65.56	6.92	93.07
middle kittanning												
0-1000	12.97	8.29	0.81	22.07	0.13	0.00	0.00	0.13	13.10	8.29	0.81	22.20

county total =	44.17	62.94	7.73	114.84	2.00	12.29	0.00	14.29	46.17	75.23	7.73	129.13
jackson county												
bit												
brookville												
0-1000	2.98	2.19	0.00	5.17	0.00	0.00	0.00	0.00	2.98	2.19	0.00	5.17
clarion												
0-1000	10.88	59.40	150.72	221.00	7.98	5.45	0.19	13.62	18.86	64.85	150.91	234.62
lower kittanning												
0-1000	28.73	111.81	18.01	158.55	2.94	7.87	0.28	11.09	31.67	119.68	18.29	169.64
middle kittanning												
0-1000	43.98	19.36	1.45	64.79	0.00	0.00	0.00	0.00	43.98	19.36	1.45	64.79
upper freeport												
0-1000	3.47	0.56	0.18	4.21	0.95	0.00	0.00	0.95	4.42	0.56	0.18	5.16
county total =	90.04	193.32	170.36	453.72	11.87	13.32	0.47	25.66	101.91	206.64	170.83	479.38
jefferson county												
bit												
lower freeport												
0-1000	53.38	269.17	468.69	791.24	40.36	133.89	515.06	689.31	93.74	403.06	983.75	1480.55
lower kittanning												
0-1000	4.01	76.04	0.00	80.05	307.42	175.64	0.00	483.06	311.43	251.68	0.00	563.11
weigs creek to bench												
0-1000	20.56	38.12	6.63	65.31	0.00	0.00	0.00	0.00	20.56	38.12	6.63	65.31
middle kittanning												
0-1000	49.89	34.18	1.27	85.34	20.75	0.00	0.00	20.75	70.64	34.18	1.27	106.09
pittsburgh												
0-1000	0.00	6.99	705.88	712.87	0.00	0.00	5.71	5.71	0.00	6.99	711.59	718.58
upper freeport												
0-1000	48.76	115.76	68.36	232.88	11.65	16.09	5.13	32.87	60.41	131.85	73.49	265.75
county total =	176.60	540.26	1250.83	1967.69	380.18	325.62	525.90	1231.70	556.78	865.88	1776.73	3199.39
lawrence county												
bit												
clarion												
0-1000	7.24	61.65	3.39	72.28	0.00	0.00	0.00	0.00	7.24	61.65	3.39	72.28
lower kittanning												
0-1000	89.40	182.99	15.02	287.41	500.84	24.45	0.00	525.29	590.24	207.44	15.02	812.70
middle kittanning												
0-1000	133.10	169.49	27.67	330.26	89.52	11.72	0.00	101.24	222.62	181.21	27.67	431.50
redstone												
0-1000	2.40	8.03	10.96	21.39	1.13	0.14	0.00	1.27	3.53	8.17	10.96	22.66
upper freeport												
0-1000	76.37	68.16	51.69	196.22	53.22	0.34	0.00	53.56	129.59	68.50	51.69	249.78
county total =	308.51	490.32	108.73	907.56	644.71	36.65	0.00	681.36	953.22	526.97	108.73	1588.92
mahoning county												
bit												
lower freeport												
0-1000	0.44	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.44
lower kittanning												
0-1000	47.33	284.12	34.20	365.65	18.93	71.61	7.16	92.70	66.26	355.73	36.36	458.35

middle kittanning 0-1000	60.07	26.58	0.00	86.65	17.77	8.97	0.00	26.74	77.84	35.55	0.00	113.39
county total =	107.84	310.70	34.20	452.74	36.70	80.58	2.16	119.44	144.54	391.28	36.36	572.18

meigs county												

bit clarion 0-1000	5.28	0.20	0.00	5.48	0.04	0.00	0.00	0.04	5.32	0.20	0.00	5.52
lower kittanning 0-1000	0.00	0.00	0.00	0.00	226.41	0.00	0.00	226.41	226.41	0.00	0.00	226.41
middle kittanning 0-1000	17.76	0.00	0.00	17.76	30.11	0.00	0.00	30.11	47.87	0.00	0.00	47.87
pittsburgh 0-1000	15.36	18.85	10.93	45.14	0.00	0.00	0.00	0.00	15.36	18.85	10.93	45.14
redstone 0-1000	85.70	158.46	300.11	544.27	35.48	23.02	14.47	72.97	121.18	181.48	314.58	617.24
county total =	124.10	177.51	311.04	612.65	292.04	23.02	14.47	329.53	416.14	200.53	325.51	942.18

monroe county												

bit meigs creek lo bench 0-1000	131.91	35.67	10.31	177.89	33.97	0.00	0.00	33.97	165.88	35.67	10.31	211.86
meigs creek up bench 0-1000	52.89	8.24	0.00	61.13	3.31	0.00	0.00	3.31	56.20	8.24	0.00	64.44
pittsburgh 0-1000	13.92	18.10	403.12	435.14	38.76	93.08	216.88	348.72	52.68	111.18	620.00	783.86
upper freeport 0-1000	0.58	1.52	0.00	2.10	0.00	0.00	0.00	0.00	0.58	1.52	0.00	2.10
county total =	199.30	63.53	413.43	676.26	76.04	93.08	216.88	386.00	275.34	156.61	630.31	1062.26

morgan county												

bit lower kittanning 0-1000	0.00	0.00	0.00	0.00	100.41	0.00	0.00	100.41	100.41	0.00	0.00	100.41
meigs creek lo bench 0-1000	67.38	112.76	148.50	328.64	1.37	0.00	0.00	1.37	68.75	112.76	148.50	330.01
meigs creek up bench 0-1000	0.33	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.33
middle kittanning 0-1000	8.61	52.18	157.41	218.20	62.05	97.57	68.47	228.09	70.66	149.75	225.88	446.29
pittsburgh 0-1000	39.89	14.98	27.09	81.96	0.50	0.00	0.00	0.50	40.39	14.98	27.09	82.46
upper freeport 0-1000	9.30	6.79	23.08	39.17	2.03	0.00	0.00	2.03	11.33	6.79	23.08	41.20
county total =	125.51	186.71	356.08	668.30	166.36	97.57	68.47	332.40	291.87	284.28	424.55	1000.70

muskingum county												

bit brookville 0-1000	7.07	0.07	0.09	7.23	0.00	0.00	0.00	0.00	7.07	0.07	0.09	7.23
lower kittanning 0-1000	32.33	47.87	23.08	103.28	335.05	19.77	0.00	354.82	567.38	67.64	23.08	458.10

meigs creek lo bench												
0-1000	0.30	29.91	91.89	122.10	0.06	0.75	6.14	6.95	0.36	30.66	98.03	129.05
meigs creek up bench												
0-1000	4.90	4.32	0.00	9.22	0.00	0.00	0.00	0.00	4.90	4.32	0.00	9.22
middle kittanning												
0-1000	23.45	506.80	117.31	647.56	76.31	321.10	2.32	399.73	99.76	827.90	119.63	1047.29
pittsburgh												
0-1000	11.41	1.14	0.00	12.55	0.12	0.00	0.00	0.12	11.53	1.14	0.00	12.67
upper freeport												
0-1000	31.57	56.63	66.92	155.12	0.70	0.45	0.00	1.15	32.27	57.08	66.92	156.27
county total =	111.03	646.74	299.29	1057.06	412.24	342.07	8.46	762.77	523.27	988.81	307.75	1819.83
----- noble county -----												
bit												
lower kittanning												
0-1000	0.69	8.77	0.60	10.06	57.52	2.89	0.00	60.41	58.21	11.66	0.60	70.47
meigs creek lo bench												
0-1000	29.66	189.21	467.82	686.69	0.00	0.00	0.00	0.00	29.66	189.21	467.82	686.69
meigs creek up bench												
0-1000	111.85	46.76	8.74	167.35	0.00	0.00	0.00	0.00	111.85	46.76	8.74	167.35
middle kittanning												
0-1000	2.59	2.32	2.95	7.86	0.00	0.00	0.00	0.00	2.59	2.32	2.95	7.86
pittsburgh												
0-1000	4.34	3.22	16.64	24.20	3.08	0.00	0.00	3.08	7.42	3.22	16.64	27.28
upper freeport												
0-1000	20.62	53.56	121.69	195.87	3.63	4.38	18.98	26.99	24.25	57.94	140.67	222.86
county total =	169.75	303.84	618.44	1092.03	64.23	7.27	18.98	90.48	233.98	311.11	637.42	1182.51
----- perry county -----												
bit												
lower kittanning												
0-1000	67.97	92.22	31.29	191.48	96.45	7.95	0.00	104.40	164.42	100.17	31.29	295.88
middle kittanning												
0-1000	0.00	24.27	748.35	772.62	0.00	0.00	0.00	0.00	0.00	24.27	748.35	772.62
upper freeport												
0-1000	26.71	17.98	21.23	65.92	0.00	0.00	0.00	0.00	26.71	17.98	21.23	65.92
county total =	94.68	134.47	800.87	1030.02	96.45	7.95	0.00	104.40	191.13	142.42	800.87	1134.42
----- scioto county -----												
bit												
clarion												
0-1000	1.31	3.63	0.14	5.08	0.10	0.00	0.00	0.10	1.41	3.63	0.14	5.18
lower kittanning												
0-1000	2.39	2.15	0.00	4.54	0.37	0.00	0.00	0.37	2.76	2.15	0.00	4.91
middle kittanning												
0-1000	0.66	0.20	0.00	0.86	0.89	0.00	0.00	0.89	1.55	0.20	0.00	1.75
county total =	4.36	5.98	0.14	10.48	1.36	0.00	0.00	1.36	5.72	5.98	0.14	11.84
----- stark county -----												
bit												
brookville												
0-1000	32.81	23.33	127.57	183.71	5.83	4.53	4.69	15.05	38.64	27.86	132.26	198.76

lower kittanning 0-1000	53.42	100.15	19.73	173.30	98.87	90.05	0.00	188.92	152.29	190.20	19.73	362.22
middle kittanning 0-1000	15.30	239.15	3.68	258.13	1.57	88.95	0.00	90.52	16.87	328.10	3.68	348.65
upper freeport 0-1000	4.66	1.86	18.89	25.41	0.14	0.03	0.09	0.26	4.80	1.89	18.98	25.67
county total =	106.19	364.49	169.87	640.55	106.41	183.56	4.78	294.75	212.60	548.05	174.65	935.30
----- tuscarawas county -----												
bit												
brookville 0-1000	50.70	27.92	1.63	80.25	11.05	0.24	0.00	11.29	61.75	28.16	1.63	91.54
lower freeport 0-1000	9.10	7.28	1.90	18.28	0.00	0.00	0.00	0.00	9.10	7.28	1.90	18.28
lower kittanning 0-1000	203.93	211.97	29.13	445.03	167.61	137.00	0.00	304.61	371.54	348.97	29.13	749.64
middle kittanning 0-1000	83.29	382.81	384.06	850.16	1.42	148.62	0.19	150.23	84.71	531.43	384.25	1000.39
upper freeport 0-1000	6.61	33.60	76.29	116.50	2.25	2.85	0.00	5.10	8.86	36.45	76.29	121.60
county total =	353.63	663.58	493.01	1510.22	182.33	288.71	0.19	471.23	535.96	952.29	493.20	1981.45
----- vinton county -----												
bit												
brookville 0-1000	40.94	56.98	2.26	100.18	2.63	0.00	0.00	2.63	43.57	56.98	2.26	102.81
clarion 0-1000	70.49	106.51	160.54	337.54	9.40	0.00	0.00	9.40	79.89	106.51	160.54	346.94
lower kittanning 0-1000	117.60	62.25	1.11	180.96	23.01	0.00	0.00	23.01	140.61	62.25	1.11	203.97
middle kittanning 0-1000	57.13	62.23	51.90	171.26	2.09	0.00	0.00	2.09	59.22	62.23	51.90	173.35
upper freeport 0-1000	10.04	9.31	1.99	21.34	0.00	0.00	0.00	0.00	10.04	9.31	1.99	21.34
county total =	296.20	297.28	217.80	811.28	37.13	0.00	0.00	37.13	333.33	297.28	217.80	848.41
----- washington county -----												
bit												
meigs creek lo bench 0-1000	114.16	93.97	68.69	276.82	62.09	7.29	1.25	70.63	176.25	101.26	69.94	347.45
meigs creek up bench 0-1000	94.04	49.92	3.32	147.28	17.62	0.00	0.00	17.62	111.66	49.92	3.32	164.90
pittsburgh 0-1000	100.87	12.50	3.45	116.82	53.03	1.68	12.11	66.82	153.90	14.18	15.56	183.64
county total =	309.07	156.39	75.46	540.92	132.74	8.97	13.36	155.07	441.81	165.36	88.82	695.99
----- wayne county -----												
bit												
brookville 0-1000	7.79	0.93	0.00	8.72	0.00	0.00	0.00	0.00	7.79	0.93	0.00	8.72
lower kittanning 0-1000	2.27	4.10	0.97	7.34	0.86	4.37	0.00	5.23	3.13	8.47	0.97	12.57

county total =	10.06	5.03	0.97	16.06	0.86	4.37	0.00	5.23	10.92	9.40	0.97	21.29
=====												
overburden												
subtotal												
0-1000	4625.73	8695.20	13427.89	26748.81	7579.71	3333.04	1461.80	12374.55	12205.43	12028.24	14889.69	39123.35
=====												
total =	4625.73	8695.20	13427.89	26748.82	7579.71	3333.04	1461.80	12374.55	12205.44	12028.24	14889.69	39123.37
=====												

=====												
overburden												
total												
0-1000	4625.73	8695.20	13427.89	26748.81	7579.71	3333.04	1461.80	12374.55	12205.43	12028.24	14889.69	39123.35
=====												
grand total =	4625.73	8695.20	13427.89	26748.82	7579.71	3333.04	1461.80	12374.55	12205.44	12028.24	14889.69	39123.37
=====												

tonnage not included:	7150.89
because:	
thickness = unclassified	: 7150.89
reliability = unclassified	: 7150.89

total tonnage of identified coal resources in ohio	46274.26
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resource figures taken from:

source	year	base year of resource
ohio gs rept inv 17	1952	original
usgs prof paper 380	1963	original
ohio gs rept inv 26	1955	original
ohio gs rept inv 31	1957	original
ohio gs rept inv 21	1954	original
ohio gs rept inv 29	1956	original
ohio gs rept inv 38	1960	original
ohio gs rept inv 34	1957	original
ohio gs rept inv 36	1958	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	46.78
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	72.90
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	7.14
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	51.66
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	109.05
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	72.58
ohio	monroe	fishpot	bit	orig	unclass	0-1000	unclass	24.32
ohio	noble	fishpot	bit	orig	unclass	0-1000	unclass	19.49
ohio	noble	fishpot	bit	orig	unclass	0-1000	unclass	20.20

ohio	noble	fishpot	bit	orig	unclass	0-1000	unclass	16.63
ohio	harrison	uniontown	bit	orig	unclass	0-1000	unclass	1.53
ohio	harrison	uniontown	bit	orig	unclass	0-1000	unclass	7.82
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	61.00
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	4.87
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	42.19
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	105.97
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	90.74
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	48.10
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	57.60
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	70.92
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	17.03
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	21.60
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	58.47
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	39.36
ohio	monroe	uniontown	bit	orig	unclass	0-1000	unclass	14.76
ohio	noble	uniontown	bit	orig	unclass	0-1000	unclass	3.78
ohio	noble	uniontown	bit	orig	unclass	0-1000	unclass	10.66
ohio	noble	uniontown	bit	orig	unclass	0-1000	unclass	5.05
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	67.98
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	30.07
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	11.25
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	40.17
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	26.64
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	20.83
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	48.36
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	7.43
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	24.52
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	11.56
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	32.26
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	10.03
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	31.36
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	9.83
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	62.75
ohio	washington	uniontown	bit	orig	unclass	0-1000	unclass	67.58
ohio	harrison	waynesburg	bit	orig	unclass	0-1000	unclass	7.13
ohio	jefferson	waynesburg	bit	orig	unclass	0-1000	unclass	21.62
ohio	jefferson	uniontown	bit	orig	unclass	0-1000	unclass	5.38
ohio	monroe	waynesburg	bit	orig	unclass	0-1000	unclass	45.94
ohio	monroe	waynesburg	bit	orig	unclass	0-1000	unclass	14.03
ohio	monroe	waynesburg	bit	orig	unclass	0-1000	unclass	6.21
ohio	noble	waynesburg	bit	orig	unclass	0-1000	unclass	9.24
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	35.70
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	40.61
ohio	monroe	waynesburg a	hit	orig	unclass	0-1000	unclass	53.38
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	39.82
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	41.34
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	74.70
ohio	monroe	waynesburg a	bit	orig	unclass	0-1000	unclass	92.43
ohio	morgan	waynesburg a	bit	orig	unclass	0-1000	unclass	3.69
ohio	noble	waynesburg a	bit	orig	unclass	0-1000	unclass	7.80
ohio	washington	waynesburg a	bit	orig	unclass	0-1000	unclass	7.69
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	35.64
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	24.24
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	21.24
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	33.93
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	20.97
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	39.31
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	46.65
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	87.30

ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	67.56
ohio	monroe	washington	bit	orig	unclass	0-1000	unclass	126.98
ohio	washington	washington	bit	orig	unclass	0-1000	unclass	13.22
ohio	washington	washington	bit	orig	unclass	0-1000	unclass	7.92
ohio	washington	washington	bit	orig	unclass	0-1000	unclass	7.32
ohio	lawrence	wilgus	bit	orig	unclass	0-1000	unclass	173.00
ohio	morgan	anderson	bit	orig	unclass	0-1000	unclass	407.23
ohio	muskingum	anderson	bit	orig	unclass	0-1000	unclass	154.56
ohio	noble	anderson	bit	orig	unclass	0-1000	unclass	133.63
ohio	guernsey	anderson	bit	orig	unclass	0-1000	unclass	142.08
ohio	jefferson	mahoning	bit	orig	unclass	0-1000	unclass	207.36
ohio	carroll	harlem	bit	orig	unclass	0-1000	unclass	34.56
ohio	columbiana	mahoning	bit	orig	unclass	0-1000	unclass	76.95
ohio	coshocton	bedford	bit	orig	unclass	0-1000	unclass	115.20
ohio	coshocton	upper mercer	bit	orig	unclass	0-1000	unclass	3.46
ohio	coshocton	quakertown	bit	orig	unclass	0-1000	unclass	6.91
ohio	geauga	sharon	bit	orig	unclass	0-1000	unclass	2.88
ohio	hocking	tionesta	bit	orig	unclass	0-1000	unclass	3.46
ohio	hocking	bedford	bit	orig	unclass	0-1000	unclass	4.60
ohio	hocking	upper mercer	bit	orig	unclass	0-1000	unclass	3.46
ohio	hocking	lower mercer	bit	orig	unclass	0-1000	unclass	34.56
ohio	hocking	quakertown	bit	orig	unclass	0-1000	unclass	5.18
ohio	holmes	tionesta	bit	orig	unclass	0-1000	unclass	11.52
ohio	holmes	bedford	bit	orig	unclass	0-1000	unclass	145.92
ohio	holmes	lower mercer	bit	orig	unclass	0-1000	unclass	6.91
ohio	holmes	quakertown	bit	orig	unclass	0-1000	unclass	58.60
ohio	jackson	tionesta	bit	orig	unclass	0-1000	unclass	11.52
ohio	jackson	upper mercer	bit	orig	unclass	0-1000	unclass	17.28
ohio	jackson	lower mercer	bit	orig	unclass	0-1000	unclass	13.82
ohio	jackson	quakertown	bit	orig	unclass	0-1000	unclass	369.00
ohio	jackson	sharon	bit	orig	unclass	0-1000	unclass	119.00
ohio	lawrence	tionesta	bit	orig	unclass	0-1000	unclass	51.84
ohio	lawrence	upper mercer	bit	orig	unclass	0-1000	unclass	43.20
ohio	lawrence	lower mercer	bit	orig	unclass	0-1000	unclass	3.46
ohio	lawrence	quakertown	bit	orig	unclass	0-1000	unclass	2.30
ohio	licking	lower mercer	bit	orig	unclass	0-1000	unclass	13.00
ohio	licking	sharon	bit	orig	unclass	0-1000	unclass	15.00
ohio	mahoning	bedford	bit	orig	unclass	0-1000	unclass	5.18
ohio	mahoning	lower mercer	bit	orig	unclass	0-1000	unclass	149.00
ohio	mahoning	sharon	bit	orig	unclass	0-1000	unclass	139.00
ohio	medina	sharon	bit	orig	unclass	0-1000	unclass	73.00
ohio	muskingum	tionesta	bit	orig	unclass	0-1000	unclass	11.52
ohio	muskingum	bedford	bit	orig	unclass	0-1000	unclass	13.82
ohio	muskingum	lower mercer	bit	orig	unclass	0-1000	unclass	4.60
ohio	muskingum	quakertown	bit	orig	unclass	0-1000	unclass	12.00
ohio	muskingum	sharon	bit	orig	unclass	0-1000	unclass	13.00
ohio	perry	tionesta	bit	orig	unclass	0-1000	unclass	8.64
ohio	perry	lower mercer	bit	orig	unclass	0-1000	unclass	2.30
ohio	perry	quakertown	bit	orig	unclass	0-1000	unclass	2.88
ohio	portage	bedford	bit	orig	unclass	0-1000	unclass	13.82
ohio	portage	lower mercer	bit	orig	unclass	0-1000	unclass	23.00
ohio	portage	sharon	bit	orig	unclass	0-1000	unclass	75.00
ohio	scioto	tionesta	bit	orig	unclass	0-1000	unclass	40.32
ohio	scioto	upper mercer	bit	orig	unclass	0-1000	unclass	23.00
ohio	scioto	lower mercer	bit	orig	unclass	0-1000	unclass	10.37
ohio	scioto	quakertown	bit	orig	unclass	0-1000	unclass	1.73
ohio	stark	tionesta	bit	orig	unclass	0-1000	unclass	6.91
ohio	stark	bedford	bit	orig	unclass	0-1000	unclass	3.46
ohio	stark	lower mercer	bit	orig	unclass	0-1000	unclass	5.18
ohio	stark	sharon	bit	orig	unclass	0-1000	unclass	492.00

ohio	summit	sharon	bit	orig	unclass	0-1000	unclass	228.00
ohio	trumbull	sharon	bit	orig	unclass	0-1000	unclass	149.76
ohio	tuscarawas	tionesta	bit	orig	unclass	0-1000	unclass	27.65
ohio	tuscarawas	upper mercer	bit	orig	unclass	0-1000	unclass	17.00
ohio	vinton	upper mercer	bit	orig	unclass	0-1000	unclass	25.92
ohio	vinton	lower mercer	bit	orig	unclass	0-1000	unclass	28.80
ohio	vinton	quakertown	bit	orig	unclass	0-1000	unclass	269.00
ohio	wayne	tionesta	bit	orig	unclass	0-1000	unclass	6.91
ohio	wayne	bedford	bit	orig	unclass	0-1000	unclass	6.91
ohio	wayne	upper mercer	bit	orig	unclass	0-1000	unclass	3.46
ohio	wayne	lower mercer	bit	orig	unclass	0-1000	unclass	2.30
ohio	wayne	quakertown	bit	orig	unclass	0-1000	unclass	5.19
ohio	wayne	sharon	bit	orig	unclass	0-1000	unclass	215.00

average analyses of coal in ohio

proximate analysis (percent)														ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen													
athens														county								
bit																						
	lower freeport	7.3	41.6	44.6	13.8	0.0	0.0	0.0	0.0	4.2	12200	2080	1									
	middle kittanning	8.4	38.1	52.0	9.9	5.0	72.8	1.5	9.9	1.5	12920	2549	140									
	pittsburgh	6.5	42.7	47.6	9.7	0.0	0.0	0.0	0.0	4.0	12903	2012	6									
	upper freeport	8.5	39.8	50.0	10.3	5.0	69.6	1.2	8.6	3.1	12796	2192	20									
	county average	8.3	38.5	51.6	10.0	5.0	70.8	1.3	9.1	1.8	12900	2471	167									
belmont														county								
bit																						
	meigs creek	4.4	39.5	47.7	12.8	4.9	70.8	1.3	7.9	3.1	12712	2289	23									
	pittsburgh	3.6	40.9	48.6	10.5	5.0	72.1	1.3	7.2	4.1	13136	2083	146									
	pittsburgh&meigs crk	5.0	39.6	47.3	13.1	0.0	0.0	0.0	0.0	3.9	12647	2147	4									
	redstone	5.1	38.5	48.6	12.9	0.0	0.0	0.0	0.0	3.2	12708	2373	5									
	various	5.5	36.6	49.4	14.0	0.0	0.0	0.0	0.0	2.2	12332	2400	5									
	county average	3.8	40.5	48.5	11.0	5.0	72.0	1.3	7.3	3.9	13038	2135	183									
carroll														county								
bit																						
	harlem	6.3	37.4	49.6	13.0	0.0	0.0	0.0	0.0	2.3	12680	2140	1									
	lower kittanning	6.0	40.9	46.6	12.5	5.2	72.0	1.4	6.9	4.5	12619	2123	15									
	mehoning	4.8	37.3	54.1	8.7	0.0	0.0	0.0	0.0	1.9	13575	2320	6									
	middle kittanning	6.9	40.6	49.2	10.2	0.0	0.0	0.0	0.0	4.3	13001	2104	9									
	upper freeport	6.6	39.0	52.5	8.5	0.0	0.0	0.0	0.0	2.3	13210	2355	2									
	county average	6.1	39.9	49.1	11.0	5.2	72.0	1.4	6.9	3.8	12934	2171	33									
columbiana														county								
bit																						
	lower freeport	4.1	36.5	53.5	10.1	5.2	78.7	1.6	7.0	1.9	13450	2217	4									
	lower kittanning	5.0	40.9	46.0	13.1	0.0	0.0	0.0	0.0	7.3	12780	2060	1									
	lower mercer	5.1	43.5	47.7	8.8	0.0	0.0	0.0	0.0	4.5	13352	2022	4									
	mehoning	3.8	36.4	52.7	10.9	5.1	75.3	1.5	6.7	2.4	13313	2163	3									
	middle kittanning	5.4	36.7	52.7	10.6	0.0	0.0	0.0	0.0	3.2	13160	2178	38									
	upper freeport	6.5	35.0	52.4	12.6	0.0	0.0	0.0	0.0	2.6	12781	2272	8									
	county average	5.3	37.0	52.2	10.8	5.2	77.0	1.5	6.8	3.2	13142	2180	58									
coshocton														county								

bit												
lower kittanning	6.7	43.9	45.2	10.9	0.0	0.0	0.0	0.0	6.2	12856	2246	3
middle kittanning	8.0	43.2	49.1	7.6	5.1	72.1	1.3	9.3	3.6	13224	2154	51
upper freeport	8.7	43.3	49.5	7.2	0.0	0.0	0.0	0.0	4.0	13260	2040	4
various	5.0	44.1	43.4	12.5	0.0	0.0	0.0	0.0	5.5	12640		1
county average	8.0	43.3	48.9	7.9	5.1	72.1	1.3	9.3	3.8	13198	2151	59
gallia county												
bit												
lower kittanning	8.7	39.8	43.1	17.1	0.0	0.0	0.0	0.0	4.9	11630	2360	1
pittsburgh	8.3	39.9	47.4	12.7	0.0	0.0	0.0	0.0	3.6	12358	2106	6
redstone	7.7	42.2	46.4	11.4	5.0	70.1	1.2	9.7	3.4	12584	2300	16
county average	7.9	41.5	46.5	12.0	5.0	70.1	1.2	9.7	3.5	12483	2252	23
guernsey county												
bit												
bakerstown	4.3	40.2	48.1	11.7	0.0	0.0	0.0	0.0	3.1	12740	2190	1
pittsburgh	4.5	41.9	45.6	12.4	0.0	0.0	0.0	0.0	4.9	12730	2076	6
pittsburgh&meigs crk	3.8	40.6	47.0	12.4	0.0	0.0	0.0	0.0	4.7	12760	2130	1
upper freeport	6.0	37.7	51.8	10.5	4.9	70.7	1.3	7.7	2.8	13021	2289	74
county average	5.8	38.1	51.2	10.7	4.9	70.7	1.3	7.7	3.0	12993	2263	82
harrison county												
bit												
lower freeport	3.4	38.7	52.7	8.6	5.1	74.5	1.5	6.2	3.0	13605	2132	46
meigs creek	5.4	38.3	49.2	12.5	4.9	69.9	1.3	7.6	2.5	12696	2381	9
pittsburgh	5.0	38.8	49.9	11.3	4.9	71.4	1.4	7.5	3.4	12965	2150	100
pittsburgh&meigs crk	8.4	36.6	51.9	11.5	0.0	0.0	0.0	0.0	1.8	12600	2140	1
pittsburgh&redstone	5.1	38.3	48.5	13.2	0.0	0.0	0.0	0.0	3.7	12705	2130	2
redstone	6.1	38.9	48.5	12.6	0.0	0.0	0.0	0.0	2.6	12540	2305	2
upper freeport	5.8	37.0	49.5	13.5	4.9	73.0	1.5	8.1	3.0	12555	2128	8
county average	4.6	38.6	50.6	10.8	4.9	71.7	1.4	7.5	3.2	13096	2168	168
hooking county												
bit												
lower kittanning	9.9	41.3	48.5	10.2	0.0	0.0	0.0	0.0	2.8	12510	2020	1
middle kittanning	8.3	39.0	50.9	10.0	5.1	73.6	1.5	9.7	2.2	12901	2350	44
county average	8.3	39.1	50.9	10.0	5.1	73.6	1.5	9.7	2.2	12893	2340	45
holmes county												
bit												
middle kittanning	9.1	40.0	52.6	7.4	0.0	0.0	0.0	0.0	3.2	13270	1980	1
county average	9.1	40.0	52.6	7.4	0.0	0.0	0.0	0.0	3.2	13270	1980	1

jackson county												
bit												
brookville	8.3	45.2	46.6	8.2	0.0	0.0	0.0	0.0	3.9	13072	2138	5
clarion	8.5	47.1	47.5	5.4	0.0	0.0	0.0	0.0	3.3	13590	2130	1
lower kittanning	8.3	39.0	51.3	9.6	0.0	0.0	0.0	0.0	2.5	12950	2325	6
quakertown	11.1	38.1	57.2	4.7	0.0	0.0	0.0	0.0	1.1	13599	2846	12
sharon	15.2	34.2	51.4	14.4	0.0	0.0	0.0	0.0	0.6	12070		2
upper freeport	8.7	40.2	49.4	10.4	0.0	0.0	0.0	0.0	3.8	12656	2106	20
county average	9.5	40.0	51.4	8.6	0.0	0.0	0.0	0.0	2.8	12980	2255	46
jefferson county												
bit												
harlem	5.7	37.7	51.1	11.2	0.0	0.0	0.0	0.0	2.2	13150	2310	1
lower freeport	3.4	38.7	52.5	8.8	5.0	72.8	1.2	5.5	3.1	13531	2312	11
lower kittanning	3.6	38.4	51.6	10.0	5.2	76.7	1.5	6.9	3.0	13401	2198	36
middle kittanning	3.6	37.8	52.0	10.3	5.0	73.0	1.4	6.4	2.8	13376	2263	13
pittsburgh	4.6	38.2	51.3	10.5	5.1	73.9	1.4	7.2	3.2	13156	2169	111
pittsburgh&redstone	5.7	36.4	53.8	9.8	0.0	0.0	0.0	0.0	1.0	13300	2705	2
waynesburg	4.1	34.5	42.1	23.4	0.0	0.0	0.0	0.0	5.0	10980	2250	1
county average	4.2	38.2	51.4	10.4	5.1	74.3	1.4	6.8	3.1	13236	2204	175
laurence county												
bit												
brookville	6.9	40.4	42.4	17.2	0.0	0.0	0.0	0.0	4.4	11685	2281	9
lower kittanning	7.4	45.7	47.8	6.5	0.0	0.0	0.0	0.0	2.6	13470	2020	1
redstone	9.3	42.2	43.1	14.7	0.0	0.0	0.0	0.0	5.5	11810		3
upper freeport	9.0	40.3	47.2	12.5	0.0	0.0	0.0	0.0	4.8	12410	2062	4
county average	7.8	41.0	44.0	15.0	0.0	0.0	0.0	0.0	4.6	11982	2178	17
mahoning county												
bit												
brookville	5.5	39.3	52.6	8.1	5.2	73.4	1.5	7.2	2.5	13592	2256	63
lower kittanning	5.2	35.8	46.9	17.3	0.0	0.0	0.0	0.0	3.1	12067	2513	7
middle kittanning	6.1	42.5	47.0	10.6	0.0	0.0	0.0	0.0	5.8	13033	2033	3
various	4.6	38.9	55.3	5.8	0.0	0.0	0.0	0.0	1.8	13931	2180	16
county average	5.3	39.1	52.4	8.5	5.2	73.4	1.5	7.2	2.6	13518	2257	89
meigs county												
bit												
pittsburgh	7.8	41.9	46.2	11.9	5.0	69.8	1.3	9.7	3.8	12431	2070	6
redstone	6.8	41.3	46.1	12.6	5.0	70.8	1.3	9.6	3.3	12476	2263	48
various	8.3	41.9	43.3	14.8	0.0	0.0	0.0	0.0	5.8	11950	2090	1
county average	6.9	41.4	46.0	12.6	5.0	70.3	1.3	9.7	3.4	12462	2243	55

morgan county												
bit												
meigs creek	5.0	41.2	43.2	15.6	0.0	0.0	0.0	0.0	5.6	12100	2115	2
middle kittanning	7.4	41.5	49.8	8.7	0.0	0.0	0.0	0.0	2.9	13142	2175	8
pittsburgh	9.3	40.6	45.3	14.1	0.0	0.0	0.0	0.0	4.5	11960	2030	1
county average	7.2	41.4	48.2	10.5	0.0	0.0	0.0	0.0	3.5	12845	2149	11
muskingum county												
bit												
clarion	5.3	46.5	44.1	9.4	0.0	0.0	0.0	0.0	4.2	13250	2060	1
middle kittanning	7.0	42.5	46.3	11.3	5.3	74.2	1.5	7.8	4.4	12705	2122	67
upper freeport	6.3	43.4	43.3	13.3	0.0	0.0	0.0	0.0	5.7	12431	2153	12
county average	6.9	42.7	45.8	11.5	5.3	74.2	1.5	7.8	4.6	12671	2126	80
noble county												
bit												
m kittanning&u frept	4.4	36.5	54.3	9.2	0.0	0.0	0.0	0.0	3.4	13343		3
meigs creek	4.2	39.9	42.5	17.6	0.0	0.0	0.0	0.0	5.7	11844	2102	9
upper freeport	5.4	36.4	53.9	9.8	0.0	0.0	0.0	0.0	2.8	13335	2105	2
county average	4.4	38.7	46.7	14.7	0.0	0.0	0.0	0.0	4.8	12378	2102	14
perry county												
bit												
lower kittanning	9.0	41.9	48.5	9.6	5.0	69.8	1.5	9.1	3.5	12907	2097	7
middle kittanning	8.5	40.6	49.2	10.2	4.9	69.9	1.4	9.8	2.7	12786	2372	126
upper freeport	7.6	43.1	50.5	6.4	0.0	0.0	0.0	0.0	2.3	13400	2050	1
various	11.5	37.9	46.9	15.3	0.0	0.0	0.0	0.0	3.0	11915	2490	2
county average	8.6	40.6	49.1	10.2	4.9	69.9	1.4	9.8	2.7	12784	2351	136
portage county												
bit												
brookville	6.0	40.6	48.2	11.3	0.0	0.0	0.0	0.0	3.5	12950	2235	2
county average	6.0	40.6	48.2	11.3	0.0	0.0	0.0	0.0	3.5	12950	2235	2
stark county												
bit												
brookville	3.8	39.1	48.4	12.5	0.0	0.0	0.0	0.0	3.4	12630		1
lower kittanning	6.6	41.6	46.6	11.8	0.0	0.0	0.0	0.0	6.4	12715	2092	6
middle kittanning	6.8	39.4	48.2	12.4	5.1	73.9	1.4	8.1	4.0	12613	2204	15
county average	6.6	40.0	47.8	12.2	5.1	73.9	1.4	8.1	4.6	12641	2176	22

tuscarawas county												

bit												
brookville&l kittang	9.3	41.5	45.8	12.7	0.0	0.0	0.0	0.0	4.3	12520	2120	3
lower kittanning	7.5	42.3	46.8	10.9	5.3	73.3	1.3	8.7	4.4	12834	2092	26
lower mercer	5.0	43.0	43.1	13.9	5.2	70.7	1.4	7.8	4.8	12475	2077	4
middle kittanning	6.4	41.1	47.5	11.4	0.0	0.0	0.0	0.0	4.2	12790	2139	28

county average	6.9	41.8	46.8	11.4	5.3	72.0	1.4	8.3	4.3	12775	2111	61

	vinton				county							
bit												
clarion	6.5	43.8	45.4	10.8	5.1	68.5	1.2	6.7	4.2	12819	2251	11
lower kittanning	9.5	38.1	45.9	16.0	0.0	0.0	0.0	0.0	5.2	11792	2320	5
middle kittanning	8.9	42.1	53.0	5.0	5.3	75.1	1.5	10.0	1.9	13523	2100	3
various	11.5	39.7	45.6	14.7	0.0	0.0	0.0	0.0	3.2	11700		1
county average	7.9	41.9	46.6	11.4	5.2	71.8	1.4	8.3	4.0	12612	2260	20

yashington county												
bit												
melgs creek	4.5	30.7	41.5	18.8	0.0	0.0	0.0	0.0	5.8	11770	2073	3
county average	4.5	39.7	41.5	18.8	0.0	0.0	0.0	0.0	5.8	11770	2073	3

Ohio

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fatlo
ohio	athens	upper freeport	7.9	43.6	47.0	9.4	5.5	12940	0	4.0
ohio	athens	middle kittanning	9.9	36.2	51.5	12.3	1.0	12520	0	1.0
ohio	athens	middle kittanning	***	35.6	51.0	13.4	1.1	12320	0	1.0
ohio	athens	middle kittanning	***	36.1	50.8	13.1	1.0	12390	0	1.5
ohio	athens	middle kittanning	9.9	34.5	50.9	14.6	1.3	12070	0	1.0
ohio	athens	upper freeport	8.1	44.1	45.8	10.1	5.2	12810	53	5.0
ohio	athens	pittsburgh	6.5	44.9	44.5	10.6	5.0	12670	53	3.5
ohio	athens	pittsburgh	9.1	43.4	47.1	9.5	4.0	12700	52	2.5

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state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
ohio	athens	upper freeport	6.7	40.5	46.6	12.9	3.7	12290	46	3.5
ohio	athens	lower freeport	7.3	41.6	44.6	13.8	4.2	12200	46	3.0
ohio	athens	middle kittanning	9.9	36.7	50.0	13.3	1.3	12370	0	1.5
ohio	athens	middle kittanning	8.8	39.4	50.1	10.5	1.8	12740	45	3.0
ohio	belmont	pittsburgh	3.7	42.9	46.7	10.4	5.1	13100	57	7.5
ohio	belmont	meigs creek	4.1	38.8	47.7	13.5	2.9	12580	0	4.5
ohio	belmont	meigs creek	5.2	40.8	47.4	11.8	3.9	12890	50	6.5
ohio	belmont	pittsburgh	3.5	44.6	43.6	11.8	5.7	12900	52	4.5
ohio	belmont	pittsburgh	3.8	42.5	46.7	10.8	4.3	12910	51	6.0
ohio	belmont	pittsburgh	4.3	42.5	45.4	12.1	4.7	12770	0	4.0
ohio	belmont	meigs creek	4.6	38.2	49.5	12.3	2.8	12840	52	6.5
ohio	belmont	pittsburgh	3.6	41.7	48.5	9.8	4.9	13260	56	5.0
ohio	belmont	pittsburgh	4.9	40.2	47.8	12.0	4.2	12920	59	6.0
ohio	belmont	pittsburgh	2.9	41.6	49.1	9.3	4.2	13270	0	7.0
ohio	belmont	pittsburgh	4.8	37.4	47.2	15.4	3.9	12340	0	6.5
ohio	belmont	pittsburgh	4.8	40.4	47.6	12.0	3.8	12760	0	5.5
ohio	belmont	meigs creek	5.1	38.9	47.9	13.2	2.8	12610	50	3.5
ohio	belmont	pittsburgh	5.2	39.7	47.4	12.9	4.3	12670	56	5.5
ohio	belmont	pittsburgh	3.8	40.1	45.0	14.9	5.3	12240	54	5.0
ohio	belmont	pittsburgh	5.9	39.3	47.5	13.2	4.3	12530	55	3.5
ohio	belmont	pittsburgh	6.0	38.5	49.2	12.3	2.9	12780	52	4.5
ohio	belmont	pittsburgh	3.6	41.4	43.5	15.1	6.2	12270	0	5.0
ohio	belmont	meigs creek	4.0	41.6	47.1	11.3	3.7	13060	50	4.5
ohio	belmont	meigs creek	4.1	41.0	46.8	12.2	3.4	12830	52	6.0
ohio	belmont	pittsburgh	5.3	40.5	49.8	9.7	3.3	13050	53	5.0
ohio	belmont	pittsburgh	3.4	40.5	48.8	10.7	3.8	13100	0	6.5
ohio	belmont	pittsburgh	3.9	41.2	47.7	11.1	4.1	13030	60	6.5
ohio	belmont	pittsburgh	3.9	43.6	44.9	11.5	5.3	12830	58	6.0
ohio	belmont	pittsburgh	5.9	39.4	47.3	13.3	4.8	12570	58	6.5
ohio	belmont	meigs creek	4.6	39.0	49.4	11.6	2.4	12950	52	4.5
ohio	belmont	meigs creek	3.2	40.6	46.2	13.2	4.4	12600	51	4.5
ohio	belmont	meigs creek	4.3	39.7	45.7	14.6	4.0	12410	51	4.0
ohio	belmont	meigs creek	4.4	39.1	48.8	12.1	2.8	12750	50	4.5
ohio	belmont	meigs creek	4.1	37.6	46.3	14.1	3.4	12530	48	4.5
ohio	belmont	meigs creek	4.1	39.0	48.2	12.8	2.8	12700	0	4.5
ohio	belmont	meigs creek	3.8	40.2	48.2	11.6	3.3	12840	52	5.5
ohio	belmont	meigs creek	4.0	39.9	47.8	12.3	3.3	12880	49	4.5
ohio	belmont	meigs creek	3.6	40.3	45.6	14.1	3.3	12560	52	6.5
ohio	belmont	pittsburgh&meigs crk	5.8	38.7	48.1	13.2	3.7	12610	54	5.0
ohio	belmont	pittsburgh&meigs crk	5.6	39.5	47.0	13.5	4.3	12550	0	5.0
ohio	belmont	meigs creek	4.5	37.5	47.5	15.0	2.3	12360	50	4.0
ohio	belmont	meigs creek	4.6	38.7	50.2	11.1	1.9	12930	0	4.0
ohio	belmont	rodstone	5.2	38.9	49.7	11.4	1.9	13000	52	4.5
ohio	belmont	meigs creek	5.3	37.8	48.6	13.6	2.8	12450	52	6.0
ohio	belmont	pittsburgh	5.5	40.9	49.5	9.6	3.6	13280	0	7.0
ohio	belmont	pittsburgh	4.2	39.1	46.7	14.2	5.6	12540	57	5.5
ohio	belmont	pittsburgh	3.1	43.3	47.1	9.6	5.0	13290	0	6.0
ohio	belmont	pittsburgh	2.9	41.3	47.1	11.6	5.5	12870	0	6.5
ohio	belmont	pittsburgh	4.4	39.3	47.1	13.6	4.0	12650	55	7.0
ohio	belmont	pittsburgh	4.6	37.0	42.1	20.9	4.4	11410	54	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
ohio	belmont	meigs creek	5.1	38.6	49.0	12.4	2.6	12830	48	5.0
ohio	belmont	meigs creek	4.0	40.4	47.6	12.0	3.3	12860	48	3.0
ohio	belmont	pittsburgh	7.9	41.3	45.8	12.9	5.1	12740	59	7.0
ohio	belmont	pittsburgh	3.6	41.4	48.0	10.6	4.3	13100	0	6.0
ohio	belmont	meigs creek	4.6	41.3	47.6	11.1	3.7	12930	0	6.5
ohio	belmont	pittsburgh	4.5	39.5	49.7	10.8	3.3	12940	0	7.0
ohio	belmont	meigs creek	3.9	39.9	44.8	15.3	4.1	12280	51	6.5
ohio	carroll	upper freeport	5.8	41.6	53.4	5.0	2.2	13700	53	4.0
ohio	carroll	lower kittanning	5.8	39.6	43.7	16.7	4.9	11860	54	4.0
ohio	carroll	middle kittanning	5.6	40.3	48.6	11.1	4.2	12700	50	5.0
ohio	carroll	lower kittanning	5.8	41.4	43.4	15.2	4.1	12240	52	3.5
ohio	carroll	lower kittanning	5.0	43.9	46.8	9.3	5.0	13090	52	4.5
ohio	carroll	upper freeport	7.3	36.4	51.6	12.0	2.4	12720	51	5.0
ohio	carroll	middle kittanning	5.4	41.2	49.0	9.8	4.6	13000	0	3.5
ohio	carroll	lower kittanning	7.0	42.3	48.5	9.2	3.6	13320	51	4.0
ohio	carroll	lower kittanning	4.3	44.6	45.0	10.4	4.8	13040	51	2.0
ohio	carroll	middle kittanning	5.7	40.2	50.0	9.8	4.9	12920	49	5.0
ohio	carroll	lower kittanning	5.9	42.7	47.7	9.6	4.6	12990	52	4.0
ohio	carroll	harlem	6.3	37.4	49.6	13.0	2.3	12680	53	2.0
ohio	carroll	mahoning	4.9	36.4	53.4	10.2	2.9	13360	53	5.5
ohio	carroll	mahoning	5.1	36.9	53.7	9.4	1.8	13390	50	5.5
ohio	columbiana	middle kittanning	3.4	37.6	53.6	8.8	3.7	13510	61	7.0
ohio	columbiana	middle kittanning	4.6	36.6	53.8	9.6	4.0	13430	56	7.0
ohio	columbiana	upper freeport	4.3	35.7	54.8	9.5	1.2	13420	57	5.0
ohio	columbiana	upper freeport	5.3	34.7	53.6	11.7	1.5	13100	55	6.5
ohio	columbiana	upper freeport	4.8	36.1	56.2	7.7	1.7	13730	58	6.5
ohio	columbiana	middle kittanning	4.7	36.4	54.5	9.1	3.1	13520	56	7.0
ohio	columbiana	middle kittanning	4.7	36.7	54.5	8.8	3.3	13580	57	7.0
ohio	columbiana	middle kittanning	4.4	34.2	51.0	14.8	2.9	12600	56	7.0
ohio	columbiana	middle kittanning	4.4	37.1	53.5	9.4	3.2	13270	58	7.5
ohio	columbiana	middle kittanning	6.3	38.5	54.0	7.5	2.8	13600	46	4.5
ohio	columbiana	middle kittanning	4.6	37.5	51.9	10.6	2.4	13230	54	5.0
ohio	columbiana	middle kittanning	6.2	34.0	50.7	15.3	1.5	12430	54	6.0
ohio	columbiana	middle kittanning	4.4	36.5	51.9	11.6	2.4	13090	53	4.0
ohio	columbiana	middle kittanning	4.9	36.2	52.9	10.9	2.3	13160	53	3.5
ohio	columbiana	middle kittanning	6.3	34.4	53.4	12.2	1.2	12850	57	2.5
ohio	columbiana	lower kittanning	5.0	40.9	46.0	13.1	7.3	12780	56	5.5
ohio	columbiana	upper freeport	2.9	37.5	42.8	19.7	8.7	11770	61	5.5
ohio	columbiana	upper freeport	***	34.1	50.3	15.6	2.6	12040	67	1.0
ohio	columbiana	middle kittanning	4.2	35.0	52.0	13.0	2.5	12950	54	6.5
ohio	columbiana	upper freeport	8.1	34.9	53.2	11.9	2.2	12890	54	4.0
ohio	columbiana	upper freeport	4.7	35.8	54.8	9.4	2.6	13410	57	7.5
ohio	columbiana	middle kittanning	4.1	38.2	53.9	7.9	3.8	13690	61	8.0
ohio	columbiana	middle kittanning	7.0	42.1	49.1	8.8	0.5	13300	52	3.5
ohio	columbiana	middle kittanning	5.5	36.7	53.9	9.4	3.9	13420	56	6.5
ohio	columbiana	middle kittanning	5.1	36.7	49.2	14.1	4.4	12670	53	6.5
ohio	columbiana	middle kittanning	5.0	35.4	54.5	10.1	2.5	13360	58	7.0
ohio	columbiana	lower freeport	5.3	32.0	49.8	18.2	2.6	12150	55	5.0
ohio	coshocton	middle kittanning	9.5	42.4	48.8	8.8	4.4	13150	53	3.5
ohio	coshocton	middle kittanning	***	41.0	53.6	5.4	2.2	13250	0	1.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	tsilo
ohio	coshocton	upper freeport	8.0	42.1	48.6	9.3	4.6	12960	53	4.0
ohio	coshocton	upper freeport	***	42.5	49.7	7.8	3.2	13020	54	3.0
ohio	coshocton	middle kittanning	9.7	42.7	51.4	5.9	3.2	13550	52	4.0
ohio	coshocton	middle kittanning	***	43.4	48.8	7.8	1.1	13350	48	4.0
ohio	coshocton	middle kittanning	***	40.7	47.6	11.7	4.4	12480	54	3.0
ohio	coshocton	lower kittanning	8.0	42.5	45.5	12.0	5.7	12620	52	3.5
ohio	coshocton	middle kittanning	9.0	41.4	52.0	6.6	3.0	13530	53	4.0
ohio	coshocton	middle kittanning	7.1	40.2	45.7	14.1	6.4	12190	0	4.0
ohio	coshocton	middle kittanning	6.1	42.7	45.5	11.8	5.3	12670	50	3.0
ohio	coshocton	middle kittanning	7.1	43.4	44.0	12.6	5.4	12600	48	4.5
ohio	coshocton	middle kittanning	6.7	42.6	46.9	10.5	4.5	12890	49	4.5
ohio	coshocton	middle kittanning	***	44.0	50.9	5.1	3.1	13600	49	4.0
ohio	coshocton	middle kittanning	6.4	46.7	47.4	5.9	4.1	13500	0	3.5
ohio	coshocton	middle kittanning	***	42.0	49.8	8.2	4.0	13060	52	3.0
ohio	gallia	redstone	7.7	43.2	46.0	10.8	3.7	12700	56	4.5
ohio	gallia	redstone	8.0	38.7	44.5	16.8	4.4	11750	0	3.0
ohio	gallia	pittsburgh	9.1	40.3	49.5	10.2	3.6	12700	57	3.5
ohio	gallia	pittsburgh	8.3	40.4	47.0	12.6	3.6	12480	55	4.5
ohio	gallia	pittsburgh	8.7	39.5	44.9	15.6	4.8	11890	0	3.0
ohio	gallia	pittsburgh	8.1	39.8	51.1	9.1	3.3	12740	46	4.0
ohio	gallia	redstone	8.0	42.8	48.0	9.7	3.1	12900	55	5.0
ohio	gallia	redstone	7.5	43.0	45.0	12.0	4.2	12510	47	3.5
ohio	gallia	pittsburgh	***	40.7	42.8	16.5	4.4	11650	0	3.5
ohio	gallia	redstone	9.4	41.0	46.2	12.8	3.1	12390	54	4.0
ohio	gallia	redstone	7.4	42.4	46.0	11.6	3.8	12540	55	5.0
ohio	gallia	redstone	7.6	42.3	47.2	10.5	3.4	12780	55	5.0
ohio	gallia	lower kittanning	8.7	39.8	43.1	17.1	4.9	11630	46	2.5
ohio	gallia	redstone	6.5	41.7	45.4	10.9	3.4	12680	55	4.5
ohio	gallia	redstone	8.7	41.4	47.9	10.7	2.3	12710	0	5.0
ohio	guernsey	pittsburgh	3.4	43.2	45.5	11.3	5.7	12930	52	5.0
ohio	guernsey	pittsburgh	7.9	40.5	46.7	12.8	4.0	12700	62	4.0
ohio	guernsey	pittsburgh&meigs crk	3.8	40.6	47.0	12.4	4.7	12760	52	5.5
ohio	guernsey	bakerstown	4.3	40.2	48.1	11.7	3.1	12740	51	5.5
ohio	guernsey	upper freeport	5.2	39.7	51.7	8.6	2.3	13300	0	5.5
ohio	guernsey	upper freeport	6.6	37.4	53.2	9.4	1.6	13200	0	4.0
ohio	guernsey	upper freeport	6.2	38.1	51.6	10.3	3.1	13030	51	5.0
ohio	guernsey	upper freeport	9.1	36.4	52.7	10.9	2.4	13010	50	4.0
ohio	guernsey	upper freeport	7.9	35.1	52.6	12.3	2.4	12740	0	1.5
ohio	guernsey	pittsburgh	4.0	40.4	45.1	14.5	4.8	12370	51	4.0
ohio	harrison	meigs creek	7.1	37.4	49.9	12.7	1.8	12510	53	2.0
ohio	harrison	meigs creek	4.1	38.8	48.0	13.2	3.4	12670	0	4.0
ohio	harrison	pittsburgh	4.5	38.5	48.4	13.1	4.3	12750	59	6.5
ohio	harrison	meigs creek	5.6	39.7	51.1	9.2	1.3	13190	0	3.5
ohio	harrison	pittsburgh&meigs crk	8.4	36.6	51.9	11.5	1.8	12600	50	3.5
ohio	harrison	meigs creek	4.9	38.3	48.5	13.2	3.1	12630	53	6.0
ohio	harrison	pittsburgh	4.5	41.0	48.1	10.9	3.8	13030	58	6.5
ohio	harrison	meigs creek	4.9	38.1	51.4	10.5	1.9	13070	0	5.5
ohio	harrison	pittsburgh	5.4	38.5	48.6	12.9	2.9	12750	61	7.0
ohio	harrison	pittsburgh	7.7	36.3	50.0	13.7	3.1	12560	58	7.0
ohio	harrison	redstone	4.3	40.6	47.6	11.8	3.2	12880	55	5.0

	state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
ohio		harrison	pittsburgh	3.7	33.9	42.9	23.2	4.1	11040	0	4.5
ohio		harrison	pittsburgh	5.0	37.7	48.6	13.7	3.2	12540	53	6.0
ohio		harrison	pittsburgh	5.6	38.5	48.9	12.6	4.6	12830	56	6.5
ohio		harrison	pittsburgh	4.2	39.9	48.6	11.5	4.2	12980	54	5.5
ohio		harrison	pittsburgh&redstone	5.2	37.6	49.1	13.3	3.2	12700	53	6.0
ohio		harrison	pittsburgh	5.8	37.9	47.5	14.6	3.5	12400	58	6.5
ohio		harrison	pittsburgh	4.4	40.4	51.0	8.6	2.8	13430	53	6.0
ohio		harrison	pittsburgh	5.6	37.9	50.9	11.2	3.0	13040	56	5.0
ohio		harrison	meigs creek	4.6	37.6	50.5	11.9	2.2	12820	49	4.0
ohio		harrison	meigs creek	4.7	37.8	48.5	13.7	2.6	12610	47	4.5
ohio		harrison	pittsburgh	5.5	38.9	51.6	9.5	1.9	13260	55	6.5
ohio		harrison	pittsburgh	5.6	38.1	47.8	14.1	3.6	12430	58	6.0
ohio		harrison	pittsburgh&redstone	5.0	39.1	47.8	13.1	4.2	12710	53	6.0
ohio		harrison	pittsburgh	5.6	39.7	48.7	11.6	3.6	12900	56	5.5
ohio		harrison	pittsburgh	5.1	39.4	48.5	12.1	4.7	12810	54	5.5
ohio		harrison	pittsburgh	5.3	39.4	47.8	12.8	3.1	12630	54	6.0
ohio		harrison	meigs creek	7.8	37.7	49.3	13.0	2.4	12420	55	1.5
ohio		harrison	pittsburgh	4.9	39.5	49.0	11.5	4.1	12960	54	6.5
ohio		harrison	meigs creek	4.6	39.0	45.8	15.2	3.4	12350	50	5.0
ohio		harrison	pittsburgh	5.8	39.5	50.9	9.6	3.0	13270	51	7.0
ohio		harrison	upper freeport	6.4	33.8	40.2	16.0	8.4	12080	53	4.0
ohio		harrison	upper freeport	5.4	37.5	48.5	14.0	2.8	12400	49	4.5
ohio		harrison	pittsburgh	4.8	38.1	49.9	12.0	4.1	12880	56	6.5
ohio		harrison	lower freeport	6.9	36.2	52.7	11.1	3.3	13130	0	6.5
ohio		harrison	lower freeport	4.5	39.1	51.4	9.5	3.2	13520	49	5.0
ohio		harrison	lower freeport	3.9	38.5	51.0	10.5	2.7	13280	0	4.0
ohio		harrison	lower freeport	4.7	38.5	51.2	10.3	2.5	13340	50	5.5
ohio		harrison	pittsburgh	9.1	39.3	48.6	12.1	3.8	12720	55	5.0
ohio		harrison	pittsburgh	6.2	39.7	47.1	13.2	3.8	12580	57	4.0
ohio		harrison	lower freeport	4.2	37.7	55.8	6.5	2.0	13830	47	5.5
ohio		harrison	pittsburgh	6.1	37.9	42.6	19.5	5.5	11600	59	5.0
ohio		hocking	lower kittanning	9.9	41.3	48.5	10.2	2.8	12510	45	1.5
ohio		hocking	middle kittanning	6.6	45.2	47.3	7.5	3.1	13280	0	4.5
ohio		holmes	middle kittanning	9.1	40.0	52.6	7.4	3.2	13270	0	3.0
ohio		jackson	upper freeport	8.9	42.0	46.4	11.6	5.0	12500	46	4.5
ohio		jackson	brookville	8.3	43.2	43.4	13.4	5.0	12150	50	4.0
ohio		jackson	brookville	8.3	45.8	43.0	11.2	4.7	12560	51	3.0
ohio		jefferson	pittsburgh	3.8	37.4	49.1	13.5	4.2	12790	54	7.0
ohio		jefferson	pittsburgh	3.4	37.9	50.2	11.9	3.6	12940	53	7.0
ohio		jefferson	pittsburgh	3.2	37.3	53.3	9.4	2.9	13390	0	7.5
ohio		jefferson	lower freeport	3.5	38.8	53.0	8.2	2.8	13610	53	7.5
ohio		jefferson	pittsburgh	3.9	37.8	51.2	11.0	3.3	13100	58	7.0
ohio		jefferson	pittsburgh	4.5	38.3	51.2	10.5	3.3	13250	58	6.0
ohio		jefferson	pittsburgh	5.6	37.9	50.6	11.5	3.2	13090	55	6.5
ohio		jefferson	pittsburgh	4.2	38.6	49.8	11.6	3.7	12940	53	6.5
ohio		jefferson	pittsburgh	5.2	36.2	48.5	15.3	3.9	12350	56	7.5
ohio		jefferson	pittsburgh	4.8	38.0	49.5	12.5	3.5	12870	57	6.5
ohio		jefferson	pittsburgh	6.7	35.8	49.7	14.5	3.5	12460	62	7.0
ohio		jefferson	pittsburgh	4.8	37.5	51.6	10.9	3.2	12970	57	7.5
ohio		jefferson	middle kittanning	3.0	38.3	50.3	11.4	2.8	13100	52	6.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
ohio	jefferson	pittsburgh	3.4	38.8	53.8	7.4	2.8	13690	0	7.5
ohio	jefferson	lower kittanning	6.5	35.9	51.2	12.9	3.4	12830	0	6.5
ohio	jefferson	lower kittanning	4.5	39.0	52.0	9.0	3.0	13340	48	5.0
ohio	jefferson	lower kittanning	3.6	39.1	49.6	11.3	4.1	13150	52	6.5
ohio	jefferson	lower kittanning	3.4	40.7	50.4	8.9	3.2	13550	55	8.0
ohio	jefferson	lower freeport	4.1	37.1	53.8	9.1	2.7	13130	50	7.0
ohio	jefferson	pittsburgh	7.8	36.6	51.0	12.4	2.4	12630	0	2.5
ohio	jefferson	pittsburgh	4.3	40.3	50.1	9.6	3.8	13270	52	7.0
ohio	jefferson	pittsburgh	5.9	37.8	50.7	11.5	2.8	13090	59	7.0
ohio	jefferson	lower freeport	5.0	36.7	55.4	7.9	1.5	13720	54	7.0
ohio	jefferson	lower kittanning	5.8	35.1	51.0	13.9	3.2	12710	0	6.5
ohio	jefferson	lower kittanning	8.1	36.0	50.9	13.1	3.4	12890	0	5.5
ohio	jefferson	lower kittanning	5.8	35.1	49.8	15.1	2.8	12690	0	6.5
ohio	jefferson	middle kittanning	6.2	37.3	54.1	8.6	2.4	13590	54	6.5
ohio	jefferson	pittsburgh	4.3	37.4	52.2	10.4	2.6	13280	57	7.5
ohio	jefferson	pittsburgh	4.8	37.9	50.7	11.4	3.5	12970	55	6.5
ohio	jefferson	pittsburgh	6.4	36.2	52.5	11.3	1.1	13010	0	4.5
ohio	jefferson	pittsburgh	5.0	38.3	51.0	10.7	3.5	13220	55	5.5
ohio	jefferson	pittsburgh	5.7	36.9	50.4	12.7	3.6	12750	0	6.5
ohio	jefferson	pittsburgh&redstone	5.3	36.9	54.0	9.1	1.0	13420	0	5.5
ohio	jefferson	pittsburgh	3.0	39.0	48.1	12.1	4.5	12980	55	6.0
ohio	jefferson	pittsburgh	4.7	40.4	49.9	9.7	3.7	13250	54	5.5
ohio	jefferson	pittsburgh	7.1	34.2	50.0	15.8	0.9	12310	57	6.5
ohio	jefferson	harlem	5.7	37.7	51.1	11.2	2.2	13150	52	6.0
ohio	jefferson	pittsburgh	3.8	35.8	49.1	15.1	4.1	12450	55	6.5
ohio	jefferson	waynesburg	4.1	34.5	42.1	23.4	5.0	10980	55	4.5
ohio	jefferson	pittsburgh	4.1	38.1	49.3	12.6	3.3	12880	55	6.0
ohio	jefferson	pittsburgh	4.6	38.2	50.3	11.5	3.1	13060	54	6.5
ohio	jefferson	pittsburgh	4.5	38.3	51.1	10.6	3.3	13170	0	6.5
ohio	jefferson	pittsburgh	4.4	37.3	50.1	12.6	3.2	12820	56	6.5
ohio	jefferson	pittsburgh	6.0	37.2	53.1	9.7	2.4	13190	54	7.0
ohio	jefferson	pittsburgh	6.0	38.0	47.0	15.0	4.0	12440	54	5.5
ohio	jefferson	pittsburgh	4.5	38.1	50.0	11.9	3.4	12990	54	6.5
ohio	jefferson	lower freeport	2.4	39.0	50.6	10.4	5.1	13310	58	6.5
ohio	jefferson	lower freeport	3.6	40.9	49.4	9.7	5.3	13450	58	7.0
ohio	jefferson	pittsburgh	4.5	36.8	50.9	12.3	2.7	12950	55	7.0
ohio	jefferson	pittsburgh	3.7	39.0	50.6	10.4	3.3	13130	0	7.5
ohio	lawrence	upper freeport	***	38.8	45.7	15.5	4.3	11920	53	3.0
ohio	mahoning	brookville	4.8	39.4	51.5	9.1	3.0	13530	52	6.5
ohio	mahoning	brookville	5.0	39.8	52.1	8.1	3.3	13760	54	5.5
ohio	mahoning	lower kittanning	9.3	40.2	53.1	6.7	2.4	13880	54	3.5
ohio	mahoning	lower kittanning	4.9	39.4	56.6	4.0	1.8	14230	53	4.5
ohio	mahoning	brookville	3.8	35.5	48.0	16.5	3.5	12200	55	4.5
ohio	mahoning	brookville	5.3	44.1	48.6	7.3	3.7	13520	51	4.0
ohio	mahoning	brookville	5.0	43.9	48.9	7.2	4.7	13650	52	3.5
ohio	mahoning	lower kittanning	3.9	30.4	38.0	31.6	4.4	9750	57	3.0
ohio	mahoning	lower kittanning	5.8	31.7	40.4	27.9	3.7	10370	0	5.0
ohio	mahoning	brookville	4.5	38.4	52.5	9.1	2.9	13550	55	5.5
ohio	mahoning	brookville	4.3	39.4	51.1	9.5	2.3	13340	50	5.5
ohio	mahoning	brookville	6.5	37.4	54.8	7.8	2.6	13650	52	5.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
ohio	mahoning	middle kittanning	5.1	42.9	47.4	9.7	5.7	13220	50	5.0
ohio	mahoning	middle kittanning	8.5	40.4	46.8	12.8	6.0	12630	55	2.0
ohio	mahoning	brookville	6.6	34.9	47.6	17.5	4.8	12030	0	6.0
ohio	mahoning	brookville	5.1	36.7	42.3	21.0	1.8	11600	33	1.0
ohio	mahoning	brookville	5.5	40.5	44.8	14.7	6.3	12240	51	3.5
ohio	mahoning	brookville	7.4	37.7	46.7	15.6	3.5	12270	50	3.0
ohio	mahoning	brookville	5.6	41.9	43.0	15.1	7.7	12330	49	4.5
ohio	mahoning	brookville	5.4	37.5	56.2	6.3	0.6	13920	58	4.5
ohio	mahoning	brookville	5.2	39.7	55.3	5.0	2.4	14070	53	4.5
ohio	mahoning	brookville	5.3	40.7	53.8	5.5	2.2	14030	55	3.5
ohio	mahoning	various	5.2	40.0	55.0	5.0	1.7	14140	0	5.0
ohio	mahoning	brookville	4.0	36.8	43.9	19.3	2.8	11960	38	2.0
ohio	mahoning	brookville	6.2	36.0	49.9	14.1	2.4	12650	0	4.5
ohio	mahoning	brookville	***	34.7	55.8	9.5	2.8	13440	0	5.0
ohio	mahoning	brookville	6.0	37.7	55.8	6.5	1.5	13830	0	5.0
ohio	mahoning	brookville	9.4	35.3	53.7	11.0	2.5	13110	0	4.0
ohio	mahoning	brookville	9.1	34.4	54.2	11.4	2.6	13020	0	5.0
ohio	mahoning	lower kittanning	3.5	35.6	44.7	19.7	3.4	11670	55	6.0
ohio	mahoning	lower kittanning	3.4	35.4	45.4	19.2	3.0	11690	55	5.5
ohio	mahoning	brookville	4.1	39.4	49.9	10.7	3.6	13240	52	6.5
ohio	mahoning	brookville	3.9	41.0	52.8	6.2	3.4	13970	54	7.0
ohio	meigs	redstone	6.2	42.8	47.5	9.7	2.1	12970	52	3.5
ohio	meigs	redstone	6.8	43.3	46.0	10.7	3.2	12820	51	4.0
ohio	meigs	pittsburgh	6.5	42.1	46.3	11.6	3.5	12600	0	4.5
ohio	meigs	pittsburgh	5.7	42.1	44.0	13.9	5.3	12240	51	5.5
ohio	meigs	redstone	6.7	42.1	45.2	12.7	2.3	12540	52	4.0
ohio	meigs	redstone	7.8	39.9	46.2	13.9	3.1	12300	53	4.0
ohio	meigs	redstone	9.2	39.8	44.6	15.6	3.3	12030	0	4.0
ohio	meigs	redstone	7.5	43.0	46.5	10.5	5.3	12650	58	5.0
ohio	meigs	redstone	7.3	42.9	45.7	11.4	3.6	12570	49	5.0
ohio	meigs	pittsburgh	9.1	41.5	48.3	10.2	3.0	12650	0	3.5
ohio	meigs	redstone	8.1	40.3	45.2	14.5	5.4	12030	0	1.5
ohio	morgan	meigs creek	4.7	42.6	44.0	13.4	5.7	12350	0	6.0
ohio	morgan	meigs creek	5.3	39.8	42.4	17.8	5.5	11850	0	4.0
ohio	morgan	middle kittanning	8.2	43.6	47.7	8.7	3.5	13090	55	4.5
ohio	muskingum	upper freeport	7.7	37.5	43.7	18.8	3.3	11590	53	4.5
ohio	muskingum	middle kittanning	7.5	44.3	46.2	9.5	4.2	12970	52	5.0
ohio	muskingum	middle kittanning	9.3	40.5	49.5	10.0	3.8	12790	50	3.0
ohio	muskingum	middle kittanning	8.4	40.9	49.7	9.4	2.7	13000	47	2.0
ohio	muskingum	middle kittanning	6.1	43.2	45.2	11.6	6.0	12730	0	4.5
ohio	muskingum	clarion	5.3	46.5	44.1	9.4	4.2	13250	44	2.5
ohio	muskingum	middle kittanning	5.5	43.5	43.8	12.7	5.1	12440	0	3.5
ohio	muskingum	middle kittanning	5.8	43.8	44.6	11.6	5.4	12610	0	3.5
ohio	muskingum	middle kittanning	6.3	41.3	45.4	13.3	4.4	12370	0	5.5
ohio	muskingum	middle kittanning	6.2	43.2	45.1	11.7	5.1	12550	0	4.0
ohio	muskingum	middle kittanning	8.1	40.5	45.0	14.5	5.6	12160	0	3.0
ohio	muskingum	middle kittanning	7.2	40.4	42.8	16.8	5.2	11780	53	4.5
ohio	muskingum	middle kittanning	8.7	37.9	44.1	18.0	5.8	11590	0	3.5
ohio	muskingum	upper freeport	7.3	43.5	41.0	15.5	7.9	12050	53	2.5
ohio	muskingum	upper freeport	8.5	44.5	40.1	15.4	6.7	12000	57	3.5

	state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
ohio		muskingum	middle kittanning	7.1	43.4	45.8	10.8	4.9	12810	51	4.0
ohio		muskingum	middle kittanning	***	35.1	40.7	24.2	4.3	10750	63	2.5
ohio		muskingum	middle kittanning	8.0	37.9	43.4	18.7	4.5	11410	0	3.5
ohio		muskingum	middle kittanning	***	37.3	44.6	18.1	3.9	11550	0	1.5
ohio		muskingum	middle kittanning	***	39.4	50.1	10.5	2.8	12260	0	1.0
ohio		muskingum	middle kittanning	8.4	42.8	44.7	12.5	4.7	12340	52	2.5
ohio		noble	meigs creek	4.4	36.3	42.6	21.1	4.2	11330	50	5.0
ohio		noble	meigs creek	4.9	39.8	47.1	13.1	4.8	12490	46	4.5
ohio		noble	meigs creek	4.5	40.7	45.5	13.8	5.7	12260	0	5.0
ohio		noble	meigs creek	4.2	40.2	42.6	17.2	6.9	12040	51	3.5
ohio		noble	meigs creek	4.6	38.8	42.2	19.0	5.5	11590	0	5.0
ohio		noble	meigs creek	4.0	37.9	37.9	24.2	5.5	10830	51	5.5
ohio		noble	meigs creek	3.6	42.2	42.0	15.8	7.5	12150	51	6.0
ohio		noble	meigs creek	3.8	39.6	39.6	20.8	5.5	11380	0	4.5
ohio		noble	meigs creek	3.7	43.6	43.0	13.4	6.1	12530	0	6.5
ohio		perry	middle kittanning	8.1	43.7	48.5	7.8	4.1	13120	49	4.0
ohio		perry	middle kittanning	7.7	40.4	43.8	15.8	4.6	11700	42	3.0
ohio		perry	middle kittanning	7.0	40.3	46.5	13.2	2.5	12400	0	4.0
ohio		perry	middle kittanning	9.4	37.9	54.8	7.3	0.6	13260	51	1.0
ohio		perry	middle kittanning	9.1	43.5	46.2	10.3	3.1	12730	54	3.0
ohio		perry	middle kittanning	8.8	36.9	46.3	16.8	0.9	11850	43	2.0
ohio		perry	middle kittanning	7.6	36.6	45.1	18.3	0.7	11530	41	1.5
ohio		perry	middle kittanning	8.9	36.9	46.4	16.7	1.0	11730	43	1.5
ohio		perry	middle kittanning	8.6	45.2	45.1	9.7	4.3	12720	0	4.0
ohio		perry	middle kittanning	8.9	43.3	48.3	8.4	2.5	13160	57	4.5
ohio		perry	middle kittanning	9.6	42.3	48.9	8.8	2.7	12880	44	4.0
ohio		perry	middle kittanning	8.0	43.3	47.4	9.3	3.4	12900	50	4.5
ohio		perry	lower kittanning	8.2	42.2	47.0	10.8	3.8	12720	48	4.5
ohio		perry	middle kittanning	8.1	40.1	48.4	11.5	1.9	12550	44	3.0
ohio		perry	middle kittanning	7.8	42.1	46.6	11.3	3.2	12670	55	4.5
ohio		perry	middle kittanning	8.3	43.1	44.6	12.3	4.2	12550	53	4.0
ohio		perry	lower kittanning	8.7	41.0	48.5	10.5	4.3	12820	49	3.5
ohio		perry	lower kittanning	***	42.6	47.9	9.5	3.4	12920	53	3.5
ohio		perry	middle kittanning	9.6	44.2	46.2	9.6	3.7	12730	53	2.5
ohio		perry	middle kittanning	7.1	44.6	44.2	11.2	4.6	12660	47	3.5
ohio		perry	middle kittanning	7.9	41.9	49.8	8.3	3.2	12930	47	4.5
ohio		perry	middle kittanning	8.9	40.1	44.9	15.0	4.3	12040	51	3.5
ohio		perry	middle kittanning	***	41.6	47.8	10.6	3.0	12720	53	3.5
ohio		perry	middle kittanning	9.6	40.1	48.6	11.3	2.1	12630	54	4.5
ohio		perry	lower kittanning	***	40.1	47.0	12.9	4.3	12400	50	3.0
ohio		perry	middle kittanning	7.3	38.9	43.4	17.7	4.3	11530	0	2.5
ohio		perry	middle kittanning	7.4	39.8	45.7	14.5	2.8	11910	0	2.0
ohio		portage	brookville	6.8	38.3	47.1	14.6	3.9	12390	50	4.0
ohio		stark	middle kittanning	8.0	38.1	47.0	14.9	5.1	12190	49	3.5
ohio		stark	lower kittanning	6.5	44.9	45.1	10.0	5.6	12940	52	3.5
ohio		stark	middle kittanning	9.0	38.2	49.1	12.7	2.7	12410	56	1.0
ohio		stark	middle kittanning	9.1	38.8	50.3	10.9	3.0	12820	56	1.5
ohio		stark	lower kittanning	9.6	39.1	45.9	15.0	6.0	12220	54	5.0
ohio		stark	middle kittanning	7.1	34.7	42.7	22.6	5.4	10960	0	4.5
ohio		tuscarawas	lower kittanning	7.3	42.9	46.7	10.4	4.6	13000	53	3.5

state	county	bed	moisture	volatile	fixed	ash	sulfur	btu	nitro	fat
ohio	tuscarawas	lower kittanning	7.1	41.6	48.6	9.4	4.8	12810	0	4.5
ohio	tuscarawas	lower kittanning	4.2	40.4	48.9	10.8	3.6	12770	51	3.5
ohio	tuscarawas	lower kittanning	2.4	41.7	47.9	10.4	4.8	12900	57	2.5
ohio	tuscarawas	lower kittanning	***	35.9	44.6	19.5	3.7	11390	0	1.0
ohio	tuscarawas	lower kittanning	***	35.7	44.9	19.4	4.9	11460	0	4.0
ohio	tuscarawas	lower kittanning	7.4	41.8	45.5	12.7	5.8	12680	56	3.0
ohio	tuscarawas	lower kittanning	6.9	43.1	47.6	9.3	4.6	13130	53	4.0
ohio	tuscarawas	lower kittanning	***	39.0	42.9	18.1	5.0	11680	0	3.0
ohio	tuscarawas	middle kittanning	***	41.6	49.4	9.0	3.9	13070	55	3.0
ohio	tuscarawas	middle kittanning	6.3	44.3	44.2	11.5	5.5	12680	0	4.5
ohio	tuscarawas	middle kittanning	9.3	36.5	46.1	17.4	4.8	11890	0	5.5
ohio	tuscarawas	middle kittanning	6.0	43.7	48.3	8.0	4.1	13370	45	3.5
ohio	tuscarawas	middle kittanning	6.6	40.4	49.1	10.5	3.8	12790	56	2.0
ohio	tuscarawas	brookville's kittanning	***	36.6	41.1	20.3	4.4	11250	0	3.0
ohio	vinton	middle kittanning	9.3	43.1	51.2	5.7	2.4	13400	43	2.5
ohio	vinton	clarion	9.0	38.9	42.0	19.1	4.8	11520	49	1.5
ohio	vinton	middle kittanning	8.2	40.8	55.5	3.7	1.1	13700	44	2.0
ohio	vinton	lower kittanning	6.3	40.3	46.1	13.6	5.4	12130	47	3.0
ohio	washington	weigs creek	5.1	41.3	44.5	12.2	5.7	12750	53	5.5
ohio	washington	weigs creek	4.1	39.4	38.4	22.2	4.8	11210	48	5.0
ohio	washington	weigs creek	4.2	36.4	41.5	22.1	6.9	11350	48	4.5

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
atoka				county								

bit												
lower hartshorne												
strippable	0.31	1.48	0.00	1.79	0.00	0.34	0.00	0.34	0.31	1.82	0.00	2.13
strip-1000	0.90	5.76	3.29	9.95	8.10	1.07	0.00	9.17	9.00	6.83	3.29	19.12
mcalester												
strippable	0.00	0.00	1.15	1.15	0.00	0.00	0.69	0.69	0.00	0.00	1.84	1.84
strip-1000	0.00	0.00	0.99	0.99	0.00	0.00	5.55	5.55	0.00	0.00	6.54	6.54

county total =	1.21	7.24	5.43	13.88	8.10	1.41	6.24	15.75	9.31	8.65	11.67	29.63

coal				county								

bit												
lower hartshorne												
1-2000	0.00	0.00	0.00	0.00	0.10	2.60	0.00	2.70	0.10	2.60	0.00	2.70
strippable	0.75	0.52	0.00	1.27	0.00	0.76	0.00	0.76	0.75	1.28	0.00	2.03
strip-1000	0.61	6.81	0.00	7.42	2.43	13.74	0.00	16.17	3.04	20.55	0.00	23.59
mcalester												
1-2000	0.00	0.00	36.41	36.41	0.00	0.00	84.92	84.92	0.00	0.00	121.33	121.33
2-3000	0.00	0.00	1.23	1.23	0.00	0.00	42.44	42.44	0.00	0.00	43.67	43.67
>3000	0.00	0.00	0.00	0.00	0.00	0.00	1.15	1.15	0.00	0.00	1.15	1.15
strippable	0.00	0.36	2.88	3.24	0.00	0.00	0.00	0.00	0.00	0.36	2.88	3.24
strip-1000	0.00	0.00	55.13	55.13	0.00	0.00	40.05	40.05	0.00	0.00	95.18	95.18

county total =	1.36	7.69	95.65	104.70	2.53	17.10	168.56	188.19	3.89	24.79	264.21	292.89

craig				county								

bit												
croweburg												
strippable	27.93	0.00	0.00	27.93	32.35	0.00	0.00	32.35	60.28	0.00	0.00	60.28
iron post												
strippable	24.42	0.00	0.00	24.42	10.86	0.00	0.00	10.86	35.28	0.00	0.00	35.28
mineral												
strippable	13.06	0.00	0.00	13.06	9.40	0.00	0.00	9.40	22.46	0.00	0.00	22.46
strip-1000	1.70	0.00	0.00	1.70	1.34	0.00	0.00	1.34	3.04	0.00	0.00	3.04

county total =	67.11	0.00	0.00	67.11	53.95	0.00	0.00	53.95	121.06	0.00	0.00	121.06

creek				county								

bit												
dawson												

strippable	1.11	0.00	0.00	1.11	3.75	0.00	0.00	3.75	4.86	0.00	0.00	4.86
strip-1000	0.36	0.00	0.00	0.36	8.82	0.00	0.00	8.82	9.18	0.00	0.00	9.18
county total =	1.47	0.00	0.00	1.47	12.57	0.00	0.00	12.57	14.04	0.00	0.00	14.04

haskell county

bit												
hartshorne												
1-2000	9.87	31.10	200.25	241.22	32.99	57.22	278.29	368.50	42.86	88.32	478.54	609.72
2-3000	0.00	2.20	0.02	2.22	0.93	0.00	26.45	27.38	0.93	2.20	26.47	29.60
strippable	0.00	0.00	2.01	2.01	0.00	0.00	0.00	0.00	0.00	0.00	2.01	2.01
strip-1000	33.05	52.72	155.38	241.15	94.32	65.76	46.41	206.49	127.37	118.48	201.79	447.64
lower hartshorne												
1-2000	0.00	0.00	0.42	0.42	0.00	11.46	0.00	11.46	0.00	11.46	0.42	11.88
2-3000	0.00	0.00	0.00	0.00	0.00	12.97	0.00	12.97	0.00	12.97	0.00	12.97
strippable	0.00	1.77	0.00	1.77	0.00	0.00	0.00	0.00	0.00	1.77	0.00	1.77
strip-1000	0.00	0.94	2.67	3.61	0.00	5.42	0.00	5.42	0.00	6.36	2.67	9.03
secor												
strippable	1.75	0.00	0.00	1.75	1.24	0.00	0.00	1.24	2.99	0.00	0.00	2.99
strip-1000	3.94	0.00	0.00	3.94	10.57	0.00	0.00	10.57	14.51	0.00	0.00	14.51
stigler												
1-2000	6.11	0.54	0.00	6.65	28.95	0.00	0.00	28.95	35.06	0.54	0.00	35.60
strippable	25.95	6.08	0.00	32.03	2.81	0.00	0.00	2.81	28.76	6.08	0.00	34.84
strip-1000	159.54	4.59	0.00	164.13	135.82	0.00	0.00	135.82	295.36	4.59	0.00	299.95
upper hartshorne												
strippable	0.37	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.37
strip-1000	0.63	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.63
county total =	241.21	99.94	360.75	701.90	307.63	152.83	351.15	811.61	548.84	252.77	711.90	1513.51

latimer county

bit												
lower hartshorne												
1-2000	0.00	5.37	39.91	45.28	0.00	2.37	30.35	32.72	0.00	7.74	70.26	78.00
2-3000	0.00	1.44	13.61	15.05	0.00	17.14	146.40	163.54	0.00	18.58	160.01	178.59
strippable	0.00	1.13	0.41	1.54	0.00	0.00	0.84	0.84	0.00	1.13	1.25	2.38
strip-1000	0.00	1.38	48.46	49.84	0.00	1.53	12.14	13.67	0.00	2.91	60.60	63.51
lower mcalester												
1-2000	0.10	0.67	0.00	0.77	25.43	12.50	0.00	37.93	25.53	13.17	0.00	38.70
2-3000	0.00	0.00	0.00	0.00	0.00	7.60	0.00	7.60	0.00	7.60	0.00	7.60
strippable	1.89	1.71	0.00	3.60	2.06	0.95	0.00	3.01	3.95	2.66	0.00	6.61
strip-1000	29.41	26.70	0.00	56.11	48.13	39.21	0.00	87.34	77.54	65.91	0.00	143.45
upper hartshorne												
1-2000	0.75	12.76	8.12	21.63	7.07	4.25	20.70	32.02	7.82	17.01	28.82	53.65
2-3000	0.00	5.85	2.61	8.46	3.68	38.31	57.58	99.57	3.68	44.16	60.19	108.03
strippable	0.00	0.00	0.00	0.00	0.15	1.10	0.00	1.25	0.15	1.10	0.00	1.25
strip-1000	1.75	10.82	25.14	37.71	6.00	0.21	4.23	10.44	7.75	11.03	29.37	48.15
upper mcalester												
1-2000	0.09	0.00	0.00	0.09	15.10	2.50	0.00	17.60	15.19	2.50	0.00	17.69
strippable	8.18	0.37	0.00	8.55	1.79	0.10	0.00	1.89	9.97	0.47	0.00	10.44
strip-1000	20.49	6.65	0.00	27.14	54.46	2.37	0.00	56.83	74.95	9.02	0.00	83.97
county total =	62.66	74.85	138.26	275.77	163.87	130.14	272.24	566.25	226.53	204.99	410.50	842.02

le flore county

bit
cavalal

1-2000	0.15	0.40	0.00	0.55	27.90	8.05	0.00	35.95	28.05	8.45	0.00	36.50
2-3000	0.00	0.00	0.00	0.00	9.80	0.00	0.00	9.80	9.80	0.00	0.00	9.80
strippable	2.16	0.66	0.00	2.82	1.42	1.15	0.00	2.57	3.58	1.81	0.00	5.39
strip-1000	13.03	9.62	0.00	22.65	19.78	18.40	0.00	38.18	32.81	28.02	0.00	60.83
coals above cavanal												
1-2000	0.11	0.00	0.00	0.11	15.48	0.00	0.00	15.48	15.59	0.00	0.00	15.59
2-3000	0.00	0.00	0.00	0.00	4.09	0.00	0.00	4.09	4.09	0.00	0.00	4.09
strippable	1.19	0.24	0.00	1.43	0.54	0.01	0.00	0.55	1.73	0.25	0.00	1.98
strip-1000	6.86	0.17	0.00	7.03	11.18	0.00	0.00	11.18	18.04	0.17	0.00	18.21
coals above stigler												
1-2000	0.00	0.00	0.00	0.00	1.96	0.00	0.00	1.96	1.96	0.00	0.00	1.96
strippable	4.77	0.00	0.00	4.77	4.17	0.00	0.00	4.17	8.94	0.00	0.00	8.94
strip-1000	1.43	0.00	0.00	1.43	9.28	0.00	0.00	9.28	10.71	0.00	0.00	10.71
hartshorne												
1-2000	0.00	41.03	12.57	53.60	23.58	34.19	67.62	125.39	23.58	75.22	80.19	178.99
2-3000	0.00	0.00	0.35	0.35	0.00	0.00	13.96	13.96	0.00	0.00	14.31	14.31
strippable	1.73	2.83	15.02	19.58	0.00	0.00	2.70	2.70	1.73	2.83	17.72	22.28
strip-1000	10.37	61.10	113.44	184.91	20.38	44.68	17.24	82.30	30.75	105.78	130.68	267.21
lower hartshorne												
1-2000	0.00	8.25	75.58	83.83	0.00	32.84	178.42	211.26	0.00	41.09	254.00	295.09
2-3000	0.00	0.00	6.54	6.54	0.00	12.16	111.62	123.78	0.00	12.16	118.16	130.32
>3000	0.00	0.00	0.00	0.00	0.00	0.00	22.07	22.07	0.00	0.00	22.07	22.07
strippable	0.00	7.95	5.71	13.66	0.00	2.68	0.57	3.25	0.00	10.63	6.28	16.91
strip-1000	0.29	49.11	151.44	200.84	0.00	44.18	48.17	92.35	0.29	93.29	199.61	293.19
lower mcalester												
1-2000	0.25	0.00	0.00	0.25	6.12	0.45	0.00	6.57	6.37	0.45	0.00	6.82
2-3000	0.00	0.00	0.00	0.00	2.16	0.00	0.00	2.16	2.16	0.00	0.00	2.16
strippable	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.07
strip-1000	1.55	0.00	0.00	1.55	2.70	4.11	0.00	6.81	4.25	4.11	0.00	8.36
lower witteville												
1-2000	0.00	6.53	0.00	6.53	2.37	11.24	0.00	13.61	2.37	17.77	0.00	20.14
strippable	0.05	14.60	0.00	14.65	3.25	11.69	0.00	14.94	3.30	26.29	0.00	29.59
strip-1000	0.00	2.21	0.00	2.21	0.00	0.00	0.00	0.00	0.00	2.21	0.00	2.21
secor												
1-2000	0.02	4.67	6.39	11.08	5.33	18.30	11.95	35.58	5.35	22.97	18.34	46.66
2-3000	0.00	0.29	0.04	0.33	0.26	19.95	16.29	36.50	0.26	20.24	16.33	36.83
strippable	1.50	1.95	0.04	3.49	0.00	1.12	0.00	1.12	1.50	3.07	0.04	4.61
strip-1000	2.91	12.66	12.34	27.91	4.45	19.99	7.79	32.23	7.36	32.65	20.13	60.14
stigler												
1-2000	0.00	0.00	0.00	0.00	19.12	0.00	0.00	19.12	19.12	0.00	0.00	19.12
strippable	3.23	0.00	0.00	3.23	2.55	0.00	0.00	2.55	5.78	0.00	0.00	5.78
strip-1000	11.11	0.00	0.00	11.11	31.31	0.00	0.00	31.31	42.42	0.00	0.00	42.42
upper hartshorne												
1-2000	6.14	18.11	0.00	24.25	20.92	42.96	0.00	63.88	27.06	61.07	0.00	88.13
2-3000	0.14	8.10	0.00	8.24	10.27	8.24	0.00	18.51	10.41	16.34	0.00	26.75
>3000	0.00	0.00	0.00	0.00	0.00	8.65	0.00	8.65	0.00	8.65	0.00	8.65
strippable	0.43	6.88	2.53	9.84	0.02	0.93	0.42	1.37	0.45	7.81	2.95	11.21
strip-1000	11.79	63.35	9.16	84.30	8.63	33.30	1.40	43.33	20.42	96.65	10.56	127.63
upper mcalester												
1-2000	0.00	0.00	0.00	0.00	4.62	0.00	0.00	4.62	4.62	0.00	0.00	4.62
2-3000	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.72	0.72	0.00	0.00	0.72
strippable	0.09	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.09
strip-1000	1.33	0.00	0.00	1.33	4.94	0.00	0.00	4.94	6.27	0.00	0.00	6.27

county total =	82.63	320.71	411.15	814.49	279.37	379.27	500.22	1158.86	362.00	699.98	911.37	1973.35
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mayes

county

bit
weir-pittsburg

strippable	4.01	0.00	0.00	4.01	0.00	0.00	0.00	0.00	4.01	0.00	0.00	4.01
county total =	4.01	0.00	0.00	4.01	0.00	0.00	0.00	0.00	4.01	0.00	0.00	4.01

mcintosh

county

bit

croweburg												
strippable	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.77	0.77	0.00	0.00	0.77
strip-1000	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.96	0.96	0.00	0.00	0.96
secor												
strippable	7.13	1.97	0.00	9.10	0.37	8.42	0.00	8.79	7.50	10.39	0.00	17.89
strip-1000	0.85	2.01	0.00	2.86	0.00	7.67	0.00	7.67	0.85	9.68	0.00	10.53
stigler												
strippable	0.83	0.00	0.00	0.83	0.74	0.00	0.00	0.74	1.57	0.00	0.00	1.57
strip-1000	1.00	0.00	0.00	1.00	14.03	0.00	0.00	14.03	15.03	0.00	0.00	15.03
county total =	9.81	3.98	0.00	13.79	16.87	16.09	0.00	32.96	26.68	20.07	0.00	46.75

muskogee

county

bit

secor												
strippable	1.51	0.00	0.00	1.51	3.74	0.00	0.00	3.74	5.25	0.00	0.00	5.25
strip-1000	0.51	0.00	0.00	0.51	3.96	0.00	0.00	3.96	4.47	0.00	0.00	4.47
stigler												
strippable	13.49	0.00	0.00	13.49	3.87	0.00	0.00	3.87	17.36	0.00	0.00	17.36
strip-1000	9.97	0.00	0.00	9.97	24.16	0.00	0.00	24.16	34.13	0.00	0.00	34.13
county total =	25.48	0.00	0.00	25.48	35.73	0.00	0.00	35.73	61.21	0.00	0.00	61.21

nowata

county

bit

iron post												
strippable	5.77	0.00	0.00	5.77	0.28	0.00	0.00	0.28	6.05	0.00	0.00	6.05
county total =	5.77	0.00	0.00	5.77	0.28	0.00	0.00	0.28	6.05	0.00	0.00	6.05

okfuskee

county

bit

croweburg												
1-2000	0.00	0.00	0.00	0.00	14.06	0.00	0.00	14.06	14.06	0.00	0.00	14.06
strippable	3.85	0.00	0.00	3.85	2.49	0.00	0.00	2.49	6.34	0.00	0.00	6.34
strip-1000	3.67	4.98	0.00	8.65	25.80	25.12	0.00	50.92	29.47	30.10	0.00	59.57
county total =	7.52	4.98	0.00	12.50	42.35	25.12	0.00	67.47	49.87	30.10	0.00	79.97

okmulgee

county

bit

croweburg												
strippable	11.04	9.25	0.00	20.29	0.87	1.28	0.00	2.15	11.91	10.53	0.00	22.44
strip-1000	7.95	138.43	1.19	147.57	19.18	114.74	19.78	153.70	27.13	253.17	20.97	301.27
eram												
strippable	0.00	3.40	0.00	3.40	0.00	2.80	0.00	2.80	0.00	6.20	0.00	6.20
strip-1000	0.00	2.48	0.00	2.48	0.00	7.50	0.00	7.50	0.00	9.98	0.00	9.98
morris												
strippable	7.46	0.00	0.00	7.46	1.72	0.00	0.00	1.72	9.18	0.00	0.00	9.18

	strip-1000	2.65	0.00	0.00	2.65	18.37	0.00	0.00	18.37	21.02	0.00	0.00	21.02
county total =		29.10	153.56	1.19	183.85	40.14	126.32	19.78	186.24	69.24	279.88	20.97	370.09
pittsburg county													
bit													
cavalan													
1-2000		0.89	0.00	0.00	0.89	22.35	0.00	0.00	22.35	23.24	0.00	0.00	23.24
strippable		1.00	0.00	0.00	1.00	1.26	0.00	0.00	1.26	2.26	0.00	0.00	2.26
strip-1000		5.23	0.00	0.00	5.23	15.61	0.00	0.00	15.61	20.84	0.00	0.00	20.84
coals above secor													
strippable		2.88	0.00	0.00	2.88	0.75	0.00	0.00	0.75	3.63	0.00	0.00	3.63
strip-1000		5.36	0.00	0.00	5.36	0.00	0.00	0.00	0.00	5.36	0.00	0.00	5.36
coals below secor													
strippable		2.26	0.00	0.00	2.26	0.00	0.00	0.00	0.00	2.26	0.00	0.00	2.26
strip-1000		0.13	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.13
lower hartshorne													
1-2000		0.00	7.79	42.35	50.14	0.00	15.14	82.15	97.29	0.00	22.93	124.50	147.43
2-3000		0.00	11.77	2.43	14.20	0.00	35.70	68.40	104.10	0.00	47.47	70.83	118.30
>3000		0.00	0.00	0.00	0.00	0.00	32.03	10.64	42.67	0.00	32.03	10.64	42.67
strippable		0.00	0.70	1.57	2.27	0.00	0.00	0.55	0.55	0.00	0.70	2.12	2.82
strip-1000		0.00	6.19	39.45	45.64	0.00	7.28	11.32	18.60	0.00	13.47	50.77	64.24
mcalester													
1-2000		1.45	64.70	7.69	73.84	0.39	110.90	26.74	138.03	1.84	175.60	34.43	211.87
2-3000		0.00	8.67	1.18	9.85	0.00	147.39	0.00	147.39	0.00	156.06	1.18	157.24
>3000		0.00	0.00	0.00	0.00	0.00	18.57	0.00	18.57	0.00	18.57	0.00	18.57
strippable		0.00	2.05	0.06	2.11	0.00	0.00	0.00	0.00	0.00	2.05	0.06	2.11
strip-1000		0.95	49.76	40.79	91.50	0.95	13.17	24.42	38.54	1.90	62.93	65.21	130.04
secor													
1-2000		3.05	0.00	0.00	3.05	8.31	9.70	0.00	18.01	11.36	9.70	0.00	21.06
strippable		6.78	14.17	0.00	20.95	4.89	3.84	0.00	8.73	11.67	18.01	0.00	29.68
strip-1000		28.70	35.66	0.00	64.36	87.72	39.16	0.00	126.88	116.42	74.82	0.00	191.24
upper hartshorne													
1-2000		1.40	14.00	2.79	18.19	0.70	60.47	0.00	61.17	2.10	74.47	2.79	79.36
2-3000		1.09	4.72	0.00	5.81	18.39	41.19	0.00	59.58	19.48	45.91	0.00	65.39
>3000		0.00	5.07	0.00	5.07	0.00	0.00	0.00	0.00	0.00	5.07	0.00	5.07
strippable		0.00	0.51	0.00	0.51	1.15	0.00	0.00	1.15	1.15	0.51	0.00	1.66
strip-1000		0.83	9.50	1.17	11.50	0.60	15.18	0.12	15.90	1.43	24.68	1.29	27.40
county total =		62.00	235.26	139.48	436.74	163.07	549.72	224.34	937.13	225.07	784.98	363.82	1373.87
rogers county													
bit													
croweburg													
strippable		52.04	0.00	0.00	52.04	45.31	0.00	0.00	45.31	97.35	0.00	0.00	97.35
strip-1000		16.44	0.00	0.00	16.44	35.07	0.00	0.00	35.07	51.51	0.00	0.00	51.51
dawson													
strippable		20.53	0.00	0.00	20.53	6.48	0.00	0.00	6.48	27.01	0.00	0.00	27.01
strip-1000		0.00	0.00	0.00	0.00	24.79	0.00	0.00	24.79	24.79	0.00	0.00	24.79
iron post													
strippable		10.62	0.00	0.00	10.62	12.49	0.00	0.00	12.49	23.11	0.00	0.00	23.11
strip-1000		0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.83	0.83	0.00	0.00	0.83
mineral													
strippable		0.51	0.00	0.00	0.51	0.52	0.00	0.00	0.52	1.03	0.00	0.00	1.03
rowe													
strippable		3.32	0.90	0.00	4.22	2.14	0.00	0.00	2.14	5.46	0.90	0.00	6.36
strip-1000		2.78	0.00	0.00	2.78	0.00	0.00	0.00	0.00	2.78	0.00	0.00	2.78
wehr-pittsburg													

total													
strippable	331.83	83.51	31.38	446.72	194.54	37.63	5.77	237.94	526.37	121.14	37.15	684.66	
strip-1000	431.03	563.80	660.04	1654.87	873.04	531.19	238.62	1642.85	1304.07	1094.99	898.66	3297.72	
1-2000	30.38	215.92	432.48	678.78	282.85	437.14	781.14	1501.13	313.23	653.06	1213.62	2179.91	
2-3000	1.23	43.04	28.01	72.28	50.30	340.65	483.14	874.09	51.53	383.69	511.15	946.37	
>3000	0.00	5.07	0.00	5.07	0.00	59.25	33.86	93.11	0.00	64.32	33.86	98.18	

grand total =	794.47	911.34	1151.91	2857.72	1400.73	1405.86	1542.53	4349.12	2195.20	2317.20	2694.44	7206.84	
=====													

total tonnage of identified coal resources in oklahoma

7206.84

resource figures taken from:

source	year	base year of resource
okgs-ozarks reg comm	1974	1974

average analyses of coal in oklahoma

rank	proximate analysis (percent)					ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				

coal county													

bit													
mc alester	7.4	40.8	47.4	11.8	4.8	70.1	1.7	10.4	4.0	12166	2135	55	
mc alester & stigler	7.8	43.2	47.0	9.8	0.0	0.0	0.0	0.0	4.0	12400	2320	1	
county average	7.4	40.9	47.4	11.7	4.8	70.1	1.7	10.4	4.0	12170	2140	56	

craig county													

bit													
croweburg	8.7	33.1	55.6	11.3	0.0	0.0	0.0	0.0	0.6	13082	2460	11	
mineral	5.3	37.4	48.8	13.8	0.0	0.0	0.0	0.0	4.5	12890	2300	1	
paupaw	5.2	39.5	50.3	10.1	0.0	0.0	0.0	0.0	5.6	13372	2172	13	
sequoyah	5.5	36.1	48.8	15.1	0.0	0.0	0.0	0.0	6.0	12470	1950	1	
uncorrelated	5.2	38.4	49.9	11.7	0.0	0.0	0.0	0.0	4.2	13071	2001	6	
county average	6.4	36.9	52.0	11.1	0.0	0.0	0.0	0.0	3.6	13173	2238	32	

haskell county													

bit													
low & up hartshorne	4.9	22.8	64.8	12.4	4.4	79.2	1.8	4.0	0.8	13483	2182	6	
lower hartshorne	3.1	21.3	71.5	7.3	4.6	83.4	1.8	2.6	1.0	14352	2242	9	
mc alester	3.3	25.3	69.7	5.0	4.9	83.9	1.8	3.9	0.5	14800	2280	1	
stigler	3.0	27.4	67.2	5.4	4.9	82.9	1.9	4.3	1.1	14622	2163	11	
county average	3.4	24.3	68.2	7.6	4.7	82.8	1.8	3.5	1.0	14285	2201	27	

latimer county													

bit													
lower hartshorne	4.0	36.5	55.1	8.4	5.4	80.8	2.1	6.5	2.0	13714	2202	11	
mc alester	3.4	31.8	58.8	9.4	5.1	77.3	1.7	4.1	3.0	13840	2157	9	
upper hartshorne	3.5	38.2	56.1	5.7	0.0	0.0	0.0	0.0	1.3	14082	2141	15	
county average	3.6	36.0	56.5	7.5	5.3	79.7	2.0	5.7	2.0	13904	2160	35	

le flore county													

bit													
cavanal	1.9	23.1	67.5	9.4	4.5	80.6	1.6	2.2	2.6	14019	2404	31	
lower hartshorne	2.6	17.9	73.7	8.4	4.4	85.6	1.8	2.2	1.2	14211	2272	118	
upper hartshorne	2.6	18.5	72.5	9.0	4.3	81.3	1.7	3.0	0.7	13995	2300	18	

county average	2.5	18.9	72.5	8.6	4.4	84.4	1.8	2.3	1.4	14152	2300	167

muskogee						county						

bit												
stigler	2.5	29.2	60.4	10.4	4.9	80.2	1.8	4.4	4.0	13761	2177	21
county average	2.5	29.2	60.4	10.4	4.9	80.2	1.8	4.4	4.0	13761	2177	21

okmulgee						county						

bit												
croweburg	5.7	37.0	56.7	6.3	5.2	77.5	1.9	7.7	2.0	13815	2060	109
county average	5.7	37.0	56.7	6.3	5.2	77.5	1.9	7.7	2.0	13815	2060	109

pittsburg						county						

bit												
lower hartshorne	4.2	38.2	52.2	9.5	5.3	77.6	1.9	6.1	2.7	13426	2206	20
mc alester	3.6	36.1	55.8	8.1	5.2	79.5	2.0	7.8	0.8	13584	2228	35
county average	3.8	36.9	54.5	8.6	5.2	78.9	1.9	7.2	1.5	13526	2221	55

rogers						county						

bit												
croweburg	6.5	34.4	59.2	6.4	5.2	79.1	1.9	7.4	0.7	13899	2283	84
dawson	4.9	38.3	48.0	13.6	4.9	69.5	1.7	6.3	4.6	12538	1991	16
iron post	5.9	34.8	59.4	5.8	0.0	0.0	0.0	0.0	0.9	13920		1
various	5.0	39.4	46.1	14.5	0.0	0.0	0.0	0.0	3.8	12490	1990	1
county average	6.2	35.0	57.3	7.6	5.1	75.9	1.8	7.0	1.3	13672	2229	102

sequoyah						county						

bit												
stigler	2.8	21.3	72.2	6.5	4.4	80.9	1.7	3.2	0.6	14532	2092	4
county average	2.8	21.3	72.2	6.5	4.4	80.9	1.7	3.2	0.6	14532	2092	4

tulsa						county						

bit												
croweburg	4.6	38.1	52.6	9.4	4.8	69.1	1.8	7.4	3.1	13365	2000	59
dawson	5.4	36.5	50.1	13.4	0.0	0.0	0.0	0.0	4.3	12776		3
county average	4.7	38.0	52.4	9.6	4.8	69.1	1.8	7.4	3.1	13336	2000	62

wagoner						county						

bit												
croweburg	5.1	34.6	58.3	7.1	5.5	82.7	2.0	7.0	0.7	13856	2176	26

county average	5.1	34.6	58.3	7.1	5.5	82.7	2.0	7.0	0.7	13856	2176	26
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Oklahoma

state	county	user	nit	stur	vol	wt	fixed	c	ash	sulfur	otu	hg	ilo	ts	ilo
oklahoma	craig	croweburg	9.3	29.6	45.2	25.2	0.6	10600	n					4.5	
oklahoma	craig	croweburg	***	31.1	55.7	13.2	0.7	12850	0					6.0	
oklahoma	craig	uncorrelated	5.2	35.3	49.7	15.0	6.2	12580	63					8.5	
oklahoma	craig	uncorrelated	3.7	44.4	47.1	8.5	4.4	13510	59					8.0	
oklahoma	craig	sequoyah	5.5	36.1	48.8	15.1	6.0	12470	57					8.5	
oklahoma	craig	paupau	5.0	39.0	51.2	9.8	5.5	13360	61					6.5	
oklahoma	craig	paupau	8.9	36.8	48.6	14.6	7.0	12610	0					7.5	
oklahoma	craig	paupau	6.9	36.6	50.8	12.6	6.9	12430	0					6.5	
oklahoma	haskell	stigler	2.4	24.3	69.3	6.4	1.5	14560	**					9.0	
oklahoma	haskell	stigler	3.0	30.4	64.5	5.1	1.2	14650	81					9.0	
oklahoma	haskell	stigler	3.1	26.2	69.7	4.1	0.5	14920	95					9.0	
oklahoma	haskell	stigler	1.8	27.1	67.8	5.1	0.4	14540	0					9.0	
oklahoma	latimer	mc alester	4.7	31.0	58.7	10.3	3.5	13760	86					9.0	
oklahoma	latimer	upper hartshorne	2.4	37.5	56.5	6.0	1.6	14130	0					4.5	
oklahoma	latimer	upper hartshorne	4.6	39.4	55.9	4.7	1.2	14210	52					4.5	
oklahoma	le flore	lower hartshorne	4.0	17.4	76.2	6.4	1.0	14600	0					9.0	
oklahoma	le flore	cavanal	1.7	21.8	66.2	12.0	3.2	13550	**					9.0	
oklahoma	le flore	cavanal	2.0	21.8	67.3	10.9	3.2	13720	**					9.0	
oklahoma	le flore	upper hartshorne	9.1	17.6	71.6	10.8	0.6	13680	**					6.5	
oklahoma	okmulgee	croweburg	9.6	33.6	54.2	12.2	1.7	12720	0					3.5	
oklahoma	rogers	croweburg	7.2	33.6	53.7	12.7	0.7	12830	0					6.0	
oklahoma	rogers	croweburg	9.7	31.7	58.1	10.7	0.8	13240	0					6.0	
oklahoma	rogers	croweburg	***	33.4	57.7	8.9	0.6	13220	0					6.0	
oklahoma	rogers	croweburg	8.2	31.2	58.8	8.0	0.7	13650	0					6.5	
oklahoma	rogers	croweburg	7.4	35.5	58.4	6.1	0.5	13980	0					4.5	
oklahoma	rogers	croweburg	9.9	32.3	55.0	12.7	0.8	12450	0					4.0	
oklahoma	rogers	croweburg	***	31.8	59.2	9.0	0.9	13520	0					5.5	
oklahoma	sequoyah	stigler	4.0	21.4	69.3	9.3	0.5	13990	0					9.0	

average analyses of coal in oregon

=====														
		proximate analysis (percent)					ultimate analysis (percent)							max. no.
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen	sulfur (percent)	btu	ash sof temp(f)	analyses averaged	
=====														
		coos				county								

bit														
	beaver hill	17.4	41.7	48.9	9.5	5.0	68.3	1.6	16.4	0.4	11680	2095	.2	
	uncorrelated	17.6	41.9	51.5	6.6	4.9	68.2	1.8	17.9	0.6	11910	2320	1	

	county average	17.4	41.7	49.7	8.5	4.9	68.3	1.7	17.2	0.5	11756	2170	3	

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National Coal Resources Data System

U.S. Geological Survey

identified coal resources in pennsylvania

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
allegheeny county												
bit												
lower kittanning												
0-2000	8.59	15.06	0.26	23.91	0.00	0.00	0.00	0.00	8.59	15.06	0.26	23.91
middle kittanning												
0-2000	26.02	14.24	0.00	40.26	0.00	0.00	0.00	0.00	26.02	14.24	0.00	40.26
pittsburgh												
0-2000	0.00	0.00	69.99	69.99	0.00	0.00	0.00	0.00	0.00	0.00	69.99	69.99
redstone												
0-2000	3.21	51.88	33.62	88.71	0.00	0.00	0.00	0.00	3.21	51.88	33.62	88.71
upper freeport												
0-2000	26.10	54.33	528.75	609.18	0.00	0.00	0.00	0.00	26.10	54.33	528.75	609.18
county total =	63.92	135.51	632.62	832.05	0.00	0.00	0.00	0.00	63.92	135.51	632.62	832.05
armstrong county												
bit												
clarion												
0-2000	0.00	6.78	0.00	6.78	0.00	0.00	0.00	0.00	0.00	6.78	0.00	6.78
lower freeport												
0-2000	72.77	86.53	123.24	282.54	0.00	0.00	0.00	0.00	72.77	86.53	123.24	282.54
lower kittanning												
0-2000	39.32	407.93	109.54	556.79	0.00	0.00	0.00	0.00	39.32	407.93	109.54	556.79
middle kittanning												
0-2000	22.36	4.70	3.08	30.14	0.00	0.00	0.00	0.00	22.36	4.70	3.08	30.14
pittsburgh												
0-2000	0.00	0.00	10.50	10.50	0.00	0.00	0.00	0.00	0.00	0.00	10.50	10.50
upper freeport												
0-2000	107.18	359.09	111.89	578.16	0.00	0.00	0.00	0.00	107.18	359.09	111.89	578.16
upper kittanning												
0-2000	36.57	17.13	1.49	55.19	0.00	0.00	0.00	0.00	36.57	17.13	1.49	55.19
county total =	278.20	882.16	359.74	1520.10	0.00	0.00	0.00	0.00	278.20	882.16	359.74	1520.10
beaver county												
bit												
brush creek												
strippable	0.46	1.21	0.00	1.67	0.05	0.03	0.00	0.08	0.51	1.24	0.00	1.75
strip-1000	2.78	2.98	0.00	5.76	7.67	3.18	0.00	10.85	10.45	6.16	0.00	16.61
lower freeport												
strippable	5.40	11.41	0.00	16.81	0.40	0.07	0.00	0.47	5.80	11.48	0.00	17.28
strip-1000	134.58	48.73	0.00	183.31	194.21	26.16	0.00	220.37	328.79	74.89	0.00	403.68

lower kittanning													
strippable	13.55	9.69	0.00	23.24	0.11	0.00	0.00	0.11	13.66	9.69	0.00	23.35	
strip-1000	324.04	82.43	0.32	406.79	367.37	39.46	0.00	406.83	691.41	121.89	0.32	813.62	
mahoning													
strippable	2.55	4.23	0.98	7.76	0.00	0.00	0.00	0.00	2.55	4.23	0.98	7.76	
strip-1000	0.07	5.20	0.06	5.33	0.00	0.00	0.00	0.00	0.07	5.20	0.06	5.33	
middle kittanning													
strippable	4.87	5.48	0.00	10.35	0.00	0.00	0.00	0.00	4.87	5.48	0.00	10.35	
strip-1000	280.25	54.83	1.10	336.18	282.98	0.76	0.00	283.74	563.23	55.59	1.10	619.92	
pittsburgh													
strippable	0.00	0.00	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29	
upper freeport													
strippable	1.65	44.91	39.64	86.20	0.00	0.04	0.00	0.04	1.65	44.95	39.64	86.24	
strip-1000	171.67	178.01	46.16	395.84	54.22	59.08	0.00	113.30	225.89	237.09	46.16	509.14	
upper kittanning													
strip-1000	0.00	0.00	1.21	1.21	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	
county total =	941.87	449.11	89.76	1480.74	907.01	128.78	0.00	1035.79	1848.88	577.89	89.76	2516.53	

bit

county total =	949.95	1046.31	117.67	2113.93	1190.18	362.73	11.46	1563.87	2140.13	1408.54	129.13	3677.80
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bit													
brookville													
0-2000	0.00	0.44	0.36	0.80	0.00	0.00	0.00	0.00	0.00	0.44	0.36	0.80	
clarion													
0-2000	0.00	0.00	1.63	1.63	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.63	
lower freeport													
0-2000	141.97	343.84	136.42	622.23	0.00	0.00	0.00	0.00	141.97	343.84	136.42	622.23	
lower kittanning													
0-2000	61.09	253.99	396.19	711.27	0.00	0.00	0.00	0.00	61.09	253.99	396.19	711.27	
middle kittanning													
0-2000	76.31	42.04	12.34	130.69	0.00	0.00	0.00	0.00	76.31	42.04	12.34	130.69	
upper freeport													
0-2000	117.06	230.68	68.74	416.48	0.00	0.00	0.00	0.00	117.06	230.68	68.74	416.48	
upper kittanning													
0-2000	100.92	283.80	138.87	523.59	0.00	0.00	0.00	0.00	100.92	283.80	138.87	523.59	
county total =	497.35	1154.79	754.55	2406.69	0.00	0.00	0.00	0.00	497.35	1154.79	754.55	2406.69	

clarion

county

bit													
brookville													
0-2000	38.82	44.58	29.79	113.19	0.00	0.00	0.00	0.00	38.82	44.58	29.79	113.19	
lower clarion													
0-2000	209.01	263.17	34.22	506.40	0.00	0.00	0.00	0.00	209.01	263.17	34.22	506.40	
lower freeport													
0-2000	2.36	2.96	4.30	9.62	0.00	0.00	0.00	0.00	2.36	2.96	4.30	9.62	
lower kittanning													
0-2000	50.70	254.28	18.32	323.30	0.00	0.00	0.00	0.00	50.70	254.28	18.32	323.30	
middle kittanning													
0-2000	32.08	12.14	0.00	44.22	0.00	0.00	0.00	0.00	32.08	12.14	0.00	44.22	
upper clarion													
0-2000	84.25	91.72	17.81	193.78	0.00	0.00	0.00	0.00	84.25	91.72	17.81	193.78	
upper freeport													
0-2000	1.92	7.48	9.67	19.07	0.00	0.00	0.00	0.00	1.92	7.48	9.67	19.07	
county total =	419.14	676.33	114.11	1209.58	0.00	0.00	0.00	0.00	419.14	676.33	114.11	1209.58	

clearfield

county

bit													
brookville													
0-2000	118.73	66.35	148.51	333.59	0.00	0.00	0.00	0.00	118.73	66.35	148.51	333.59	
lower freeport													
0-2000	132.75	154.15	51.90	338.80	0.00	0.00	0.00	0.00	132.75	154.15	51.90	338.80	
lower kittanning													
0-2000	152.45	315.29	114.87	582.61	0.00	0.00	0.00	0.00	152.45	315.29	114.87	582.61	
middle kittanning													
0-2000	136.51	100.08	6.98	243.57	0.00	0.00	0.00	0.00	136.51	100.08	6.98	243.57	
upper freeport													
0-2000	113.31	62.78	6.74	182.83	0.00	0.00	0.00	0.00	113.31	62.78	6.74	182.83	
upper kittanning													
0-2000	77.98	119.94	29.37	227.29	0.00	0.00	0.00	0.00	77.98	119.94	29.37	227.29	
county total =	731.73	818.59	358.37	1908.69	0.00	0.00	0.00	0.00	731.73	818.59	358.37	1908.69	

fayette

county

bit
brookville-clarion

0-2000		146.30	83.74	7.83	237.87	0.00	0.00	0.00	0.00	146.30	83.74	7.83	237.87
pittsburgh													
0-2000		0.00	9.86	14.54	24.40	0.00	0.00	0.00	0.00	0.00	9.86	14.54	24.40
redstone													
0-2000		0.00	2.29	4.44	6.73	0.00	0.00	0.00	0.00	0.00	2.29	4.44	6.73
upper freeport													
0-2000		68.96	141.83	90.79	301.58	0.00	0.00	0.00	0.00	68.96	141.83	90.79	301.58
upper kittanning													
0-2000		88.33	263.58	234.13	586.04	0.00	0.00	0.00	0.00	88.33	263.58	234.13	586.04
county total =		507.31	799.19	552.19	1858.69	0.00	0.00	0.00	0.00	507.31	799.19	552.19	1858.69
		washington				county							
bit													
pittsburgh													
0-2000		0.97	2.54	3491.70	3495.21	0.00	0.00	0.00	0.00	0.97	2.54	3491.70	3495.21
redstone													
0-2000		1.69	57.28	0.65	59.62	0.00	0.00	0.00	0.00	1.69	57.28	0.65	59.62
upper freeport													
0-2000		5.71	12.33	174.97	193.01	0.00	0.00	0.00	0.00	5.71	12.33	174.97	193.01
washington													
0-2000		7.02	2.55	54.74	64.31	0.00	0.00	0.00	0.00	7.02	2.55	54.74	64.31
waynesburg													
0-2000		33.95	120.74	214.00	368.69	0.00	0.00	0.00	0.00	33.95	120.74	214.00	368.69
county total =		49.34	195.44	3936.06	4180.84	0.00	0.00	0.00	0.00	49.34	195.44	3936.06	4180.84
		westmoreland				county							
bit													
lower freeport													
0-2000		0.22	1.40	0.00	1.62	0.00	0.00	0.00	0.00	0.22	1.40	0.00	1.62
lower kittanning													
0-2000		6.47	15.43	8.79	30.69	0.00	0.00	0.00	0.00	6.47	15.43	8.79	30.69
pittsburgh													
0-2000		0.00	0.00	192.20	192.20	0.00	0.00	0.00	0.00	0.00	0.00	192.20	192.20
redstone													
0-2000		11.07	45.86	27.53	84.46	0.00	0.00	0.00	0.00	11.07	45.86	27.53	84.46
upper freeport													
0-2000		5.21	208.60	394.15	607.96	0.00	0.00	0.00	0.00	5.21	208.60	394.15	607.96
waynesburg													
0-2000		0.79	0.44	4.07	5.30	0.00	0.00	0.00	0.00	0.79	0.44	4.07	5.30
county total =		23.76	271.73	626.74	922.23	0.00	0.00	0.00	0.00	23.76	271.73	626.74	922.23
=====													
overburden													
subtotal													
strippable		256.76	389.18	70.56	716.50	51.88	17.29	2.87	72.04	308.64	406.47	73.43	788.54
strip-1000		1928.58	1319.80	147.13	3395.51	2237.58	545.37	9.35	2792.30	4166.16	1865.17	156.48	6187.81
0-2000		3500.19	6992.80	14560.59	25053.58	0.00	0.00	0.00	0.00	3500.19	6992.80	14560.59	25053.58
total =		5685.53	8701.78	14778.28	29165.59	2289.46	562.66	12.22	2864.34	7974.99	9264.44	14790.50	32029.93
=====													
overburden													
total													

strippable	256.76	389.18	70.56	716.50	51.88	17.29	2.87	72.04	308.64	406.47	73.43	788.54
strip-1000	1928.58	1319.80	147.13	3395.51	2237.58	545.37	9.35	2792.30	4166.16	1865.17	156.48	6187.81
0-2000	3500.19	6992.80	14560.59	25053.58	0.00	0.00	0.00	0.00	3500.19	6992.80	14560.59	25053.58

grand total =	5685.53	8701.78	14778.28	29165.59	2289.46	562.66	12.22	2864.34	7974.99	9264.44	14790.50	32029.93

tonnage not included: 38978.19
because:
thickness = unclassified : 38978.19
reliability = unclassified : 38978.19

total tonnage of identified coal resources in pennsylvania 71008.12

resource figures taken from:

source	year	base year of resource
usgs bull 1143a	1963	original
usgs bull 1143b	1964	original
usgs bull 1143c	1971	original
usbm rept inv 5109	1955	1954
usbm rept inv 4803	1951	1950
usbm rept inv 4801	1951	1949
usbm rept inv 4807	1951	1950
usbm rept inv 5231	1956	1952
usbm rept inv 4998	1953	1952
usbm rept inv 5166	1955	1953
usbm rept inv 4734	1950	1948
usbm rept inv 5003	1953	1953
penn gs bull m6	1928	1928
usbm rept inv 5143	1955	1954
usbm rept inv 4840	1952	1950
usbm rept inv 4757	1950	1948

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
penn	blair	upper freeport	bit	1928	unclass	0-2000	unclass	4.51
penn	blair	lower freeport	bit	1928	unclass	0-2000	unclass	1.95
penn	blair	upper kittanning	bit	1928	unclass	0-2000	unclass	2.16
penn	blair	lower kittanning	bit	1928	unclass	0-2000	unclass	8.00
penn	blair	brookville	bit	1928	unclass	0-2000	unclass	38.00
penn	bradford	lower kittanning	bit	1928	unclass	0-2000	unclass	5.44
penn	bradford	brookville	bit	1928	unclass	0-2000	unclass	24.50
penn	cameron	lower kittanning	bit	1928	unclass	0-2000	unclass	6.43
penn	cameron	brookville-clarion	bit	1928	unclass	0-2000	unclass	22.55
penn	cameron	mercer	bit	1928	unclass	0-2000	unclass	32.34
penn	centre	brookville	bit	1928	unclass	0-2000	unclass	59.75
penn	centre	lower kittanning	bit	1928	unclass	0-2000	unclass	28.06
penn	centre	middle kittanning	bit	1928	unclass	0-2000	unclass	18.18
penn	centre	upper kittanning	bit	1928	unclass	0-2000	unclass	7.19
penn	centre	lower freeport	bit	1928	unclass	0-2000	unclass	4.46

penn	centre	upper freeport	bit	1928	unclass	0-2000	unclass	0.92
penn	centre	brookville	bit	1928	unclass	0-2000	unclass	3.08
penn	centre	lower kittanning	bit	1928	unclass	0-2000	unclass	2.49
penn	centre	middle kittanning	bit	1928	unclass	0-2000	unclass	0.57
penn	centre	brookville	bit	1928	unclass	0-2000	unclass	106.86
penn	centre	lower kittanning	bit	1928	unclass	0-2000	unclass	54.60
penn	centre	middle kittanning	bit	1928	unclass	0-2000	unclass	2.90
penn	centre	upper kittanning	bit	1928	unclass	0-2000	unclass	1.66
penn	centre	lower freeport	bit	1928	unclass	0-2000	unclass	3.26
penn	centre	upper freeport	bit	1928	unclass	0-2000	unclass	0.42
penn	centre	brookville	bit	1928	unclass	0-2000	unclass	69.50
penn	centre	lower kittanning	bit	1928	unclass	0-2000	unclass	38.56
penn	centre	middle kittanning	bit	1928	unclass	0-2000	unclass	21.96
penn	centre	upper kittanning	bit	1928	unclass	0-2000	unclass	8.53
penn	centre	lower freeport	bit	1928	unclass	0-2000	unclass	1.99
penn	centre	upper freeport	bit	1928	unclass	0-2000	unclass	0.30
penn	clinton	middle kittanning	bit	1928	unclass	0-2000	unclass	6.38
penn	clinton	lower kittanning	bit	1928	unclass	0-2000	unclass	30.84
penn	clinton	brookville	bit	1928	unclass	0-2000	unclass	34.70
penn	clinton	mercer	bit	1928	unclass	0-2000	unclass	25.24
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	1.44
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	0.55
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	0.30
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	40.82
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	16.16
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	1.57
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	36.08
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	50.98
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	9.65
penn	elk	lower freeport	bit	1928	unclass	0-2000	unclass	2.00
penn	elk	upper freeport	bit	1928	unclass	0-2000	unclass	0.93
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	38.72
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	28.98
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	55.63
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	15.07
penn	elk	lower freeport	bit	1928	unclass	0-2000	unclass	4.50
penn	elk	upper freeport	bit	1928	unclass	0-2000	unclass	1.84
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	29.70
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	8.24
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	0.47
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	55.55
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	25.51
penn	elk	lower kittanning	bit	1928	unclass	0-2000	unclass	6.14
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	0.36
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	42.66
penn	elk	clarion	bit	1928	unclass	0-2000	unclass	2.28
penn	elk	mercer	bit	1928	unclass	0-2000	unclass	27.72
penn	lycoming	upper freeport	bit	1928	unclass	0-2000	unclass	7.00
penn	lycoming	middle kittanning	bit	1928	unclass	0-2000	unclass	19.00
penn	lycoming	lower kittanning	bit	1928	unclass	0-2000	unclass	39.00
penn	mercer	middle kittanning	bit	1928	unclass	0-2000	unclass	4.32
penn	mercer	lower kittanning	bit	1928	unclass	0-2000	unclass	12.96
penn	mercer	brookville	bit	1928	unclass	0-2000	unclass	155.00
penn	mercer	mercer	bit	1928	unclass	0-2000	unclass	189.40
penn	mercer	sharon	bit	1928	unclass	0-2000	unclass	58.00
penn	mckean	mercer	bit	1928	unclass	0-2000	unclass	7.73
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	2.92
penn	mckean	mercer	bit	1928	unclass	0-2000	unclass	12.61
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	6.47
penn	mckean	mercer	bit	1928	unclass	0-2000	unclass	21.87

penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	13.61
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	14.22
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	12.82
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	13.73
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	9.50
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	45.46
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	36.37
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	10.01
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	9.41
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	31.43
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	23.81
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	53.50
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	33.71
penn	mckean	merc	bit	1928	unclass	0-2000	unclass	33.36
penn	mckean	clarion	bit	1928	unclass	0-2000	unclass	28.71
penn	tioga	upper kittanning	bit	1928	unclass	0-2000	unclass	33.95
penn	tioga	middle kittanning	bit	1928	unclass	0-2000	unclass	30.42
penn	tioga	lower kittanning	bit	1928	unclass	0-2000	unclass	9.72
penn	tioga	brookville	bit	1928	unclass	0-2000	unclass	33.34
penn	allegheny	pittsburgh	bit	1928	unclass	0-2000	unclass	297.43
penn	allegheny	redstone	bit	1928	unclass	0-2000	unclass	1603.59
penn	armstrong	brookville	bit	1928	unclass	0-2000	unclass	165.17
penn	armstrong	lower freeport	bit	1928	unclass	0-2000	unclass	319.46
penn	armstrong	lower kittanning	bit	1928	unclass	0-2000	unclass	960.90
penn	armstrong	upper freeport	bit	1928	unclass	0-2000	unclass	649.79
penn	armstrong	upper kittanning	bit	1928	unclass	0-2000	unclass	71.81
penn	bedford	clarion	bit	1928	unclass	0-2000	unclass	112.10
penn	bedford	lower kittanning	bit	1928	unclass	0-2000	unclass	74.12
penn	bedford	upper freeport	bit	1928	unclass	0-2000	unclass	48.41
penn	cambria	brookville	bit	1928	unclass	0-2000	unclass	63.05
penn	cambria	clarion	bit	1928	unclass	0-2000	unclass	29.77
penn	cambria	lower freeport	bit	1928	unclass	0-2000	unclass	630.37
penn	cambria	lower kittanning	bit	1928	unclass	0-2000	unclass	1082.23
penn	cambria	upper freeport	bit	1928	unclass	0-2000	unclass	525.47
penn	cambria	upper kittanning	bit	1928	unclass	0-2000	unclass	309.21
penn	clarion	brookville	bit	1928	unclass	0-2000	unclass	237.81
penn	clarion	lower clarion	bit	1928	unclass	0-2000	unclass	251.90
penn	clarion	lower freeport	bit	1928	unclass	0-2000	unclass	36.58
penn	clarion	lower kittanning	bit	1928	unclass	0-2000	unclass	95.00
penn	clarion	merc	bit	1928	unclass	0-2000	unclass	40.90
penn	clarion	middle kittanning	bit	1928	unclass	0-2000	unclass	14.58
penn	clarion	upper clarion	bit	1928	unclass	0-2000	unclass	32.42
penn	clarion	upper freeport	bit	1928	unclass	0-2000	unclass	29.83
penn	clarion	upper kittanning	bit	1928	unclass	0-2000	unclass	34.20
penn	clearfield	brookville	bit	1928	unclass	0-2000	unclass	7.68
penn	clearfield	lower freeport	bit	1928	unclass	0-2000	unclass	539.10
penn	clearfield	lower kittanning	bit	1928	unclass	0-2000	unclass	828.20
penn	clearfield	upper freeport	bit	1928	unclass	0-2000	unclass	258.68
penn	clearfield	upper kittanning	bit	1928	unclass	0-2000	unclass	194.05
penn	fayette	lower kittanning	bit	1928	unclass	0-2000	unclass	130.29
penn	fayette	pittsburgh	bit	1928	unclass	0-2000	unclass	1078.02
penn	fayette	redstone	bit	1928	unclass	0-2000	unclass	110.14
penn	fayette	sewickley	bit	1928	unclass	0-2000	unclass	83.29
penn	fayette	upper freeport	bit	1928	unclass	0-2000	unclass	1820.16
penn	fayette	upper kittanning	bit	1928	unclass	0-2000	unclass	87.27
penn	fayette	waynesburg	bit	1928	unclass	0-2000	unclass	109.09
penn	fulton	clarion	bit	1928	unclass	0-2000	unclass	17.90
penn	fulton	lower kittanning	bit	1928	unclass	0-2000	unclass	11.88
penn	greene	upper freeport	bit	1928	unclass	0-2000	unclass	1594.08
penn	greene	sewickley	bit	1928	unclass	0-2000	unclass	486.07

penn	greene	waynesburg	bit	1928	unclass	0-2000	unclass	1342.87
penn	huntingdon	clarion	bit	1928	unclass	0-2000	unclass	49.25
penn	huntingdon	lower kittanning	bit	1928	unclass	0-2000	unclass	25.96
penn	huntingdon	upper freeport	bit	1928	unclass	0-2000	unclass	5.14
penn	huntingdon	clarion	bit	1928	unclass	0-2000	unclass	1.65
penn	huntingdon	lower kittanning	bit	1928	unclass	0-2000	unclass	0.59
penn	huntingdon	clarion	bit	1928	unclass	0-2000	unclass	15.85
penn	huntingdon	lower kittanning	bit	1928	unclass	0-2000	unclass	9.19
penn	huntingdon	upper freeport	bit	1928	unclass	0-2000	unclass	1.06
penn	indiana	lower freeport	bit	1928	unclass	0-2000	unclass	1339.08
penn	indiana	lower kittanning	bit	1928	unclass	0-2000	unclass	749.81
penn	indiana	pittsburgh	bit	1928	unclass	0-2000	unclass	20.71
penn	indiana	upper freeport	bit	1928	unclass	0-2000	unclass	1456.53
penn	jefferson	brookville	bit	1928	unclass	0-2000	unclass	896.45
penn	jefferson	lower freeport	bit	1928	unclass	0-2000	unclass	244.23
penn	jefferson	lower kittanning	bit	1928	unclass	0-2000	unclass	455.69
penn	jefferson	middle kittanning	bit	1928	unclass	0-2000	unclass	380.97
penn	jefferson	upper freeport	bit	1928	unclass	0-2000	unclass	136.48
penn	jefferson	upper kittanning	bit	1928	unclass	0-2000	unclass	255.79
penn	somerset	brookville	bit	1928	unclass	0-2000	unclass	102.74
penn	somerset	clarion	bit	1928	unclass	0-2000	unclass	61.54
penn	somerset	lower freeport	bit	1928	unclass	0-2000	unclass	114.25
penn	somerset	lower kittanning	bit	1928	unclass	0-2000	unclass	1027.55
penn	somerset	pittsburgh rider	bit	1928	unclass	0-2000	unclass	8.00
penn	somerset	sewickley	bit	1928	unclass	0-2000	unclass	5.10
penn	somerset	upper freeport	bit	1928	unclass	0-2000	unclass	557.64
penn	somerset	upper kittanning	bit	1928	unclass	0-2000	unclass	2416.41
penn	washington	pittsburgh	bit	1928	unclass	0-2000	unclass	1039.94
penn	washington	redstone	bit	1928	unclass	0-2000	unclass	98.54
penn	washington	upper freeport	bit	1928	unclass	0-2000	unclass	2196.54
penn	washington	washington	bit	1928	unclass	0-2000	unclass	907.71
penn	washington	waynesburg	bit	1928	unclass	0-2000	unclass	1544.69
penn	westmoreland	lower kittanning	bit	1928	unclass	0-2000	unclass	697.34
penn	westmoreland	middle kittanning	bit	1928	unclass	0-2000	unclass	706.32
penn	westmoreland	pittsburgh	bit	1928	unclass	0-2000	unclass	512.65
penn	westmoreland	redstone	bit	1928	unclass	0-2000	unclass	237.47
penn	westmoreland	upper freeport	bit	1928	unclass	0-2000	unclass	2079.26
penn	westmoreland	waynesburg	bit	1928	unclass	0-2000	unclass	9.71

average analyses of coal in pennsylvania

proximate analysis (percent)													ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen												
allegheny													county								
bit																					
	l & u freeport	2.2	37.5	54.8	7.8	5.3	79.0	1.5	4.4	2.8	14080	2080	2								
	lower freeport	3.4	34.9	59.0	6.2	0.0	0.0	0.0	0.0	0.8	14510	2530	2								
	pittsburgh	3.4	36.8	54.5	8.8	5.1	77.2	1.5	7.0	1.7	13666	2504	189								
	redstone	3.2	33.7	56.0	10.4	5.1	75.0	1.5	7.5	1.6	13245	2740	2								
	sewickley	2.4	35.6	53.0	11.4	5.1	73.5	0.7	7.0	2.3	13240	2480	1								
	thomas	2.2	34.8	43.5	21.7	0.0	0.0	0.0	0.0	3.4	11510	2240	1								
	upper freeport	2.8	35.5	54.9	9.5	5.2	76.2	1.5	6.0	1.6	13715	2409	163								
	county average	3.2	36.2	54.7	9.1	5.2	76.6	1.5	6.4	1.6	13675	2456	360								
armstrong													county								
bit																					
	clarion	3.4	34.4	60.7	4.9	0.0	0.0	0.0	0.0	2.3	14030		1								
	l & u freeport	1.9	33.6	55.8	10.5	0.0	0.0	0.0	0.0	2.2	13652	2400	4								
	l kittanning&u frept	2.4	37.0	54.0	9.0	0.0	0.0	0.0	0.0	2.9	13869	2295	10								
	lower freeport	3.5	35.4	55.2	9.4	5.1	75.4	1.4	5.6	2.8	13621	2186	24								
	lower kittanning	2.9	37.2	52.7	10.1	5.1	74.5	1.4	5.4	3.7	13574	2246	45								
	mahoning	2.6	38.3	50.2	11.5	0.0	0.0	0.0	0.0	3.7	13373	2160	3								
	middle kittanning	3.4	34.8	49.8	15.3	4.5	62.9	1.1	4.0	2.8	12666	2500	5								
	pittsburgh	2.3	35.3	55.0	9.7	5.1	76.0	1.6	5.9	1.7	13760	2540	1								
	u kittanning&l frept	3.3	34.5	55.9	9.6	0.0	0.0	0.0	0.0	2.1	13800	2680	1								
	uncorrelated	2.7	36.0	48.8	15.2	0.0	0.0	0.0	0.0	4.3	12650	2180	1								
	upper clarion	3.6	31.0	59.6	9.4	0.0	0.0	0.0	0.0	2.1	13030		1								
	upper freeport	3.5	33.7	55.1	11.2	5.0	75.5	1.4	5.6	2.3	13406	2420	259								
	upper kittanning	3.0	34.3	53.5	12.2	4.4	68.2	1.1	4.1	3.0	13327	2482	4								
	various	4.2	34.2	55.8	10.0	0.0	0.0	0.0	0.0	1.8	13405	2414	49								
	county average	3.5	34.4	54.8	10.8	5.0	74.9	1.4	5.5	2.4	13441	2384	408								
beaver													county								
bit																					
	brookville	4.1	36.8	51.5	11.7	0.0	0.0	0.0	0.0	2.8	13304	2264	11								
	lower kittanning	4.0	37.3	51.9	10.7	0.0	0.0	0.0	0.0	2.7	13384	2290	12								
	lower mercer	3.6	36.6	48.5	14.9	4.9	68.9	1.3	5.6	4.4	12580	2030	1								
	middle kittanning	7.0	35.8	56.4	7.7	5.3	79.3	1.6	7.5	1.2	13383	2469	13								
	upper freeport	5.0	37.7	53.6	8.7	5.1	75.8	1.7	7.5	1.8	13540	2283	6								
	upper kittanning	3.2	40.8	52.0	7.2	5.4	77.1	1.7	5.5	3.1	14000	2030	1								
	county average	5.0	36.9	53.3	9.8	5.1	75.5	1.6	6.9	2.2	13380	2321	44								
bedford													county								

bit												
clarion	1.2	18.8	67.8	13.4	0.0	0.0	0.0	0.0	1.8	13480	2795	3
l kittanning&u frept	1.5	18.6	69.1	12.4	0.0	0.0	0.0	0.0	2.1	13611	2693	7
lower kittanning	1.5	16.6	73.0	10.4	4.3	84.3	1.4	2.2	1.5	13969	2769	33
mahoning	1.5	18.2	75.9	6.0	0.0	0.0	0.0	0.0	0.7	14812	2620	4
pittsburgh	1.8	15.7	66.2	18.1	0.0	0.0	0.0	0.0	2.4	12340		1
upper freeport	1.5	16.9	68.5	14.5	4.0	73.3	1.3	1.5	2.4	13248	2613	23
various	1.2	16.9	65.0	18.1	0.0	0.0	0.0	0.0	2.6	12618	2595	6
county average	1.5	17.1	70.5	12.4	4.1	77.7	1.3	1.8	1.9	13619	2676	77

	blair county											
bit												
brookville	4.1	28.3	59.9	11.7	4.6	76.7	1.2	4.1	3.3	13457	2305	4
lower kittanning	3.8	26.8	65.1	8.1	5.0	81.4	1.5	4.0	0.8	14110	2910	7
middle kittanning	6.2	29.0	62.6	8.5	0.0	0.0	0.0	0.0	2.7	14010	2140	2
upper freeport	2.7	29.9	61.2	8.9	4.9	81.0	1.5	3.8	2.3	14103	2293	3
various	7.5	27.4	60.8	11.8	0.0	0.0	0.0	0.0	1.6	13140	2536	3
county average	4.5	27.9	62.5	9.6	4.9	80.1	1.4	4.0	1.9	13807	2502	19

	bradford county											
bit												
clarion	2.1	18.4	69.5	12.1	4.2	78.1	1.1	3.4	1.1	13650	2910	1
county average	2.1	18.4	69.5	12.1	4.2	78.1	1.1	3.4	1.1	13650	2910	1

	butler county											
bit												
brookville	4.5	36.7	52.0	11.4	4.8	71.3	1.3	6.7	2.7	13116	2344	23
clarion	3.8	34.8	48.2	17.0	0.0	0.0	0.0	0.0	3.8	12107	2505	4
l & m kittanning	8.4	34.4	52.8	12.8	0.0	0.0	0.0	0.0	1.1	12600	2680	1
l & u freeport	5.4	32.7	57.3	10.0	4.9	76.3	1.4	7.0	1.6	13383	2666	3
l kittanning&u frept	11.1	35.6	51.7	12.7	0.0	0.0	0.0	0.0	1.4	12330	2270	1
lower freeport	4.0	35.0	55.7	9.3	0.0	0.0	0.0	0.0	1.8	13550	2382	6
lower kittanning	4.3	38.0	49.4	12.7	0.0	0.0	0.0	0.0	3.6	13031	2275	8
mahoning	3.2	41.0	50.7	8.3	0.0	0.0	0.0	0.0	4.0	13620		1
middle kittanning	4.4	37.0	52.8	10.2	5.1	74.0	1.4	5.5	3.0	13346	2284	34
ukittanning&brookvl	4.3	37.5	54.5	8.0	0.0	0.0	0.0	0.0	1.7	13730	2495	2
upper clarion	3.9	35.9	55.7	8.5	0.0	0.0	0.0	0.0	3.1	13545		2
upper freeport	3.5	35.3	53.6	11.1	5.1	76.4	1.5	6.2	2.3	13315	2373	51
upper kittanning	3.8	35.2	56.9	7.9	5.2	79.1	1.5	6.8	2.2	13678	2440	5
various	4.2	37.3	52.6	10.0	0.0	0.0	0.0	0.0	2.7	13335	2246	14
county average	4.1	36.2	53.0	10.8	5.1	75.5	1.4	6.1	2.6	13270	2346	155

	cambria county											
bit												
clarion	3.1	14.2	68.8	17.0	0.0	0.0	0.0	0.0	3.2	12290		1
l & u freeport	2.9	24.9	64.5	10.6	0.0	0.0	0.0	0.0	1.7	13907	2563	20
l & u kittanning	2.3	23.3	64.2	12.5	0.0	0.0	0.0	0.0	2.1	13562	2556	7

l kittanning&u frept	4.0	25.4	66.3	8.3	0.0	0.0	0.0	0.0	1.8	14295	2630	2
lower freeport	2.9	22.9	67.1	10.0	4.5	78.0	1.3	3.5	2.1	13955	2455	100
lower kittanning	2.4	20.3	71.4	8.4	4.5	81.5	1.3	2.6	1.8	14301	2565	342
middle kittanning	4.5	24.3	62.3	13.4	4.5	76.3	1.1	3.9	0.9	13360	2870	4
u kittanning&l frept	2.1	22.4	69.2	8.4	0.0	0.0	0.0	0.0	1.7	14310	2570	1
u kittanning&u frept	2.5	19.7	67.7	12.7	0.0	0.0	0.0	0.0	2.9	13525		2
upper freeport	2.6	24.3	66.1	9.5	4.6	79.3	1.4	3.1	1.7	14054	2435	115
upper kittanning	2.4	17.5	73.0	9.4	4.3	80.2	1.4	2.4	1.4	14096	2609	121
various	3.1	24.4	65.2	10.4	0.0	0.0	0.0	0.0	1.7	13835	2521	50
county average	2.6	21.2	69.6	9.2	4.5	80.0	1.3	2.9	1.8	14129	2533	765

cameron county												
bit												
brookville	5.5	30.9	58.3	10.8	0.0	0.0	0.0	0.0	3.5	13650		1
county average	5.5	30.9	58.3	10.8	0.0	0.0	0.0	0.0	3.5	13650		1

centre county												
bit												
brookville	3.2	22.8	65.3	11.9	0.0	0.0	0.0	0.0	1.9	13363	2707	16
clarion	3.6	23.3	67.8	8.9	0.0	0.0	0.0	0.0	1.7	14102	2605	4
l & m kittanning	6.7	23.3	65.5	11.2	4.3	75.0	1.3	5.2	2.0	13540	2330	2
l kittanning&brookvl	3.4	23.3	65.2	11.6	0.0	0.0	0.0	0.0	3.3	13480	2120	2
lower kittanning	3.3	22.8	65.2	12.0	4.7	79.5	1.3	3.1	2.2	13569	2533	40
middle kittanning	4.9	22.4	66.8	10.8	4.6	77.9	1.4	2.5	2.1	13702	2536	7
upper kittanning	7.2	24.4	66.6	9.0	0.0	0.0	0.0	0.0	1.5	13720	2550	1
various	3.9	23.9	65.2	11.0	0.0	0.0	0.0	0.0	2.2	13654	2447	33
county average	3.7	23.2	65.4	11.4	4.6	77.9	1.3	3.3	2.1	13623	2537	105

clarion county												
bit												
clarion	4.1	38.9	49.1	12.0	5.1	73.5	1.3	5.8	4.4	13158	2190	16
l kittanning&l frept	3.7	38.2	52.4	9.4	0.0	0.0	0.0	0.0	3.2	13660	2220	1
l kittanning&u frept	5.2	37.1	51.3	11.6	0.0	0.0	0.0	0.0	2.6	13210	2360	1
lower freeport	5.9	35.1	54.4	10.5	4.8	73.6	1.5	6.2	1.9	13212	2443	4
lower kittanning	3.8	36.7	53.1	10.2	5.1	73.9	1.4	6.6	2.3	13489	2470	54
m kittanning&u frept	4.2	34.0	56.6	9.4	0.0	0.0	0.0	0.0	1.0	13570	2810	1
upper freeport	4.1	33.9	55.4	10.7	5.0	74.5	1.5	6.2	1.6	13402	2438	9
various	3.3	37.0	51.5	11.5	0.0	0.0	0.0	0.0	3.0	13173	2202	20
county average	3.9	36.8	52.4	10.8	5.0	74.0	1.4	6.4	2.7	13361	2392	106

clearfield county												
bit												
brookville	2.5	23.9	62.6	13.4	0.0	0.0	0.0	0.0	2.8	13251	2469	14
l & m kittanning	3.0	21.9	63.5	14.6	0.0	0.0	0.0	0.0	2.6	13094	2476	12
l & u freeport	4.0	24.1	66.8	9.1	4.7	81.3	1.4	3.3	1.0	14043	2730	10
l & u kittanning	3.3	23.1	67.1	9.8	0.0	0.0	0.0	0.0	1.0	14050	2670	1
l kittanning&brookvl	7.1	20.2	71.2	8.6	0.0	0.0	0.0	0.0	1.4	14280	2780	1
l kittanning&l frept	3.5	26.6	65.4	8.0	0.0	0.0	0.0	0.0	1.5	14265	2380	2

lower freeport	3.1	25.2	65.5	9.3	4.7	79.8	1.4	3.4	1.5	14036	2595	126
lower kittanning	3.2	24.8	64.3	10.8	4.6	78.0	1.3	3.7	2.5	13723	2493	203
m & u kittanning	5.5	22.8	65.6	11.6	0.0	0.0	0.0	0.0	2.5	13720	2370	1
m kittanning&brookvl	5.1	21.8	66.6	11.6	0.0	0.0	0.0	0.0	2.2	13610	2780	1
m kittanning&u frept	3.6	26.3	60.0	13.7	0.0	0.0	0.0	0.0	2.6	13330	2180	1
middle kittanning	3.7	22.7	66.0	11.3	4.5	75.8	1.3	2.6	2.3	13690	2473	46
upper freeport	3.5	24.6	64.5	10.9	4.6	77.9	1.4	4.1	1.5	13763	2544	81
upper kittanning	3.6	23.4	65.9	10.7	4.6	78.8	1.5	4.3	1.6	13914	2545	22
various	4.3	24.2	64.8	11.0	0.0	0.0	0.0	0.0	1.8	13596	2501	96
county average	3.5	24.5	64.8	10.7	4.6	78.2	1.4	3.6	2.0	13761	2529	617
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clinton county												
bit												
l & m kittanning	4.1	22.4	66.6	11.0	0.0	0.0	0.0	0.0	2.4	13800	2470	1
lower freeport	3.8	24.9	67.4	7.7	0.0	0.0	0.0	0.0	2.1	14460	2400	1
lower kittanning	7.4	22.5	66.9	10.6	4.4	76.5	1.2	2.3	2.9	13427	2370	4
middle kittanning	6.7	23.9	65.1	10.9	4.4	75.5	1.2	4.4	2.9	13483	2130	3
upper kittanning	5.2	24.6	66.1	9.3	0.0	0.0	0.0	0.0	2.4	14100	2210	1
county average	6.3	23.4	66.3	10.3	4.4	76.0	1.2	3.3	2.7	13652	2295	10
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elk county												
bit												
l & m kittanning	4.0	33.6	57.3	9.1	0.0	0.0	0.0	0.0	2.1	13823	2414	16
lower freeport	5.7	28.1	63.3	8.6	0.0	0.0	0.0	0.0	1.2	13560		1
lower kittanning	3.7	32.8	56.7	10.5	0.0	0.0	0.0	0.0	2.7	13710	2394	11
middle kittanning	3.1	32.7	58.9	8.4	5.1	77.8	1.7	3.0	2.4	14036	2460	5
various	3.9	33.0	58.0	9.0	0.0	0.0	0.0	0.0	1.8	13722	2388	11
county average	3.9	33.1	57.6	9.3	5.1	77.8	1.7	3.0	2.2	13788	2410	44
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fayette county												
bit												
l kittanning&brookvl	7.1	20.2	71.2	8.6	0.0	0.0	0.0	0.0	1.4	14280	2780	1
lower freeport	2.8	25.9	58.7	15.4	0.0	0.0	0.0	0.0	2.0	12950	2570	2
lower kittanning	2.9	25.6	63.9	10.5	5.0	80.1	1.3	3.1	2.6	13868	2385	11
pittsburgh	2.9	32.6	58.0	9.4	5.1	78.0	1.6	5.1	1.5	13820	2637	124
redstone	4.3	31.6	55.6	12.8	0.0	0.0	0.0	0.0	1.7	13040	2605	4
redstone & sewickley	4.0	33.6	53.8	12.6	0.0	0.0	0.0	0.0	1.8	13150	2610	1
redstone&waynesburg	3.4	32.6	50.5	16.9	4.6	69.4	1.4	5.5	2.2	12460	2460	1
sewickley	3.8	33.0	53.1	13.9	5.0	72.7	1.4	4.5	3.2	12929	2355	14
upper freeport	3.0	30.3	61.1	8.6	5.3	78.7	1.5	3.3	2.6	14090	2250	2
upper kittanning	2.5	24.9	65.3	9.8	4.6	78.7	1.3	2.8	2.8	14030	2466	4
various	7.5	32.2	54.0	13.8	4.5	71.1	1.4	7.4	2.2	12360	2230	3
county average	3.1	31.8	58.1	10.1	5.0	77.0	1.5	4.8	1.8	13692	2577	167
<hr/>												
greene county												
bit												
pittsburgh	2.5	35.8	54.4	9.8	5.1	77.2	1.6	5.4	2.5	13708	2224	67
pittsburgh&sewickley	2.6	35.0	54.7	10.3	4.9	74.6	1.3	4.9	2.4	13612	2296	12

sewickley	2.8	34.5	53.6	11.9	5.0	74.3	1.6	5.8	1.9	13303	2541	27
waynesburg	3.4	34.9	50.0	15.1	5.0	69.6	1.5	5.6	2.7	12654	2603	10
county average	2.6	35.4	53.9	10.8	5.1	75.2	1.6	5.5	2.3	13513	2347	116

huntingdon county												

bit												
clarion	1.3	19.1	70.5	10.4	0.0	0.0	0.0	0.0	1.4	13840		1
clarion&l kittanning	2.9	17.5	71.7	10.7	0.0	0.0	0.0	0.0	1.9	13902	2680	4
upper freeport	2.0	18.3	70.1	11.6	0.0	0.0	0.0	0.0	1.6	13740		1
county average	2.5	17.9	71.3	10.8	0.0	0.0	0.0	0.0	1.8	13865	2680	6

indiana county												

bit												
l & u freeport	2.5	29.9	60.1	10.0	4.9	80.0	1.5	4.8	1.3	13880	2631	8
l kittanning&l frept	3.8	28.1	61.8	10.1	0.0	0.0	0.0	0.0	2.7	13824	2247	7
l kittanning&u frept	3.2	28.5	60.6	10.9	0.0	0.0	0.0	0.0	1.5	13740	2610	2
lower freeport	3.1	26.4	62.7	10.9	4.7	76.8	1.3	3.7	1.8	13758	2564	47
lower kittanning	2.5	24.5	64.7	10.7	4.6	75.3	1.2	2.3	3.1	13835	2372	103
u kittanning&u frept	3.9	28.2	60.9	10.9	0.0	0.0	0.0	0.0	2.0	13700	2420	1
pittsburgh	3.3	32.5	54.0	13.6	4.7	72.2	1.5	6.0	1.5	13019	2725	12
u kittanning&u frept	4.6	27.9	60.4	11.7	0.0	0.0	0.0	0.0	2.1	13400	2580	1
upper freeport	2.6	28.5	61.2	10.3	4.7	75.3	1.4	3.7	2.0	13829	2474	105
upper kittanning	4.1	27.6	61.5	10.9	0.0	0.0	0.0	0.0	1.7	13698	2880	7
various	4.1	28.1	60.5	11.4	0.0	0.0	0.0	0.0	1.6	13460	2503	34
county average	2.9	27.1	62.2	10.8	4.7	75.9	1.3	3.3	2.2	13749	2475	327

jefferson county												

bit												
l kittanning&l frept	5.1	33.1	58.6	8.3	0.0	0.0	0.0	0.0	2.1	13900	2340	1
lower freeport	3.1	31.8	58.9	9.3	5.0	76.8	1.4	4.9	1.9	13852	2498	46
lower kittanning	3.3	32.9	57.0	10.1	5.1	77.4	1.4	6.0	1.4	13674	2706	21
middle kittanning	4.6	32.9	61.4	5.7	0.0	0.0	0.0	0.0	0.6	14340	2670	4
upper freeport	5.3	30.8	58.0	11.2	4.8	72.5	1.4	6.5	1.5	13306	2565	10
upper kittanning	3.1	28.2	63.6	8.2	0.0	0.0	0.0	0.0	0.9	14110	2890	1
various	4.2	32.3	57.0	10.7	0.0	0.0	0.0	0.0	1.6	13387	2433	14
county average	3.6	32.0	58.3	9.7	5.0	76.7	1.4	5.4	1.7	13713	2558	97

laurence county												

bit												
brookville	5.3	38.1	51.2	10.7	0.0	0.0	0.0	0.0	2.8	13146	2203	19
lower kittanning	4.5	37.1	50.9	12.0	0.0	0.0	0.0	0.0	2.5	12986	2363	6
middle kittanning	4.6	37.7	50.9	11.4	0.0	0.0	0.0	0.0	3.7	13036	2096	5
county average	5.1	37.9	51.1	11.1	0.0	0.0	0.0	0.0	2.9	13096	2217	30

mckean county												

bit	lower mercer	5.7	33.0	52.5	14.5	0.0	0.0	0.0	0.0	3.2	12703	2420	3
	county average	5.7	33.0	52.5	14.5	0.0	0.0	0.0	0.0	3.2	12703	2420	3
	merc	county											
bit	brookville	5.1	39.8	50.5	9.6	5.2	76.0	1.4	7.4	3.8	13314	2197	45
	lower kittanning	5.4	37.0	50.9	12.1	0.0	0.0	0.0	0.0	2.3	13002	2392	4
	middle kittanning	4.7	37.2	53.2	9.6	0.0	0.0	0.0	0.0	1.6	13360	2630	1
	various	6.4	35.8	53.6	10.6	0.0	0.0	0.0	0.0	1.9	13130	2290	2
	county average	5.2	39.4	50.7	9.9	5.2	76.0	1.4	7.4	3.5	13284	2224	52
	somerset	county											
bit	brookville	3.5	17.8	71.6	10.6	4.1	79.2	1.3	2.5	1.9	13806	2830	3
	brush creek	4.0	19.4	70.3	10.3	4.0	76.7	1.4	3.6	2.4	13820	2293	8
	clarion	3.4	19.1	70.1	10.8	0.0	0.0	0.0	0.0	1.6	13810		2
	l & m kittanning	2.3	16.1	73.0	10.9	4.2	79.8	1.3	2.1	1.7	13870	2680	1
	l kittanning&l frept	4.0	20.3	70.8	8.9	0.0	0.0	0.0	0.0	2.4	14000	2460	1
	l kittanning&u frept	3.4	18.7	71.8	9.6	0.0	0.0	0.0	0.0	1.3	14070	2805	2
	little pittsburgh	3.8	20.9	69.2	9.9	0.0	0.0	0.0	0.0	0.8	14006	2876	3
	lower freeport	2.9	17.9	72.3	9.9	4.3	80.3	1.3	2.6	1.6	14030	2607	38
	lower kittanning	2.8	17.5	71.8	10.7	4.2	79.0	1.3	2.2	1.9	13860	2579	129
	middle kittanning	3.4	17.5	68.1	14.4	4.2	76.6	1.2	1.9	2.0	13200	2662	4
	pittsburgh	3.9	20.9	66.1	13.0	4.3	75.3	1.6	2.6	1.6	13400	2619	21
	redstone	4.6	20.4	62.3	17.4	3.9	70.7	1.6	4.5	2.0	12275	2560	2
	sewickley	2.8	21.4	67.6	11.0	4.4	77.8	1.7	3.0	1.4	13807	2749	10
	u kittanning&u frept	2.6	17.5	70.1	12.4	4.3	77.1	1.3	1.8	1.9	13624	2535	12
	upper freeport	2.7	18.4	69.6	12.0	4.3	78.6	1.4	2.7	1.7	13651	2645	63
	upper kittanning	2.5	17.2	71.6	11.2	4.2	78.6	1.3	2.1	2.1	13780	2526	162
	various	3.2	19.0	69.8	11.3	0.0	0.0	0.0	0.0	1.7	13671	2619	67
	county average	2.9	18.0	70.8	11.2	4.2	78.3	1.4	2.4	1.8	13764	2586	528
	tioga	county											
bit	brookville	2.1	21.3	62.8	15.9	0.0	0.0	0.0	0.0	3.4	12930		1
	middle kittanning	3.3	20.6	65.7	13.7	0.0	0.0	0.0	0.0	1.8	13250	2865	5
	uncorrelated	3.7	17.5	67.9	14.6	0.0	0.0	0.0	0.0	1.0	13150	2910	3
	upper freeport	3.2	19.8	70.2	10.0	0.0	0.0	0.0	0.0	1.6	14010	2730	1
	upper kittanning	2.8	20.1	61.4	18.4	0.0	0.0	0.0	0.0	3.5	12503	2250	3
	county average	3.2	19.8	65.3	14.9	0.0	0.0	0.0	0.0	2.1	13088	2697	13
	venango	county											
bit	brookville	4.4	38.9	49.4	11.7	0.0	0.0	0.0	0.0	5.4	13085	2100	8
	lower kittanning	3.0	38.3	46.7	15.0	0.0	0.0	0.0	0.0	5.6	12650	2050	1
	county average	4.2	38.8	49.1	12.1	0.0	0.0	0.0	0.0	5.5	13036	2094	9

Washington County												
bit												
pittsburgh	3.8	37.3	52.3	10.4	5.3	77.5	1.5	6.4	2.2	13325	2378	261
waynesburg	3.2	34.3	48.3	17.4	5.0	68.0	1.5	4.7	3.4	12290	2220	1
county average	3.8	37.3	52.3	10.4	5.3	77.0	1.5	6.3	2.2	13321	2378	262
Westmoreland County												
bit												
bakerstown	3.0	32.1	49.4	18.5	0.0	0.0	0.0	0.0	3.6	12270	2100	1
l & u freeport	5.5	30.1	53.6	16.3	0.0	0.0	0.0	0.0	3.1	12570	2500	1
lower freeport	2.0	23.5	64.8	11.7	0.0	0.0	0.0	0.0	2.6	13710	2150	1
pittsburgh	3.2	31.2	58.7	10.1	5.0	77.4	1.6	5.3	1.3	13677	2707	203
redstone	1.9	33.7	53.9	12.4	5.0	73.7	1.5	6.2	2.3	13282	2517	12
uncorrelated	4.4	26.0	59.4	14.6	0.0	0.0	0.0	0.0	1.7	13110	2570	1
upper freeport	2.3	34.6	54.7	10.7	5.2	76.3	1.4	5.5	2.4	13584	2308	71
county average	2.9	32.1	57.5	10.4	5.0	76.8	1.6	5.5	1.6	13627	2583	290

Pennsylvania

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	allegheny	upper freeport	3.4	50.6	50.1	19.3	0.8	12080	54	8.5

continued.....

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	allegheny	upper freeport	4.8	30.5	50.7	18.8	1.7	12120	0	8.5
pennsylvania	allegheny	upper freeport	4.4	33.4	49.2	17.4	2.3	12410	52	7.0
pennsylvania	allegheny	upper freeport	5.5	32.9	52.6	14.5	3.0	12790	0	7.5
pennsylvania	allegheny	upper freeport	3.5	34.0	52.9	13.1	2.3	13100	56	7.5
pennsylvania	allegheny	pittsburgh	3.4	35.9	52.5	6.6	0.9	14050	56	8.0
pennsylvania	allegheny	pittsburgh	4.5	38.3	52.3	9.4	1.4	13490	51	7.5
pennsylvania	allegheny	pittsburgh	5.1	35.7	50.3	14.0	2.2	12700	53	7.5
pennsylvania	allegheny	pittsburgh	3.2	36.8	51.4	11.8	3.8	13090	0	6.0
pennsylvania	allegheny	upper freeport	2.8	34.6	57.6	7.8	1.2	14120	0	8.0
pennsylvania	allegheny	pittsburgh	4.0	38.6	53.7	7.7	1.5	13810	51	8.0
pennsylvania	allegheny	pittsburgh	4.3	40.1	52.0	7.9	2.0	13690	52	7.0
pennsylvania	allegheny	pittsburgh	4.5	38.3	52.2	9.5	1.7	13460	53	6.5
pennsylvania	allegheny	pittsburgh	7.3	32.2	48.5	19.3	3.3	11830	61	6.5
pennsylvania	allegheny	upper freeport	4.4	30.4	52.7	16.9	0.7	12450	0	8.0
pennsylvania	allegheny	pittsburgh	4.1	35.9	57.3	6.8	1.1	14020	53	8.5
pennsylvania	allegheny	pittsburgh	4.3	38.5	51.3	10.2	1.6	13330	0	6.5
pennsylvania	allegheny	pittsburgh	5.5	35.1	51.4	13.5	1.6	12780	56	7.5
pennsylvania	allegheny	pittsburgh	3.6	38.7	53.5	7.8	2.1	13760	51	7.5
pennsylvania	allegheny	upper freeport	6.9	32.9	51.8	15.3	2.4	12600	0	7.5
pennsylvania	allegheny	upper freeport	5.5	34.5	54.3	11.2	2.0	13360	0	7.0
pennsylvania	armstrong	upper freeport	3.8	33.8	55.1	11.1	1.7	13540	63	7.5
pennsylvania	armstrong	upper freeport	4.1	33.8	54.7	11.5	3.2	13180	71	8.0
pennsylvania	armstrong	upper freeport	1.8	33.6	55.5	10.9	2.2	13520	0	8.0
pennsylvania	armstrong	upper freeport	5.6	32.1	56.2	11.7	1.9	12910	0	3.5
pennsylvania	armstrong	upper freeport	4.3	32.3	54.4	13.3	2.4	13070	0	7.5
pennsylvania	armstrong	upper freeport	3.1	32.8	55.6	11.6	2.2	13320	0	8.5
pennsylvania	armstrong	upper freeport	2.7	33.9	54.7	11.4	3.3	13360	0	7.0
pennsylvania	armstrong	upper freeport	4.9	33.9	56.1	10.0	1.7	13450	0	7.5
pennsylvania	armstrong	upper freeport	4.4	32.0	53.9	14.1	2.5	12910	0	8.0
pennsylvania	armstrong	upper freeport	4.0	33.7	52.6	13.7	3.6	13170	0	7.0
pennsylvania	armstrong	upper freeport	1.6	33.5	54.9	11.6	2.6	13370	0	7.5
pennsylvania	armstrong	upper freeport	6.2	31.7	58.3	10.0	2.0	13630	65	8.5
pennsylvania	armstrong	upper freeport	3.2	33.7	55.4	10.9	2.5	13600	58	7.5
pennsylvania	armstrong	upper freeport	3.6	31.2	56.5	12.3	1.9	13280	64	8.0
pennsylvania	armstrong	upper freeport	4.8	32.2	54.9	12.9	2.7	13230	64	8.5
pennsylvania	armstrong	upper freeport	5.3	31.4	54.8	13.8	1.8	13030	0	9.0
pennsylvania	armstrong	upper freeport	4.8	33.1	57.2	9.7	2.3	13720	0	9.0
pennsylvania	armstrong	upper freeport	2.9	32.8	51.6	15.6	3.3	12670	62	8.5
pennsylvania	armstrong	upper freeport	2.9	35.9	53.9	10.2	2.7	13580	57	8.5
pennsylvania	armstrong	upper freeport	3.2	38.2	53.0	8.8	4.3	13630	0	7.0
pennsylvania	armstrong	upper freeport	4.1	33.5	55.4	11.1	1.8	13380	60	7.5
pennsylvania	armstrong	upper freeport	4.0	33.5	59.0	7.5	1.4	14080	58	9.0
pennsylvania	armstrong	upper freeport	4.7	33.0	56.4	10.6	1.7	13290	0	1.0
pennsylvania	armstrong	upper freeport	3.4	33.5	56.9	9.6	1.8	13850	62	7.5
pennsylvania	armstrong	upper freeport	6.3	32.2	57.1	10.7	1.5	13040	0	1.0
pennsylvania	armstrong	upper freeport	9.7	31.2	57.7	11.1	1.1	13440	0	7.5
pennsylvania	armstrong	upper freeport	8.6	30.2	54.0	15.8	3.5	12750	0	8.0
pennsylvania	armstrong	upper freeport	4.0	33.0	54.6	12.4	2.2	13330	62	8.5
pennsylvania	armstrong	lower kittanning	3.1	37.2	48.9	13.9	4.2	12840	50	7.5
pennsylvania	armstrong	upper freeport	4.4	33.4	58.6	8.0	1.2	13740	59	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	armstrong	upper freeport	6.1	29.3	51.6	19.1	1.9	12210	0	8.0
pennsylvania	armstrong	upper freeport	3.9	20.8	52.8	17.4	1.7	12450	58	7.5
pennsylvania	armstrong	upper freeport	4.4	32.5	52.7	14.8	2.3	12900	0	7.5
pennsylvania	armstrong	upper freeport	3.9	31.8	52.0	16.2	1.6	12660	0	8.0
pennsylvania	armstrong	upper freeport	4.0	33.1	51.8	15.1	3.7	12760	0	8.5
pennsylvania	armstrong	upper freeport	8.5	33.2	54.1	12.7	1.0	12760	63	2.0
pennsylvania	armstrong	upper freeport	3.2	32.5	54.6	12.9	3.0	13040	57	8.0
pennsylvania	armstrong	upper freeport	7.3	31.1	54.7	14.2	3.7	12850	0	7.0
pennsylvania	armstrong	upper freeport	4.8	32.0	52.6	15.4	4.6	12630	0	7.0
pennsylvania	armstrong	upper freeport	4.2	29.7	50.1	20.2	2.9	11770	0	7.0
pennsylvania	armstrong	lower freeport	2.2	33.9	53.2	12.9	3.5	13150	55	8.0
pennsylvania	armstrong	lower freeport	3.2	36.2	56.9	6.9	2.3	14000	59	7.5
pennsylvania	armstrong	lower freeport	1.6	35.5	54.8	9.7	2.8	13850	62	8.0
pennsylvania	armstrong	upper freeport	3.1	35.3	51.5	13.2	3.9	13110	57	9.0
pennsylvania	armstrong	lower kittanning	2.1	34.5	51.0	14.5	2.8	12900	0	7.5
pennsylvania	armstrong	lower kittanning	1.9	37.4	52.7	9.9	4.5	13670	0	8.0
pennsylvania	armstrong	upper freeport	3.9	34.6	55.5	9.9	1.3	13670	55	8.5
pennsylvania	armstrong	upper freeport	5.0	33.2	56.5	10.3	2.1	13380	0	6.5
pennsylvania	armstrong	upper freeport	5.0	34.1	59.9	6.0	1.4	14210	55	8.0
pennsylvania	armstrong	lower freeport	4.3	35.6	58.2	6.2	1.6	14100	56	6.5
pennsylvania	armstrong	various	6.6	34.8	54.4	10.8	1.5	13110	0	1.5
pennsylvania	armstrong	various	2.9	35.5	56.3	8.2	1.2	13750	0	7.0
pennsylvania	armstrong	upper freeport	3.7	34.9	56.4	8.7	1.7	13790	54	7.5
pennsylvania	armstrong	lower freeport	3.5	35.8	57.0	7.2	1.6	14040	54	7.5
pennsylvania	armstrong	middle kittanning	5.4	33.7	54.0	12.3	1.0	13180	56	7.0
pennsylvania	armstrong	upper freeport	4.6	32.0	55.4	12.6	2.4	13270	67	8.5
pennsylvania	armstrong	lower kittanning	8.4	36.9	52.0	11.1	3.1	13160	65	6.5
pennsylvania	armstrong	various	3.7	32.6	55.6	11.8	2.0	13240	0	6.0
pennsylvania	armstrong	various	4.0	32.1	55.8	12.1	2.1	13140	0	8.0
pennsylvania	armstrong	upper freeport	4.2	33.2	53.4	13.4	2.6	13140	59	7.5
pennsylvania	armstrong	upper kittanning	4.9	33.5	55.1	11.4	2.8	13460	58	7.5
pennsylvania	armstrong	lower kittanning	5.0	33.1	53.9	13.0	2.4	13120	60	7.5
pennsylvania	armstrong	u kittanning&l frept	3.3	34.5	55.9	9.6	2.1	13800	55	7.5
pennsylvania	armstrong	upper freeport	2.7	34.1	51.0	14.9	3.8	12820	58	9.0
pennsylvania	armstrong	upper freeport	3.0	34.9	54.4	10.7	2.1	13480	0	8.5
pennsylvania	armstrong	upper freeport	4.5	33.4	56.6	10.0	1.9	13560	64	6.5
pennsylvania	armstrong	upper freeport	2.2	34.9	56.8	8.3	2.1	13930	63	8.0
pennsylvania	armstrong	upper freeport	2.1	34.0	57.3	8.7	1.9	13870	0	8.0
pennsylvania	armstrong	upper freeport	2.3	34.3	56.3	9.4	1.5	13790	0	8.0
pennsylvania	armstrong	upper freeport	1.8	35.4	51.4	13.2	4.7	13160	64	7.5
pennsylvania	armstrong	lower kittanning	2.3	36.3	51.6	12.1	5.4	13240	62	7.5
pennsylvania	armstrong	upper freeport	5.8	31.1	57.8	11.1	1.5	13500	69	7.0
pennsylvania	armstrong	upper freeport	5.8	34.4	57.6	8.0	1.9	13780	0	7.0
pennsylvania	armstrong	lower freeport	4.3	34.7	56.0	9.3	2.5	13620	0	6.5
pennsylvania	armstrong	lower freeport	4.2	35.2	55.9	8.9	2.8	13690	0	6.5
pennsylvania	armstrong	lower freeport	4.8	35.5	54.2	10.3	3.8	13560	52	6.5
pennsylvania	armstrong	lower freeport	4.7	35.0	57.6	7.4	2.5	13870	0	1.5
pennsylvania	armstrong	lower freeport	5.5	36.2	57.0	6.8	2.9	14020	57	7.5
pennsylvania	armstrong	lower freeport	4.6	36.2	55.5	8.3	3.4	13680	0	6.5
pennsylvania	armstrong	upper freeport	3.9	34.0	55.0	11.0	2.0	13370	61	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	armstrong	upper freeport	2.7	33.6	53.5	12.9	2.0	13080	60	8.0
pennsylvania	armstrong	upper freeport	4.0	39.5	48.5	21.0	1.5	11770	55	7.0
pennsylvania	armstrong	upper freeport	3.0	31.0	47.1	21.9	2.5	11720	0	7.5
pennsylvania	armstrong	upper freeport	7.2	30.3	48.8	20.9	3.0	11800	0	7.5
pennsylvania	armstrong	upper freeport	4.8	34.4	56.8	8.8	1.6	13590	56	5.5
pennsylvania	armstrong	upper freeport	3.6	35.1	55.5	9.4	2.1	13570	0	6.0
pennsylvania	armstrong	upper freeport	4.8	33.8	54.8	11.4	2.7	13280	60	7.0
pennsylvania	armstrong	lower freeport	3.0	34.9	55.7	9.9	2.8	13780	58	7.5
pennsylvania	armstrong	upper freeport	6.9	33.3	54.5	12.2	1.9	13360	65	7.5
pennsylvania	armstrong	upper freeport	3.0	32.8	52.2	15.0	2.4	12800	60	9.0
pennsylvania	armstrong	upper freeport	2.7	31.3	49.3	19.4	2.3	12150	57	7.5
pennsylvania	armstrong	upper freeport	2.5	31.9	51.2	16.9	2.5	12500	59	7.5
pennsylvania	armstrong	upper freeport	3.0	33.8	55.3	10.9	1.7	13570	66	8.5
pennsylvania	armstrong	mahoning	2.4	36.8	48.0	15.2	4.4	12780	61	8.0
pennsylvania	armstrong	mahoning	1.6	38.8	49.4	11.8	4.3	13420	60	8.5
pennsylvania	armstrong	lower kittanning	3.1	35.0	42.9	22.1	5.1	11540	53	6.5
pennsylvania	armstrong	upper freeport	3.1	33.4	55.1	11.5	2.4	13500	0	7.5
pennsylvania	armstrong	upper freeport	2.5	33.6	55.1	11.3	1.8	13210	0	2.0
pennsylvania	armstrong	upper freeport	2.2	33.3	55.8	10.9	2.1	13590	0	7.5
pennsylvania	armstrong	upper freeport	2.3	33.7	55.3	11.0	2.7	13560	68	8.5
pennsylvania	armstrong	upper freeport	2.4	34.0	54.9	11.1	2.5	13560	0	8.5
pennsylvania	armstrong	upper freeport	2.7	33.8	55.2	11.0	2.1	13580	0	7.5
pennsylvania	armstrong	upper freeport	5.8	32.1	54.0	13.9	1.7	12880	53	8.0
pennsylvania	armstrong	uncorrelated	2.7	36.0	48.8	15.2	4.3	12650	57	8.0
pennsylvania	armstrong	upper freeport	4.6	34.3	56.5	9.2	1.5	13550	61	7.5
pennsylvania	armstrong	middle kittanning	3.0	35.9	48.3	15.8	6.6	12500	53	7.5
pennsylvania	armstrong	upper freeport	3.1	32.7	55.5	11.8	1.8	13460	63	7.5
pennsylvania	armstrong	upper freeport	3.9	34.8	55.9	9.3	2.1	13550	54	6.0
pennsylvania	armstrong	upper freeport	6.7	32.4	54.9	12.7	2.5	13000	0	5.0
pennsylvania	armstrong	upper freeport	4.0	32.2	50.8	17.0	2.6	12210	52	6.5
pennsylvania	armstrong	upper freeport	3.6	34.8	53.5	11.7	3.4	13280	0	8.5
pennsylvania	armstrong	upper freeport	3.1	32.5	57.0	10.5	2.1	13610	61	8.0
pennsylvania	armstrong	upper freeport	4.5	31.7	59.3	9.0	1.5	13870	0	8.0
pennsylvania	armstrong	lower kittanning	6.9	37.6	55.4	7.0	1.6	13840	63	4.0
pennsylvania	armstrong	upper freeport	4.2	32.9	57.9	9.2	2.2	13880	66	8.5
pennsylvania	beaver	middle kittanning	5.8	33.8	56.5	9.7	0.9	13480	54	7.5
pennsylvania	beaver	lower kittanning	4.0	37.3	49.9	12.8	3.7	13000	52	7.0
pennsylvania	beaver	middle kittanning	5.2	34.2	55.2	10.6	0.8	13230	54	7.5
pennsylvania	beaver	lower kittanning	4.3	36.4	51.5	12.1	4.3	13020	52	7.0
pennsylvania	beaver	middle kittanning	9.3	36.3	53.3	10.4	1.2	12950	57	1.0
pennsylvania	beaver	upper freeport	4.4	34.0	50.0	12.0	2.8	13040	52	6.5
pennsylvania	beaver	upper freeport	4.1	40.9	52.7	6.4	2.1	13960	0	7.5
pennsylvania	beaver	lower kittanning	6.2	35.6	53.1	11.3	2.8	13320	59	8.0
pennsylvania	beaver	lower kittanning	6.6	34.9	53.2	11.9	2.5	13230	0	7.5
pennsylvania	beaver	middle kittanning	4.3	36.4	49.2	14.4	4.5	12660	55	7.5
pennsylvania	beaver	lower kittanning	4.8	36.5	50.8	12.7	2.3	12930	55	7.0
pennsylvania	bedford	lower kittanning	1.4	15.9	67.5	16.6	0.8	12970	0	5.0
pennsylvania	bedford	lower kittanning	1.5	14.7	72.6	12.7	2.1	13540	0	9.0
pennsylvania	bedford	lower kittanning	2.9	15.8	71.8	12.4	1.8	13620	83	8.5
pennsylvania	bedford	upper freeport	1.8	17.7	69.2	13.1	1.6	13480	0	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
pennsylvania	bedford	lower kittanning	1.4	17.6	67.8	14.6	1.0	13240	0	8.5
pennsylvania	blair	lower kittanning	2.9	23.8	67.5	8.7	0.9	14210	**	9.0
pennsylvania	blair	lower kittanning	3.5	24.8	66.1	9.1	0.8	14140	0	9.0
pennsylvania	blair	various	6.4	27.2	60.0	12.8	1.4	12970	0	8.5
pennsylvania	blair	middle kittanning	5.8	28.0	65.1	6.9	1.8	14160	84	8.0
pennsylvania	blair	middle kittanning	6.6	29.9	60.0	10.1	3.7	13860	81	8.0
pennsylvania	blair	lower kittanning	9.5	29.4	61.3	9.3	0.6	12890	99	1.0
pennsylvania	blair	lower kittanning	4.8	28.4	64.4	7.2	0.9	14290	84	8.5
pennsylvania	blair	brookville	7.6	28.7	61.5	9.8	2.2	13750	80	8.0
pennsylvania	blair	brookville	3.6	28.1	59.0	12.9	3.6	13300	87	8.0
pennsylvania	butler	middle kittanning	3.7	36.3	55.3	8.4	0.9	13750	50	6.5
pennsylvania	butler	brookville	4.9	38.7	50.1	11.2	4.3	13120	55	5.0
pennsylvania	butler	upper freeport	5.0	35.3	55.1	9.6	1.9	13500	50	7.0
pennsylvania	butler	upper kittanning	3.3	35.5	52.3	12.2	4.2	12940	56	8.0
pennsylvania	butler	middle kittanning	4.4	36.9	53.3	9.8	3.4	13500	55	7.0
pennsylvania	butler	middle kittanning	5.7	37.5	52.8	9.7	3.3	13490	55	7.0
pennsylvania	butler	middle kittanning	4.9	38.0	50.5	11.5	3.7	12970	53	4.0
pennsylvania	butler	middle kittanning	7.5	37.3	50.4	12.3	4.2	13060	55	6.0
pennsylvania	butler	upper freeport	5.9	32.3	53.0	14.7	1.8	12780	54	7.0
pennsylvania	butler	upper freeport	2.8	33.9	45.4	20.7	3.7	11670	0	7.5
pennsylvania	butler	upper freeport	4.1	31.2	46.6	22.2	3.3	11420	0	6.5
pennsylvania	butler	middle kittanning	5.0	37.5	49.0	13.5	4.0	12820	50	5.5
pennsylvania	butler	brookville	4.4	37.1	52.7	10.2	2.3	13430	0	6.5
pennsylvania	butler	ukittanning&brookvl	3.4	38.7	53.9	7.4	1.4	13850	0	6.5
pennsylvania	butler	ukittanning&brookvl	5.1	36.4	55.0	8.6	1.9	13610	52	5.5
pennsylvania	butler	upper freeport	4.1	31.4	49.6	19.0	1.3	12030	0	8.0
pennsylvania	butler	l & u freeport	8.4	30.4	57.5	12.1	1.6	12960	64	7.0
pennsylvania	butler	l & m kittanning	8.4	34.4	52.8	12.8	1.1	12600	61	1.0
pennsylvania	butler	upper freeport	2.5	35.8	55.2	9.0	1.4	13800	59	7.5
pennsylvania	butler	upper freeport	3.1	34.6	55.3	10.1	1.4	13550	56	7.5
pennsylvania	butler	upper freeport	2.2	34.6	54.7	10.7	1.2	13460	0	6.5
pennsylvania	butler	upper freeport	5.0	33.5	51.9	14.6	1.5	12820	59	7.5
pennsylvania	butler	lower freeport	5.0	33.8	56.2	10.0	1.6	13380	0	5.0
pennsylvania	butler	l kittanning&u frept	***	35.6	51.7	12.7	1.4	12330	0	3.5
pennsylvania	butler	upper freeport	3.7	40.6	50.2	9.2	4.5	13670	60	7.0
pennsylvania	butler	upper freeport	3.1	39.2	48.7	12.1	4.7	13170	58	7.0
pennsylvania	butler	brookville	4.8	35.4	49.5	15.1	2.0	12490	50	5.0
pennsylvania	butler	clarion	3.9	34.4	39.0	26.6	5.6	10490	50	4.5
pennsylvania	butler	clarion	3.9	33.1	41.3	25.6	3.4	10680	53	4.5
pennsylvania	butler	upper freeport	5.3	30.7	50.9	18.4	2.6	12170	0	7.5
pennsylvania	butler	upper freeport	3.8	31.3	47.7	21.0	2.9	11800	0	7.5
pennsylvania	butler	middle kittanning	6.1	36.9	52.7	10.4	4.4	13390	0	5.5
pennsylvania	butler	middle kittanning	3.0	37.9	50.4	11.7	4.7	13140	54	6.0
pennsylvania	butler	brookville	4.2	36.7	49.5	13.8	3.8	12880	57	6.0
pennsylvania	butler	middle kittanning	3.5	39.2	50.4	10.4	3.7	13410	48	7.5
pennsylvania	butler	lower freeport	4.9	34.5	53.6	11.9	1.9	13190	53	7.0
pennsylvania	butler	lower freeport	4.9	36.4	53.2	10.4	2.1	13320	53	7.5
pennsylvania	butler	middle kittanning	6.8	37.5	47.8	14.7	6.2	12590	52	6.5
pennsylvania	butler	lower kittanning	6.8	34.4	55.2	10.4	0.8	13140	55	1.5
pennsylvania	cambria	upper freeport	3.2	28.0	64.3	7.7	1.4	14270	82	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	cambria	upper freeport	2.7	26.0	62.3	11.7	2.1	13800	99	8.0
pennsylvania	cambria	upper freeport	2.3	25.5	62.1	12.4	2.6	13640	91	8.0
pennsylvania	cambria	lower freeport	8.1	25.0	63.5	11.5	2.4	13730	94	9.0
pennsylvania	cambria	lower freeport	3.9	24.3	65.3	10.4	1.9	13840	**	8.5
pennsylvania	cambria	upper kittanning	2.7	16.3	71.3	12.4	2.9	13580	97	6.5
pennsylvania	cambria	lower kittanning	2.8	24.6	63.8	11.6	1.5	13680	98	8.5
pennsylvania	cambria	lower kittanning	2.3	24.8	64.4	10.8	1.4	13870	94	8.5
pennsylvania	cambria	upper freeport	2.2	23.3	64.8	11.9	4.4	13660	**	9.0
pennsylvania	cambria	upper freeport	2.6	24.9	62.1	13.0	2.8	13490	93	8.5
pennsylvania	cambria	middle kittanning	4.8	24.9	62.7	12.4	0.8	13560	84	8.5
pennsylvania	cambria	lower kittanning	1.7	25.5	62.1	12.4	2.0	13610	89	9.0
pennsylvania	cambria	lower kittanning	1.8	25.1	63.5	11.4	2.4	13760	92	8.5
pennsylvania	cambria	lower kittanning	2.5	25.1	65.4	9.5	1.6	14110	98	9.0
pennsylvania	cambria	lower kittanning	3.0	22.2	70.0	7.8	2.7	14330	**	9.0
pennsylvania	cambria	lower kittanning	2.6	21.3	68.9	9.8	3.7	13960	**	9.0
pennsylvania	cambria	upper freeport	2.4	25.6	66.2	8.2	1.5	14360	89	9.0
pennsylvania	cambria	upper freeport	3.4	25.3	63.2	11.5	2.0	13820	99	8.5
pennsylvania	cambria	lower kittanning	3.0	19.3	73.0	7.7	2.7	14470	**	9.0
pennsylvania	cambria	lower kittanning	3.6	21.0	73.1	5.9	1.8	14780	0	9.0
pennsylvania	cambria	lower freeport	2.3	17.0	74.0	9.0	1.9	14190	**	8.5
pennsylvania	cambria	lower freeport	2.9	23.4	65.7	10.9	2.0	13780	**	8.5
pennsylvania	cambria	lower freeport	2.8	23.7	66.2	10.1	2.1	13960	96	9.0
pennsylvania	cambria	lower freeport	3.4	24.0	65.2	10.8	2.0	13870	98	8.5
pennsylvania	cambria	upper kittanning	4.0	16.3	74.4	9.3	1.9	14160	0	9.0
pennsylvania	cambria	upper kittanning	3.0	18.0	71.0	11.0	1.4	13880	99	9.0
pennsylvania	cambria	middle kittanning	3.8	24.9	62.5	12.6	0.7	13530	87	9.0
pennsylvania	cambria	various	2.6	23.8	67.0	9.2	1.2	14080	0	8.5
pennsylvania	cambria	various	4.0	24.2	67.5	8.3	1.0	14190	0	8.0
pennsylvania	cambria	various	4.4	24.6	66.7	8.7	1.2	14100	0	7.5
pennsylvania	cambria	various	4.4	23.9	68.2	7.9	1.1	14230	0	7.5
pennsylvania	cambria	various	2.2	25.4	66.0	8.6	2.0	14190	0	8.5
pennsylvania	cambria	various	3.8	24.9	65.6	9.5	2.3	14030	0	8.5
pennsylvania	cambria	upper freeport	4.6	24.4	67.3	8.3	1.3	14260	90	9.0
pennsylvania	cambria	lower freeport	2.7	25.4	66.9	7.7	2.3	14350	98	9.0
pennsylvania	cambria	l kittanning&u frent	5.1	25.7	66.5	7.8	1.6	14380	0	9.0
pennsylvania	cambria	lower kittanning	2.2	22.1	68.8	9.1	3.4	14210	0	9.0
pennsylvania	cambria	lower freeport	3.1	24.5	65.9	9.6	1.4	14050	0	9.0
pennsylvania	cambria	upper kittanning	2.6	17.2	71.2	11.6	2.9	13490	0	4.0
pennsylvania	cambria	upper freeport	5.9	24.0	54.6	21.4	1.6	11870	0	8.0
pennsylvania	cambria	upper freeport	2.2	26.1	65.3	8.6	1.4	14260	0	9.0
pennsylvania	cambria	middle kittanning	4.8	23.3	61.1	15.6	1.6	12970	0	8.5
pennsylvania	cambria	l & u kittanning	3.1	23.0	64.2	12.8	2.2	13580	0	9.0
pennsylvania	cambria	lower kittanning	2.0	20.5	72.0	7.5	2.3	14460	0	9.0
pennsylvania	cambria	lower kittanning	3.0	21.4	71.1	7.5	2.2	14500	0	9.0
pennsylvania	cambria	upper freeport	3.4	29.7	62.1	8.2	2.1	14170	86	8.5
pennsylvania	cambria	lower kittanning	2.2	24.7	65.7	9.6	1.5	14120	**	8.5
pennsylvania	cambria	upper freeport	2.7	17.4	70.1	12.5	2.1	13610	97	9.0
pennsylvania	cambria	lower kittanning	2.7	23.0	69.3	7.7	1.6	14420	**	8.5
pennsylvania	cambria	lower kittanning	3.0	23.4	67.6	9.0	1.3	14200	0	8.5
pennsylvania	cambria	lower kittanning	3.2	22.1	69.5	8.4	2.4	14330	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	cambria	lower kittanning	2.9	20.1	67.0	12.9	0.7	13460	90	9.0
pennsylvania	cambria	lower freeport	2.8	23.1	65.6	11.3	2.4	13640	0	9.0
pennsylvania	cambria	lower kittanning	2.6	22.9	68.6	8.5	2.0	14240	99	9.0
pennsylvania	cambria	lower freeport	2.6	22.9	65.8	11.3	2.6	13610	93	9.0
pennsylvania	cambria	upper freeport	2.8	22.2	65.4	12.4	2.0	13590	**	9.0
pennsylvania	cambria	lower kittanning	2.5	21.5	70.5	8.0	0.9	14330	**	9.0
pennsylvania	cambria	upper freeport	3.3	26.1	63.9	10.0	0.7	13820	89	8.0
pennsylvania	cambria	lower kittanning	3.1	20.0	72.2	7.8	1.8	14480	**	9.0
pennsylvania	cambria	lower kittanning	2.7	22.4	69.7	7.9	1.0	14340	**	9.0
pennsylvania	cambria	lower kittanning	2.2	22.5	70.1	7.4	1.5	14450	**	9.0
pennsylvania	cambria	lower kittanning	2.4	19.1	74.2	6.7	0.7	14710	**	9.0
pennsylvania	cambria	lower kittanning	3.2	18.2	74.7	7.1	0.6	14460	**	5.0
pennsylvania	cambria	lower kittanning	8.0	18.8	74.4	6.8	0.6	14390	**	2.0
pennsylvania	cambria	lower kittanning	3.1	19.0	71.8	9.2	1.6	14250	0	9.0
pennsylvania	cambria	lower kittanning	3.1	17.9	73.7	8.4	1.9	14250	**	9.0
pennsylvania	cambria	lower kittanning	3.0	18.3	72.7	9.0	2.2	14200	0	9.0
pennsylvania	cambria	middle kittanning	4.5	24.0	63.1	12.9	0.6	13380	81	8.0
pennsylvania	cambria	lower freeport	3.4	19.1	70.7	10.2	2.4	13910	**	9.0
pennsylvania	cambria	lower kittanning	3.0	22.2	68.3	9.5	1.1	14110	97	9.0
pennsylvania	cambria	upper freeport	4.9	24.9	65.5	9.6	1.9	13030	0	9.0
pennsylvania	cambria	upper freeport	3.5	24.4	63.6	12.0	2.0	13510	94	8.5
pennsylvania	cambria	upper freeport	5.5	24.7	65.1	10.2	1.0	13580	0	5.0
pennsylvania	cambria	upper freeport	4.6	24.7	64.9	10.4	0.5	13730	86	8.5
pennsylvania	cambria	lower freeport	3.0	25.1	62.9	12.0	2.4	13640	91	9.0
pennsylvania	cambria	upper kittanning	3.4	20.6	67.6	11.8	2.4	13710	99	9.0
pennsylvania	cambria	upper kittanning	3.5	21.3	68.1	10.6	2.0	13980	99	9.0
pennsylvania	cambria	upper kittanning	4.4	20.8	71.5	7.7	0.9	14360	**	9.0
pennsylvania	cambria	upper kittanning	3.4	25.7	59.9	14.4	3.3	13140	84	7.5
pennsylvania	cambria	upper freeport	2.6	26.5	61.0	12.5	1.2	13600	90	8.5
pennsylvania	cambria	lower freeport	8.6	27.7	60.7	11.6	1.3	12950	94	1.5
pennsylvania	cambria	lower kittanning	2.9	25.7	59.0	15.3	1.4	12990	79	8.0
pennsylvania	cambria	upper freeport	4.2	26.6	65.6	7.8	1.6	14360	0	8.5
pennsylvania	cambria	upper freeport	3.8	26.8	65.9	7.3	1.4	14440	0	8.5
pennsylvania	cambria	lower freeport	3.2	18.5	69.4	12.1	2.2	13620	**	9.0
pennsylvania	cambria	lower freeport	2.3	18.9	71.0	10.1	2.6	13960	**	9.0
pennsylvania	cambria	lower freeport	3.5	19.5	70.4	10.1	2.6	14030	0	9.0
pennsylvania	cambria	lower freeport	3.2	19.3	71.1	9.6	1.9	14140	**	9.0
pennsylvania	cambria	upper kittanning	3.9	17.2	72.1	10.7	0.7	13950	**	8.5
pennsylvania	cambria	lower freeport	2.2	24.3	62.9	12.8	2.9	13490	98	9.0
pennsylvania	cambria	lower freeport	2.6	24.5	62.6	12.9	3.0	13530	0	8.5
pennsylvania	cambria	lower kittanning	3.5	19.7	68.5	11.8	2.9	13690	**	9.0
pennsylvania	cambria	lower kittanning	3.3	21.3	69.4	9.3	3.3	14190	**	9.0
pennsylvania	cambria	lower kittanning	2.0	22.5	69.9	7.6	2.3	14450	**	9.0
pennsylvania	cambria	various	2.6	25.2	65.1	9.7	1.5	13990	0	8.5
pennsylvania	cambria	l & u freeport	2.7	24.4	64.6	11.0	1.7	13880	93	9.0
pennsylvania	cambria	l & u freeport	2.8	24.9	64.2	10.9	1.7	13830	92	8.5
pennsylvania	cambria	l & u freeport	3.0	24.8	65.2	10.0	1.4	14010	0	9.0
pennsylvania	cambria	upper freeport	2.5	17.0	70.4	12.6	1.3	13600	**	8.0
pennsylvania	cambria	lower kittanning	2.9	22.4	67.6	10.0	1.1	13970	85	8.5
pennsylvania	cambria	lower kittanning	3.9	22.8	66.3	10.9	1.1	13880	96	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	cambria	lower kittanning	2.9	22.5	67.8	9.7	1.2	14040	96	9.0
pennsylvania	cambria	upper freeport	2.5	28.0	58.8	13.2	2.0	13480	87	8.0
pennsylvania	cambria	upper kittanning	2.9	16.3	74.0	9.7	1.4	14060	0	8.0
pennsylvania	cambria	upper kittanning	1.2	16.3	74.0	9.7	0.9	14030	0	7.5
pennsylvania	cambria	upper kittanning	1.3	16.6	74.2	9.2	0.9	14120	0	8.5
pennsylvania	cambria	upper kittanning	1.8	17.2	74.3	8.5	0.8	14280	0	9.0
pennsylvania	cambria	upper kittanning	2.7	16.4	73.3	10.3	1.6	13990	0	7.5
pennsylvania	cambria	upper kittanning	2.6	16.4	74.0	9.6	2.1	14090	**	8.0
pennsylvania	cambria	upper kittanning	2.2	16.5	74.4	9.1	1.4	14220	**	7.0
pennsylvania	cambria	upper kittanning	3.3	17.2	73.2	9.6	1.2	14090	0	8.0
pennsylvania	cambria	upper kittanning	2.9	16.6	73.1	10.3	1.3	13990	96	9.0
pennsylvania	cambria	lower freeport	2.5	24.3	67.3	8.4	1.4	14300	92	9.0
pennsylvania	cambria	lower freeport	4.3	23.7	67.9	8.4	1.2	14200	96	9.0
pennsylvania	cambria	upper freeport	3.5	24.5	65.4	10.1	0.8	13810	92	8.0
pennsylvania	cambria	l & u freeport	2.7	24.9	65.4	9.7	2.1	14010	91	8.5
pennsylvania	cambria	lower kittanning	2.4	22.6	68.1	9.3	1.4	14170	**	9.0
pennsylvania	cambria	lower kittanning	3.6	23.7	65.9	10.4	1.8	13990	0	9.0
pennsylvania	cambria	lower kittanning	4.0	22.5	65.9	11.6	2.0	13850	**	9.0
pennsylvania	cambria	lower kittanning	2.6	20.8	71.0	8.2	2.2	14320	**	9.0
pennsylvania	cambria	lower kittanning	2.0	20.5	70.0	8.6	2.3	14380	**	9.0
pennsylvania	cambria	lower kittanning	2.8	21.0	71.5	7.5	1.7	14470	**	9.0
pennsylvania	cambria	lower kittanning	1.7	18.5	71.5	10.0	2.6	14020	**	9.0
pennsylvania	cambria	lower kittanning	2.1	18.1	72.6	9.3	1.8	14260	**	9.0
pennsylvania	cambria	various	4.2	25.3	64.3	10.4	1.7	13810	0	7.5
pennsylvania	cambria	lower freeport	2.5	25.5	64.3	10.2	2.0	13960	94	8.5
pennsylvania	cambria	lower freeport	2.5	24.0	68.6	7.4	1.7	14410	96	9.0
pennsylvania	cambria	lower kittanning	1.8	18.9	72.4	8.7	2.3	14250	**	9.0
pennsylvania	cambria	lower kittanning	2.8	19.0	73.3	8.7	2.1	14240	**	9.0
pennsylvania	cambria	lower freeport	3.0	23.9	66.4	9.7	1.4	13930	90	8.5
pennsylvania	centre	lower kittanning	2.6	23.5	68.7	7.8	1.7	14320	**	8.5
pennsylvania	centre	brookville	5.3	22.4	63.0	14.6	4.0	12870	**	6.0
pennsylvania	centre	clarion	3.2	22.9	70.9	6.2	0.8	14640	99	7.5
pennsylvania	centre	middle kittanning	4.9	21.8	66.9	11.3	1.8	13710	**	8.0
pennsylvania	centre	clarion	2.8	22.3	66.3	11.4	1.4	13610	98	8.0
pennsylvania	centre	brookville	2.7	24.1	66.2	9.7	0.9	14010	0	7.5
pennsylvania	centre	brookville	3.0	22.7	66.3	11.0	0.9	13810	**	8.5
pennsylvania	centre	brookville	2.9	23.3	66.0	10.7	1.1	13910	96	8.0
pennsylvania	centre	lower kittanning	5.1	20.9	67.9	11.2	2.0	13700	**	7.5
pennsylvania	centre	brookville	3.5	22.0	64.8	13.2	1.1	13410	92	7.5
pennsylvania	centre	lower kittanning	3.3	24.0	66.9	9.1	1.9	14050	**	9.0
pennsylvania	centre	middle kittanning	3.0	21.7	66.7	11.6	3.9	13810	**	9.0
pennsylvania	centre	lower kittanning	3.7	23.4	68.6	8.0	1.4	14350	**	9.0
pennsylvania	centre	lower kittanning	4.9	21.2	69.2	9.6	1.4	14100	**	9.0
pennsylvania	centre	lower kittanning	2.4	25.3	64.6	10.1	3.9	13920	**	9.0
pennsylvania	centre	lower kittanning	3.8	23.4	61.3	15.3	3.2	12970	0	9.0
pennsylvania	centre	lower kittanning	4.6	23.5	62.5	14.0	3.1	13130	0	9.0
pennsylvania	centre	l & m kittanning	3.6	22.6	68.1	9.3	2.9	14160	**	9.0
pennsylvania	centre	lower kittanning	2.5	21.8	67.6	10.6	3.7	13900	**	9.0
pennsylvania	centre	lower kittanning	5.1	22.8	68.2	9.0	2.2	13770	**	7.0
pennsylvania	centre	l kittanning&brookvl	4.4	23.5	66.5	10.0	3.0	13750	**	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
pennsylvania	centre	upper kittanning	7.2	24.4	66.6	9.0	1.5	13720	**	2.5
pennsylvania	centre	clarion	3.4	25.6	64.9	9.5	3.3	13940	**	9.0
pennsylvania	centre	brookville	5.7	22.5	69.0	8.5	1.5	13990	**	3.5
pennsylvania	centre	lower kittanning	2.5	25.9	63.3	10.8	2.8	13900	92	7.5
pennsylvania	centre	brookville	2.7	25.2	61.5	13.3	1.0	13340	84	6.0
pennsylvania	centre	middle kittanning	7.8	22.3	67.1	10.6	2.0	13730	0	9.0
pennsylvania	centre	clarion	5.1	22.3	69.3	8.4	1.1	14220	**	7.5
pennsylvania	centre	lower kittanning	2.5	22.4	56.8	20.8	1.1	12180	80	9.0
pennsylvania	centre	lower kittanning	2.4	22.1	55.7	22.2	1.1	11860	78	8.5
pennsylvania	clarion	lower kittanning	4.7	37.0	54.5	8.5	1.9	13830	57	7.0
pennsylvania	clarion	lower kittanning	3.0	38.7	50.9	10.4	4.3	13480	52	6.5
pennsylvania	clarion	clarion	3.4	39.5	50.6	9.9	4.5	13530	53	7.0
pennsylvania	clarion	various	3.7	36.8	50.1	13.1	3.2	13040	0	7.5
pennsylvania	clarion	m kittanning&u frept	4.2	34.0	56.6	9.4	1.0	13570	54	6.5
pennsylvania	clarion	upper freeport	4.0	35.5	53.6	10.9	1.4	13440	50	6.5
pennsylvania	clarion	lower kittanning	3.2	37.3	52.5	10.2	3.3	13460	60	7.5
pennsylvania	clarion	lower kittanning	2.8	39.4	52.7	7.9	3.1	13870	55	7.0
pennsylvania	clarion	lower kittanning	3.2	37.7	52.1	10.2	3.7	13240	57	7.5
pennsylvania	clarion	lower kittanning	3.0	35.4	54.1	10.5	1.1	13470	57	7.5
pennsylvania	clarion	lower kittanning	2.8	36.4	53.9	9.7	1.9	13630	54	8.0
pennsylvania	clarion	lower kittanning	3.2	36.4	50.9	12.7	2.5	13090	54	7.5
pennsylvania	clarion	lower kittanning	3.5	35.2	53.7	11.1	1.1	13380	51	8.0
pennsylvania	clarion	lower kittanning	8.2	37.8	51.7	10.5	3.6	13430	0	7.5
pennsylvania	clarion	lower kittanning	3.0	37.4	52.4	10.2	2.1	13550	54	7.0
pennsylvania	clarion	lower kittanning	5.1	34.6	55.8	9.6	1.1	13480	62	6.5
pennsylvania	clarion	lower kittanning	5.2	35.5	55.4	9.1	1.5	13660	60	7.0
pennsylvania	clarion	lower freeport	4.1	37.2	54.3	8.5	2.8	13740	62	7.0
pennsylvania	clarion	lower kittanning	3.6	38.7	52.5	8.8	2.4	13640	53	6.5
pennsylvania	clarion	clarion	4.0	42.6	50.4	7.0	4.5	14030	49	5.0
pennsylvania	clarion	clarion	3.0	39.4	50.0	10.6	4.7	13370	52	6.0
pennsylvania	clarion	clarion	4.5	39.2	46.7	14.1	8.1	12690	51	5.5
pennsylvania	clarion	lower kittanning	2.8	37.5	52.6	9.9	2.7	13600	59	7.5
pennsylvania	clarion	lower kittanning	2.4	37.7	50.3	12.0	3.8	13270	60	7.5
pennsylvania	clarion	lower kittanning	2.8	36.9	50.3	12.8	4.3	13150	55	8.5
pennsylvania	clarion	upper freeport	5.1	36.5	53.7	9.8	1.8	13510	56	6.0
pennsylvania	clarion	lower kittanning	3.0	39.5	50.3	10.2	3.7	13530	56	7.0
pennsylvania	clarion	lower kittanning	3.1	38.0	50.4	11.6	3.4	13340	57	7.0
pennsylvania	clarion	clarion	2.9	39.9	51.6	8.5	4.0	13750	49	6.0
pennsylvania	clarion	lower kittanning	5.5	36.0	53.1	10.9	1.2	13140	64	4.0
pennsylvania	clarion	lower kittanning	2.7	37.1	54.3	8.6	0.8	13840	53	8.5
pennsylvania	clarion	lower kittanning	2.6	36.0	47.1	16.9	3.4	12470	53	7.0
pennsylvania	clarion	clarion	5.5	37.8	46.3	15.9	6.2	12510	0	8.0
pennsylvania	clarion	lower kittanning	6.6	31.3	53.6	15.1	2.2	12700	0	7.5
pennsylvania	clarion	clarion	3.3	38.4	51.4	10.2	3.9	13670	57	8.0
pennsylvania	clarion	clarion	3.2	39.7	50.0	10.3	4.2	13540	0	8.0
pennsylvania	clarion	clarion	3.7	39.0	46.5	14.5	8.0	12690	48	7.5
pennsylvania	clarion	lower freeport	2.8	35.4	50.5	14.1	2.6	12960	53	7.5
pennsylvania	clarion	various	2.8	38.2	51.8	10.0	2.8	13470	0	6.0
pennsylvania	clarion	lower kittanning	3.4	39.2	49.0	11.8	3.8	13170	53	5.5
pennsylvania	clarion	lower kittanning	4.3	37.8	51.7	10.5	4.0	13440	59	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	clarion	upper freeport	4.0	34.9	52.3	12.8	1.9	13070	52	8.0
pennsylvania	clearfield	middle kittanning	***	22.9	71.3	5.8	1.8	14370	**	3.5
pennsylvania	clearfield	upper freeport	4.4	24.5	62.5	11.0	0.8	13830	93	9.0
pennsylvania	clearfield	lower freeport	2.8	24.2	65.2	10.6	2.3	13840	96	9.0
pennsylvania	clearfield	lower freeport	3.0	23.4	64.5	12.1	2.7	13610	94	9.0
pennsylvania	clearfield	middle kittanning	3.5	24.2	68.5	7.3	1.5	14230	0	9.0
pennsylvania	clearfield	lower kittanning	2.8	22.5	66.4	11.1	4.4	13580	0	9.0
pennsylvania	clearfield	lower kittanning	4.3	25.4	65.2	9.4	2.1	14090	**	8.5
pennsylvania	clearfield	lower kittanning	5.4	23.5	63.9	12.6	2.5	13350	**	7.5
pennsylvania	clearfield	lower freeport	5.2	25.5	65.9	8.6	1.0	14020	83	7.5
pennsylvania	clearfield	lower freeport	4.2	26.8	63.3	9.9	2.5	13910	90	8.0
pennsylvania	clearfield	lower freeport	4.9	25.7	63.5	10.8	2.7	13830	94	8.0
pennsylvania	clearfield	middle kittanning	5.0	23.5	65.5	11.0	2.1	13680	95	8.5
pennsylvania	clearfield	lower kittanning	5.0	23.4	66.2	10.4	0.8	13910	92	8.5
pennsylvania	clearfield	various	5.1	22.2	63.6	14.2	3.5	12980	0	8.5
pennsylvania	clearfield	upper kittanning	3.8	22.4	67.4	10.2	0.6	13950	**	8.5
pennsylvania	clearfield	middle kittanning	3.1	22.5	66.0	11.5	0.5	13640	94	8.0
pennsylvania	clearfield	middle kittanning	8.8	22.3	70.4	7.3	1.0	14080	**	2.0
pennsylvania	clearfield	lower kittanning	2.8	21.0	64.6	14.4	3.3	13200	**	8.5
pennsylvania	clearfield	lower kittanning	7.3	25.6	66.3	8.1	0.8	13620	**	6.0
pennsylvania	clearfield	l & m kittanning	3.5	22.7	64.9	12.4	4.2	13570	**	9.0
pennsylvania	clearfield	various	5.8	25.8	63.4	10.8	1.4	13690	0	2.0
pennsylvania	clearfield	various	6.2	26.1	64.0	9.9	0.9	13730	0	2.5
pennsylvania	clearfield	upper freeport	3.8	24.9	60.4	14.7	1.7	13220	84	8.0
pennsylvania	clearfield	lower freeport	4.1	25.5	66.5	8.0	1.5	14360	89	8.5
pennsylvania	clearfield	various	5.7	21.9	66.1	12.0	2.8	13520	0	9.0
pennsylvania	clearfield	l kittanning&l freeport	2.8	28.1	64.6	7.3	1.1	14350	86	8.0
pennsylvania	clearfield	upper kittanning	6.1	21.7	70.9	7.4	0.9	14280	**	5.0
pennsylvania	clearfield	upper kittanning	4.7	22.3	69.1	8.6	0.7	13950	95	4.0
pennsylvania	clearfield	lower freeport	4.9	24.4	65.6	10.0	0.9	13770	96	8.5
pennsylvania	clearfield	lower kittanning	3.1	22.2	66.7	11.1	1.7	13770	0	8.5
pennsylvania	clearfield	middle kittanning	5.0	24.9	63.1	12.0	3.9	13360	**	8.0
pennsylvania	clearfield	lower freeport	5.4	23.7	67.2	9.1	1.0	13930	93	7.5
pennsylvania	clearfield	lower freeport	2.2	23.8	63.6	12.6	2.1	13530	89	8.5
pennsylvania	clearfield	lower freeport	2.6	31.9	59.1	9.0	3.5	13960	68	5.0
pennsylvania	clearfield	lower freeport	2.7	31.5	59.3	9.2	3.5	13910	67	7.0
pennsylvania	clearfield	lower kittanning	2.8	25.8	66.3	7.9	1.4	14290	96	9.0
pennsylvania	clearfield	lower kittanning	2.6	25.8	64.1	10.1	2.2	14020	93	8.5
pennsylvania	clearfield	upper freeport	3.9	24.3	66.4	9.3	1.5	14190	**	9.0
pennsylvania	clearfield	lower kittanning	2.5	23.8	65.6	10.6	1.7	13940	0	8.5
pennsylvania	clearfield	l & m kittanning	3.9	24.7	65.6	9.7	1.9	13750	0	8.0
pennsylvania	clearfield	upper kittanning	5.2	23.7	67.4	8.9	0.8	14280	97	9.0
pennsylvania	clearfield	middle kittanning	4.6	23.2	66.0	10.8	3.2	13750	98	8.5
pennsylvania	clearfield	middle kittanning	3.3	23.0	65.3	11.7	2.5	13680	94	8.5
pennsylvania	clearfield	l & u freeport	3.8	24.8	67.1	8.1	1.2	14370	93	9.0
pennsylvania	clearfield	upper freeport	3.4	23.0	65.1	11.9	1.2	13710	89	9.0
pennsylvania	clearfield	upper kittanning	2.8	21.5	64.7	13.8	0.8	13240	0	9.0
pennsylvania	clearfield	middle kittanning	2.5	24.9	63.7	11.4	3.1	13670	0	9.0
pennsylvania	clearfield	lower kittanning	2.7	22.6	65.0	12.4	5.0	13390	94	9.0
pennsylvania	clearfield	lower kittanning	2.8	22.9	58.4	18.7	5.0	12260	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	clearfield	lower kittanning	2.7	21.7	58.4	19.9	2.6	12220	0	9.0
pennsylvania	clearfield	upper freeport	4.3	22.9	65.6	11.5	0.9	13660	0	8.0
pennsylvania	clearfield	upper freeport	2.8	23.3	65.5	11.2	1.1	13800	0	9.0
pennsylvania	clearfield	upper freeport	3.4	23.8	65.7	10.5	1.4	13990	88	9.0
pennsylvania	clearfield	lower kittanning	2.4	23.0	68.0	9.0	2.8	14180	**	9.0
pennsylvania	clearfield	lower freeport	3.7	22.3	72.1	5.6	0.7	14740	**	9.0
pennsylvania	clearfield	lower freeport	1.7	23.4	64.9	11.7	1.9	13700	0	9.0
pennsylvania	clearfield	lower freeport	3.2	23.2	69.7	7.1	1.2	14440	0	8.5
pennsylvania	clearfield	lower kittanning	3.0	25.1	63.9	11.0	3.3	13780	45	8.5
pennsylvania	clearfield	lower freeport	1.7	26.9	61.8	11.3	2.0	13680	85	8.5
pennsylvania	clearfield	l & u freeport	5.7	25.8	64.9	9.3	0.8	13780	91	5.0
pennsylvania	clearfield	middle kittanning	5.1	24.1	65.6	10.3	1.3	13690	**	5.5
pennsylvania	clearfield	upper kittanning	2.3	22.1	64.7	13.2	2.8	13460	99	9.0
pennsylvania	clearfield	upper kittanning	3.4	22.0	66.9	11.1	2.5	13730	98	9.0
pennsylvania	clearfield	lower kittanning	4.2	23.4	65.8	10.8	3.3	13910	**	9.0
pennsylvania	clearfield	l & u kittanning	3.3	23.1	67.1	9.8	1.0	14050	95	9.0
pennsylvania	clearfield	l & m kittanning	4.2	24.1	67.2	8.7	0.9	14170	98	8.5
pennsylvania	clearfield	l & u freeport	4.0	24.7	67.8	7.5	1.0	14340	90	8.5
pennsylvania	clearfield	middle kittanning	2.3	23.2	65.7	11.1	3.7	13750	**	9.0
pennsylvania	clearfield	upper freeport	2.9	24.4	64.2	11.4	2.9	13810	95	8.5
pennsylvania	clearfield	upper freeport	2.7	25.0	66.2	8.8	2.3	14200	97	9.0
pennsylvania	clearfield	upper freeport	3.2	24.8	62.1	13.1	1.7	13420	92	8.5
pennsylvania	clearfield	upper kittanning	3.7	23.0	67.4	9.6	0.9	13520	**	1.5
pennsylvania	clearfield	middle kittanning	2.5	20.7	65.2	14.1	2.3	13180	96	9.0
pennsylvania	clearfield	middle kittanning	3.2	20.9	66.3	12.8	4.2	13450	0	9.0
pennsylvania	clearfield	middle kittanning	3.5	21.2	66.5	12.3	4.2	13560	**	9.0
pennsylvania	clearfield	middle kittanning	2.8	21.9	68.3	9.8	2.9	13950	0	9.0
pennsylvania	clearfield	upper freeport	3.4	23.5	66.1	10.4	1.0	13890	89	9.0
pennsylvania	clearfield	upper freeport	2.0	24.5	65.8	9.7	1.0	14100	87	9.0
pennsylvania	clearfield	upper freeport	3.1	24.8	64.4	10.8	1.3	13790	0	7.5
pennsylvania	clearfield	upper freeport	2.7	25.6	64.3	10.1	1.0	14030	84	8.0
pennsylvania	clearfield	upper freeport	2.7	23.4	65.4	11.7	0.6	13870	89	8.5
pennsylvania	clearfield	upper kittanning	4.3	22.9	67.1	10.0	0.7	13840	97	7.5
pennsylvania	clearfield	upper kittanning	6.3	22.2	66.7	11.1	0.4	13420	99	2.5
pennsylvania	clearfield	lower kittanning	2.3	23.4	65.6	11.0	3.5	13850	0	9.0
pennsylvania	clearfield	lower kittanning	2.9	22.6	67.7	9.7	2.1	14110	95	9.0
pennsylvania	clearfield	lower kittanning	3.5	23.3	66.3	10.4	2.0	13950	**	9.0
pennsylvania	clearfield	upper kittanning	3.3	25.8	65.8	8.4	2.3	14220	95	8.5
pennsylvania	clearfield	lower freeport	4.6	24.5	65.3	10.2	0.9	13650	87	6.0
pennsylvania	clearfield	middle kittanning	5.4	25.0	64.1	10.9	1.1	13530	96	3.0
pennsylvania	clearfield	upper freeport	2.5	24.5	61.6	13.9	0.8	13240	0	9.0
pennsylvania	clearfield	lower freeport	2.1	24.9	63.6	11.5	3.1	13600	0	9.0
pennsylvania	clearfield	lower kittanning	1.9	25.1	64.0	10.9	3.4	13840	98	9.0
pennsylvania	clearfield	lower kittanning	2.8	23.2	66.7	10.1	1.0	13980	**	9.0
pennsylvania	clearfield	lower freeport	3.2	25.4	66.4	8.2	2.2	14230	0	9.0
pennsylvania	clearfield	lower kittanning	2.7	22.5	68.5	9.0	2.0	14200	**	9.0
pennsylvania	clearfield	lower kittanning	2.7	24.3	64.5	11.2	2.5	13820	**	9.5
pennsylvania	clearfield	upper kittanning	2.3	21.8	63.0	15.2	4.0	13090	95	9.0
pennsylvania	clearfield	various	3.8	25.1	65.2	9.7	1.7	13990	0	8.0
pennsylvania	clearfield	various	3.6	24.9	64.5	10.6	1.6	13830	0	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	clearfield	upper freeport	3.9	24.4	60.4	15.2	2.0	13170	87	8.5
pennsylvania	clearfield	lower freeport	7.4	25.3	65.1	9.6	0.8	13750	**	7.0
pennsylvania	clearfield	lower freeport	4.7	25.3	64.6	10.1	1.4	13870	88	8.5
pennsylvania	clearfield	lower freeport	3.8	25.5	66.5	8.0	1.5	14190	94	9.0
pennsylvania	clearfield	upper freeport	4.1	26.3	65.7	8.0	0.4	13900	79	4.0
pennsylvania	clearfield	upper freeport	2.6	26.2	60.0	13.8	1.8	13300	82	8.5
pennsylvania	clearfield	lower kittanning	1.7	25.7	63.6	10.7	3.3	13800	95	9.0
pennsylvania	clearfield	lower freeport	7.3	26.3	63.8	9.9	0.6	13650	88	5.0
pennsylvania	clearfield	lower kittanning	2.0	21.7	64.9	13.4	5.7	13210	99	9.0
pennsylvania	clearfield	various	4.5	27.2	64.4	8.4	1.1	14010	0	2.5
pennsylvania	clearfield	lower kittanning	5.1	26.3	63.6	10.1	0.7	13660	91	5.5
pennsylvania	clearfield	lower kittanning	4.1	28.1	64.9	7.0	0.8	14340	83	8.0
pennsylvania	clearfield	lower freeport	4.1	33.9	58.4	7.7	2.0	14220	67	7.5
pennsylvania	clearfield	various	3.7	23.1	64.3	12.6	1.6	13370	0	8.5
pennsylvania	clearfield	middle kittanning	3.9	21.6	70.3	8.1	1.2	14330	**	8.5
pennsylvania	clearfield	lower kittanning	1.9	19.9	71.7	8.4	1.2	14320	**	9.0
pennsylvania	clearfield	various	3.4	24.0	63.3	12.7	2.8	13380	0	7.5
pennsylvania	clearfield	various	3.1	23.0	63.4	13.6	3.6	13320	0	8.0
pennsylvania	clearfield	middle kittanning	3.5	20.5	68.0	11.5	1.9	13800	**	9.0
pennsylvania	clearfield	upper freeport	4.6	26.1	64.2	9.7	1.2	13920	80	8.5
pennsylvania	clearfield	lower freeport	3.1	25.2	63.9	10.9	3.4	13790	0	8.5
pennsylvania	clearfield	lower kittanning	4.1	21.1	68.2	10.7	3.0	13850	**	9.0
pennsylvania	clearfield	upper kittanning	4.5	25.0	67.4	7.6	1.6	14330	94	9.0
pennsylvania	clearfield	lower kittanning	5.9	22.8	68.9	8.3	2.3	14270	**	9.0
pennsylvania	clearfield	upper kittanning	1.8	26.2	64.8	9.0	2.5	14050	88	7.5
pennsylvania	clearfield	middle kittanning	4.0	22.7	64.0	13.3	1.8	13150	0	7.5
pennsylvania	clearfield	lower kittanning	4.1	22.3	65.1	12.6	4.3	13540	**	9.0
pennsylvania	clearfield	lower freeport	3.3	29.6	60.5	9.9	3.0	13830	0	8.0
pennsylvania	clearfield	lower kittanning	2.8	21.0	65.2	13.8	2.4	13310	97	9.0
pennsylvania	clearfield	lower kittanning	2.1	31.0	58.8	10.2	3.4	13900	86	8.0
pennsylvania	clearfield	lower kittanning	1.6	32.9	58.0	9.1	3.1	13950	71	8.0
pennsylvania	clearfield	lower kittanning	2.5	33.2	56.8	10.0	4.0	13850	83	8.5
pennsylvania	clearfield	lower kittanning	2.7	30.2	58.6	11.2	3.1	13750	0	7.0
pennsylvania	clearfield	lower kittanning	2.8	30.5	55.8	13.7	3.8	13180	73	7.5
pennsylvania	clearfield	lower kittanning	4.8	30.2	59.8	10.0	3.1	13840	80	8.5
pennsylvania	clearfield	lower kittanning	2.8	31.7	55.6	12.7	3.1	13310	73	8.0
pennsylvania	clearfield	lower kittanning	4.2	31.4	57.9	10.7	3.1	13630	0	7.5
pennsylvania	clearfield	l kittanning&brookvl	7.1	20.2	71.2	8.6	1.4	14280	**	9.0
pennsylvania	clearfield	lower freeport	3.5	26.4	63.3	10.3	1.3	13860	85	8.0
pennsylvania	clearfield	lower kittanning	2.7	23.2	64.5	12.3	3.9	13550	**	8.0
pennsylvania	clearfield	m kittanning&brookvl	5.1	21.8	66.6	11.6	2.2	13610	0	7.5
pennsylvania	clearfield	l & m kittanning	4.2	22.7	67.8	9.5	1.8	13900	**	7.0
pennsylvania	clearfield	lower freeport	2.9	24.8	65.2	10.0	2.0	14070	95	8.0
pennsylvania	clearfield	middle kittanning	4.6	27.3	59.7	13.0	2.5	13340	93	7.5
pennsylvania	clearfield	lower kittanning	2.4	29.7	58.9	11.4	2.8	13600	82	8.0
pennsylvania	clearfield	lower kittanning	2.7	22.6	67.2	10.2	3.4	14000	**	9.0
pennsylvania	clearfield	middle kittanning	3.3	25.0	59.8	15.2	2.7	13100	0	8.0
pennsylvania	clearfield	lower freeport	3.6	24.4	65.7	9.9	1.3	13930	92	8.0
pennsylvania	clearfield	lower kittanning	2.2	20.4	69.9	9.7	1.2	14170	**	9.0
pennsylvania	clearfield	lower kittanning	2.5	21.6	69.4	9.0	1.1	14220	**	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	otu	hgilo	fsilo
pennsylvania	clearfield	lower kittanning	***	22.6	65.8	11.6	0.9	12740	**	1.0
pennsylvania	clearfield	lower kittanning	3.3	23.9	67.5	8.6	1.3	14120	98	9.0
pennsylvania	clearfield	upper freeport	3.0	24.8	63.7	11.5	1.4	13650	83	9.0
pennsylvania	clearfield	lower freeport	2.8	25.5	67.2	7.3	1.6	14420	93	9.0
pennsylvania	clearfield	l & u freeport	5.0	27.7	66.2	11.1	1.0	13680	88	8.0
pennsylvania	clearfield	upper freeport	3.2	26.3	61.2	12.5	2.1	13560	83	8.5
pennsylvania	clearfield	lower freeport	5.5	25.4	65.2	9.4	1.2	13990	92	8.5
pennsylvania	clearfield	lower kittanning	2.2	24.2	62.9	12.9	3.6	13470	**	9.0
pennsylvania	clearfield	lower kittanning	3.4	23.6	70.1	6.3	0.8	14430	95	8.5
pennsylvania	clearfield	upper freeport	2.9	26.2	62.0	11.8	1.5	13670	91	8.5
pennsylvania	clearfield	m kittanning&u frept	3.6	26.3	60.0	13.7	2.6	13330	88	8.5
pennsylvania	clearfield	upper freeport	2.8	24.0	64.7	11.3	1.1	13850	90	8.5
pennsylvania	clearfield	upper kittanning	4.4	27.9	56.2	15.9	2.7	12870	0	8.0
pennsylvania	clearfield	middle kittanning	3.9	28.5	60.8	10.7	1.6	13750	81	8.0
pennsylvania	clearfield	lower kittanning	2.5	29.3	58.3	12.4	2.6	13490	79	8.0
pennsylvania	clearfield	lower kittanning	3.0	29.6	60.0	10.4	3.0	13800	87	8.0
pennsylvania	clearfield	lower kittanning	2.8	31.0	58.1	10.9	3.6	13640	81	8.0
pennsylvania	clearfield	lower freeport	2.2	23.4	64.3	12.1	1.6	13660	96	9.0
pennsylvania	clearfield	lower kittanning	6.0	23.3	66.0	10.7	2.3	13800	95	9.0
pennsylvania	clearfield	lower kittanning	3.7	22.2	70.1	7.7	1.0	14370	**	9.0
pennsylvania	clearfield	various	2.9	23.6	65.9	10.5	1.5	13860	0	6.0
pennsylvania	clearfield	various	5.6	23.3	67.0	9.7	1.1	13970	0	8.5
pennsylvania	clearfield	upper freeport	3.2	27.9	67.2	9.9	0.7	14100	93	9.0
pennsylvania	clearfield	lower freeport	4.7	23.6	66.9	9.5	1.3	13720	U	7.0
pennsylvania	clearfield	l & u freeport	3.2	23.2	68.3	8.5	0.6	14220	89	8.5
pennsylvania	clearfield	various	6.1	24.7	62.5	12.8	1.9	13230	0	9.0
pennsylvania	clearfield	lower kittanning	2.8	27.0	66.6	6.4	1.2	14690	93	8.5
pennsylvania	clearfield	lower kittanning	4.7	26.5	65.2	8.3	2.3	14170	U	8.5
pennsylvania	clearfield	l kittanning&l frept	4.1	25.2	66.2	8.6	1.9	14180	0	8.5
pennsylvania	clearfield	upper freeport	3.3	23.5	67.5	9.0	0.9	14160	95	8.5
pennsylvania	clearfield	upper freeport	4.3	24.6	67.0	8.4	0.7	13830	91	1.5
pennsylvania	clearfield	lower freeport	2.8	23.8	66.9	9.3	1.5	14100	98	9.0
pennsylvania	clearfield	lower freeport	4.7	22.8	70.5	6.7	1.0	14470	**	8.5
pennsylvania	clearfield	lower freeport	4.1	25.4	65.9	8.7	1.3	14030	98	8.0
pennsylvania	clearfield	l & u freeport	3.2	23.3	68.2	8.5	1.2	14210	96	9.0
pennsylvania	clearfield	l & u freeport	3.9	24.8	66.3	8.9	1.0	14160	U	9.0
pennsylvania	clinton	lower kittanning	4.0	21.6	66.9	11.5	4.1	13720	**	8.5
pennsylvania	clinton	upper kittanning	5.2	24.6	66.1	9.3	2.4	14100	**	8.5
pennsylvania	clinton	l & m kittanning	4.1	22.4	66.6	11.0	2.4	13800	**	9.0
pennsylvania	clinton	lower kittanning	4.3	22.3	69.2	8.8	4.3	14170	**	9.0
pennsylvania	clinton	middle kittanning	8.9	23.7	64.5	11.8	2.7	13280	**	4.0
pennsylvania	clinton	lower freeport	3.8	24.9	67.4	7.7	2.1	14460	**	9.0
pennsylvania	clinton	middle kittanning	3.9	25.5	66.0	8.5	3.1	14010	0	9.0
pennsylvania	clinton	lower kittanning	5.0	21.8	69.3	8.9	2.3	13950	0	7.5
pennsylvania	elk	various	2.2	33.2	59.7	7.1	1.6	14060	0	8.0
pennsylvania	elk	various	5.1	33.1	59.4	7.5	1.4	13840	0	7.5
pennsylvania	elk	various	5.6	32.9	58.7	8.4	1.4	13610	0	1.5
pennsylvania	elk	middle kittanning	5.5	31.2	59.4	9.4	1.9	13730	0	8.0
pennsylvania	elk	lower kittanning	3.7	32.7	56.7	10.6	2.5	13620	0	8.5
pennsylvania	elk	l & m kittanning	5.2	33.1	55.5	11.4	2.6	13450	62	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	elk	l & m kittanning	6.1	31.3	59.5	9.2	1.9	13720	0	8.5
pennsylvania	elk	l & m kittanning	3.9	34.1	59.1	6.8	1.5	14110	64	8.0
pennsylvania	elk	l & m kittanning	6.1	33.2	60.4	6.4	1.5	14030	0	7.5
pennsylvania	elk	middle kittanning	2.3	33.9	57.5	8.5	3.9	14130	84	8.0
pennsylvania	elk	l & m kittanning	3.0	30.5	56.9	12.6	3.3	13460	87	8.0
pennsylvania	elk	lower kittanning	***	34.1	51.1	14.8	3.0	12720	0	8.0
pennsylvania	fayette	sewickley	2.9	33.2	55.0	11.8	3.3	13470	0	8.0
pennsylvania	fayette	upper freeport	3.4	28.6	63.0	8.4	3.1	14150	0	8.5
pennsylvania	fayette	lower freeport	3.2	28.1	58.8	13.1	2.0	13260	74	8.0
pennsylvania	fayette	pittsburgh	3.0	33.9	55.8	10.3	3.1	13650	0	7.5
pennsylvania	fayette	pittsburgh	4.6	34.1	56.4	9.5	3.2	13790	71	8.0
pennsylvania	fayette	redstone	3.1	32.3	57.3	10.4	0.9	13670	62	8.5
pennsylvania	fayette	redstone	3.3	32.1	57.1	10.8	1.3	13580	75	8.5
pennsylvania	fayette	pittsburgh	2.7	35.0	56.8	8.2	2.2	14040	71	8.0
pennsylvania	fayette	pittsburgh	2.0	34.8	55.7	9.5	2.8	13830	67	8.0
pennsylvania	fayette	redstone	3.1	30.9	54.1	15.0	3.0	12750	65	8.5
pennsylvania	fayette	lower kittanning	2.6	24.4	66.8	8.8	2.1	14170	0	9.0
pennsylvania	fayette	redstone&waynesburg	3.4	32.6	50.5	16.9	2.2	12460	61	8.0
pennsylvania	fayette	redstone	7.8	31.1	53.8	15.1	1.4	12160	71	2.0
pennsylvania	fayette	pittsburgh	2.7	34.4	55.0	10.6	3.5	13630	71	8.0
pennsylvania	fayette	pittsburgh	2.5	35.0	55.8	9.2	3.0	13870	0	8.5
pennsylvania	fayette	lower kittanning	2.4	26.8	66.5	6.7	1.6	14530	0	9.0
pennsylvania	fayette	pittsburgh	3.0	34.0	56.8	9.2	1.9	13850	62	8.0
pennsylvania	fayette	pittsburgh	2.4	33.5	57.3	9.2	2.0	13850	64	8.0
pennsylvania	fayette	pittsburgh	3.6	30.8	60.5	8.7	1.3	13970	70	9.0
pennsylvania	fayette	lower kittanning	2.9	28.8	61.6	9.6	2.7	13940	76	8.5
pennsylvania	fayette	l kittanning&brookv	7.1	20.2	71.2	8.6	1.4	14280	**	9.0
pennsylvania	fayette	upper freeport	2.6	32.0	59.2	8.8	2.2	14030	0	8.0
pennsylvania	fayette	pittsburgh	3.1	31.8	58.4	9.8	1.1	13830	69	8.0
pennsylvania	fayette	pittsburgh	2.8	31.8	60.8	7.4	1.0	14270	66	8.0
pennsylvania	fayette	pittsburgh	3.6	34.6	57.3	8.1	1.2	14010	66	8.5
pennsylvania	fayette	sewickley	3.1	34.7	53.0	12.3	3.3	13290	66	8.5
pennsylvania	fayette	sewickley	1.8	34.4	51.0	14.6	4.1	12820	0	8.0
pennsylvania	fayette	redstone & sewickley	4.0	33.6	53.8	12.6	1.8	13150	65	8.5
pennsylvania	fayette	pittsburgh	2.9	34.8	54.8	10.4	2.4	13710	65	8.5
pennsylvania	fayette	pittsburgh	2.7	36.2	57.1	6.7	2.5	14280	72	8.0
pennsylvania	fayette	upper kittanning	2.9	24.8	65.4	9.8	2.8	14050	**	8.5
pennsylvania	fayette	upper kittanning	3.0	24.9	65.0	10.1	3.0	13920	0	8.5
pennsylvania	fayette	upper kittanning	2.2	25.2	64.1	10.7	3.3	13880	0	8.5
pennsylvania	fayette	sewickley	2.7	33.3	49.9	16.8	3.6	12620	65	8.0
pennsylvania	greene	sewickley	4.4	33.5	53.5	13.0	2.1	13150	59	8.0
pennsylvania	greene	sewickley	4.6	33.1	53.4	13.5	0.9	13060	0	9.0
pennsylvania	greene	pittsburgh	2.6	36.4	51.3	12.3	3.3	13310	67	8.0
pennsylvania	greene	waynesburg	3.1	34.1	49.6	16.3	2.1	12510	0	7.0
pennsylvania	greene	waynesburg	2.8	34.2	48.4	17.4	2.1	12340	0	7.0
pennsylvania	greene	pittsburgh	2.1	36.2	58.2	5.6	1.1	14260	0	9.0
pennsylvania	greene	pittsburgh	2.2	38.2	51.3	10.5	3.6	13460	0	8.5
pennsylvania	greene	waynesburg	4.5	34.9	53.5	11.6	1.6	13330	0	7.5
pennsylvania	greene	pittsburgh	2.1	36.6	55.2	9.2	2.6	13840	0	8.5
pennsylvania	greene	pittsburgh	1.7	36.0	51.3	12.7	3.5	13340	64	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	greene	pittsburgh	2.3	35.0	53.8	11.2	2.5	13490	61	7.5
pennsylvania	greene	pittsburgh	3.3	33.4	50.6	16.0	3.0	12720	66	7.5
pennsylvania	greene	sewickley	4.0	33.9	54.3	11.8	2.0	13410	61	7.0
pennsylvania	greene	sewickley	2.8	34.5	54.4	11.1	1.1	13450	62	8.0
pennsylvania	greene	sewickley	2.8	34.3	54.1	11.6	2.0	13390	0	8.0
pennsylvania	greene	sewickley	2.2	34.8	54.6	10.6	1.3	13380	0	7.5
pennsylvania	greene	nittsburgh	1.8	37.3	54.3	8.4	2.0	13890	0	9.0
pennsylvania	greene	sewickley	2.1	34.9	51.7	13.4	2.8	13090	62	8.0
pennsylvania	greene	sewickley	4.2	33.7	54.1	12.2	2.0	13240	61	8.0
pennsylvania	greene	sewickley	2.7	35.2	52.4	12.4	2.3	13220	58	7.5
pennsylvania	greene	sewickley	4.1	32.7	49.2	18.1	2.7	12290	57	7.5
pennsylvania	greene	pittsburgh	2.1	36.7	53.9	9.4	3.3	13830	0	8.5
pennsylvania	greene	pittsburgh	2.5	35.2	55.0	9.8	1.5	13760	0	8.5
pennsylvania	greene	pittsburgh	3.3	34.7	52.6	12.7	3.1	13180	0	8.0
pennsylvania	greene	pittsburgh	5.8	35.2	53.4	11.4	2.8	13450	0	6.0
pennsylvania	greene	pittsburgh	2.0	36.2	55.0	8.8	2.7	13850	0	7.0
pennsylvania	greene	sewickley	3.2	35.7	53.7	10.6	2.4	13570	0	7.5
pennsylvania	greene	sewickley	2.9	34.8	53.8	11.4	3.5	13320	0	9.0
pennsylvania	greene	nittsburgh	2.4	34.4	56.3	9.3	2.2	13780	0	8.5
pennsylvania	huntingdon	clarion&l kittanning	5.8	15.7	75.3	9.0	1.4	14173	0	7.0
pennsylvania	indiana	upper freeport	4.8	29.1	58.7	12.2	0.8	13200	71	6.0
pennsylvania	indiana	upper freeport	4.8	28.7	61.1	10.2	2.4	13830	0	7.5
pennsylvania	indiana	various	6.2	27.5	61.0	11.5	0.6	13190	0	1.0
pennsylvania	indiana	upper freeport	1.9	30.4	59.2	11.4	3.0	13610	78	7.0
pennsylvania	indiana	upper freeport	3.2	27.8	62.0	10.2	1.2	13850	75	8.0
pennsylvania	indiana	lower freeport	2.9	27.6	60.6	11.8	1.7	13560	71	8.0
pennsylvania	indiana	lower freeport	3.2	29.5	60.0	10.5	2.8	13830	83	8.0
pennsylvania	indiana	lower kittanning	5.3	26.9	62.5	10.6	1.0	13610	0	8.5
pennsylvania	indiana	lower kittanning	2.3	28.2	61.5	10.3	0.8	14000	91	8.0
pennsylvania	indiana	lower kittanning	3.6	28.4	64.0	7.6	1.5	14480	99	9.0
pennsylvania	indiana	m kittanning&u frent	3.9	28.2	60.9	10.9	2.0	13700	76	8.5
pennsylvania	indiana	l kittanning&u frept	2.9	29.4	60.0	10.6	1.7	13760	79	8.0
pennsylvania	indiana	lower freeport	2.5	25.9	58.2	15.9	1.4	13020	84	9.0
pennsylvania	indiana	lower kittanning	1.8	25.6	56.7	17.7	1.8	12540	69	5.0
pennsylvania	indiana	upper freeport	1.8	30.1	57.4	12.5	2.7	13400	0	9.0
pennsylvania	indiana	upper freeport	1.9	29.7	64.0	6.3	0.9	14550	82	8.5
pennsylvania	indiana	upper freeport	1.9	29.9	60.1	10.0	3.8	13790	79	6.5
pennsylvania	indiana	upper freeport	2.7	24.3	59.9	11.8	2.2	13510	0	7.0
pennsylvania	indiana	upper freeport	3.7	27.8	59.9	12.3	2.5	13420	0	8.0
pennsylvania	indiana	upper freeport	2.4	31.6	53.8	14.6	2.2	12890	65	7.5
pennsylvania	indiana	lower kittanning	2.4	27.8	57.0	15.2	3.8	12980	91	8.0
pennsylvania	indiana	lower kittanning	2.3	29.1	62.0	8.9	0.9	14160	0	9.0
pennsylvania	indiana	lower kittanning	2.6	19.7	59.0	21.3	4.6	11870	0	9.0
pennsylvania	indiana	pittsburgh	2.2	33.6	54.9	11.5	1.2	13500	63	8.0
pennsylvania	indiana	pittsburgh	2.2	32.6	55.8	11.6	1.1	13490	59	8.0
pennsylvania	indiana	lower kittanning	3.2	22.7	60.2	17.1	5.1	12750	**	9.0
pennsylvania	indiana	upper freeport	2.7	29.9	57.1	13.0	2.2	13290	75	8.0
pennsylvania	indiana	lower kittanning	2.4	23.4	65.9	10.7	3.1	13910	**	9.0
pennsylvania	indiana	lower kittanning	2.0	22.9	66.6	10.5	4.6	13920	**	8.5
pennsylvania	indiana	lower kittanning	3.5	28.5	61.4	10.1	2.8	14000	96	8.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	indiana	lower kittanning	3.2	27.1	54.9	18.0	4.8	12610	87	8.0
pennsylvania	indiana	l kittanning&l frept	4.7	25.8	64.2	10.0	2.7	13800	**	8.5
pennsylvania	indiana	upper kittanning	3.7	28.1	60.5	11.4	0.8	13630	81	8.0
pennsylvania	indiana	upper kittanning	3.6	28.3	60.8	10.9	1.0	13750	73	8.0
pennsylvania	indiana	upper freeport	3.4	24.5	65.1	10.4	2.1	13960	0	8.5
pennsylvania	indiana	lower kittanning	2.2	26.5	58.2	15.3	1.1	12900	0	6.5
pennsylvania	indiana	lower kittanning	3.9	21.5	68.1	10.4	3.4	13880	**	9.0
pennsylvania	indiana	lower kittanning	3.0	25.3	60.9	13.8	3.7	13270	**	8.5
pennsylvania	indiana	l kittanning&l frept	5.1	29.6	60.4	10.0	2.7	13770	87	8.0
pennsylvania	indiana	l kittanning&l frept	3.4	27.7	60.7	11.6	3.1	13710	0	8.0
pennsylvania	indiana	lower freeport	2.9	24.9	61.1	14.0	1.0	13310	86	9.0
pennsylvania	indiana	upper freeport	7.1	25.6	64.1	10.3	0.6	13530	0	4.0
pennsylvania	indiana	upper freeport	2.6	27.7	61.1	11.2	1.8	13690	83	8.0
pennsylvania	indiana	lower kittanning	2.1	29.7	60.2	10.1	3.1	13900	86	8.0
pennsylvania	indiana	lower kittanning	2.4	26.6	67.3	6.1	1.0	14410	0	9.0
pennsylvania	indiana	lower freeport	2.6	26.0	64.7	9.3	1.7	13930	89	7.5
pennsylvania	indiana	lower freeport	2.8	30.9	58.5	10.6	2.5	13790	77	7.5
pennsylvania	indiana	lower freeport	5.7	28.5	62.1	9.4	1.7	13760	84	8.0
pennsylvania	indiana	lower freeport	2.4	30.2	59.3	10.5	3.1	13720	80	7.5
pennsylvania	indiana	lower freeport	2.2	29.8	59.7	10.5	2.9	13760	83	8.0
pennsylvania	indiana	upper freeport	2.0	25.2	59.8	15.0	2.8	13050	0	9.0
pennsylvania	indiana	lower kittanning	3.1	23.7	61.2	15.1	3.3	13120	96	9.0
pennsylvania	indiana	l kittanning&l frept	2.5	30.0	62.0	8.0	2.0	14200	92	8.0
pennsylvania	indiana	l kittanning&l frept	2.3	30.5	61.3	8.2	2.1	14180	86	8.0
pennsylvania	indiana	lower kittanning	3.3	26.9	61.7	11.4	3.7	13730	0	8.5
pennsylvania	indiana	upper freeport	2.8	26.0	60.1	13.9	2.0	13280	85	9.0
pennsylvania	indiana	varinus	3.8	29.6	61.4	9.0	1.3	14060	0	7.5
pennsylvania	indiana	upper freeport	4.2	26.5	60.8	12.7	1.8	13470	83	7.5
pennsylvania	indiana	upper freeport	3.0	30.8	60.2	9.0	2.2	14000	77	7.5
pennsylvania	indiana	lower freeport	2.8	29.6	61.7	8.7	1.3	14140	79	7.5
pennsylvania	indiana	upper freeport	2.9	30.7	55.6	13.7	2.0	13150	65	8.0
pennsylvania	indiana	upper freeport	4.8	31.3	58.0	10.7	1.3	13690	71	7.0
pennsylvania	indiana	lower kittanning	2.1	26.4	64.9	8.7	3.2	14200	**	9.0
pennsylvania	indiana	lower kittanning	2.3	25.0	64.2	10.8	3.4	13810	**	8.5
pennsylvania	indiana	varinus	2.9	27.5	61.1	11.4	1.5	13450	0	8.0
pennsylvania	indiana	upper freeport	2.7	27.9	62.6	9.5	1.3	13940	75	9.0
pennsylvania	indiana	upper freeport	4.6	29.1	60.0	10.9	2.1	13870	81	8.0
pennsylvania	indiana	lower freeport	6.3	28.2	58.6	13.2	1.7	13200	**	8.0
pennsylvania	indiana	lower kittanning	2.7	22.2	68.6	9.2	2.0	14200	0	9.0
pennsylvania	indiana	lower freeport	2.6	24.8	59.6	15.6	1.1	12960	0	8.5
pennsylvania	indiana	upper freeport	3.3	27.8	58.3	13.9	1.7	13310	79	7.0
pennsylvania	indiana	lower freeport	5.4	30.2	59.5	10.3	1.8	13590	79	8.5
pennsylvania	indiana	lower kittanning	2.8	28.0	60.1	11.9	4.0	13620	95	8.0
pennsylvania	indiana	lower kittanning	2.7	26.7	60.4	12.9	3.5	13440	99	8.5
pennsylvania	indiana	lower kittanning	1.8	28.2	59.4	12.4	3.4	13630	93	8.5
pennsylvania	indiana	lower kittanning	4.5	28.7	59.4	11.9	3.2	13590	86	8.0
pennsylvania	indiana	upper freeport	4.4	26.5	62.5	11.0	1.0	13510	80	7.5
pennsylvania	indiana	lower kittanning	4.7	27.1	63.7	9.2	2.3	13960	92	9.0
pennsylvania	indiana	lower freeport	2.8	29.5	59.2	11.3	2.6	13680	71	7.5
pennsylvania	indiana	lower kittanning	4.3	27.9	62.1	10.0	0.7	13490	87	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	indiana	lower kittanning	3.2	28.8	61.3	9.9	1.1	13820	74	8.5
pennsylvania	indiana	lower kittanning	2.9	27.7	58.9	13.4	4.3	13400	0	8.5
pennsylvania	indiana	lower kittanning	3.1	27.9	62.9	9.2	3.4	14060	99	9.0
pennsylvania	indiana	lower kittanning	3.1	28.1	61.1	10.8	4.1	13820	0	9.0
pennsylvania	indiana	lower freeport	2.5	23.0	66.8	10.2	1.1	13950	95	8.5
pennsylvania	indiana	lower freeport	2.4	22.7	68.4	8.9	0.7	14200	94	9.0
pennsylvania	indiana	lower freeport	3.0	22.6	66.9	10.5	0.8	13910	0	8.0
pennsylvania	indiana	lower freeport	2.3	23.1	63.7	13.2	0.8	13430	0	7.5
pennsylvania	indiana	lower freeport	3.0	22.8	67.0	10.2	1.0	13950	0	8.5
pennsylvania	indiana	lower freeport	5.4	23.9	65.9	10.2	0.8	13890	92	8.5
pennsylvania	indiana	lower freeport	2.5	22.5	69.2	8.3	1.1	14290	0	9.0
pennsylvania	indiana	lower freeport	3.8	26.0	61.0	13.0	1.5	13430	0	7.0
pennsylvania	indiana	pittsburgh	4.2	31.5	55.3	13.2	2.4	12950	65	7.5
pennsylvania	indiana	upper freeport	6.3	25.9	66.4	7.7	0.8	14140	91	7.5
pennsylvania	indiana	lower kittanning	2.1	26.6	62.8	10.6	3.4	13910	**	8.0
pennsylvania	indiana	lower kittanning	2.9	27.7	61.2	11.1	3.4	13760	95	8.0
pennsylvania	indiana	lower kittanning	2.6	24.6	64.3	11.1	4.6	13770	99	8.5
pennsylvania	indiana	various	7.7	26.8	62.8	10.4	1.5	13640	0	8.0
pennsylvania	indiana	lower kittanning	5.7	27.0	62.9	10.1	0.9	13510	96	4.5
pennsylvania	indiana	l kittanning&u frept	3.5	27.6	61.2	11.2	1.3	13720	95	8.0
pennsylvania	indiana	upper freeport	3.4	28.5	58.4	13.1	2.1	13290	76	8.0
pennsylvania	indiana	l & u freeport	3.5	28.2	59.8	12.0	2.1	13410	76	7.5
pennsylvania	indiana	upper freeport	3.1	28.6	59.4	12.0	1.6	13540	74	9.0
pennsylvania	indiana	upper freeport	4.6	27.7	55.8	16.5	2.0	12820	84	7.5
pennsylvania	indiana	upper freeport	2.4	28.2	59.8	12.0	1.7	13650	79	7.5
pennsylvania	indiana	pittsburgh	2.9	32.8	54.5	12.7	1.2	13330	0	7.5
pennsylvania	indiana	pittsburgh	3.6	32.4	51.8	15.8	1.6	12760	0	7.5
pennsylvania	indiana	lower freeport	3.1	25.2	64.1	10.7	2.2	13870	**	8.5
pennsylvania	indiana	lower kittanning	4.1	24.5	60.8	10.9	3.7	13850	0	8.0
pennsylvania	indiana	upper freeport	2.1	29.2	58.5	12.3	4.7	13490	76	8.5
pennsylvania	indiana	upper freeport	3.8	29.7	60.2	10.1	1.9	13940	79	7.5
pennsylvania	indiana	upper freeport	2.4	28.3	60.9	10.8	1.8	13760	76	7.0
pennsylvania	indiana	upper freeport	3.0	30.1	60.8	9.1	2.2	14000	86	8.5
pennsylvania	indiana	lower freeport	3.7	26.4	63.6	10.0	2.1	13940	0	8.0
pennsylvania	indiana	lower freeport	2.3	26.8	63.6	9.6	1.8	14010	88	8.0
pennsylvania	indiana	lower freeport	2.5	25.6	64.9	9.5	2.0	14030	91	8.5
pennsylvania	indiana	lower freeport	2.4	26.3	62.5	11.2	2.2	13680	87	8.0
pennsylvania	indiana	lower freeport	3.4	25.9	62.6	11.5	2.7	13710	0	8.0
pennsylvania	indiana	lower kittanning	1.8	24.1	67.4	8.5	2.6	14270	0	9.0
pennsylvania	indiana	lower kittanning	4.3	24.1	61.9	12.0	3.4	13640	0	8.5
pennsylvania	indiana	lower kittanning	3.6	25.5	64.7	9.8	3.2	14030	0	9.0
pennsylvania	indiana	lower kittanning	3.3	25.1	65.6	9.3	3.2	14150	0	9.0
pennsylvania	indiana	lower kittanning	2.2	25.5	65.4	9.1	3.8	13960	0	9.0
pennsylvania	indiana	lower freeport	2.4	29.1	61.1	9.8	3.5	13950	87	8.5
pennsylvania	indiana	lower freeport	3.8	28.7	61.2	10.1	3.4	13900	89	7.0
pennsylvania	indiana	lower freeport	3.3	28.9	60.8	10.3	2.0	13880	83	7.0
pennsylvania	indiana	lower freeport	5.4	28.1	63.5	8.4	1.9	14220	93	7.5
pennsylvania	indiana	l kittanning&l frept	5.0	28.2	61.7	10.1	2.5	13680	92	7.5
pennsylvania	jefferson	lower freeport	5.2	27.5	65.3	7.2	0.9	14160	69	8.0
pennsylvania	jefferson	lower freeport	4.0	29.0	61.7	9.3	1.5	13900	78	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	jefferson	lower freeport	6.2	28.4	61.0	10.6	1.0	13590	0	8.0
pennsylvania	jefferson	lower freeport	2.8	34.0	54.0	12.0	2.6	13380	53	8.0
pennsylvania	jefferson	various	3.9	31.3	60.3	8.4	1.1	13790	0	2.5
pennsylvania	jefferson	various	5.0	32.5	59.7	7.8	1.1	13840	0	1.5
pennsylvania	jefferson	various	4.9	30.1	61.8	8.1	1.5	14080	0	7.5
pennsylvania	jefferson	middle kittanning	3.2	34.1	58.2	7.7	0.7	14170	63	8.0
pennsylvania	jefferson	middle kittanning	6.8	32.0	61.2	6.8	0.6	14070	56	3.5
pennsylvania	jefferson	upper freeport	2.9	30.0	58.7	11.3	2.3	13670	74	7.5
pennsylvania	jefferson	lower freeport	3.0	28.1	60.8	11.1	0.9	13440	72	5.0
pennsylvania	jefferson	lower freeport	2.9	28.5	58.1	13.4	1.0	13410	69	7.5
pennsylvania	jefferson	lower kittanning	6.3	31.7	52.7	15.6	1.1	12690	0	7.0
pennsylvania	jefferson	upper freeport	7.4	32.4	54.6	13.0	1.8	12890	62	7.0
pennsylvania	jefferson	lower kittanning	2.0	32.6	55.3	12.1	3.6	13400	62	7.0
pennsylvania	jefferson	lower freeport	3.7	31.1	58.4	10.5	3.9	13810	76	8.0
pennsylvania	jefferson	lower freeport	3.1	32.6	57.9	9.5	1.5	13560	0	7.5
pennsylvania	jefferson	lower freeport	4.2	31.0	57.5	11.5	2.3	13130	0	3.0
pennsylvania	jefferson	lower freeport	4.8	32.5	60.5	7.0	1.8	14120	73	9.0
pennsylvania	jefferson	lower freeport	3.4	32.7	58.2	9.1	3.2	13890	69	7.5
pennsylvania	jefferson	lower kittanning	5.5	29.8	62.6	7.6	1.1	14330	81	7.5
pennsylvania	jefferson	lower kittanning	2.6	30.9	59.8	9.3	1.4	14020	0	8.0
pennsylvania	jefferson	upper freeport	5.3	27.0	62.4	10.6	0.9	13480	71	7.0
pennsylvania	jefferson	lower kittanning	4.1	31.7	58.3	10.0	1.0	13630	0	7.5
pennsylvania	jefferson	upper freeport	2.7	29.2	60.3	10.5	1.7	13740	70	8.5
pennsylvania	jefferson	lower kittanning	3.1	35.0	54.2	10.8	1.4	13440	66	7.5
pennsylvania	jefferson	lower freeport	2.3	36.6	50.4	13.0	3.0	13030	60	8.5
pennsylvania	jefferson	lower freeport	3.1	33.9	56.3	9.8	2.2	13820	65	7.5
pennsylvania	jefferson	lower freeport	3.1	33.4	56.2	10.4	2.5	13660	55	7.5
pennsylvania	jefferson	lower freeport	2.6	34.5	56.8	8.7	1.7	14000	58	8.0
pennsylvania	jefferson	lower freeport	2.1	29.5	61.7	8.8	1.2	14080	0	7.5
pennsylvania	jefferson	lower freeport	3.0	29.4	62.2	8.4	1.0	14170	0	8.0
pennsylvania	jefferson	lower freeport	2.9	29.8	61.7	8.5	1.0	14090	79	7.5
pennsylvania	jefferson	lower kittanning	2.5	33.3	59.5	7.2	1.0	14170	58	8.0
pennsylvania	jefferson	upper kittanning	3.1	28.2	63.6	8.2	0.9	14110	76	8.0
pennsylvania	jefferson	upper freeport	4.8	33.0	59.7	7.3	0.8	14050	61	8.0
pennsylvania	jefferson	lower freeport	3.3	31.8	55.9	12.3	2.1	13260	76	7.5
pennsylvania	jefferson	lower freeport	5.1	34.4	56.8	8.8	1.4	13490	67	5.5
pennsylvania	jefferson	lower freeport	5.2	29.9	63.2	6.9	0.9	13940	89	5.5
pennsylvania	jefferson	lower freeport	4.4	32.8	58.8	8.4	1.9	13960	65	8.0
pennsylvania	jefferson	lower kittanning	4.0	34.1	54.4	11.5	1.6	13340	0	7.5
pennsylvania	jefferson	lower kittanning	2.3	36.5	55.2	8.3	1.4	13860	0	7.5
pennsylvania	lawrence	brookville	5.9	38.2	54.5	7.3	2.3	13870	53	5.0
pennsylvania	lawrence	brookville	8.4	34.0	47.8	18.2	4.1	11810	0	4.0
pennsylvania	lawrence	brookville	4.5	38.3	54.1	7.6	1.8	13630	49	5.5
pennsylvania	lawrence	middle kittanning	4.3	36.7	49.6	13.7	7.1	12680	61	7.5
pennsylvania	lawrence	lower kittanning	4.0	37.9	49.7	12.4	3.6	12950	57	8.0
pennsylvania	lawrence	middle kittanning	4.5	36.9	44.4	18.7	3.9	11920	48	5.0
pennsylvania	lawrence	lower kittanning	4.4	37.0	53.4	9.6	2.1	13440	51	6.5
pennsylvania	lawrence	lower kittanning	4.6	36.6	54.1	9.3	2.0	13430	54	6.5
pennsylvania	lawrence	middle kittanning	5.3	39.0	52.9	8.1	2.5	13540	50	5.0
pennsylvania	lawrence	lower kittanning	4.8	37.3	50.4	12.3	1.7	12980	48	4.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	lawrence	brookville	4.7	40.9	46.6	12.5	5.4	12830	46	5.0
pennsylvania	lawrence	middle kittanning	4.6	38.9	55.3	5.8	2.8	13850	53	5.0
pennsylvania	lawrence	brookville	3.9	38.2	57.1	4.7	2.5	14080	0	4.5
pennsylvania	lawrence	brookville	6.9	33.8	50.7	15.5	2.2	12300	0	5.5
pennsylvania	lawrence	brookville	8.6	36.8	51.4	11.8	3.8	12960	0	6.0
pennsylvania	lawrence	lower kittanning	4.0	37.3	48.3	14.4	3.8	12510	50	5.0
pennsylvania	mckean	lower mercer	***	31.2	50.9	17.9	2.3	11800	58	1.0
pennsylvania	merc	brookville	4.3	39.4	46.5	14.1	4.9	12560	48	4.5
pennsylvania	merc	brookville	5.4	39.5	52.1	8.4	1.1	13460	53	5.5
pennsylvania	merc	brookville	3.9	43.4	44.7	11.9	6.3	12880	43	4.0
pennsylvania	merc	brookville	4.9	40.0	47.0	13.0	5.2	12650	0	4.5
pennsylvania	merc	middle kittanning	4.7	37.2	53.2	9.6	1.6	13360	52	5.0
pennsylvania	merc	lower kittanning	5.3	36.5	50.5	13.0	2.4	12890	50	6.0
pennsylvania	merc	brookville	5.9	38.5	52.6	8.9	1.7	13410	55	5.0
pennsylvania	merc	brookville	5.7	37.3	55.3	7.4	1.0	13760	50	5.5
pennsylvania	somerset	upper kittanning	2.0	17.7	70.7	11.6	1.8	13730	**	8.0
pennsylvania	somerset	upper kittanning	2.3	18.6	71.4	10.0	2.2	13970	96	9.0
pennsylvania	somerset	upper kittanning	2.5	17.8	70.5	11.7	1.8	13750	**	8.5
pennsylvania	somerset	upper freeport	3.7	17.3	67.9	14.8	2.1	13260	99	8.5
pennsylvania	somerset	lower freeport	3.2	17.7	73.4	8.9	2.1	14240	**	9.0
pennsylvania	somerset	middle kittanning	4.0	16.6	73.1	10.3	1.0	14010	94	5.5
pennsylvania	somerset	lower kittanning	2.6	20.3	64.6	15.1	1.6	13120	97	7.5
pennsylvania	somerset	lower kittanning	2.0	19.0	71.5	9.5	1.5	14040	**	9.0
pennsylvania	somerset	lower kittanning	5.2	20.1	69.7	10.2	1.2	13820	**	4.0
pennsylvania	somerset	lower kittanning	3.6	17.6	71.7	10.7	1.5	13800	0	1.0
pennsylvania	somerset	lower kittanning	3.7	17.0	72.2	10.8	1.5	13860	0	6.5
pennsylvania	somerset	lower freeport	1.9	18.8	70.2	11.0	1.2	13870	97	9.0
pennsylvania	somerset	lower kittanning	2.5	16.7	71.9	11.4	3.2	13710	**	9.0
pennsylvania	somerset	upper kittanning	2.8	15.7	74.3	10.0	1.7	14070	**	8.0
pennsylvania	somerset	upper kittanning	3.3	16.1	73.5	10.4	1.3	14010	**	7.5
pennsylvania	somerset	lower kittanning	2.5	18.8	69.2	12.0	2.7	13620	**	8.0
pennsylvania	somerset	lower kittanning	2.7	17.3	72.2	10.5	1.8	13880	**	8.5
pennsylvania	somerset	upper freeport	3.8	17.0	70.5	12.5	1.8	13510	92	8.5
pennsylvania	somerset	lower kittanning	1.6	16.9	74.8	8.3	1.7	14310	**	9.0
pennsylvania	somerset	upper kittanning	2.7	15.9	72.2	11.9	2.8	13580	**	7.5
pennsylvania	somerset	upper kittanning	2.9	15.4	73.8	10.8	2.8	13860	98	8.0
pennsylvania	somerset	lower kittanning	3.2	17.9	58.7	23.4	3.3	11720	82	7.5
pennsylvania	somerset	upper kittanning	8.6	18.4	70.7	10.9	0.7	13450	**	1.5
pennsylvania	somerset	lower freeport	2.8	16.7	74.9	8.4	1.3	14290	**	8.5
pennsylvania	somerset	brush creek	***	21.3	69.7	9.0	1.0	13510	**	1.5
pennsylvania	somerset	brush creek	3.7	17.5	68.0	14.5	4.3	13280	**	8.0
pennsylvania	somerset	brush creek	3.1	18.6	69.9	11.5	3.0	13680	**	8.5
pennsylvania	somerset	upper kittanning	2.2	16.9	72.6	10.5	0.9	13920	94	5.0
pennsylvania	somerset	upper kittanning	3.7	16.8	72.3	10.4	1.3	13880	0	1.0
pennsylvania	somerset	pittsburgh	6.7	21.3	64.7	14.0	1.9	12970	0	9.0
pennsylvania	somerset	pittsburgh	3.9	21.4	64.9	13.7	1.2	13230	0	9.0
pennsylvania	somerset	pittsburgh	5.8	20.7	64.0	15.3	0.9	12680	89	1.0
pennsylvania	somerset	pittsburgh	3.4	20.9	65.8	13.3	1.0	13270	88	8.0
pennsylvania	somerset	upper kittanning	3.2	17.6	72.0	10.4	0.8	13960	94	8.0
pennsylvania	somerset	upper kittanning	2.2	17.6	71.0	11.4	2.3	13750	**	9.0

state	county	berd	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	somerset	upper kittanning	2.7	15.8	70.8	13.4	0.7	13510	97	5.5
pennsylvania	somerset	upper kittanning	2.3	16.1	74.3	9.6	1.9	14050	99	7.5
pennsylvania	somerset	varinus	5.5	18.8	71.7	9.5	1.4	13980	0	5.5
pennsylvania	somerset	lower freeport	3.1	19.8	73.5	6.7	0.7	14650	**	8.5
pennsylvania	somerset	lower freeport	5.0	18.7	73.3	8.0	0.8	14400	**	8.5
pennsylvania	somerset	lower freeport	3.9	18.7	71.6	9.7	1.1	14070	99	8.0
pennsylvania	somerset	upper kittanning	2.6	18.1	70.9	11.0	1.9	13820	**	9.0
pennsylvania	somerset	upper kittanning	3.8	17.5	73.3	9.2	0.9	14130	96	8.5
pennsylvania	somerset	lower kittanning	2.2	16.0	76.0	8.0	2.3	14390	**	9.0
pennsylvania	somerset	lower kittanning	1.7	16.0	74.2	9.8	2.5	14080	**	9.0
pennsylvania	somerset	lower kittanning	2.9	16.8	71.9	11.3	1.8	13690	**	9.0
pennsylvania	somerset	upper kittanning	2.8	18.6	66.7	14.7	1.7	13090	0	9.0
pennsylvania	somerset	upper freeport	1.9	18.3	64.4	17.3	3.4	12670	0	9.0
pennsylvania	somerset	various	4.2	19.4	68.0	12.6	1.0	13250	0	1.5
pennsylvania	somerset	varinus	3.7	18.4	73.1	8.5	1.7	14000	0	2.5
pennsylvania	somerset	upper freeport	2.9	17.7	74.6	7.7	0.6	14380	0	8.0
pennsylvania	somerset	upper freeport	5.0	18.1	72.8	9.1	1.3	14210	98	9.0
pennsylvania	somerset	u kittanning&u freot	2.6	19.1	73.0	7.9	0.9	14410	98	9.0
pennsylvania	somerset	l kittanning&u frent	4.1	19.1	72.7	8.2	1.3	14310	**	9.0
pennsylvania	somerset	lower freeport	3.1	16.7	75.4	7.9	0.8	14400	**	9.0
pennsylvania	somerset	brookville	2.8	18.0	70.9	11.1	1.2	13720	94	7.0
pennsylvania	somerset	upper kittanning	3.6	16.0	67.3	21.7	1.9	11970	86	3.5
pennsylvania	somerset	middle kittanning	4.5	16.0	63.8	20.2	1.2	12020	92	1.5
pennsylvania	somerset	lower kittanning	2.9	16.9	67.7	15.4	2.2	13110	**	9.0
pennsylvania	somerset	lower kittanning	2.5	16.0	75.8	8.2	1.3	14390	**	8.5
pennsylvania	somerset	brush creek	2.0	19.0	70.5	10.5	2.3	14030	97	8.5
pennsylvania	somerset	varinus	5.5	22.0	65.0	13.0	1.6	13050	0	1.0
pennsylvania	somerset	upper freeport	3.1	17.9	73.2	8.9	1.4	14190	**	9.0
pennsylvania	somerset	upper freeport	2.5	18.4	72.5	9.1	1.2	14170	99	9.0
pennsylvania	somerset	upper freeport	2.2	17.1	72.4	10.5	1.4	13920	**	9.0
pennsylvania	somerset	upper kittanning	2.7	17.8	71.1	11.1	2.8	13920	**	9.0
pennsylvania	somerset	upper kittanning	2.4	17.7	71.3	11.0	2.0	13870	**	9.0
pennsylvania	somerset	upper kittanning	2.4	18.8	70.9	10.3	2.2	13890	99	9.0
pennsylvania	somerset	upper kittanning	3.0	16.9	72.6	10.5	2.2	13910	0	9.0
pennsylvania	somerset	upper freeport	3.1	19.7	67.7	12.6	1.3	13690	96	9.0
pennsylvania	somerset	upper freeport	2.4	18.1	70.5	11.4	1.7	13770	91	9.0
pennsylvania	somerset	upper freeport	5.3	21.1	66.2	12.7	2.7	12970	0	2.5
pennsylvania	somerset	upper kittanning	2.3	16.3	72.4	11.3	1.1	13780	0	7.5
pennsylvania	somerset	upper kittanning	2.1	16.3	72.3	11.4	2.9	13640	**	6.5
pennsylvania	somerset	lower kittanning	3.2	17.5	71.5	11.0	2.1	13810	**	9.0
pennsylvania	somerset	lower freeport	4.6	18.4	71.9	9.8	0.8	14130	99	9.0
pennsylvania	somerset	lower kittanning	2.8	17.1	69.6	13.3	2.1	13350	0	6.5
pennsylvania	somerset	lower kittanning	2.4	16.9	70.8	12.3	2.1	13580	0	6.5
pennsylvania	somerset	lower kittanning	2.3	16.8	71.7	11.5	1.8	13740	0	6.0
pennsylvania	somerset	lower kittanning	2.5	16.5	71.9	11.6	2.1	13700	**	9.0
pennsylvania	somerset	lower kittanning	3.0	16.6	73.4	10.0	1.5	14050	**	8.5
pennsylvania	somerset	lower kittanning	8.4	16.3	75.2	8.5	1.7	14210	**	4.5
pennsylvania	somerset	upper kittanning	3.1	16.9	71.2	11.9	3.0	13660	95	8.5
pennsylvania	somerset	upper freeport	2.6	17.0	71.2	11.8	2.0	13640	95	9.0
pennsylvania	somerset	various	5.4	17.8	70.6	11.6	1.2	13550	0	1.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
pennsylvania	somerset	various	2.3	19.4	69.9	10.7	1.4	13850	0	8.0
pennsylvania	somerset	various	3.8	19.9	70.1	10.0	1.4	13960	0	9.0
pennsylvania	somerset	lower freeport	2.4	18.6	73.1	8.3	1.2	14300	**	9.0
pennsylvania	somerset	lower kittanning	4.0	19.7	70.7	9.6	1.3	14080	99	9.0
pennsylvania	somerset	lower kittanning	3.9	20.8	68.7	10.5	1.4	14020	98	8.5
pennsylvania	somerset	l kittanning&l frept	4.0	20.3	70.8	8.9	2.4	14000	**	8.5
pennsylvania	somerset	lower freeport	3.6	19.8	69.6	10.6	0.8	13980	0	9.0
pennsylvania	somerset	brookville	3.8	17.4	72.0	10.6	1.0	13800	96	5.0
pennsylvania	somerset	lower kittanning	2.6	17.6	72.6	9.8	2.0	14130	**	8.5
pennsylvania	somerset	lower kittanning	2.2	19.3	70.6	10.1	1.5	13940	**	9.0
pennsylvania	somerset	lower kittanning	2.3	17.1	72.2	10.7	2.3	13770	**	8.5
pennsylvania	somerset	lower kittanning	2.0	16.4	72.9	10.7	2.7	13910	**	9.0
pennsylvania	somerset	upper freeport	6.3	20.8	60.1	19.1	0.5	12000	86	1.5
pennsylvania	somerset	lower freeport	3.3	16.0	73.0	10.1	1.7	13940	**	9.0
pennsylvania	somerset	lower freeport	3.7	16.8	70.5	12.7	1.7	13580	**	9.0
pennsylvania	somerset	lower freeport	5.0	18.9	68.6	12.5	2.0	13320	0	9.0
pennsylvania	somerset	lower freeport	2.3	16.8	73.9	9.3	1.7	14100	99	9.0
pennsylvania	somerset	various	2.6	20.3	70.1	9.6	1.8	14050	98	9.0
pennsylvania	somerset	little pittsburgh	4.1	21.5	69.3	9.2	1.1	14180	92	9.0
pennsylvania	somerset	upper kittanning	3.7	17.8	70.6	11.6	2.1	13720	93	7.0
pennsylvania	somerset	sewickley	3.5	21.6	69.2	9.2	1.1	14040	92	8.5
pennsylvania	somerset	sewickley	2.9	21.3	67.4	11.3	1.2	13640	92	9.0
pennsylvania	somerset	pittsburgh	3.5	20.7	67.7	11.6	1.5	13760	92	9.0
pennsylvania	somerset	pittsburgh	2.8	19.7	69.1	11.2	1.6	13850	95	9.0
pennsylvania	somerset	pittsburgh	3.0	20.3	66.7	13.0	1.9	13490	91	9.0
pennsylvania	somerset	upper freeport	2.6	18.8	69.6	11.6	1.4	13750	**	9.0
pennsylvania	somerset	upper freeport	2.8	19.1	70.9	10.0	2.0	14000	0	9.0
pennsylvania	somerset	lower kittanning	3.3	18.6	68.6	12.8	2.4	13460	0	9.0
pennsylvania	somerset	lower kittanning	2.7	17.9	70.9	11.2	1.3	13740	**	9.0
pennsylvania	somerset	lower kittanning	2.6	17.3	70.8	11.9	1.3	13650	**	9.0
pennsylvania	somerset	lower kittanning	2.9	16.4	74.0	9.6	1.3	14090	**	8.5
pennsylvania	somerset	upper kittanning	1.8	16.3	73.8	9.9	0.9	14050	93	8.0
pennsylvania	somerset	upper kittanning	2.1	16.4	73.0	10.6	2.1	13950	0	8.5
pennsylvania	somerset	upper kittanning	2.1	15.8	73.2	11.0	2.2	13780	97	8.5
pennsylvania	somerset	upper kittanning	2.8	16.3	73.2	10.5	2.3	13870	99	7.5
pennsylvania	somerset	lower kittanning	3.6	16.2	74.5	9.3	1.3	14050	**	8.0
pennsylvania	somerset	upper freeport	3.7	18.1	72.4	9.5	1.7	14000	**	8.0
pennsylvania	somerset	upper freeport	2.8	18.3	68.0	13.7	2.2	13280	0	8.5
pennsylvania	somerset	upper freeport	4.0	16.7	72.2	11.1	1.1	13730	**	5.0
pennsylvania	somerset	upper freeport	2.6	19.1	70.0	10.9	2.3	13890	94	8.5
pennsylvania	somerset	upper freeport	2.3	18.2	65.8	16.0	2.7	13010	93	9.0
pennsylvania	somerset	upper freeport	3.3	18.9	70.7	10.4	2.0	13940	**	9.0
pennsylvania	somerset	lower kittanning	2.9	16.6	68.4	15.0	3.3	13110	**	8.0
pennsylvania	somerset	upper freeport	2.7	17.5	69.0	11.5	1.2	13800	96	9.0
pennsylvania	somerset	upper freeport	2.6	18.8	68.2	13.0	1.0	13510	96	9.0
pennsylvania	somerset	upper freeport	2.3	19.4	70.8	9.8	1.0	14020	94	9.0
pennsylvania	somerset	upper freeport	3.7	18.8	70.1	11.1	1.1	13850	0	9.0
pennsylvania	somerset	lower kittanning	3.0	17.6	67.8	14.6	2.9	13170	98	9.0
pennsylvania	somerset	upper kittanning	2.5	16.2	74.3	9.5	1.5	14110	98	8.0
pennsylvania	somerset	lower freeport	2.4	19.1	72.2	8.7	2.5	14310	98	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
pennsylvania	somerset	lower kittanning	4.0	17.7	73.5	8.8	0.9	14130	0	7.0
pennsylvania	somerset	lower kittanning	3.1	16.7	76.6	6.7	0.9	14570	**	8.0
pennsylvania	somerset	upper kittanning	2.9	17.2	70.6	12.2	2.0	13640	99	8.0
pennsylvania	somerset	pittsburgh	4.3	21.5	69.7	8.8	1.1	14270	0	9.0
pennsylvania	somerset	upper freeport	2.4	20.0	70.0	10.0	2.2	13900	99	8.0
pennsylvania	somerset	lower kittanning	3.4	17.4	71.2	11.4	1.6	13620	**	7.5
pennsylvania	somerset	lower kittanning	1.9	18.0	70.3	11.7	2.8	13720	0	5.5
pennsylvania	somerset	lower kittanning	1.8	16.8	72.8	10.4	2.9	13930	**	9.0
pennsylvania	somerset	lower kittanning	2.0	17.2	73.4	9.4	2.4	14100	**	8.5
pennsylvania	somerset	upper kittanning	3.4	17.4	73.5	9.1	1.4	14180	0	8.0
pennsylvania	somerset	lower kittanning	2.3	16.4	73.0	10.6	3.2	13930	**	9.0
pennsylvania	somerset	lower kittanning	2.2	16.2	75.4	8.4	2.7	14370	**	8.5
pennsylvania	somerset	lower kittanning	3.0	17.6	72.4	10.0	2.1	13890	**	8.0
pennsylvania	somerset	lower freeport	1.9	18.3	73.0	8.7	1.1	14200	**	9.0
pennsylvania	somerset	upper kittanning	1.3	17.6	68.0	14.4	4.0	13180	84	7.5
pennsylvania	somerset	upper kittanning	2.0	17.3	66.9	15.8	4.0	12970	87	8.0
pennsylvania	somerset	little pittsburgh	3.7	20.8	69.3	9.9	0.7	13930	95	8.5
pennsylvania	somerset	little pittsburgh	3.5	20.4	69.1	10.5	0.7	13910	93	9.0
pennsylvania	somerset	lower freeport	2.3	19.4	69.2	11.4	2.7	13800	98	9.0
pennsylvania	somerset	lower kittanning	3.6	16.7	72.5	10.8	2.1	13880	**	9.0
pennsylvania	somerset	various	3.8	21.5	68.3	10.2	1.0	13670	0	1.5
pennsylvania	somerset	lower freeport	3.0	16.5	74.2	9.3	2.0	14120	**	9.0
pennsylvania	somerset	lower freeport	3.2	16.6	73.9	9.5	2.1	14070	0	8.5
pennsylvania	somerset	lower freeport	1.8	17.1	71.9	11.0	0.9	13830	0	8.0
pennsylvania	somerset	lower kittanning	3.0	18.5	69.6	11.9	2.9	13730	**	9.0
pennsylvania	somerset	upper freeport	2.9	18.8	68.2	13.0	1.4	13550	**	9.0
pennsylvania	somerset	upper freeport	2.8	18.4	71.3	10.3	2.6	13890	0	2.5
pennsylvania	somerset	upper freeport	3.0	17.3	70.2	12.5	2.0	13530	96	8.5
pennsylvania	tioga	upper kittanning	3.3	22.3	64.2	13.5	4.0	13240	0	9.0
pennsylvania	tioga	upper freeport	3.2	19.8	70.2	10.0	1.6	14010	0	9.0
pennsylvania	tioga	upper kittanning	3.5	17.6	61.4	21.0	3.8	12140	0	9.0
pennsylvania	tioga	middle kittanning	3.3	21.4	57.8	20.8	2.1	12030	0	9.0
pennsylvania	tioga	middle kittanning	3.3	21.8	70.5	7.7	1.1	14360	0	9.0
pennsylvania	tioga	middle kittanning	3.5	19.7	65.4	14.9	3.2	13000	0	9.0
pennsylvania	tioga	middle kittanning	3.7	20.0	69.3	10.7	1.6	13750	0	9.0
pennsylvania	tioga	uncorrelated	3.9	17.8	73.1	9.1	0.7	14100	0	9.0
pennsylvania	tioga	uncorrelated	3.7	17.1	66.3	16.6	1.3	12770	0	9.0
pennsylvania	tioga	uncorrelated	3.6	17.5	64.4	18.1	0.9	12580	0	9.0
pennsylvania	venango	lower kittanning	3.0	38.3	46.7	15.0	5.6	12650	0	5.5
pennsylvania	venango	brookville	4.7	38.1	45.5	16.4	7.1	12330	0	4.5
pennsylvania	washington	pittsburgh	6.8	31.4	48.5	20.1	1.3	11660	59	6.5
pennsylvania	washington	pittsburgh	3.9	37.9	45.2	16.9	5.0	12070	0	7.5
pennsylvania	washington	pittsburgh	***	31.0	50.8	18.2	2.3	12080	61	7.5
pennsylvania	washington	pittsburgh	9.6	35.7	52.0	12.3	1.8	13000	57	7.5
pennsylvania	washington	pittsburgh	2.1	35.2	57.7	7.6	1.4	14100	0	7.0
pennsylvania	washington	pittsburgh	5.5	35.2	50.0	14.8	2.4	12510	55	6.5
pennsylvania	washington	pittsburgh	7.5	34.4	47.9	17.7	3.2	11990	0	5.5
pennsylvania	washington	pittsburgh	8.5	34.1	48.6	17.3	3.7	12130	0	6.5
pennsylvania	washington	pittsburgh	6.6	35.3	47.2	17.5	3.7	12100	59	5.5
pennsylvania	washington	pittsburgh	7.4	34.1	45.6	20.3	3.8	11660	0	5.5

state	county	bed	moistur	volmat	fixede	ash	sulfur	btu	hqilo	fsilo
pennsylvania	washington	pittsburgh	6.9	33.9	45.3	20.8	3.8	11550	61	6.5
pennsylvania	washington	pittsburgh	7.4	35.2	45.7	19.1	3.5	11810	0	5.0
pennsylvania	washington	pittsburgh	5.9	34.4	47.9	17.7	3.7	12080	0	7.0
pennsylvania	washington	pittsburgh	3.3	40.8	51.3	7.9	3.2	13700	52	7.0
pennsylvania	washington	pittsburgh	2.9	39.4	50.0	10.6	3.5	13160	66	7.0
pennsylvania	washington	pittsburgh	6.7	31.2	52.1	16.7	1.4	12380	0	8.0
pennsylvania	washington	pittsburgh	5.2	35.8	50.9	13.3	3.0	12790	59	7.0
pennsylvania	washington	pittsburgh	2.0	38.1	56.3	5.6	1.5	13430	0	8.0
pennsylvania	washington	pittsburgh	2.6	35.6	56.4	8.0	1.6	13710	0	8.0
pennsylvania	washington	pittsburgh	2.9	36.7	54.9	8.4	1.7	13690	0	8.0
pennsylvania	washington	pittsburgh	3.7	36.6	49.1	14.3	3.3	12610	0	7.5
pennsylvania	washington	pittsburgh	4.7	33.5	45.2	21.3	4.1	11510	0	6.5
pennsylvania	washington	pittsburgh	3.3	39.6	52.0	8.4	1.4	13620	51	7.0
pennsylvania	washington	pittsburgh	3.8	39.3	48.5	12.2	4.5	12910	50	5.5
pennsylvania	washington	pittsburgh	4.1	37.4	47.5	15.1	2.7	12540	53	7.0
pennsylvania	washington	waynesburg	3.2	34.3	48.3	17.4	3.4	12290	0	6.0
pennsylvania	washington	pittsburgh	5.2	36.4	53.3	10.3	2.1	13280	57	8.0
pennsylvania	washington	pittsburgh	5.7	36.6	50.6	12.8	3.1	12720	0	6.0
pennsylvania	washington	pittsburgh	3.6	38.3	51.6	10.1	2.7	13240	0	6.0
pennsylvania	washington	pittsburgh	7.7	35.3	51.0	13.7	3.5	12660	0	6.0
pennsylvania	westmoreland	redstone	2.0	34.2	55.8	10.0	2.2	13650	0	8.0
pennsylvania	westmoreland	redstone	2.0	31.9	55.8	12.3	2.9	13390	69	8.5
pennsylvania	westmoreland	upper freeport	3.1	32.7	57.3	10.0	1.1	13680	66	8.5
pennsylvania	westmoreland	pittsburgh	3.8	32.9	55.4	11.7	1.6	13160	60	7.5
pennsylvania	westmoreland	upper freeport	1.7	32.8	57.9	9.3	3.3	13860	0	7.5
pennsylvania	westmoreland	upper freeport	3.8	31.9	58.9	9.2	1.8	13970	72	9.0
pennsylvania	westmoreland	uncorrelated	4.4	26.0	59.4	14.6	1.7	13110	84	8.5
pennsylvania	westmoreland	upper freeport	2.0	35.2	55.3	9.5	2.4	13780	0	8.0
pennsylvania	westmoreland	upper freeport	2.0	35.2	55.2	9.6	2.3	13760	0	7.5
pennsylvania	westmoreland	upper freeport	3.3	34.2	55.7	10.1	1.6	13690	0	8.5
pennsylvania	westmoreland	upper freeport	3.2	33.0	55.1	11.9	2.6	13330	0	8.0
pennsylvania	westmoreland	upper freeport	3.3	34.9	54.4	10.7	3.4	13500	0	8.0
pennsylvania	westmoreland	upper freeport	2.1	34.7	56.6	8.7	2.6	13930	0	7.0
pennsylvania	westmoreland	lower freeport	2.0	23.5	64.8	11.7	2.6	13710	++	9.0
pennsylvania	westmoreland	pittsburgh	3.1	30.6	61.1	8.3	0.9	14150	78	8.5
pennsylvania	westmoreland	upper freeport	2.0	35.3	54.6	10.1	1.9	13680	60	8.0
pennsylvania	westmoreland	upper freeport	2.6	34.0	53.8	12.2	1.9	13370	61	7.5
pennsylvania	westmoreland	bakerstown	3.0	32.1	49.4	18.5	3.6	12270	63	9.0
pennsylvania	westmoreland	pittsburgh	2.2	29.4	61.0	9.6	2.4	13910	0	7.0
pennsylvania	westmoreland	upper freeport	2.9	30.3	56.5	13.2	0.9	13190	0	9.0
pennsylvania	westmoreland	upper freeport	2.2	31.6	58.0	10.4	2.1	13670	69	8.5
pennsylvania	westmoreland	upper freeport	4.0	33.1	56.7	10.2	2.5	13780	0	9.0
pennsylvania	westmoreland	redstone	1.4	33.4	53.3	13.3	2.4	13170	62	8.5
pennsylvania	westmoreland	upper freeport	2.4	33.6	57.7	8.7	3.2	13990	77	8.5
pennsylvania	westmoreland	upper freeport	2.6	32.4	51.9	15.7	4.9	12870	72	7.5
pennsylvania	westmoreland	pittsburgh	3.9	34.0	55.9	10.1	1.4	13640	55	7.5
pennsylvania	westmoreland	pittsburgh	6.9	31.5	52.9	15.6	1.7	12280	66	2.0
pennsylvania	westmoreland	upper freeport	2.7	34.8	56.0	9.2	2.4	13750	64	8.5
pennsylvania	westmoreland	pittsburgh	2.6	34.6	57.3	8.1	1.0	13970	58	8.0
pennsylvania	westmoreland	upper freeport	2.5	35.5	52.6	11.9	2.8	13370	52	8.5

state	county	bed	anistur	volmat	fixedc	ash	sulfur	ntu	hgilo	fsite
pennsylvania	westmoreland	upper freeport	3.3	55.2	54.7	10.8	2.3	13530	60	7.5
pennsylvania	westmoreland	upper freeport	3.6	56.7	51.9	11.4	2.8	13410	58	8.0
pennsylvania	westmoreland	upper freeport	2.8	56.0	52.3	11.7	3.1	13380	0	8.0
pennsylvania	westmoreland	upper freeport	2.7	56.1	52.6	11.3	2.0	13410	0	7.5
pennsylvania	westmoreland	upper freeport	1.5	56.7	54.3	9.0	2.6	13820	0	7.0
pennsylvania	westmoreland	upper freeport	1.5	56.4	55.2	8.4	2.3	13910	0	7.5
pennsylvania	westmoreland	upper freeport	1.6	57.1	53.5	9.4	2.7	13690	0	7.5
pennsylvania	westmoreland	upper freeport	1.5	58.1	52.8	9.1	2.4	13790	0	7.5
pennsylvania	westmoreland	upper freeport	1.5	57.4	54.3	8.3	2.0	13930	0	6.5
pennsylvania	westmoreland	upper freeport	1.5	56.6	54.5	8.9	2.3	13850	0	7.5
pennsylvania	westmoreland	upper freeport	1.5	57.6	52.5	9.9	2.3	13660	0	7.0
pennsylvania	westmoreland	upper freeport	1.6	57.1	54.6	9.3	2.0	13680	0	8.0
pennsylvania	westmoreland	upper freeport	3.4	55.1	52.0	12.9	3.4	13080	0	8.0
pennsylvania	westmoreland	upper freeport	3.5	55.0	49.3	17.7	3.5	12390	0	8.0
pennsylvania	westmoreland	upper freeport	3.3	55.4	52.5	12.1	4.2	13210	0	7.5
pennsylvania	westmoreland	upper freeport	3.5	53.2	53.9	12.9	3.1	13160	62	7.5
pennsylvania	westmoreland	upper freeport	3.2	54.4	52.3	13.3	2.9	13210	0	7.0
pennsylvania	westmoreland	l & u freeport	5.5	50.1	53.6	16.3	3.1	12570	0	8.0
pennsylvania	westmoreland	upper freeport	1.9	53.4	58.4	8.2	2.1	14120	75	8.5
pennsylvania	westmoreland	upper freeport	1.9	54.3	53.9	11.8	4.1	13510	71	7.5
pennsylvania	westmoreland	upper freeport	2.8	52.2	51.8	16.0	4.3	12830	71	7.5

U.S. Geological Survey

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												

anderson county												

bit												
big mary												
0-1000	0.00	13.47	29.63	43.10	0.00	4.72	3.45	8.17	0.00	18.19	33.08	51.27
coal creek												
0-1000	0.00	15.62	6.27	21.89	0.00	6.81	9.64	16.45	0.00	22.43	15.91	38.34
cold gap												
0-1000	0.00	0.00	1.19	1.19	0.00	0.00	0.14	0.14	0.00	0.00	1.33	1.33
grassy spring												
0-1000	0.00	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13
jellico												
0-1000	0.00	13.13	3.80	16.93	0.00	6.20	1.10	7.30	0.00	19.33	4.90	24.23
joyner												
0-1000	0.00	3.29	0.69	3.98	0.00	2.50	0.00	2.50	0.00	5.79	0.69	6.48
pewee												
0-1000	0.00	8.32	1.70	10.02	0.00	1.26	0.00	1.26	0.00	9.58	1.70	11.28
poplar creek												
0-1000	0.00	8.14	0.20	8.34	0.00	6.32	0.00	6.32	0.00	14.46	0.20	14.66
rock spring												
0-1000	0.00	1.35	1.50	2.85	0.00	1.11	1.25	2.36	0.00	2.46	2.75	5.21
walnut mountain												
0-1000	0.00	10.08	5.95	16.03	0.00	4.89	1.68	6.57	0.00	14.97	7.63	22.60
windrock												
0-1000	0.00	15.08	23.11	38.19	0.00	14.70	7.96	22.66	0.00	29.78	31.07	60.85
county total =	0.00	88.48	74.17	162.65	0.00	48.51	25.22	73.73	0.00	136.99	99.39	236.38

bledsoe county												

bit												
lantana												
0-1000	0.00	5.04	0.18	5.22	0.00	12.83	0.71	13.54	0.00	17.87	0.89	18.76
morgan springs												
0-1000	0.00	10.47	1.52	11.99	0.00	4.90	0.00	4.90	0.00	15.37	1.52	16.89
richland												
0-1000	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.11	0.00	0.11	0.00	0.11
sewanee												
0-1000	0.00	2.44	0.66	3.10	0.00	5.29	0.34	5.63	0.00	7.73	1.00	8.73
county total =	0.00	17.95	2.36	20.31	0.00	23.13	1.05	24.18	0.00	41.08	3.41	44.49

campbell county												

bit												

big mary												
0-1000	0.00	8.38	14.46	22.84	0.00	17.31	6.01	23.32	0.00	25.69	20.47	46.16
blue gem												
0-1000	0.00	7.95	0.28	8.23	0.00	7.85	0.00	7.85	0.00	15.80	0.28	16.08
coal creek												
0-1000	0.00	55.99	12.41	68.40	0.00	53.59	18.59	72.18	0.00	109.58	31.00	140.58
cold gap												
0-1000	0.00	0.43	0.00	0.43	0.00	0.54	0.00	0.54	0.00	0.97	0.00	0.97
grassy spring												
0-1000	0.00	0.62	0.47	1.09	0.00	0.28	0.00	0.28	0.00	0.90	0.47	1.37
hazard no 5a												
0-1000	0.00	14.98	4.11	19.09	0.00	1.66	0.01	1.67	0.00	16.64	4.12	20.76
jellico												
0-1000	0.00	21.41	0.86	22.27	0.00	25.44	0.00	25.44	0.00	46.85	0.86	47.71
jordan												
0-1000	0.00	9.32	0.00	9.32	0.00	3.43	0.00	3.43	0.00	12.75	0.00	12.75
joyner												
0-1000	0.00	4.13	0.00	4.13	0.00	11.11	0.00	11.11	0.00	15.24	0.00	15.24
lower pine bald												
0-1000	0.00	0.67	0.17	0.84	0.00	0.00	0.00	0.00	0.00	0.67	0.17	0.84
pewee												
0-1000	0.00	18.32	2.75	21.07	0.00	5.26	0.09	5.35	0.00	23.58	2.84	26.42
pioneer												
0-1000	0.00	11.05	0.00	11.05	0.00	5.39	0.00	5.39	0.00	16.44	0.00	16.44
poplar creek												
0-1000	0.00	19.24	0.00	19.24	0.00	17.66	0.00	17.66	0.00	36.90	0.00	36.90
rex												
0-1000	0.00	16.90	0.34	17.24	0.00	22.75	0.00	22.75	0.00	39.65	0.34	39.99
rock spring												
0-1000	0.00	1.01	9.96	10.97	0.00	3.93	0.91	4.84	0.00	4.94	10.87	15.81
walnut mountain												
0-1000	0.00	14.21	8.55	22.76	0.00	12.26	2.02	14.28	0.00	26.47	10.57	37.04
windrock												
0-1000	0.00	12.89	7.13	20.02	0.00	20.11	5.39	25.50	0.00	33.00	12.52	45.52
county total =	0.00	217.50	61.49	278.99	0.00	208.57	33.02	241.59	0.00	426.07	94.51	520.58

claiborne county

bit												
big mary												
0-1000	0.00	1.36	1.12	2.48	0.00	1.13	0.38	1.51	0.00	2.49	1.50	3.99
blue gem												
0-1000	0.00	6.77	0.00	6.77	0.00	15.62	0.00	15.62	0.00	22.39	0.00	22.39
coal creek												
0-1000	0.00	19.80	6.91	26.71	0.00	28.82	3.59	32.41	0.00	48.62	10.50	59.12
jellico												
0-1000	0.00	8.56	0.99	9.55	0.00	4.99	4.35	9.34	0.00	13.55	5.34	18.89
pewee												
0-1000	0.00	1.32	1.45	2.77	0.00	0.35	0.00	0.35	0.00	1.67	1.45	3.12
pioneer												
0-1000	0.00	3.85	0.00	3.85	0.00	8.79	0.00	8.79	0.00	12.64	0.00	12.64
rex												
0-1000	0.00	1.29	0.35	1.64	0.00	20.20	0.00	20.20	0.00	21.49	0.35	21.84
county total =	0.00	42.95	10.82	53.77	0.00	79.90	8.32	88.22	0.00	122.85	19.14	141.99

cumberland county

bit

morgan springs 0-1000	0.00	2.06	0.21	2.27	0.00	5.67	0.00	5.67	0.00	7.73	0.21	7.94
sewanee 0-1000	0.00	8.82	14.79	23.61	0.00	15.50	28.09	43.59	0.00	24.32	42.88	67.20
wilder 0-1000	0.00	1.89	2.15	4.04	0.00	5.09	3.93	9.02	0.00	6.98	6.08	13.06
county total =	0.00	12.77	17.15	29.92	0.00	26.26	32.02	58.28	0.00	39.03	49.17	88.20

fentress county

bit lower wilder 0-1000	0.00	0.10	0.16	0.26	0.00	0.25	0.00	0.25	0.00	0.35	0.16	0.51
nemo 0-1000	0.00	2.95	0.13	3.08	0.00	5.42	0.00	5.42	0.00	8.37	0.13	8.50
sewanee 0-1000	0.00	1.26	0.03	1.29	0.00	1.97	0.00	1.97	0.00	3.23	0.03	3.26
white oak 0-1000	0.00	7.70	0.63	8.33	0.00	10.34	0.01	10.35	0.00	18.04	0.64	18.68
wilder 0-1000	0.00	17.93	20.17	38.10	0.00	28.50	38.71	67.21	0.00	46.43	58.88	105.31
county total =	0.00	29.94	21.12	51.06	0.00	46.48	38.72	85.20	0.00	76.42	59.84	136.26

grundy county

bit sewanee 0-1000	0.00	10.07	0.08	10.15	0.00	1.88	0.00	1.88	0.00	11.95	0.08	12.03
county total =	0.00	10.07	0.08	10.15	0.00	1.88	0.00	1.88	0.00	11.95	0.08	12.03

hamilton county

bit lantana 0-1000	0.00	0.35	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.35
morgan springs 0-1000	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.20	0.00	0.20	0.00	0.20
richland 0-1000	0.00	14.98	0.03	15.01	0.00	10.35	0.00	10.35	0.00	25.33	0.03	25.36
sewanee 0-1000	0.00	15.36	1.34	16.70	0.00	12.10	0.00	12.10	0.00	27.46	1.34	28.80
county total =	0.00	30.69	1.37	32.06	0.00	22.65	0.00	22.65	0.00	53.34	1.37	54.71

marion county

bit bon air 0-1000	0.00	2.65	0.00	2.65	0.00	7.11	0.00	7.11	0.00	9.76	0.00	9.76
sewanee 0-1000	0.00	53.09	3.92	57.01	0.00	10.82	1.22	12.04	0.00	63.91	5.14	69.05
county total =	0.00	55.74	3.92	59.66	0.00	17.93	1.22	19.15	0.00	73.67	5.14	78.81

morgan county

bit

big mary												
0-1000	0.00	9.86	17.05	26.91	0.00	2.90	15.65	18.55	0.00	12.76	32.70	45.46
grassy spring												
0-1000	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05
hooper												
0-1000	0.00	0.15	0.00	0.15	0.00	1.88	0.00	1.88	0.00	2.03	0.00	2.03
jellico												
0-1000	0.00	6.53	0.14	6.67	0.00	0.00	0.00	0.00	0.00	6.53	0.14	6.67
joyner												
0-1000	0.00	8.64	0.00	8.64	0.00	11.39	0.00	11.39	0.00	20.03	0.00	20.03
pewee												
0-1000	0.00	3.84	0.00	3.84	0.00	1.57	0.00	1.57	0.00	5.41	0.00	5.41
poplar creek												
0-1000	0.00	19.80	3.96	23.76	0.00	24.52	1.15	25.67	0.00	44.32	5.11	49.43
rex												
0-1000	0.00	8.36	0.00	8.36	0.00	9.70	0.00	9.70	0.00	18.06	0.00	18.06
sewanee												
0-1000	0.00	0.00	1.52	1.52	0.00	0.00	3.15	3.15	0.00	0.00	4.67	4.67
walnut mountain												
0-1000	0.00	6.59	0.00	6.59	0.00	5.77	0.00	5.77	0.00	12.36	0.00	12.36
wilder												
0-1000	0.00	0.00	0.37	0.37	0.00	0.00	1.25	1.25	0.00	0.00	1.62	1.62
windrock												
0-1000	0.00	1.29	0.00	1.29	0.00	0.87	0.00	0.87	0.00	2.16	0.00	2.16

county total =	0.00	65.11	23.04	88.15	0.00	58.60	21.20	79.80	0.00	123.71	44.24	167.95

overton						county						

bit												
sewanee												
0-1000	0.00	0.13	0.00	0.13	0.00	0.68	0.00	0.68	0.00	0.81	0.00	0.81
wilder												
0-1000	0.00	10.19	1.93	12.12	0.00	7.27	1.85	9.12	0.00	17.46	3.78	21.24

county total =	0.00	10.32	1.93	12.25	0.00	7.95	1.85	9.80	0.00	18.27	3.78	22.05

pickett						county						

bit												
wilder												
0-1000	0.00	0.00	0.22	0.22	0.00	0.00	0.50	0.50	0.00	0.00	0.72	0.72

county total =	0.00	0.00	0.22	0.22	0.00	0.00	0.50	0.50	0.00	0.00	0.72	0.72

putnam						county						

bit												
wilder												
0-1000	0.00	4.20	21.86	26.06	0.00	3.75	10.50	14.25	0.00	7.95	32.36	40.31

county total =	0.00	4.20	21.86	26.06	0.00	3.75	10.50	14.25	0.00	7.95	32.36	40.31

rhea						county						

bit												
morgan springs												
0-1000	0.00	3.36	0.00	3.36	0.00	3.38	0.00	3.38	0.00	6.74	0.00	6.74
nemo												
0-1000	0.00	2.04	2.14	4.18	0.00	1.92	3.74	5.66	0.00	3.96	5.88	9.84

bit												
big mary	2.4	36.7	50.6	12.7	4.9	73.1	1.6	5.9	3.6	12941	2306	10
coal creek	3.4	37.9	55.7	6.4	5.2	77.6	1.8	6.2	1.8	14136	2421	36
hazard no 5a	4.7	36.1	52.5	11.4	4.9	73.5	1.8	7.2	1.4	13132	2565	4
jellico	3.2	38.2	53.8	8.0	5.3	79.2	2.0	6.3	2.5	13760	2372	15
poplar creek	2.7	37.0	56.9	6.1	5.3	79.7	1.9	5.6	1.1	14254	2555	60
uncorrelated	2.0	38.2	44.6	17.2	4.7	67.0	1.3	5.7	4.1	12230	2080	1
windrock	3.5	35.0	53.6	11.4	5.1	78.5	1.9	7.1	1.0	13187	2712	4

county average	3.0	37.3	55.4	7.3	5.2	77.2	1.8	6.1	1.7	13980	2468	130

sequatchie county												

bit												
hazard no 5a	2.8	31.8	59.5	8.7	0.0	0.0	0.0	0.0	1.3	13990	2510	1
sewanee	2.9	29.3	58.7	12.0	4.6	74.8	1.5	5.2	1.6	13394	2475	35
uncorrelated	2.3	28.8	61.9	9.3	0.0	0.0	0.0	0.0	1.3	13760	2535	2

county average	2.9	29.4	58.9	11.8	4.6	74.8	1.5	5.2	1.6	13429	2479	38

van buren county												

bit												
sewanee	3.4	34.5	52.9	12.5	0.0	0.0	0.0	0.0	2.2	13196	2246	5

county average	3.4	34.5	52.9	12.5	0.0	0.0	0.0	0.0	2.2	13196	2246	5

white county												

bit												
lower bon air	3.2	39.6	52.5	7.9	5.3	76.9	1.2	5.8	2.9	13850	2350	1
richland	3.1	35.6	52.2	12.2	4.9	73.2	1.5	4.7	3.6	13280	2155	2
upper bon air	3.0	40.9	48.4	10.7	5.1	73.2	1.5	5.2	4.3	13460	2140	1

county average	3.1	37.9	51.3	10.8	5.1	74.1	1.4	5.1	3.6	13467	2200	4

sewanee													
0-1000	0.00	5.94	0.00	5.94	0.00	9.16	0.20	9.36	0.00	15.10	0.20	15.30	
county total =	0.00	11.34	2.14	13.48	0.00	14.46	3.94	18.40	0.00	25.80	6.08	31.88	

roane						county							

bit													
sewanee													
0-1000	0.00	0.00	1.34	1.34	0.00	0.00	5.05	5.05	0.00	0.00	6.39	6.39	
county total =	0.00	0.00	1.34	1.34	0.00	0.00	5.05	5.05	0.00	0.00	6.39	6.39	

scott						county							

bit													
big mary													
0-1000	0.00	15.25	17.86	33.11	0.00	5.76	6.42	12.18	0.00	21.01	24.28	45.29	
hazard no 5a													
0-1000	0.00	2.16	1.94	4.10	0.00	0.27	0.34	0.61	0.00	2.43	2.28	4.71	
jellico													
0-1000	0.00	4.43	0.00	4.43	0.00	0.80	0.00	0.80	0.00	5.23	0.00	5.23	
jordan													
0-1000	0.00	0.72	0.00	0.72	0.00	1.15	0.00	1.15	0.00	1.87	0.00	1.87	
pewee													
0-1000	0.00	3.43	0.72	4.15	0.00	2.10	0.00	2.10	0.00	5.53	0.72	6.25	
pioneer													
0-1000	0.00	2.84	0.29	3.13	0.00	7.07	0.00	7.07	0.00	9.91	0.29	10.20	
poplar creek													
0-1000	0.00	30.04	1.44	31.48	0.00	24.72	0.00	24.72	0.00	54.76	1.44	56.20	
walnut mountain													
0-1000	0.00	11.66	1.38	13.04	0.00	1.13	1.55	2.68	0.00	12.79	2.53	15.72	
white oak													
0-1000	0.00	0.56	0.10	0.66	0.00	1.95	0.01	1.96	0.00	2.51	0.11	2.62	
windrock													
0-1000	0.00	2.36	2.28	4.64	0.00	4.40	0.00	4.40	0.00	6.76	2.28	9.04	
county total =	0.00	73.45	26.01	99.46	0.00	49.35	8.32	57.67	0.00	122.80	34.33	157.13	

sequatchie						county							

bit													
richland													
0-1000	0.00	0.25	0.00	0.25	0.00	0.36	0.00	0.36	0.00	0.61	0.00	0.61	
sewanee													
0-1000	0.00	59.53	5.44	64.97	0.00	21.27	2.03	23.30	0.00	80.80	7.47	88.27	
county total =	0.00	59.78	5.44	65.22	0.00	21.63	2.03	23.66	0.00	81.41	7.47	88.88	

van buren						county							

bit													
bon air													
0-1000	0.00	0.10	0.00	0.10	0.00	0.87	0.00	0.87	0.00	0.97	0.00	0.97	
lantana													
0-1000	0.00	5.93	0.47	6.40	0.00	1.89	0.26	2.15	0.00	7.82	0.73	8.55	
richland													
0-1000	0.00	4.79	0.08	4.87	0.00	5.81	0.01	5.82	0.00	10.60	0.09	10.69	
sewanee													
0-1000	0.00	6.08	1.97	8.05	0.00	5.37	4.76	10.13	0.00	11.45	6.73	18.18	

county total =	0.00	16.90	2.52	19.42	0.00	13.94	5.03	18.97	0.00	30.84	7.55	38.39
=====												
	white				county							
=====												
bit												
bon air												
0-1000	0.00	2.30	0.44	2.74	0.00	3.56	1.83	5.39	0.00	5.86	2.27	8.13
sewanee												
0-1000	0.00	5.37	1.21	6.58	0.00	1.04	0.10	1.14	0.00	6.41	1.31	7.72
wilder												
0-1000	0.00	0.28	1.09	1.37	0.00	0.00	0.11	0.11	0.00	0.28	1.20	1.48
county total =	0.00	7.95	2.74	10.69	0.00	4.60	2.04	6.64	0.00	12.55	4.78	17.33
=====												
overburden												
subtotal												
0-1000	0.00	755.14	279.72	1034.86	0.00	649.59	200.03	849.62	0.00	1404.73	479.75	1884.48
total =	0.00	755.14	279.72	1034.86	0.00	649.59	200.03	849.62	0.00	1404.73	479.75	1884.48
=====												
=====												
overburden												
total												
0-1000	0.00	755.14	279.72	1034.86	0.00	649.59	200.03	849.62	0.00	1404.73	479.75	1884.48
grand total =	0.00	755.14	279.72	1034.86	0.00	649.59	200.03	849.62	0.00	1404.73	479.75	1884.48
=====												

total tonnage of identified coal resources in tennessee

1884.48

resource figures taken from:

source	year	base year of resource
tenn dv geol bull 63	1959	1959

average analyses of coal in tennessee

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
anderson county														
bit														
big mary	2.0	37.3		51.8	10.9	4.8	71.8	1.6	5.6	3.3	13285	2252	62	
big mary & wind rock	2.2	36.4		50.6	13.0	0.0	0.0	0.0	0.0	1.8	13030	2690	1	
blue gem	4.0	40.0		57.0	3.0	0.0	0.0	0.0	0.0	0.9	14720	2320	1	
coal creek	1.9	37.0		55.6	7.4	5.3	78.8	1.9	5.6	1.8	14059	2322	13	
jellico	3.0	36.1		54.8	9.1	5.0	75.5	1.8	6.2	2.4	13526	2391	6	
jordan	6.4	37.2		53.2	9.7	0.0	0.0	0.0	0.0	0.7	13155	2532	4	
pewee	2.9	38.3		56.1	5.6	5.3	80.9	1.8	7.6	0.7	14116	2527	24	
poplar creek	2.0	40.3		55.7	4.1	5.5	81.1	2.2	5.3	1.8	14605	2125	2	
walnut mountain	4.2	36.4		50.6	13.0	4.6	69.0	1.5	7.2	1.3	12720	2702	5	
windrock	2.5	38.3		54.2	7.5	5.1	76.4	1.9	6.5	0.9	13841	2540	31	
county average	2.5	37.6		53.5	8.9	5.1	75.8	1.8	6.0	2.0	13615	2405	149	
bledsoe county														
bit														
morgan springs	2.2	34.2		54.9	10.9	0.0	0.0	0.0	0.0	2.6	13505	2380	2	
sewanee	3.7	29.9		53.7	16.5	4.7	76.6	1.5	5.1	1.3	12581	2535	6	
county average	3.3	31.0		54.0	15.1	4.7	76.6	1.5	5.1	1.6	12812	2512	8	
cambell county														
bit														
big mary	3.1	36.4		50.3	13.3	4.9	72.2	1.5	5.9	3.0	12826	2375	12	
blue gem	4.4	40.3		57.2	2.5	5.6	81.0	2.1	7.9	1.1	14446	2140	16	
blue gem & jellico	3.0	39.2		55.9	4.9	0.0	0.0	0.0	0.0	1.3	14318	2475	7	
coal creek	3.0	36.6		55.9	7.5	5.3	80.6	1.9	6.8	1.0	13894	2370	15	
hazard no 5a	3.3	39.2		54.3	6.5	5.4	79.1	1.9	7.6	1.1	13906	2586	48	
jellico	3.6	38.5		56.3	5.2	5.3	79.3	1.9	7.4	1.1	14175	2462	74	
jordan	4.7	37.7		56.4	5.9	5.3	78.2	1.9	7.2	1.0	13844	2513	9	
joyner	3.2	39.1		55.3	5.6	5.3	77.1	1.8	5.9	4.3	14040	2340	1	
pewee	3.6	38.8		55.5	5.7	5.4	81.1	1.7	7.8	0.7	14054	2404	51	
pewee & red ash	6.0	35.5		52.6	11.9	0.0	0.0	0.0	0.0	0.8	12810	2790	1	
pioneer	5.4	37.3		53.3	9.4	5.1	75.9	1.9	6.7	1.9	13295	2370	2	
poplar creek	3.7	40.3		53.9	5.9	5.3	78.8	1.9	7.2	2.5	13992	2176	5	
rex	3.0	37.0		55.3	7.6	5.5	82.0	2.1	7.4	1.1	13764	2410	54	
rock spring	3.8	36.6		49.6	13.8	4.9	71.1	1.5	6.5	2.2	12753	2506	3	
various	6.0	37.8		52.3	9.9	0.0	0.0	0.0	0.0	1.5	13203	2376	3	
windrock	2.9	37.3		51.1	11.6	4.8	71.9	1.8	8.0	1.9	13070	2596	1	
county average	3.5	38.3		55.3	6.4	5.3	78.6	1.9	7.2	1.2	13937	2436	302	

claiborne county												
bit												
big mary	3.4	36.6	54.1	9.3	5.2	77.8	2.1	6.5	1.1	13514	2737	21
blue gem	4.9	39.6	54.8	5.5	0.0	0.0	0.0	0.0	2.1	13990	2196	3
jellico	3.3	37.9	56.2	5.9	5.3	80.1	2.0	6.9	1.1	14111	2401	127
lower pioneer	5.6	34.6	56.5	8.9	4.7	76.8	2.0	7.3	1.1	13493	2476	3
pevee	5.4	38.6	55.3	6.1	5.2	75.5	1.7	9.3	0.7	14007	2622	4
various	3.8	37.1	54.6	8.3	0.0	0.0	0.0	0.0	1.3	13592	2586	12
windrock	3.8	38.5	53.7	7.7	5.4	76.3	1.9	6.4	1.5	13676	2660	8
county average	3.5	37.7	55.7	6.6	5.3	79.0	2.0	7.0	1.1	13972	2474	178
cumberland county												
bit												
sewanee	2.2	28.6	59.0	12.5	4.5	75.4	1.4	4.8	1.8	13257	2490	4
uncorrelated	2.0	31.4	61.3	7.3	0.0	0.0	0.0	0.0	1.1	14270	2400	2
upper bon air	2.8	32.7	60.5	6.8	4.9	81.1	1.4	5.1	0.7	14340	2640	1
county average	2.2	30.0	59.9	10.2	4.6	76.8	1.4	4.9	1.4	13701	2485	7
fentress county												
bit												
white oak	6.3	35.8	58.2	6.1	4.9	80.1	1.3	7.7	0.8	13945	2430	2
wilder	2.6	37.0	52.7	10.3	5.1	74.6	1.4	6.0	2.8	13440	2236	34
county average	2.8	37.0	53.0	10.0	5.1	75.2	1.4	6.2	2.7	13468	2262	36
grundy county												
bit												
sewanee	2.6	29.8	59.9	10.3	4.7	78.1	1.5	5.5	0.9	13576	2588	206
county average	2.6	29.8	59.9	10.3	4.7	78.1	1.5	5.5	0.9	13576	2588	206
hamilton county												
bit												
oakdale	2.9	30.5	57.6	11.9	0.0	0.0	0.0	0.0	3.6	13472	2357	10
richland	2.8	29.3	60.4	10.3	5.0	79.7	1.5	3.8	1.6	13773	2517	14
sewanee	2.5	28.5	58.7	12.8	4.7	76.1	1.4	3.3	2.7	13381	2293	7
uncorrelated	3.5	29.0	60.9	10.1	0.0	0.0	0.0	0.0	1.6	13885	2360	2
upper bon air	2.5	40.0	54.5	5.5	0.0	0.0	0.0	0.0	1.3	14820	2200	1
county average	2.8	29.8	59.1	11.1	4.9	78.5	1.5	3.6	2.4	13641	2410	34
marion county												
bit												
castle rock	3.3	25.1	63.7	11.2	4.5	77.7	1.2	2.8	2.8	13690	2255	2
hazard no 5a	2.7	24.2	53.5	22.3	0.0	0.0	0.0	0.0	3.8	11790	2170	1
lower sale creek	3.3	25.1	64.2	10.7	0.0	0.0	0.0	0.0	1.6	13650	2790	1
richland	3.0	28.4	64.9	6.7	0.0	0.0	0.0	0.0	1.3	14460	2540	5

[illegible]

Tennessee

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fallo
tennessee	anderson	dewee	5.7	36.2	53.9	9.9	0.6	13260	0	1.5
tennessee	anderson	jordan	8.3	35.7	51.8	12.5	0.5	12500	40	1.0
tennessee	anderson	windrock	2.9	37.8	56.0	6.2	0.8	14180	46	5.0
tennessee	anderson	windrock	2.5	38.4	55.1	8.5	0.9	13700	45	3.5
tennessee	anderson	windrock	3.0	39.4	54.3	6.3	0.7	14080	46	4.5
tennessee	anderson	windrock	2.8	39.5	53.8	6.7	0.9	13970	44	3.5
tennessee	anderson	windrock	2.7	36.8	55.3	7.9	0.8	13430	45	4.5
tennessee	anderson	windrock	2.4	38.4	52.1	9.5	0.9	13390	44	4.5
tennessee	anderson	big mary	2.0	33.6	43.2	23.2	4.1	11300	47	6.5
tennessee	anderson	jordan	3.1	38.3	50.5	11.2	0.6	13120	41	4.0
tennessee	anderson	big mary	1.7	35.8	52.0	12.2	3.2	13100	0	5.5
tennessee	anderson	big mary	2.0	36.5	50.1	13.4	3.6	12800	49	5.0
tennessee	anderson	big mary	3.5	33.0	46.8	20.2	3.1	11750	0	5.5
tennessee	anderson	big mary	1.7	35.2	49.9	14.9	3.0	12610	0	5.5
tennessee	anderson	big mary	1.8	37.0	46.5	16.5	3.8	12340	48	5.0
tennessee	anderson	big mary	2.2	38.8	48.6	12.6	3.6	12980	46	5.5
tennessee	anderson	big mary	2.3	37.4	48.1	14.5	3.4	12700	50	5.0
tennessee	anderson	big mary	2.2	39.5	51.2	9.3	3.8	13440	0	7.0
tennessee	anderson	dewee	3.0	37.0	55.3	7.7	1.1	13810	44	4.5
tennessee	anderson	dewee	2.7	37.5	55.7	6.8	0.9	13960	43	4.5
tennessee	anderson	windrock	2.8	36.6	52.4	11.0	0.9	13300	46	6.0
tennessee	anderson	windrock	2.1	38.6	48.5	12.9	4.1	12920	48	6.0
tennessee	anderson	walnut mountain	4.5	36.3	50.6	13.1	1.3	12780	43	3.0
tennessee	anderson	walnut mountain	5.6	37.3	55.1	7.6	1.1	13350	43	1.5
tennessee	anderson	jordan	9.0	35.5	55.9	8.6	0.8	13190	42	1.0
tennessee	anderson	walnut mountain	4.0	35.5	48.1	16.4	1.3	12270	44	2.5
tennessee	anderson	walnut mountain	3.5	36.2	49.2	14.6	1.4	12560	43	4.0
tennessee	anderson	walnut mountain	3.7	36.5	50.0	13.5	1.3	12640	43	4.0
tennessee	anderson	windrock	3.2	39.1	51.1	9.8	0.8	13430	43	4.0

continued.....

state	county	bed	moistur	volmat	fixcdc	ash	sulfur	btu	hgilo	fsilo
tennessee	anderson	big mary	2.0	34.9	45.9	19.2	3.5	11910	0	4.5
tennessee	anderson	big mary	1.9	37.5	47.1	15.4	4.2	12520	45	6.0
tennessee	anderson	big mary & wind rock	2.2	36.4	50.6	13.0	1.8	13030	46	4.5
tennessee	bledsne	sewanee	4.7	33.4	56.3	10.3	0.7	13570	51	5.0
tennessee	bledsoe	sewanee	3.5	31.5	46.5	22.0	3.1	11570	58	6.5
tennessee	bledsoe	sewanee	4.6	28.9	51.5	19.6	1.0	11960	60	3.5
tennessee	bledsoe	morgan springs	2.3	34.9	55.6	9.5	1.7	13740	54	7.0
tennessee	campbell	coal creek	6.2	35.6	57.5	6.9	0.7	14010	47	6.0
tennessee	campbell	coal creek	3.3	33.5	50.2	16.3	0.7	12410	48	4.5
tennessee	campbell	jellico	4.6	36.8	52.5	10.7	1.8	13280	52	5.0
tennessee	campbell	jellico	4.6	38.6	56.2	5.2	0.8	14230	45	4.5
tennessee	campbell	jellico	3.0	40.1	57.8	2.1	0.8	14610	0	5.5
tennessee	campbell	jellico	3.5	38.8	56.0	5.2	0.8	14270	0	5.0
tennessee	campbell	jellico	5.0	35.4	54.6	10.0	1.0	13370	53	5.0
tennessee	campbell	jellico	6.7	35.4	56.2	8.4	0.9	13710	49	5.5
tennessee	campbell	various	7.3	37.2	54.3	8.5	1.0	13270	46	1.5
tennessee	campbell	jellico	4.5	36.5	56.0	7.5	1.0	13710	43	4.0
tennessee	campbell	hazard no 5a	4.3	38.5	51.8	9.7	0.9	13330	47	5.0
tennessee	campbell	rock spring	4.0	33.4	48.5	18.1	1.0	12040	42	3.0
tennessee	campbell	owee	4.9	35.0	52.6	12.4	0.6	12890	0	3.0
tennessee	campbell	owee	4.7	36.0	53.6	10.4	0.6	13200	0	4.5
tennessee	campbell	owee	7.2	35.2	52.8	12.0	0.7	12970	0	1.5
tennessee	campbell	owee	3.2	37.1	52.9	10.0	0.8	13330	0	4.5
tennessee	campbell	hazard no 5a	6.2	39.5	51.8	8.7	2.8	13490	46	4.0
tennessee	campbell	big mary	3.6	35.7	50.4	13.9	3.5	12770	43	4.5
tennessee	campbell	various	6.1	36.9	53.6	9.5	1.2	13310	0	2.0
tennessee	campbell	various	4.7	39.4	48.9	11.7	2.4	13030	0	4.5
tennessee	campbell	hazard no 5a	4.3	37.4	51.9	10.7	1.8	13160	45	5.5
tennessee	campbell	pinneer	7.7	36.4	52.7	10.9	1.3	12930	48	1.0
tennessee	campbell	owee	6.0	37.3	52.5	10.2	0.7	13270	44	4.5
tennessee	campbell	hazard no 5a	5.8	38.0	54.4	7.6	1.0	13550	44	2.5
tennessee	campbell	owee & red ash	6.0	35.5	52.6	11.9	0.8	12810	46	2.0
tennessee	campbell	hazard no 5a	3.1	39.4	52.6	8.0	1.1	13740	47	5.5
tennessee	campbell	hazard no 5a	3.4	38.1	53.4	8.5	1.1	13590	47	5.5
tennessee	campbell	hazard no 5a	3.1	37.3	52.2	10.5	1.4	13280	44	4.5
tennessee	campbell	hazard no 5a	3.8	35.6	51.3	13.1	1.2	12800	46	5.0
tennessee	campbell	owee	3.3	40.0	56.1	3.9	0.6	14360	0	4.5
tennessee	campbell	owee	3.4	38.9	54.3	6.8	0.6	13940	39	5.0
tennessee	campbell	windrock	2.9	37.3	51.1	11.6	1.9	13070	45	5.0
tennessee	campbell	jordan	4.5	36.5	57.5	6.0	0.8	13810	44	4.5
tennessee	campbell	jellico	4.2	38.9	50.3	10.8	3.4	13200	53	3.5
tennessee	campbell	jordan	4.7	37.1	58.9	4.0	0.8	14240	0	4.5
tennessee	campbell	big mary	2.6	35.5	47.0	17.5	4.1	12180	45	6.5
tennessee	campbell	big mary	2.5	35.6	46.8	17.6	4.4	12110	45	6.0
tennessee	campbell	owee	6.8	36.0	55.0	9.0	0.9	13530	44	4.5
tennessee	campbell	hazard no 5a	5.0	38.0	55.4	6.6	0.8	13710	46	2.5
tennessee	campbell	big mary	3.1	34.2	50.7	15.1	2.1	12600	47	4.5
tennessee	campbell	big mary	2.9	34.7	50.4	14.9	2.2	12610	45	6.0
tennessee	campbell	blue gem & jellico	3.9	37.1	53.6	9.3	1.6	13590	0	5.0
tennessee	campbell	jellico	4.1	35.5	59.3	5.2	1.1	14210	0	5.5

state	county	bed	moistur	volmat	fixcdc	ash	sulfur	btu	hgilo	fselo
tennessee	cambell	nonlar creek	3.9	39.7	51.5	8.8	3.7	13510	44	5.5
tennessee	cambell	jordon	7.2	36.0	46.0	18.0	2.2	11510	51	1.0
tennessee	cambell	hazard no 5a	4.7	34.5	51.2	14.3	1.1	12580	46	5.0
tennessee	cambell	jellico	3.8	34.5	52.0	13.5	1.1	12820	0	5.0
tennessee	cambell	jellico	4.3	39.1	56.3	4.6	1.0	14160	0	3.0
tennessee	cambell	jellico	4.2	38.6	56.2	5.2	1.3	14110	45	4.0
tennessee	cambell	jellico	4.4	37.5	54.8	7.7	1.3	13690	0	3.5
tennessee	cambell	jellico	5.2	39.5	56.2	4.3	0.7	14250	0	5.0
tennessee	cambell	jellico	5.5	37.6	54.7	7.7	0.9	13610	0	2.5
tennessee	cambell	jellico	4.2	38.3	52.0	9.7	2.0	13340	0	3.5
tennessee	cambell	jellico	5.6	37.3	55.2	7.5	1.0	13610	0	1.5
tennessee	cambell	blue gem & jellico	2.9	38.5	55.8	5.7	1.3	14100	46	5.0
tennessee	claiborne	big mary	2.4	39.5	52.4	8.1	3.1	13690	0	5.5
tennessee	claiborne	big mary	3.3	39.9	51.9	8.2	3.3	13660	43	5.5
tennessee	claiborne	jellico	7.9	35.6	56.2	8.2	1.0	13340	55	2.0
tennessee	claiborne	jellico	5.2	37.7	56.4	5.9	1.1	14220	50	5.0
tennessee	claiborne	jellico	8.9	35.3	57.4	7.3	0.9	13330	54	1.0
tennessee	claiborne	jellico	7.5	33.0	51.9	15.1	1.2	12350	51	1.5
tennessee	claiborne	windrock	4.9	35.6	49.2	15.2	1.4	12500	47	3.5
tennessee	claiborne	jellico	4.6	37.6	56.8	5.6	1.1	14090	0	5.5
tennessee	claiborne	jellico	4.5	36.2	53.0	10.8	1.4	13150	52	5.5
tennessee	claiborne	jellico	5.6	38.3	57.1	4.6	1.4	14110	52	4.5
tennessee	claiborne	jellico	8.9	33.4	52.3	14.3	1.4	12640	0	3.5
tennessee	claiborne	blue gem	8.4	36.5	53.7	9.8	2.0	13050	54	1.0
tennessee	claiborne	jellico	4.5	36.9	57.6	5.5	1.5	14100	0	6.0
tennessee	claiborne	varinus	2.4	38.6	53.5	7.9	2.5	13760	0	5.5
tennessee	claiborne	pewee	7.3	36.7	54.9	8.4	0.9	13610	56	4.5
tennessee	claiborne	big mary	3.7	34.7	52.8	12.5	0.8	13000	40	2.5
tennessee	claiborne	big mary	5.9	36.5	55.9	7.6	1.2	13680	48	4.0
tennessee	claiborne	pewee	6.7	37.8	54.6	7.6	0.7	13600	46	3.5
tennessee	claiborne	jellico	3.0	37.9	55.9	6.2	1.0	14120	47	4.0
tennessee	claiborne	jellico	3.2	36.3	53.9	9.8	1.1	13450	0	5.0
tennessee	claiborne	jellico	3.3	36.2	52.7	11.1	1.3	13260	0	6.0
tennessee	claiborne	jellico	4.6	35.5	55.8	8.7	0.9	13600	52	5.5
tennessee	claiborne	jellico	5.0	35.1	55.4	9.5	1.0	13520	0	6.0
tennessee	claiborne	jellico	4.7	37.2	56.7	6.1	0.9	14030	0	5.5
tennessee	claiborne	jellico	3.8	35.7	53.5	10.8	1.1	13350	48	5.0
tennessee	claiborne	jellico	3.4	34.4	49.0	16.6	1.3	12370	0	5.5
tennessee	claiborne	jellico	4.2	38.4	56.8	4.8	0.9	14190	40	4.5
tennessee	claiborne	jellico	5.2	37.0	57.7	5.3	0.7	14230	49	6.5
tennessee	claiborne	jellico	5.5	38.2	56.4	5.4	0.8	14150	47	5.0
tennessee	claiborne	jellico	4.1	35.0	53.9	11.1	0.8	13300	46	6.5
tennessee	claiborne	big mary	3.3	36.5	53.8	9.7	0.9	13400	0	5.0
tennessee	claiborne	windrock	3.6	38.3	52.4	9.3	1.4	13390	45	5.0
tennessee	claiborne	jellico	5.3	37.0	56.5	6.5	1.0	14120	49	4.5
tennessee	grundv	sewanee	4.6	30.0	60.8	9.2	0.9	13700	98	5.5
tennessee	grundv	sewanee	1.9	29.3	56.8	13.9	0.7	12910	0	6.0
tennessee	grundv	sewanee	5.0	30.1	57.1	12.8	0.8	13110	64	6.0
tennessee	grundv	sewanee	4.5	30.5	59.9	9.6	0.9	13680	57	6.0
tennessee	grundv	sewanee	3.6	30.2	61.0	8.8	0.8	13800	60	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
tennessee	grundy	sewanee	3.8	31.0	59.1	9.9	0.9	13650	63	6.5
tennessee	grundy	sewanee	3.2	31.5	58.9	9.6	1.0	13640	0	6.0
tennessee	grundy	sewanee	3.2	30.7	59.2	10.1	0.8	13530	0	6.5
tennessee	grundy	sewanee	3.8	29.3	56.1	14.6	1.1	12860	0	5.0
tennessee	grundy	sewanee	2.1	29.5	60.7	9.8	0.7	13690	0	6.5
tennessee	grundy	sewanee	2.2	29.3	60.3	10.4	0.8	13600	0	7.0
tennessee	grundy	sewanee	1.8	30.0	59.3	10.7	1.1	13530	0	7.0
tennessee	grundy	sewanee	2.8	27.7	61.6	10.7	0.6	13580	0	6.0
tennessee	grundy	sewanee	4.9	27.8	60.7	11.5	0.8	13350	0	6.0
tennessee	grundy	sewanee	3.7	28.0	60.7	11.3	0.7	13390	0	7.0
tennessee	grundy	sewanee	3.8	29.8	58.3	11.9	0.7	13330	64	4.5
tennessee	grundy	sewanee	3.6	31.3	59.0	9.7	0.9	13640	60	6.0
tennessee	grundy	sewanee	4.4	29.9	58.3	11.8	0.9	13290	0	1.5
tennessee	grundy	sewanee	4.3	29.8	60.3	9.9	0.7	13610	59	5.5
tennessee	grundy	sewanee	3.3	30.4	60.4	9.2	0.6	13760	0	6.0
tennessee	grundy	sewanee	3.5	29.9	58.5	11.6	0.8	13260	0	2.5
tennessee	grundy	sewanee	3.3	30.6	58.3	11.1	0.8	13370	0	5.5
tennessee	grundy	sewanee	3.5	30.7	60.5	8.8	0.8	13750	59	7.0
tennessee	grundy	sewanee	3.3	30.7	58.5	10.8	0.8	13450	0	5.0
tennessee	grundy	sewanee	3.1	29.7	59.3	11.0	0.8	13410	0	6.0
tennessee	grundy	sewanee	3.1	30.0	59.2	10.8	0.7	13450	0	5.5
tennessee	grundy	sewanee	2.9	29.8	58.4	11.8	0.7	13360	62	7.0
tennessee	grundy	sewanee	4.2	30.0	61.5	8.5	0.8	13830	63	6.5
tennessee	marion	sewanee	2.5	28.7	59.0	12.3	0.8	13280	57	7.5
tennessee	marion	sewanee	2.2	28.9	60.6	10.5	0.6	13540	58	7.5
tennessee	marion	sewanee	3.1	29.7	59.8	10.5	1.0	13590	55	7.0
tennessee	marion	sewanee	2.6	29.2	60.5	10.3	0.7	13570	58	5.5
tennessee	marion	sewanee	2.2	29.7	60.6	9.7	1.1	13730	56	8.0
tennessee	marion	sewanee	2.9	28.7	59.6	11.7	1.0	13390	0	6.0
tennessee	marion	sewanee	3.0	28.5	61.1	10.4	0.6	13650	59	6.5
tennessee	marion	sewanee	2.2	29.2	60.8	10.0	0.6	13690	54	6.5
tennessee	marion	sewanee	2.4	28.9	60.9	10.2	0.6	13640	0	7.0
tennessee	marion	sewanee	2.9	28.8	60.6	10.6	0.7	13530	0	7.0
tennessee	marion	sewanee	2.2	28.9	61.1	10.0	0.7	13610	55	7.5
tennessee	marion	sewanee	2.4	28.4	60.3	11.3	0.8	13420	58	7.5
tennessee	marion	sewanee	2.9	29.6	59.6	10.8	0.9	13480	59	7.5
tennessee	marion	sewanee	2.8	28.5	60.6	10.9	0.7	13490	57	7.5
tennessee	marion	sewanee	1.6	26.1	59.6	14.3	4.8	13120	64	8.0
tennessee	marion	sewanee	4.5	28.6	59.4	12.0	2.7	13440	0	7.5
tennessee	marion	sewanee	2.7	29.1	60.9	10.0	0.6	13690	58	6.5
tennessee	marion	sewanee	2.1	27.5	57.2	15.3	2.1	12890	82	7.5
tennessee	marion	sewanee	4.1	28.4	61.2	10.4	0.9	13640	61	7.5
tennessee	marion	sewanee	2.9	29.1	60.1	10.8	1.1	13510	56	7.0
tennessee	marion	sewanee	3.2	29.1	60.5	10.4	1.0	13590	56	7.0
tennessee	marion	richland	1.9	27.5	66.6	5.9	1.4	14580	80	7.5
tennessee	marion	sewanee	2.7	29.1	60.1	10.8	1.2	13500	56	6.5
tennessee	marion	sewanee	4.9	28.8	61.1	10.1	0.9	13510	58	5.0
tennessee	marion	sewanee	2.5	30.4	59.7	9.9	0.6	13680	57	7.5
tennessee	marion	sewanee	2.6	28.9	60.8	10.3	0.6	13570	0	7.5
tennessee	marion	sewanee	3.7	29.0	58.5	12.5	1.3	13250	0	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
tennessee	marion	sewanee	2.9	28.8	61.3	9.9	0.7	13640	56	6.5
tennessee	morgan	walnut mountain	2.8	34.7	54.7	10.6	0.8	13330	47	5.5
tennessee	morgan	poplar creek	2.7	39.1	54.8	6.1	2.0	14220	61	7.0
tennessee	morgan	coal creek	3.4	36.2	50.3	13.5	3.6	13010	65	8.0
tennessee	outnam	wilder	4.2	37.8	48.8	13.4	4.1	13020	54	6.0
tennessee	putnam	wilder	1.9	37.5	48.5	14.0	4.2	12940	54	6.0
tennessee	putnam	wilder	7.9	34.1	42.8	23.1	3.9	11430	0	5.5
tennessee	nutnam	wilder	3.2	37.9	48.9	13.2	4.0	13040	49	4.0
tennessee	putnam	wilder	4.7	38.3	49.5	12.2	3.5	13180	52	4.0
tennessee	putnam	wilder	5.9	38.9	48.0	13.1	5.1	12980	51	4.0
tennessee	putnam	wilder	5.3	37.4	48.7	13.9	4.4	12960	51	4.5
tennessee	putnam	wilder	6.1	37.9	48.1	14.0	4.5	12860	57	4.0
tennessee	scott	hazard no 5a	5.0	36.6	53.9	9.5	1.2	13500	0	4.0
tennessee	scott	hazard no 5a	4.8	36.6	53.6	9.8	1.6	13400	0	1.0
tennessee	scott	hazard no 5a	5.1	34.4	50.5	15.1	1.6	12590	0	1.5
tennessee	scott	big mary	2.4	35.7	48.4	15.9	4.1	12370	46	7.0
tennessee	scott	big mary	1.9	35.7	48.0	16.3	4.1	12380	47	6.5
tennessee	scott	big mary	2.5	35.2	48.8	16.0	4.3	12420	48	6.0
tennessee	scott	poplar creek	2.2	36.8	57.7	5.5	1.0	14380	0	6.5
tennessee	scott	poplar creek	5.2	35.4	57.5	7.1	0.9	14110	55	7.5
tennessee	scott	poplar creek	2.2	36.1	54.4	9.5	2.8	13720	59	8.5
tennessee	scott	poplar creek	4.1	36.7	57.1	6.2	0.6	14080	52	6.5
tennessee	scott	poplar creek	8.3	34.3	55.0	10.7	0.7	12870	63	1.5
tennessee	scott	poplar creek	3.4	36.7	57.7	5.6	1.0	14270	55	7.5
tennessee	scott	coal creek	2.5	37.1	58.4	4.5	0.9	14520	60	7.5
tennessee	scott	coal creek	3.5	37.3	57.1	5.6	0.8	14390	53	6.0
tennessee	scott	coal creek	2.8	37.0	55.5	7.5	1.0	14010	54	7.0
tennessee	scott	coal creek	2.6	36.8	57.1	6.1	0.8	14220	0	8.0
tennessee	scott	windrock	2.8	31.8	48.8	19.4	0.9	11950	45	4.5
tennessee	scott	windrock	3.1	37.2	51.9	10.9	1.3	13290	46	5.5
tennessee	scott	windrock	1.9	35.7	55.5	8.8	0.9	13570	0	5.5
tennessee	scott	coal creek	2.3	35.7	48.5	15.8	2.2	12730	57	7.5
tennessee	scott	uncorrelated	2.0	34.2	44.6	17.2	4.1	12230	45	3.5
tennessee	scott	windrock	6.0	35.2	58.2	6.6	0.8	13940	51	5.0
tennessee	scott	poplar creek	2.4	39.8	50.6	9.6	3.9	13800	44	5.5
tennessee	scott	hazard no 5a	3.7	36.8	51.8	11.4	1.2	13040	47	5.5
tennessee	scott	poplar creek	5.6	41.2	52.3	6.5	1.5	13910	57	4.0
tennessee	scott	poplar creek	7.0	35.2	54.3	10.5	1.5	13140	50	2.5
tennessee	sequeatchie	sewanee	4.7	31.4	57.4	11.2	1.1	13430	0	6.0
tennessee	sequeatchie	sewanee	2.7	32.6	55.6	11.8	1.0	13240	55	4.5
tennessee	sequeatchie	sewanee	3.0	29.5	57.8	12.7	1.8	13330	60	7.5
tennessee	sequeatchie	sewanee	3.1	28.8	60.5	10.7	0.7	13590	57	7.0
tennessee	sequeatchie	sewanee	2.5	27.8	57.0	15.2	0.7	12750	57	7.0
tennessee	sequeatchie	sewanee	2.3	28.5	56.3	15.2	2.2	12760	59	7.5
tennessee	sequeatchie	sewanee	3.2	29.9	60.7	9.4	0.9	13740	0	6.5
tennessee	sequeatchie	sewanee	3.6	32.9	53.3	13.8	2.4	12900	0	6.5
tennessee	sequeatchie	sewanee	3.1	28.4	58.8	12.8	0.7	13190	57	7.5
tennessee	van bury	sewanee	4.6	34.8	52.7	12.5	2.0	13150	54	6.0
tennessee	van bury	sewanee	3.9	35.2	50.7	14.1	4.0	13020	54	7.5
tennessee	van bury	sewanee	3.4	32.7	51.7	15.6	1.8	12650	60	6.5

National Coal Resources Data System

U.S. Geological Survey

Identified coal resources in Texas

(In millions of short tons)

all records contain unclassified thickness and/or reliability

total tonnage= 8976.70

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
texa	baylor	newcastle	bit	orig	unclass	0-2000	inferred	31.20
texa	callahan	newcastle	bit	orig	unclass	0-2000	inferred	249.60
texa	coleman	bull creek	bit	orig	unclass	0-2000	inferred	128.00
texa	concho	bull creek	bit	orig	unclass	0-2000	inferred	29.10
texa	denton	bridgeport	bit	orig	unclass	0-2000	inferred	89.90
texa	denton	bridgeport	bit	orig	unclass	0-3000	inferred	116.80
texa	eastland	thurber	bit	orig	unclass	0-2000	inferred	17.10
texa	eastland	thurber	bit	orig	unclass	0-3000	inferred	22.20
texa	eastland	newcastle	bit	orig	unclass	0-2000	inferred	124.80
texa	eastland	newcastle	bit	orig	unclass	0-3000	inferred	141.90
texa	erath	thurber	bit	orig	unclass	0-2000	inferred	27.80
texa	erath	thurber	bit	orig	unclass	0-3000	inferred	36.10
texa	jack	thurber	bit	orig	unclass	0-2000	inferred	620.60
texa	jack	thurber	bit	orig	unclass	0-3000	inferred	806.20
texa	jack	bridgeport	bit	orig	unclass	0-2000	inferred	128.20
texa	jack	bridgeport	bit	orig	unclass	0-3000	inferred	189.50
texa	jack	dalton	bit	orig	unclass	0-2000	inferred	1.40
texa	mcculloch	bull creek	bit	orig	unclass	0-2000	inferred	133.90
texa	mcculloch	chaffin	bit	orig	unclass	0-2000	inferred	2.00
texa	maverick	uncorrelated	bit	orig	unclass	0-3000	inferred	125.00
texa	maverick	uncorrelated	bit	orig	unclass	0-3000	inferred	400.00
texa	montague	bridgeport	bit	orig	unclass	0-2000	inferred	283.90
texa	montague	bridgeport	bit	orig	unclass	0-3000	inferred	308.00
texa	palo pinto	thurber	bit	orig	unclass	0-2000	inferred	445.00
texa	palo pinto	thurber	bit	orig	unclass	0-3000	inferred	578.20
texa	palo pinto	dalton	bit	orig	unclass	0-2000	inferred	75.60
texa	palo pinto	abbott	bit	orig	unclass	0-2000	inferred	6.00
texa	palo pinto	sunday creek	bit	orig	unclass	0-2000	inferred	14.00
texa	parker	dalton	bit	orig	unclass	0-2000	inferred	175.50
texa	parker	dalton	bit	orig	unclass	0-3000	inferred	228.00
texa	presidio	uncorrelated	bit	orig	unclass	0-3000	inferred	25.00
texa	shackelford	newcastle	bit	orig	unclass	0-2000	inferred	32.80
texa	stephens	newcastle	bit	orig	unclass	0-2000	inferred	17.20
texa	throckmorton	newcastle	bit	orig	unclass	0-2000	inferred	374.90
texa	webb	santo tomas	bit	orig	unclass	0-3000	inferred	90.00
texa	webb	san pedro	bit	orig	unclass	0-3000	inferred	24.00
texa	wise	thurber	bit	orig	unclass	0-2000	inferred	691.20

texa	wise
texa	wise
texa	wise
texa	young
texa	young
texa	young

thurber
bridgeport
bridgeport
thurber
thurber
newcastle

bit
bit
bit
bit
bit
bit

orig	unclass
orig	unclass
orig	unclass
orig	unclass
orig	unclass
orig	unclass

0-3000
0-2000
0-3000
0-2000
0-3000
0-2000

inferred
inferred
inferred
inferred
inferred
inferred

897.90
198.00
210.30
70.60
91.70
717.60

resource figures taken from:

source

year

base year of resource

usgs bull 1242d

1967

original

average analyses of coal in texas

rank	coal bed	proximate analysis (percent)				ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
		moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
erath county													
bit	uncorrelated	2.2	31.8	40.2	28.0	0.0	0.0	0.0	0.0	3.1	10390		1
	county average	2.2	31.8	40.2	28.0	0.0	0.0	0.0	0.0	3.1	10390		1
milam county													
bit	uncorrelated	15.8	44.7	43.8	11.5	0.0	0.0	0.0	0.0	1.3	11140		1
	county average	15.8	44.7	43.8	11.5	0.0	0.0	0.0	0.0	1.3	11140		1
palo pinto county													
bit	uncorrelated	4.1	37.0	47.5	15.5	0.0	0.0	0.0	0.0	3.0	12480	2280	3
	county average	4.1	37.0	47.5	15.5	0.0	0.0	0.0	0.0	3.0	12480	2280	3
webb county													
bit	uncorrelated	3.9	48.4	40.9	10.7	0.0	0.0	0.0	0.0	2.4	13103	2790	21
	county average	3.9	48.4	40.9	10.7	0.0	0.0	0.0	0.0	2.4	13103	2790	21

U.S. Geological Survey

(In millions of short tons)

[illegible]

0-2000	0.00	0.00	23.76	23.76	0.00	0.00	0.00	0.00	0.00	0.00	23.76	23.76
candland												
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	41.76	41.76	0.00	0.00	41.76	41.76
castlegate a												
0-3000	0.00	0.00	0.00	0.00	0.00	0.00	19.24	19.24	0.00	0.00	19.24	19.24
0-2000	0.00	0.00	23.32	23.32	0.00	0.00	0.00	0.00	0.00	0.00	23.32	23.32
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	62.64	62.64	0.00	0.00	62.64	62.64
hiawatha												
0-3000	0.00	0.00	0.00	0.00	0.00	0.00	21.40	21.40	0.00	0.00	21.40	21.40
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	44.08	44.08	0.00	0.00	44.08	44.08
lower coal zone												
0-1000	0.00	0.00	71.73	71.73	0.00	0.00	0.00	0.00	0.00	0.00	71.73	71.73
unclass	0.00	0.00	217.41	217.41	0.00	0.00	0.00	0.00	0.00	0.00	217.41	217.41
uncorrelated												
0-1000	0.00	0.00	15.54	15.54	0.00	0.00	0.00	0.00	0.00	0.00	15.54	15.54
unclass	0.00	0.00	137.10	137.10	0.00	0.00	388.78	388.78	0.00	0.00	525.88	525.88
wattis												
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	37.28	37.28	0.00	0.00	37.28	37.28
county total =	0.00	0.00	488.86	488.86	0.00	0.00	646.03	646.03	0.00	0.00	1134.89	1134.89

garfield county

bit												
alvey coal zone												
0-3000	0.00	0.00	181.25	181.25	0.00	0.00	316.84	316.84	0.00	0.00	498.09	498.09
0-2000	0.00	0.00	89.27	89.27	0.00	0.00	30.18	30.18	0.00	0.00	119.45	119.45
0-1000	0.00	0.00	154.55	154.55	0.00	0.00	29.02	29.02	0.00	0.00	183.57	183.57
bald knoll coal zone												
0-1000	0.00	0.00	54.05	54.05	0.00	0.00	0.00	0.00	0.00	0.00	54.05	54.05
1-2000	0.00	0.00	2.97	2.97	0.00	0.00	54.72	54.72	0.00	0.00	57.69	57.69
christensen zone												
0-3000	0.00	0.00	147.20	147.20	0.00	0.00	486.17	486.17	0.00	0.00	633.37	633.37
0-2000	0.00	0.00	175.35	175.35	0.00	0.00	79.55	79.55	0.00	0.00	254.90	254.90
0-1000	0.00	0.00	271.02	271.02	0.00	0.00	129.36	129.36	0.00	0.00	400.38	400.38
emery coal zone												
0-2000	0.00	0.00	4.70	4.70	0.00	0.00	19.05	19.05	0.00	0.00	23.75	23.75
0-1000	0.00	0.00	119.91	119.91	0.00	0.00	9.48	9.48	0.00	0.00	129.39	129.39
ferron coal zone												
0-2000	0.00	0.00	22.02	22.02	0.00	0.00	0.00	0.00	0.00	0.00	22.02	22.02
0-1000	0.00	0.00	4.18	4.18	0.00	0.00	0.00	0.00	0.00	0.00	4.18	4.18
henderson coal zone												
0-1000	0.00	0.00	386.00	386.00	0.00	0.00	113.00	113.00	0.00	0.00	499.00	499.00
1-2000	0.00	0.00	75.00	75.00	0.00	0.00	251.00	251.00	0.00	0.00	326.00	326.00
2-3000	0.00	0.00	9.00	9.00	0.00	0.00	128.00	128.00	0.00	0.00	137.00	137.00
rees coal zone												
0-3000	0.00	0.00	128.63	128.63	0.00	0.00	42.83	42.83	0.00	0.00	171.46	171.46
0-2000	0.00	0.00	23.36	23.36	0.00	0.00	0.00	0.00	0.00	0.00	23.36	23.36
0-1000	0.00	0.00	4.20	4.20	0.00	0.00	0.00	0.00	0.00	0.00	4.20	4.20
uncorrelated												
0-3000	0.00	0.00	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70
0-1000	0.00	0.00	29.67	29.67	0.00	0.00	0.00	0.00	0.00	0.00	29.67	29.67
county total =	0.00	0.00	1883.03	1883.03	0.00	0.00	1689.20	1689.20	0.00	0.00	3572.23	3572.23

grand county

bit												
ballard coal zone												
0-3000	0.00	0.00	85.10	85.10	0.00	0.00	5.70	5.70	0.00	0.00	90.80	90.80

[illegible]

unclass	0.00	0.00	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35
upper culver zone												
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	112.59	112.59	0.00	0.00	112.59	112.59
0-1000	0.00	0.00	226.49	226.49	0.00	0.00	43.76	43.76	0.00	0.00	270.25	270.25
1-2000	0.00	0.00	178.81	178.81	0.00	0.00	469.57	469.57	0.00	0.00	648.38	648.38
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	201.53	201.53	0.00	0.00	201.53	201.53
county total =	0.00	0.00	3381.29	3381.29	0.00	0.00	3980.21	3980.21	0.00	0.00	7361.50	7361.50
----- sanpete county -----												
bit												
candland												
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	41.76	41.76	0.00	0.00	41.76	41.76
castlegate a												
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	62.64	62.64	0.00	0.00	62.64	62.64
uncorrelated												
0-3000	0.00	0.00	112.50	112.50	0.00	0.00	150.80	150.80	0.00	0.00	263.30	263.30
county total =	0.00	0.00	112.50	112.50	0.00	0.00	255.20	255.20	0.00	0.00	367.70	367.70
----- sevier county -----												
bit												
lower coal zone												
0-1000	0.00	0.00	142.36	142.36	0.00	0.00	49.95	49.95	0.00	0.00	192.31	192.31
unclass	0.00	0.00	5.40	5.40	0.00	0.00	0.00	0.00	0.00	0.00	5.40	5.40
uncorrelated												
0-3000	0.00	0.00	0.00	0.00	0.00	0.00	324.00	324.00	0.00	0.00	324.00	324.00
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	17.20	17.20	0.00	0.00	17.20	17.20
0-1000	0.00	0.00	3.74	3.74	0.00	0.00	0.00	0.00	0.00	0.00	3.74	3.74
unclass	0.00	0.00	3.00	3.00	0.00	0.00	216.90	216.90	0.00	0.00	219.90	219.90
county total =	0.00	0.00	154.50	154.50	0.00	0.00	608.05	608.05	0.00	0.00	762.55	762.55
----- uintah county -----												
bit												
frontier coal zone												
0-1000	0.00	0.00	40.28	40.28	0.00	0.00	14.73	14.73	0.00	0.00	55.01	55.01
1-2000	0.00	0.00	29.04	29.04	0.00	0.00	26.43	26.43	0.00	0.00	55.47	55.47
2-3000	0.00	0.00	21.65	21.65	0.00	0.00	32.16	32.16	0.00	0.00	53.81	53.81
county total =	0.00	0.00	90.97	90.97	0.00	0.00	73.32	73.32	0.00	0.00	164.29	164.29
----- wasatch county -----												
bit												
frontier bed 3												
0-3000	0.00	0.00	13.94	13.94	0.00	0.00	0.00	0.00	0.00	0.00	13.94	13.94
frontier bed 4												
0-3000	0.00	0.00	16.56	16.56	0.00	0.00	6.69	6.69	0.00	0.00	23.25	23.25
lower mesaverde												
0-3000	0.00	0.00	9.93	9.93	0.00	0.00	0.00	0.00	0.00	0.00	9.93	9.93
middle mesaverde												
0-3000	0.00	0.00	18.22	18.22	0.00	0.00	0.00	0.00	0.00	0.00	18.22	18.22
upper mesaverde												
0-3000	0.00	0.00	22.07	22.07	0.00	0.00	11.15	11.15	0.00	0.00	33.22	33.22
county total =	0.00	0.00	80.72	80.72	0.00	0.00	17.84	17.84	0.00	0.00	98.56	98.56

washington					county								

bit													
lower zone ord area													
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.70	16.70	0.00	0.00	16.70	16.70
upper culver zone													
0-2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.66	94.66	0.00	0.00	94.66	94.66
county total =	0.00	0.00	0.00	0.00	0.00	0.00	0.00	111.36	111.36	0.00	0.00	111.36	111.36

wayne					county								

bit													
ferron coal zone													
0-1000	0.00	0.00	22.75	22.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75	22.75
uncorrelated													
0-2000	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.84
county total =	0.00	0.00	23.59	23.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.59	23.59

=====													
overburden													
subtotal													
0-1000	0.00	0.00	3858.88	3858.88	0.00	0.00	1802.13	1802.13	0.00	0.00	5661.01	5661.01	
1-2000	0.00	0.00	1075.67	1075.67	0.00	0.00	2169.46	2169.46	0.00	0.00	3245.13	3245.13	
2-3000	0.00	0.00	184.65	184.65	0.00	0.00	1380.37	1380.37	0.00	0.00	1565.02	1565.02	
0-2000	0.00	0.00	843.28	843.28	0.00	0.00	712.74	712.74	0.00	0.00	1556.02	1556.02	
0-3000	0.00	0.00	2293.46	2293.46	0.00	0.00	2404.85	2404.85	0.00	0.00	4698.31	4698.31	
unclass	0.00	0.00	363.74	363.74	0.00	0.00	605.68	605.68	0.00	0.00	969.42	969.42	
total =	0.00	0.00	8619.68	8619.68	0.00	0.00	9075.23	9075.23	0.00	0.00	17694.91	17694.91	
=====													
=====													
overburden													
total													
0-1000	0.00	0.00	3858.88	3858.88	0.00	0.00	1802.13	1802.13	0.00	0.00	5661.01	5661.01	
1-2000	0.00	0.00	1075.67	1075.67	0.00	0.00	2169.46	2169.46	0.00	0.00	3245.13	3245.13	
2-3000	0.00	0.00	184.65	184.65	0.00	0.00	1380.37	1380.37	0.00	0.00	1565.02	1565.02	
0-2000	0.00	0.00	843.28	843.28	0.00	0.00	712.74	712.74	0.00	0.00	1556.02	1556.02	
0-3000	0.00	0.00	2293.46	2293.46	0.00	0.00	2404.85	2404.85	0.00	0.00	4698.31	4698.31	
unclass	0.00	0.00	363.74	363.74	0.00	0.00	605.68	605.68	0.00	0.00	969.42	969.42	
grand total =	0.00	0.00	8619.68	8619.68	0.00	0.00	9075.23	9075.23	0.00	0.00	17694.91	17694.91	

tonnage not included: 8190.46
because:
thickness = unclassified : 677.44
reliability = unclassified : 7726.26

total tonnage of identified coal resources in utah 25885.37

resource figures taken from:

source year base year of resource

utgs of-book cliffs	1971	original
utgs of-wasatch	1971	original
utgs of-coalville	1971	original
utgs monograph 2	1972	original
utgs of-emery	1971	original
utgs of-kaiparowits	1970	original
utgs of-henry mtns	1971	original
utgs of-alton	1970	original
utgs monograph 1	1971	original
utgs of-kolob-harany	1971	original
utgs of-sevier-sanpt	1971	original
utgs of-vernal	1970	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	ms & ind	10.80
utah	carbon	kenilworth	bit	orig	unclass	0-3000	ms & ind	2.30
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	ms & ind	18.70
utah	carbon	kenilworth	bit	orig	unclass	0-3000	ms & ind	5.60
utah	carbon	sunnyside	bit	orig	unclass	0-3000	unclass	120.90
utah	carbon	hiawatha	bit	orig	> 42 in	0-3000	unclass	46.63
utah	carbon	uncorrelated	bit	orig	> 42 in	0-3000	unclass	18.00
utah	carbon	uncorrelated	bit	orig	> 42 in	0-2000	unclass	61.47
utah	carbon	uncorrelated	bit	orig	> 42 in	0-2000	unclass	245.61
utah	carbon	castlegate a	bit	orig	> 42 in	0-2000	unclass	3.28
utah	carbon	bob wright	bit	orig	> 42 in	0-2000	unclass	3.24
utah	carbon	uncorrelated	bit	orig	> 42 in	0-2000	unclass	102.05
utah	carbon	hiawatha	bit	orig	> 42 in	0-2000	unclass	118.00
utah	carbon	uncorrelated	bit	orig	> 42 in	0-2000	unclass	4.00
utah	carbon	castlegate a	bit	orig	> 42 in	0-2000	unclass	73.00
utah	carbon	castlegate a	bit	orig	> 42 in	0-1000	unclass	188.00
utah	carbon	bob wright	bit	orig	> 42 in	0-1000	unclass	105.00
utah	carbon	castlegate a	bit	orig	> 42 in	0-1000	unclass	31.39
utah	carbon	uncorrelated	bit	orig	> 42 in	1-2000	unclass	65.15
utah	carbon	castlegate a	bit	orig	> 42 in	0-1000	unclass	24.00
utah	carbon	uncorrelated	bit	orig	> 42 in	0-1000	unclass	129.75
utah	carbon	castlegate a	bit	orig	> 42 in	0-1000	unclass	10.77
utah	carbon	bob wright	bit	orig	> 42 in	0-1000	unclass	8.54
utah	carbon	castlegate a	bit	orig	> 42 in	0-1000	unclass	51.67
utah	carbon	bob wright	bit	orig	> 42 in	0-1000	unclass	24.08
utah	carbon	uncorrelated	bit	orig	> 42 in	0-3000	unclass	94.38
utah	carbon	uncorrelated	bit	orig	> 42 in	0-3000	unclass	367.97
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	10.30
utah	carbon	rock canyon	bit	orig	unclass	0-3000	unclass	3.90
utah	carbon	gilson	bit	orig	unclass	0-3000	unclass	6.10
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	unclass	9.00
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	98.90
utah	carbon	rock canyon	bit	orig	> 42 in	0-3000	unclass	34.10
utah	carbon	gilson	bit	orig	> 42 in	0-3000	unclass	54.30
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	2.10
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	unclass	10.80
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	40.40
utah	carbon	rock canyon	bit	orig	unclass	0-3000	unclass	7.00

utah	carbon	gilson	bit	orig	unclass	0-3000	unclass	10.00
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	unclass	6.50
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	21.10
utah	carbon	upper sunnyside	bit	orig	unclass	0-3000	unclass	16.30
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	120.80
utah	carbon	upper sunnyside	bit	orig	> 42 in	0-3000	unclass	39.60
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	159.30
utah	carbon	kenilworth	bit	orig	unclass	0-3000	unclass	1.40
utah	carbon	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	38.80
utah	duchesne	winchester	bit	orig	> 42 in	0-3000	unclass	5.35
utah	duchesne	winchester	bit	orig	unclass	0-3000	unclass	2.68
utah	duchesne	frontier bed 3	bit	orig	unclass	0-3000	unclass	1.90
utah	duchesne	winchester	bit	orig	> 42 in	0-3000	unclass	5.35
utah	duchesne	frontier bed 3	bit	orig	unclass	0-3000	unclass	1.56
utah	duchesne	frontier bed 2	bit	orig	unclass	0-3000	unclass	0.18
utah	duchesne	frontier bed 1	bit	orig	unclass	0-3000	unclass	0.24
utah	duchesne	frontier bed 2	bit	orig	unclass	0-3000	unclass	1.78
utah	duchesne	frontier bed 1	bit	orig	> 42 in	0-3000	unclass	2.28
utah	duchesne	frontier bed 4	bit	orig	> 42 in	0-3000	unclass	5.96
utah	duchesne	frontier bed 3	bit	orig	> 42 in	0-3000	unclass	7.02
utah	duchesne	mesaverde coal zone	bit	orig	> 42 in	0-3000	unclass	3.12
utah	duchesne	uncorrelated	bit	orig	unclass	unclass	inferred	75.15
utah	emery	sunnyside	bit	orig	> 42 in	0-3000	unclass	212.80
utah	emery	sunnyside	bit	orig	> 42 in	0-3000	unclass	41.60
utah	emery	upper sunnyside	bit	orig	> 42 in	0-3000	unclass	10.80
utah	emery	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	13.50
utah	emery	beckwith	bit	orig	unclass	0-3000	unclass	7.00
utah	emery	upper sunnyside	bit	orig	> 42 in	0-3000	unclass	24.00
utah	emery	upper sunnyside	bit	orig	unclass	0-3000	unclass	3.00
utah	emery	lower sunnyside	bit	orig	> 42 in	0-3000	unclass	48.00
utah	emery	beckwith	bit	orig	unclass	0-3000	unclass	3.00
utah	emery	sunnyside	bit	orig	> 42 in	0-3000	unclass	25.00
utah	emery	muddy no 2	bit	orig	> 42 in	0-2000	unclass	1.25
utah	emery	hiawatha	bit	orig	> 42 in	2-3000	unclass	53.27
utah	emery	blind canyon	bit	orig	> 42 in	2-3000	unclass	11.02
utah	emery	hiawatha	bit	orig	> 42 in	1-2000	unclass	49.82
utah	emery	blind canyon	bit	orig	> 42 in	1-2000	unclass	87.55
utah	emery	hiawatha	bit	orig	> 42 in	1-2000	unclass	72.72
utah	emery	uncorrelated	bit	orig	> 42 in	1-2000	unclass	60.95
utah	emery	hiawatha	bit	orig	> 42 in	0-1000	unclass	28.25
utah	emery	blind canyon	bit	orig	> 42 in	0-1000	unclass	14.26
utah	emery	hiawatha	bit	orig	> 42 in	0-2000	unclass	4.03
utah	emery	uncorrelated	bit	orig	> 42 in	0-2000	unclass	3.60
utah	emery	hiawatha	bit	orig	> 42 in	2-3000	unclass	4.31
utah	emery	upper hiawatha	bit	orig	> 42 in	0-2000	unclass	12.38
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	12.21
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	16.20
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	4.29
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	10.42
utah	emery	muddy nos 1 and 2	bit	orig	> 42 in	0-3000	unclass	9.00
utah	emery	slide hollow	bit	orig	> 42 in	0-3000	unclass	2.00
utah	emery	uncorrelated	bit	orig	> 42 in	0-3000	unclass	31.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	9.00
utah	emery	muddy no 1	bit	orig	> 42 in	0-3000	unclass	3.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	43.08
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	7.19
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	66.58
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	8.10
utah	emery	bear canyon	bit	orig	> 42 in	0-3000	unclass	62.06
utah	emery	upper bear canyon	bit	orig	> 42 in	0-3000	unclass	5.00

utah	emery	uncorrelated	bit	orig	> 42 in	0-3000	unclass	2.50
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	144.00
utah	emery	uncorrelated	bit	orig	> 42 in	0-3000	unclass	55.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	3.96
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	3.35
utah	emery	bear canyon	bit	orig	> 42 in	0-3000	unclass	0.90
utah	emery	castlegate a	bit	orig	> 42 in	0-3000	unclass	31.28
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	20.04
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	27.58
utah	emery	uncorrelated	bit	orig	> 42 in	0-3000	unclass	18.00
utah	emery	castlegate a	bit	orig	> 42 in	0-3000	unclass	26.24
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	87.00
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	126.00
utah	emery	castlegate a	bit	orig	> 42 in	0-3000	unclass	16.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	112.76
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	49.92
utah	emery	bear canyon	bit	orig	> 42 in	0-3000	unclass	138.89
utah	emery	castlegate a	bit	orig	> 42 in	0-3000	unclass	4.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	8.37
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	11.30
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	15.02
utah	emery	hiawatha	bit	orig	> 42 in	0-2000	unclass	78.36
utah	emery	blind canyon	bit	orig	> 42 in	0-2000	unclass	24.49
utah	emery	bear canyon	bit	orig	> 42 in	0-2000	unclass	2.70
utah	emery	hiawatha	bit	orig	> 42 in	0-2000	unclass	4.61
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	137.58
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	188.14
utah	emery	cottonwood	bit	orig	> 42 in	0-3000	unclass	5.00
utah	emery	bear canyon	bit	orig	> 42 in	0-3000	unclass	41.80
utah	emery	upper bear canyon	bit	orig	> 42 in	0-3000	unclass	44.00
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	77.06
utah	emery	blind canyon	bit	orig	> 42 in	0-3000	unclass	9.72
utah	emery	hiawatha	bit	orig	> 42 in	0-3000	unclass	5.86
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	188.00
utah	emery	bob wright	bit	orig	> 42 in	0-1000	unclass	105.00
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	19.70
utah	emery	uncorrelated	bit	orig	> 42 in	0-1000	unclass	13.13
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	51.67
utah	emery	bob wright	bit	orig	> 42 in	0-1000	unclass	24.08
utah	emery	candland	bit	orig	> 42 in	0-1000	unclass	52.00
utah	emery	uncorrelated	bit	orig	> 42 in	0-1000	unclass	25.87
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	38.34
utah	emery	candland	bit	orig	> 42 in	0-1000	unclass	24.00
utah	emery	hiawatha	bit	orig	> 42 in	0-1000	unclass	21.26
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	47.52
utah	emery	candland	bit	orig	> 42 in	0-1000	unclass	30.00
utah	emery	castlegate a	bit	orig	> 42 in	0-1000	unclass	46.30
utah	garfield	ferron coal zone	bit	orig	unclass	0-1000	indicatd	0.70
utah	garfield	ferron coal zone	bit	orig	unclass	0-1000	indicatd	14.37
utah	garfield	ferron coal zone	bit	orig	unclass	0-1000	indicatd	2.30
utah	garfield	emery coal zone	bit	orig	unclass	0-1000	indicatd	10.44
utah	garfield	emery coal zone	bit	orig	unclass	0-1000	inferred	14.72
utah	garfield	emery coal zone	bit	orig	unclass	0-2000	inferred	21.46
utah	garfield	emery coal zone	bit	orig	unclass	0-1000	inferred	50.73
utah	garfield	emery coal zone	bit	orig	unclass	0-1000	inferred	3.57
utah	garfield	emery coal zone	bit	orig	> 42 in	0-1000	unclass	24.50
utah	garfield	emery coal zone	bit	orig	> 42 in	0-1000	unclass	24.30
utah	grand	chesterfield	bit	orig	unclass	0-2000	ms & ind	4.00
utah	grand	chesterfield	bit	orig	unclass	0-2000	ms & ind	2.00
utah	grand	ballard coal zone	bit	orig	unclass	0-2000	ms & ind	0.10

utah	grand	palisade	bit	orig	unclass	0-2000	ms & ind	0.70
utah	grand	uncorrelated	bit	orig	unclass	0-2000	ms & ind	4.10
utah	grand	chesterfield	bit	orig	unclass	0-2000	ms & ind	2.00
utah	grand	palisade	bit	orig	unclass	0-2000	ms & ind	4.00
utah	grand	chesterfield	bit	orig	unclass	0-3000	inferred	6.60
utah	grand	ballard coal zone	bit	orig	unclass	0-3000	inferred	29.10
utah	grand	palisade	bit	orig	unclass	0-3000	inferred	16.70
utah	grand	chesterfield	bit	orig	unclass	0-3000	indicatd	31.90
utah	grand	chesterfield	bit	orig	unclass	0-3000	inferred	9.60
utah	grand	ballard coal zone	bit	orig	unclass	0-3000	indicatd	24.40
utah	grand	ballard coal zone	bit	orig	unclass	0-3000	inferred	31.60
utah	grand	uncorrelated	bit	orig	unclass	0-3000	indicatd	3.90
utah	grand	palisade	bit	orig	unclass	0-3000	indicatd	14.40
utah	grand	palisade	bit	orig	unclass	0-3000	indicatd	6.40
utah	grand	palisade	bit	orig	unclass	0-3000	indicatd	2.60
utah	iron	upper culver zone	bit	orig	unclass	0-2000	ms & ind	0.50
utah	iron	lower culver zone	bit	orig	unclass	0-2000	inferred	1.10
utah	iron	straight cliffs zone	bit	orig	unclass	0-2000	ms & ind	0.30
utah	iron	upper culver zone	bit	orig	unclass	0-2000	ms & ind	1.90
utah	iron	lower culver zone	bit	orig	unclass	0-2000	ms & ind	1.10
utah	iron	lower culver zone	bit	orig	unclass	0-2000	inferred	1.00
utah	iron	upper culver zone	bit	orig	unclass	0-2000	ms & ind	0.10
utah	iron	lower culver zone	bit	orig	unclass	0-2000	ms & ind	1.80
utah	iron	lower culver zone	bit	orig	unclass	0-2000	inferred	2.20
utah	iron	upper culver zone	bit	orig	unclass	0-2000	ms & ind	4.60
utah	iron	upper culver zone	bit	orig	unclass	0-2000	inferred	4.40
utah	iron	lower culver zone	bit	orig	unclass	0-2000	ms & ind	5.90
utah	iron	lower culver zone	bit	orig	unclass	0-2000	inferred	5.90
utah	kane	lower zone ord area	bit	orig	unclass	0-2000	inferred	4.38
utah	sanpete	hiawatha	bit	orig	> 42 in	0-3000	unclass	2.79
utah	sanpete	muddy no 1	bit	orig	> 42 in	0-3000	unclass	11.00
utah	sanpete	muddy no 2	bit	orig	> 42 in	0-3000	unclass	10.00
utah	sanpete	uncorrelated	bit	orig	> 42 in	0-3000	unclass	196.00
utah	sevier	hiawatha	bit	orig	> 42 in	0-2000	unclass	3.65
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-2000	unclass	33.26
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-2000	unclass	10.08
utah	sevier	muddy no 1	bit	orig	> 42 in	0-2000	unclass	12.92
utah	sevier	muddy no 2	bit	orig	> 42 in	0-2000	unclass	6.88
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	42.12
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	49.76
utah	sevier	hiawatha	bit	orig	> 42 in	0-2000	unclass	2.33
utah	sevier	hiawatha	bit	orig	> 42 in	0-2000	unclass	1.26
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-2000	unclass	4.00
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-3000	unclass	19.00
utah	sevier	upper ivie	bit	orig	> 42 in	0-3000	unclass	68.00
utah	sevier	hiawatha	bit	orig	> 42 in	0-3000	unclass	11.75
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-3000	unclass	34.56
utah	sevier	uncorrelated	bit	orig	> 42 in	0-3000	unclass	59.74
utah	sevier	ivie	bit	orig	> 42 in	0-3000	unclass	187.20
utah	sevier	upper ivie	bit	orig	> 42 in	0-3000	unclass	55.57
utah	sevier	uncorrelated	bit	orig	> 42 in	0-3000	unclass	15.52
utah	sevier	hiawatha	bit	orig	> 42 in	0-3000	unclass	9.05
utah	sevier	upper hiawatha	bit	orig	> 42 in	0-3000	unclass	7.07
utah	sevier	muddy no 2	bit	orig	> 42 in	0-3000	unclass	3.60
utah	sevier	upper ivie	bit	orig	> 42 in	0-3000	unclass	19.80
utah	sevier	ivie	bit	orig	> 42 in	0-2000	unclass	47.66
utah	sevier	ivie	bit	orig	> 42 in	0-2000	unclass	2.88
utah	sevier	upper ivie	bit	orig	> 42 in	0-2000	unclass	8.61
utah	sevier	ivie	bit	orig	> 42 in	0-2000	unclass	217.84
utah	sevier	ivie	bit	orig	> 42 in	0-2000	unclass	16.20

utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	7.20
utah	sevier	ivie	bit	orig	> 42 in	0-2000	unclass	95.60
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	38.88
utah	sevier	hiawatha	bit	orig	> 42 in	0-3000	unclass	29.25
utah	sevier	muddy no 1	bit	orig	> 42 in	0-3000	unclass	9.00
utah	sevier	muddy no 2	bit	orig	> 42 in	0-3000	unclass	5.76
utah	sevier	uncorrelated	bit	orig	> 42 in	0-3000	unclass	91.31
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	5.20
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	75.80
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	5.70
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	7.00
utah	sevier	lower coal zone	bit	orig	> 42 in	0-2000	unclass	2.40
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	22.60
utah	sevier	uncorrelated	bit	orig	> 42 in	0-2000	unclass	9.30
utah	sevier	lower coal zone	bit	orig	> 42 in	0-2000	unclass	25.00
utah	sevier	upper ivie	bit	orig	> 42 in	0-1000	unclass	17.25
utah	sevier	upper ivie	bit	orig	> 42 in	0-3000	unclass	69.12
utah	wasatch	uncorrelated	bit	orig	> 42 in	0-3000	unclass	50.40
utah	wasatch	uncorrelated	bit	orig	> 42 in	0-3000	unclass	26.25
utah	wayne	emery coal zone	bit	orig	unclass	0-1000	indicatd	4.08

average analyses of coal in utah

=====													
proximate analysis (percent)													
ultimate analysis (percent)													
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogen	oxygen	sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
=====													
carbon													
county													

bit													
	castlegate a	5.3	43.3	49.7	6.9	5.6	75.5	1.5	11.0	0.5	13302	2297	116
	castlegate b	4.6	44.8	48.5	6.7	5.4	74.3	1.4	11.8	0.4	13406	2267	130
	castlegate b&subsm 1	5.7	46.8	47.2	6.0	0.0	0.0	0.0	0.0	0.9	13574	2062	5
	castlegate c	10.8	43.4	49.1	7.5	5.2	74.5	1.3	9.7	0.5	12533	2250	3
	castlegate d	3.6	43.9	48.8	7.3	5.6	74.6	1.4	10.8	0.4	13401	2197	94
	castlegates a & d	4.5	46.0	46.1	7.9	0.0	0.0	0.0	0.0	0.5	13301	2221	12
	castlegates c & d	4.1	43.2	50.1	6.7	0.0	0.0	0.0	0.0	0.4	13390	2170	6
	gilson	4.5	40.7	51.7	7.6	4.9	71.1	1.4	11.8	0.5	13226	2330	76
	hiawatha	6.3	44.1	48.9	7.0	5.5	74.5	1.5	11.3	0.8	13285	2508	92
	lower sunnyside	4.5	39.9	53.3	6.8	5.4	77.0	1.6	8.7	1.0	13665	2646	35
	rock canyon	4.9	40.5	51.4	8.1	5.1	74.6	1.5	10.4	0.7	13141	2453	38
	subseam no 1	4.1	46.3	46.8	6.9	5.9	74.4	1.5	9.8	0.9	13520	2146	128
	subseam no 2	5.4	44.3	49.3	6.4	5.6	74.9	1.6	10.7	0.6	13404	2426	79
	subseam no 21/2	3.5	45.0	47.3	7.6	5.6	75.8	1.3	10.4	0.7	13406	2210	73
	subseam no 3	4.3	46.5	46.3	7.1	5.7	74.8	1.5	10.3	1.3	13490	2020	2
	uncorrelated	5.6	43.2	50.0	6.8	5.4	75.6	1.5	11.2	0.6	13368	2364	30
	various	3.7	43.8	48.9	7.3	0.0	0.0	0.0	0.0	0.6	13395	2244	141

county average		4.6	43.9	49.0	7.1	5.5	75.2	1.5	10.7	0.6	13378	2298	1060

emery													
county													

bit													
	bear canyon	5.6	47.0	47.1	5.9	5.8	75.5	1.5	10.8	0.5	13700	2155	2
	blind canyon	5.1	45.0	47.8	7.2	5.8	76.3	1.5	10.1	0.5	13627	2178	127
	castlegate a	7.1	46.5	47.7	5.8	5.7	76.1	1.6	12.2	0.6	13395	2180	16
	ferron a	7.6	41.1	49.7	9.1	0.0	0.0	0.0	0.0	0.8	12820	2302	7
	ferron j	4.4	41.4	50.9	7.7	5.2	74.9	1.4	11.3	0.9	13324	2138	21
	hiawatha	5.2	44.4	47.7	7.9	5.6	75.1	1.5	10.4	0.6	13383	2298	113
	hiawatha&bear canyon	5.6	44.1	49.5	6.3	0.0	0.0	0.0	0.0	0.7	13580	2190	2
	lower sunnyside	5.8	40.5	52.4	7.1	5.1	72.7	1.5	10.1	0.7	13391	2443	73
	sunnyside	6.1	40.9	52.3	6.7	0.0	0.0	0.0	0.0	0.8	13500	2371	14
	uncorrelated	4.8	44.0	48.5	7.5	5.7	75.2	1.6	10.8	0.6	13442	2410	16

county average		5.4	43.6	49.0	7.4	5.6	75.3	1.5	10.6	0.6	13460	2273	391

garfield													
county													

bit													
	uncorrelated	18.2	44.2	46.3	9.5	4.9	66.7	1.1	16.3	0.8	12051	2191	7

county average		18.2	44.2	46.3	9.5	4.9	66.7	1.1	16.3	0.8	12051	2191	7

grand county										
bit										
uncorrelated	6.6	38.8	49.4	11.8	5.0	71.1	1.6	10.3	0.7	12564 2695 12
county average	6.6	38.8	49.4	11.8	5.0	71.1	1.6	10.3	0.7	12564 2695 12
iron county										
bit										
uncorrelated	8.2	43.0	42.7	14.2	4.7	65.5	1.2	10.6	6.3	11540 2185 32
county average	8.2	43.0	42.7	14.2	4.7	65.5	1.2	10.6	6.3	11540 2185 32
kane county										
bit										
uncorrelated	18.0	39.9	49.8	10.3	4.8	69.2	1.4	13.3	2.0	11930 2260 18
county average	18.0	39.9	49.8	10.3	4.8	69.2	1.4	13.3	2.0	11930 2260 18
sevier county										
bit										
ivie	6.3	45.1	45.3	9.6	5.3	71.6	1.3	12.2	0.4	12683 2225 6
muddy no 1	8.0	42.3	47.8	9.9	5.2	73.2	1.2	12.0	0.4	12590 2360 3
uncorrelated	4.8	40.6	48.9	10.6	0.0	0.0	0.0	0.0	1.9	12646 2246 3
upper ivie	8.8	41.4	51.0	7.6	0.0	0.0	0.0	0.0	0.5	12847 2246 23
county average	8.0	42.0	49.6	8.4	5.3	72.1	1.3	12.1	0.6	12780 2252 35
summit county										
bit										
uncorrelated	14.3	43.3	51.6	5.1	0.0	0.0	0.0	0.0	1.4	12725 2250 14
wasatch	14.7	43.3	50.6	6.1	5.1	71.7	1.4	14.6	1.3	12546 2253 3
county average	14.4	43.3	51.4	5.2	5.1	71.7	1.4	14.6	1.4	12693 2250 17
uintah county										
bit										
uncorrelated	8.9	39.7	46.1	14.3	5.0	69.5	1.3	11.5	1.9	11938 2580 6
county average	8.9	39.7	46.1	14.3	5.0	69.5	1.3	11.5	1.9	11938 2580 6

state	county	bed	moistur	volmat	fixedc	ash	sulfur	otu	hgilo	fsilo
utah	carbon	castlegate b	4.6	45.0	48.7	6.3	0.4	13480	49	2.0
utah	carbon	castlegate b	4.8	44.8	49.1	6.1	0.4	13400	48	1.0
utah	carbon	castlegate b	4.5	45.8	47.3	6.9	0.3	13480	0	2.5
utah	carbon	castlegate b	5.0	46.3	47.1	6.6	0.3	13530	0	2.5
utah	carbon	castlegate b	5.2	45.6	47.6	6.8	0.3	13470	0	3.0
utah	carbon	castlegate b	5.2	45.3	47.5	7.2	0.3	13370	0	1.5
utah	carbon	castlegate b	6.2	43.4	45.9	10.7	0.5	12920	0	5.5
utah	carbon	castlegate b	5.8	46.0	47.1	6.9	0.4	13440	0	2.5
utah	carbon	castlegate b	6.2	46.3	48.5	5.2	0.4	13640	0	2.0
utah	carbon	castlegate b	6.2	48.6	46.0	5.4	0.3	13670	0	2.5
utah	carbon	castlegate b	5.7	46.1	48.2	5.7	0.4	13590	0	1.5
utah	carbon	subseam no 2	4.7	44.4	49.0	6.6	1.0	13690	0	3.0
utah	carbon	castlegate a	6.0	39.4	51.2	9.4	0.5	12810	48	2.0
utah	carbon	castlegate a	6.4	39.6	51.3	9.1	0.5	12960	0	1.5
utah	carbon	castlegate a	5.7	39.3	51.2	9.5	0.5	12830	46	1.5
utah	carbon	castlegate a	4.7	41.1	51.2	7.7	0.5	13080	0	1.0
utah	carbon	lower sunnyside	7.2	39.0	52.7	8.3	0.7	13470	0	4.5
utah	carbon	castlegate b	***	39.8	47.0	13.2	0.5	11900	46	1.0
utah	carbon	castlegate b	6.8	45.0	49.3	5.7	0.6	13500	0	1.5
utah	carbon	castlegate b	6.5	45.5	48.2	6.3	0.5	13300	0	1.5
utah	carbon	castlegate b	6.9	44.7	48.9	6.4	0.5	13270	0	1.5
utah	carbon	castlegate b	8.5	44.3	48.1	7.6	0.7	12850	0	1.0
utah	carbon	castlegate b	8.3	44.7	46.6	8.7	0.7	12590	0	1.5
utah	carbon	subseam no 1	3.9	44.9	47.4	7.7	1.7	13560	46	2.0
utah	carbon	subseam no 1	3.7	48.2	45.9	5.9	1.3	13600	0	2.5
utah	carbon	uncorrelated	4.5	40.4	51.8	7.8	0.8	13360	41	1.5
utah	carbon	lower sunnyside	3.4	40.1	51.9	8.0	0.7	13400	0	4.0
utah	carbon	castlegate a	5.9	47.7	47.2	5.1	0.4	13580	48	1.5
utah	carbon	gilson	4.5	40.2	50.4	9.4	0.4	12870	0	1.0
utah	carbon	gilson	7.0	40.5	50.7	8.8	0.4	12950	0	1.5
utah	carbon	gilson	6.6	40.7	50.7	8.6	0.6	13120	0	1.5
utah	carbon	gilson	6.1	41.1	51.2	7.7	0.6	13130	0	1.0
utah	carbon	various	4.0	45.3	46.9	7.8	0.3	13370	0	2.5
utah	carbon	various	5.4	44.5	46.3	9.2	0.5	13040	0	2.0
utah	carbon	uncorrelated	8.4	46.2	46.8	7.0	0.6	12970	54	1.0
utah	carbon	uncorrelated	8.7	44.2	49.9	5.9	0.5	13350	48	1.0
utah	carbon	castlegate a	9.3	45.8	48.6	5.6	0.5	13310	50	1.0
utah	carbon	castlegate c	4.3	44.1	47.0	8.9	0.4	13220	48	2.5
utah	carbon	castlegate d	4.9	44.6	47.8	7.6	0.4	13380	0	2.5
utah	carbon	castlegate d	6.5	43.5	48.9	7.6	0.4	13290	44	1.5
utah	carbon	castlegate d	5.6	44.4	49.7	5.9	0.3	13480	43	1.0
utah	carbon	castlegates a & d	8.3	44.8	48.7	6.5	0.5	13420	0	2.0
utah	carbon	gilson	5.2	40.0	52.9	7.1	0.4	13460	0	1.5
utah	carbon	gilson	6.4	41.1	51.2	7.7	0.5	13350	0	2.5
utah	carbon	gilson	6.7	41.2	53.5	5.3	0.4	13730	0	2.0
utah	carbon	castlegate a	5.2	46.0	47.5	6.5	0.6	13620	0	1.0
utah	carbon	castlegate b	7.2	41.9	49.9	8.2	0.4	12960	0	1.0
utah	carbon	castlegate b	7.0	43.7	50.8	5.5	0.4	13430	49	1.5
utah	carbon	subseam no 1	5.4	46.8	47.8	5.4	0.9	13660	0	1.0
utah	carbon	subseam no 1	6.1	45.8	46.8	6.4	1.0	13580	46	2.0

state	county	bed	moistur	volmat	fixedc	ash	sulfu-	btu	hgilo	fsilo
utah	carbon	castlegate b&subsm 1	6.3	45.2	47.2	7.6	0.9	13290	0	2.0
utah	carbon	castlegate b&subsm 1	6.1	47.2	46.3	6.5	1.0	13440	0	2.0
utah	carbon	castlegate a	7.0	45.6	46.1	8.3	0.7	12980	49	1.5
utah	carbon	castlegate a	8.2	46.9	46.4	6.7	0.6	13200	48	1.0
utah	carbon	castlegate a	8.0	46.0	49.2	4.8	0.8	13540	50	1.0
utah	carbon	subseam no 2	6.7	43.9	50.6	5.5	0.8	13560	0	2.0
utah	carbon	subseam no 1	5.5	46.7	45.3	8.0	0.7	13370	0	2.5
utah	carbon	castlegate a	6.0	44.8	48.6	6.6	0.5	13400	0	2.0
utah	carbon	castlegate a	6.0	44.9	48.6	6.5	0.4	13400	0	2.0
utah	carbon	qilson	6.0	40.2	49.6	10.2	0.6	12660	45	1.0
utah	carbon	rock canyon	7.9	40.4	52.7	6.9	1.4	12910	46	1.0
utah	carbon	rock canyon	4.3	41.2	51.1	7.7	1.9	13270	45	3.5
utah	carbon	rock canyon	5.7	40.7	51.3	8.0	2.2	13370	47	4.5
utah	carbon	rock canyon	3.8	41.4	50.4	8.2	2.4	13330	48	4.5
utah	carbon	castlegate d	3.9	43.5	49.0	7.5	0.3	13470	46	2.5
utah	carbon	castlegate d	3.7	43.0	48.9	8.1	0.4	13240	49	1.5
utah	carbon	castlegate d	7.0	45.3	47.6	7.1	0.5	13550	0	3.5
utah	carbon	rock canyon	5.6	40.8	51.1	8.1	0.4	13080	44	1.0
utah	carbon	rock canyon	5.6	40.7	52.0	7.3	0.4	13360	0	2.0
utah	carbon	rock canyon	6.5	40.4	51.3	8.3	0.5	13070	44	2.0
utah	carbon	rock canyon	6.2	40.2	51.1	8.7	0.6	13070	46	1.5
utah	carbon	rock canyon	5.4	40.3	51.4	8.3	0.6	13150	43	1.0
utah	carbon	rock canyon	6.0	40.2	51.6	8.2	0.5	13150	45	1.0
utah	carbon	rock canyon	5.6	40.4	51.6	8.0	0.4	13090	43	1.5
utah	carbon	castlegate b	4.1	45.7	47.3	7.0	0.4	13480	48	2.0
utah	carbon	castlegate b	5.8	45.2	49.1	5.7	0.4	13610	50	2.0
utah	carbon	castlegate b	7.9	44.4	49.0	6.6	0.3	13470	0	2.0
utah	carbon	castlegate b	5.9	46.0	48.9	5.1	0.4	13770	0	1.0
utah	carbon	castlegate d	3.5	47.0	44.8	8.2	0.4	13320	0	1.5
utah	carbon	castlegate d	4.6	46.1	45.8	8.1	0.4	13290	0	1.0
utah	carbon	castlegate d	6.4	48.0	45.4	6.6	0.5	13560	0	1.0
utah	carbon	castlegate d	5.5	47.3	45.4	7.3	0.4	13380	0	1.0
utah	carbon	castlegates a & d	5.7	46.8	45.0	8.2	0.6	13240	0	1.5
utah	carbon	uncorrelated	8.3	46.2	48.6	5.2	0.7	13410	52	1.0
utah	carbon	subseam no 21/2	3.9	45.2	47.4	7.4	0.6	13430	0	1.5
utah	carbon	castlegate a	5.2	42.8	52.9	4.3	0.4	13620	46	1.5
utah	carbon	castlegate a	5.6	44.0	51.7	4.3	0.4	13580	0	1.5
utah	carbon	castlegate a	5.1	42.4	53.9	3.7	0.6	13720	0	1.0
utah	carbon	castlegate a	7.4	42.0	53.5	4.5	0.7	13500	0	1.0
utah	carbon	castlegate a	7.6	42.3	54.0	3.7	0.7	13710	0	1.0
utah	carbon	hiawatha	6.9	44.3	49.5	6.2	0.9	13300	44	1.0
utah	carbon	hiawatha	4.4	42.6	45.8	11.6	0.5	12630	0	1.5
utah	carbon	lower sunnyside	2.2	40.5	55.8	3.7	1.1	14260	0	5.0
utah	carbon	subseam no 1	5.1	46.3	46.3	7.4	1.6	13370	47	2.5
utah	carbon	subseam no 1	4.1	47.7	46.1	6.2	1.3	13720	55	2.0
utah	carbon	subseam no 1	6.2	44.3	45.5	10.2	1.0	12940	0	2.0
utah	carbon	subseam no 1	4.9	47.9	45.8	6.3	1.1	13570	0	2.5
utah	carbon	subseam no 1	4.6	46.2	47.4	6.4	0.9	13590	0	2.5
utah	emery	hiawatha	5.2	46.7	48.1	5.2	0.5	13910	52	2.5
utah	emery	hiawatha	5.1	45.8	46.7	7.5	0.6	13590	0	3.5

UTAH

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fallc
utah	emery	blind canyon	6.1	45.9	47.5	6.6	0.8	13770	0	4.0
utah	emery	blind canyon	4.5	46.3	49.6	5.1	0.6	13460	0	3.0
utah	emery	blind canyon	5.5	48.6	45.9	5.5	0.7	13440	0	2.0
utah	emery	blind canyon	5.0	45.1	47.0	7.9	0.5	13430	45	2.5
utah	emery	blind canyon	5.8	42.6	48.3	9.1	1.1	13120	0	2.0
utah	emery	blind canyon	4.3	42.6	45.6	11.8	0.6	12910	45	1.0
utah	emery	blind canyon	5.3	42.5	47.0	10.5	0.6	13060	48	1.5
utah	emery	blind canyon	5.0	43.9	46.7	9.4	0.6	13210	49	4.0
utah	emery	hiawatha	5.3	43.9	48.6	7.5	1.0	13310	47	1.0
utah	emery	hiawatha	4.2	43.7	47.6	8.7	1.3	12920	0	1.0
utah	emery	ferron a	7.5	41.3	47.8	10.9	0.9	12590	43	1.0
utah	emery	ferron a	8.4	40.2	47.9	11.9	0.7	12280	0	1.0
utah	emery	hiawatha	4.3	44.9	47.9	7.2	0.4	13580	50	5.0
utah	emery	hiawatha	4.8	44.3	49.5	6.2	0.5	13560	46	1.0
utah	emery	hiawatha	5.3	44.5	48.4	7.1	0.7	13390	46	2.5
utah	emery	hiawatha	4.6	43.2	48.2	8.6	0.6	13290	45	1.5
utah	emery	hiawatha	4.8	43.7	48.6	7.7	0.7	13310	51	2.0
utah	emery	hiawatha	5.9	43.9	49.4	6.7	0.6	13500	46	2.0
utah	emery	hiawatha	6.3	44.1	46.6	9.3	0.6	13100	47	2.0
utah	emery	hiawatha	7.7	43.4	46.0	10.6	0.9	12840	0	1.5
utah	emery	hiawaths	6.1	42.7	46.3	11.0	0.9	12690	0	1.5
utah	emery	hiawatha	5.4	43.3	46.8	9.9	0.6	12950	0	2.0
utah	emery	uncorrelated	5.4	44.3	47.5	8.2	0.5	13180	47	1.0
utah	grand	uncorrelated	6.1	37.7	47.8	14.5	0.7	12170	46	1.5
utah	iron	uncorrelated	6.9	42.9	39.1	18.0	5.7	11000	52	1.0
utah	iron	uncorrelated	7.1	44.9	47.4	12.7	5.7	11810	58	1.5
utah	iron	uncorrelated	6.8	45.2	41.9	12.9	6.3	11750	57	1.0
utah	iron	uncorrelated	8.1	43.3	41.1	15.6	6.2	11370	58	1.0
utah	iron	uncorrelated	6.0	41.8	41.7	16.5	6.6	11340	56	1.5
utah	iron	uncorrelated	7.5	41.1	40.1	18.8	6.6	10910	57	1.0
utah	iron	uncorrelated	7.3	41.3	39.5	19.2	6.5	10880	50	1.0
utah	iron	uncorrelated	7.7	41.8	37.4	20.8	6.6	10620	57	1.0
utah	iron	uncorrelated	7.5	38.7	34.2	27.1	6.2	9610	57	1.0
utah	iron	uncorrelated	7.6	40.5	37.8	21.7	6.5	10510	52	1.0
utah	iron	uncorrelated	5.9	41.9	40.5	17.6	6.4	11100	54	2.5
utah	sevier	ivie	6.3	45.0	45.9	9.1	0.6	12840	48	1.0
utah	sevier	upper ivie	9.3	43.6	49.5	6.9	0.4	12850	50	1.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
utah	emery	blind canyon	7.1	46.8	43.8	9.4	0.4	13390	0	3.0
utah	emery	blind canyon	8.0	47.1	45.4	7.5	0.6	13630	0	2.5
utah	emery	blind canyon	7.4	48.4	44.9	6.7	0.5	13950	0	3.0
utah	emery	blind canyon	5.6	46.5	46.0	7.5	0.5	13660	0	2.5
utah	emery	blind canyon	7.6	45.6	46.7	7.7	0.6	13500	0	2.5
utah	emery	blind canyon	6.4	48.7	43.6	7.7	0.4	13700	0	2.5
utah	emery	hiawatha	5.0	45.0	47.1	7.9	0.6	13540	46	2.5
utah	emery	hiawatha	6.1	43.5	49.1	7.4	0.5	13240	0	1.0
utah	emery	hiawatha	6.7	43.9	48.0	8.1	0.5	13170	47	1.0
utah	emery	hiawatha	3.3	43.8	49.1	7.1	0.5	13390	0	1.5
utah	emery	lower sunnyside	6.4	40.4	51.5	8.1	1.0	13230	48	3.0
utah	emery	lower sunnyside	5.7	40.8	52.2	7.0	0.7	13480	0	2.5
utah	emery	lower sunnyside	5.9	40.7	52.3	7.0	0.7	13380	0	2.0
utah	emery	lower sunnyside	5.5	40.6	51.9	7.5	0.7	13320	0	3.0
utah	emery	lower sunnyside	6.9	41.0	52.1	6.9	0.7	13520	0	4.0
utah	emery	lower sunnyside	6.7	39.8	51.1	9.1	0.8	13090	47	3.5
utah	emery	lower sunnyside	5.7	41.9	52.8	5.3	0.7	13490	0	3.0
utah	emery	lower sunnyside	6.4	41.0	51.5	7.5	0.8	13240	49	2.5
utah	emery	lower sunnyside	5.3	40.9	52.4	6.7	0.6	13510	0	3.0
utah	emery	lower sunnyside	6.0	41.2	52.2	6.6	0.6	13490	0	2.0
utah	emery	lower sunnyside	8.1	39.5	52.7	7.8	0.9	13210	0	2.5
utah	emery	lower sunnyside	8.1	40.6	52.4	7.0	0.7	13420	0	3.0
utah	emery	lower sunnyside	7.6	40.8	52.7	6.5	0.9	13510	0	3.5
utah	emery	ferron j	4.2	41.1	50.7	8.2	1.4	13380	39	1.0
utah	emery	ferron j	4.3	40.7	52.3	7.0	0.4	13310	40	1.5
utah	emery	ferron j	6.4	42.4	50.1	7.5	0.8	13310	43	1.5
utah	emery	ferron j	6.1	42.4	49.6	8.0	0.6	13330	40	1.0
utah	emery	ferron j	6.1	42.1	50.7	7.2	0.5	13360	0	1.0
utah	emery	ferron j	4.7	41.4	52.0	6.6	0.4	13360	41	2.0
utah	emery	hiawatha	6.5	45.6	47.6	6.8	0.4	13530	0	2.0
utah	emery	hiawatha	5.2	44.8	48.3	6.9	0.4	13450	0	1.5
utah	emery	hiawatha	5.7	46.3	46.8	6.9	0.5	13770	0	3.0
utah	emery	hiawatha	8.6	46.7	46.1	7.2	0.6	13600	0	3.0
utah	emery	hiawatha	5.9	47.5	43.0	9.5	0.6	13360	0	3.5
utah	emery	blind canyon	8.0	45.4	47.5	7.1	0.5	13530	45	2.5
utah	emery	blind canyon	6.4	44.8	48.8	6.4	0.6	13870	50	2.0
utah	emery	blind canyon	5.5	46.7	45.1	8.2	0.4	13470	0	1.0
utah	emery	blind canyon	6.6	45.0	48.3	6.7	0.6	13610	0	2.5
utah	emery	blind canyon	6.0	44.9	49.5	5.6	0.6	13790	46	3.5
utah	emery	hiawatha	5.7	43.2	47.2	9.6	0.7	13070	47	1.5
utah	emery	hiawatha	7.7	42.0	46.4	11.6	0.8	12630	0	1.0
utah	emery	hiawatha	6.8	41.7	50.1	8.2	0.8	13200	0	2.0
utah	emery	bear canyon	5.6	47.4	47.9	4.7	0.5	13850	50	1.0
utah	emery	bear canyon	5.5	46.5	46.3	7.2	0.5	13550	50	1.5
utah	emery	hiawatha&bear canyon	5.7	45.0	48.7	6.3	0.6	13620	0	2.0
utah	emery	blind canyon	6.3	45.4	49.6	5.0	0.6	13890	48	2.5
utah	emery	castlegate a	6.8	47.0	47.5	5.5	0.7	13410	53	1.5
utah	emery	castlegate a	6.9	47.5	47.7	4.8	0.4	13600	49	3.0
utah	emery	blind canyon	4.7	47.1	47.1	5.8	0.5	13920	67	3.5
utah	emery	blind canyon	6.2	47.2	46.8	6.0	0.5	13920	0	5.0

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in virginia

(In millions of short tons)

rank	coal bed	measured and indicated (inches)				inferred (inches)				total (inches)			
		14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
	overburden												
		buchanan				county							
bit													
ally													
	0-1000	5.50	0.00	0.00	5.50	56.79	0.00	0.00	56.79	42.29	0.00	0.00	42.29
big fork													
	0-1000	0.98	0.00	0.00	0.98	7.04	1.51	0.00	8.55	8.02	1.51	0.00	9.53
blair													
	0-1000	0.00	11.50	19.78	31.28	1.74	25.83	2.83	30.40	1.74	37.33	22.61	61.68
cedar grove													
	0-1000	0.00	0.00	3.80	3.80	0.00	0.00	0.00	0.00	0.00	0.00	3.80	3.80
clintwood													
	0-1000	6.40	30.42	41.74	78.56	3.17	11.05	0.00	14.22	9.57	41.47	41.74	92.78
dorchester													
	0-1000	27.53	16.33	0.00	43.86	60.98	0.49	0.00	61.47	88.51	16.82	0.00	105.33
eagle													
	0-1000	33.96	101.09	44.88	179.93	32.60	3.17	0.00	35.77	66.56	104.26	44.88	215.70
hagy													
	0-1000	25.70	168.62	11.44	205.76	75.11	22.90	0.00	98.01	100.81	191.52	11.44	303.77
imboden													
	0-1000	0.00	30.23	0.00	30.23	0.00	19.52	0.00	19.52	0.00	49.75	0.00	49.75
jaubone													
	0-1000	57.72	140.74	8.76	207.22	120.77	8.94	0.00	129.71	178.49	149.68	8.76	336.93
kennedy													
	0-1000	279.21	255.01	7.96	542.18	222.87	6.90	0.00	229.77	502.08	261.91	7.96	771.95
lower banner													
	0-1000	97.08	33.36	23.81	154.25	132.18	0.00	0.00	132.18	229.26	33.36	23.81	286.43
lower cedar grove													
	0-1000	0.43	0.00	0.32	0.75	0.71	0.00	0.81	1.52	1.14	0.00	1.13	2.27
lower seaboard													
	0-1000	0.42	0.00	0.00	0.42	7.23	0.00	0.00	7.23	7.65	0.00	0.00	7.65
pocahontas no 3													
	1-2000	0.00	0.00	10.77	10.77	39.93	39.74	23.50	103.17	39.93	39.74	34.27	113.94
raven													
	0-1000	55.34	96.78	1.28	153.40	422.29	0.00	0.00	422.29	477.63	96.78	1.28	575.69
splash dam													
	0-1000	265.85	267.21	128.09	661.15	47.35	0.00	0.00	47.35	313.20	267.21	128.09	708.50
tiller													
	0-1000	26.37	12.15	13.02	51.54	25.25	0.65	0.00	25.90	51.62	12.80	13.02	77.44
upper banner													
	0-1000	1.90	1.50	0.00	3.40	2.43	0.00	0.00	2.43	4.33	1.50	0.00	5.83
war creek													
	0-1000	0.00	0.00	0.00	0.00	0.00	2.00	0.96	2.96	0.00	2.00	0.96	2.96
county total =		884.39	1164.94	315.65	2364.98	1238.44	142.70	28.10	1409.24	2122.83	1307.64	343.75	3774.22

dickenson					county								

bit													
ailly													
0-1000	0.00	0.00	0.00	0.00	8.26	0.00	0.00	8.26	8.26	0.00	0.00	8.26	
blair													
0-1000	0.00	0.00	0.00	0.00	6.63	7.76	0.00	14.39	6.63	7.76	0.00	14.39	
clintwood													
0-1000	12.45	1.77	58.77	72.99	4.84	0.80	0.41	6.05	17.29	2.57	59.18	79.04	
dorchester													
0-1000	6.39	1.61	0.00	8.00	65.09	21.33	0.00	86.42	11.48	22.94	0.00	94.42	
eagle													
0-1000	7.66	2.22	6.52	16.40	2.30	0.10	0.00	2.40	9.96	2.32	6.52	18.80	
hagy													
0-1000	11.91	2.22	0.00	14.13	37.41	0.00	0.00	37.41	49.32	2.22	0.00	51.54	
imboden													
0-1000	0.00	2.18	0.00	2.18	0.00	2.20	0.00	2.20	0.00	4.38	0.00	4.38	
jawbone													
0-1000	12.30	75.79	115.28	203.37	162.88	97.78	11.44	272.10	175.18	173.57	126.72	475.47	
kelly													
0-1000	0.00	0.00	2.77	2.77	0.00	0.00	1.92	1.92	0.00	0.00	4.69	4.69	
kennedy													
0-1000	40.44	84.71	3.56	128.71	120.36	185.18	0.00	305.54	160.80	269.89	3.56	434.25	
lower banner													
0-1000	84.38	106.42	29.37	220.17	113.46	6.27	0.00	119.73	197.84	112.69	29.37	339.90	
lyons													
0-1000	0.00	0.28	0.00	0.28	8.76	0.00	0.00	8.76	8.76	0.28	0.00	9.04	
norton													
0-1000	0.00	0.00	0.00	0.00	1.51	0.00	0.00	1.51	1.51	0.00	0.00	1.51	
raven													
0-1000	48.52	52.18	40.69	141.39	134.36	103.72	13.90	251.98	182.88	155.90	54.59	393.37	
splash dam													
0-1000	67.93	59.34	17.06	144.33	178.14	0.00	0.00	178.14	246.07	59.34	17.06	322.47	
tiller													
0-1000	19.30	12.06	50.37	81.73	12.72	0.00	0.00	12.72	32.02	12.06	50.37	94.45	
upper banner													
0-1000	50.42	78.18	122.93	251.53	57.52	16.38	0.00	73.90	107.94	94.56	122.93	325.43	

county total =	361.70	478.96	447.32	1287.98	914.24	441.52	27.67	1383.43	1275.94	920.48	474.99	2671.41	

lee					county								

bit													
blair													
0-1000	0.00	0.00	0.00	0.00	6.49	2.35	0.40	9.24	6.49	2.35	0.40	9.24	
clintwood													
0-2000	0.00	0.00	0.00	0.00	24.78	0.00	0.00	24.78	24.78	0.00	0.00	24.78	
0-1000	1.98	1.14	10.89	14.01	0.00	22.08	23.79	45.87	1.98	23.22	34.68	59.88	
dorchester													
0-1000	0.00	0.00	0.00	0.00	1.80	0.21	0.00	2.01	1.80	0.21	0.00	2.01	
gin creek													
0-1000	1.63	0.00	0.00	1.63	0.00	0.00	0.00	0.00	1.63	0.00	0.00	1.63	
harlan													
0-2000	0.00	0.00	0.00	0.00	0.00	9.80	0.00	9.80	0.00	9.80	0.00	9.80	
0-1000	0.46	76.23	31.18	107.87	0.00	0.00	0.00	0.00	0.46	76.23	31.18	107.87	
high splint													
0-1000	0.00	0.84	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.84	
imboden													
0-1000	1.48	15.41	9.94	26.83	27.67	0.98	0.00	28.65	29.15	16.39	9.94	55.48	

kelly													
0-1000	0.00	9.23	0.00	9.23	2.62	4.13	0.00	6.75	2.62	13.36	0.00	15.98	
kirk													
0-1000	1.76	0.00	0.00	1.76	0.00	0.00	0.00	0.00	1.76	0.00	0.00	1.76	
low splint													
0-1000	0.00	2.69	16.41	19.10	2.31	0.00	0.00	2.31	2.31	2.69	16.41	21.41	
lower st charles													
0-1000	0.00	5.70	0.00	5.70	24.50	3.43	0.00	27.93	24.50	9.13	0.00	33.63	
lyons													
0-1000	0.00	0.00	0.00	0.00	2.55	3.22	0.00	5.77	2.55	3.22	0.00	5.77	
morris													
0-1000	0.00	1.63	0.04	1.67	0.00	1.10	0.00	1.10	0.00	2.73	0.04	2.77	
pardee													
0-1000	0.00	0.00	1.94	1.94	0.37	0.00	0.00	0.37	0.37	0.00	1.94	2.31	
phillips													
0-1000	0.00	3.06	7.98	11.04	1.65	0.48	0.00	2.13	1.65	3.54	7.98	13.17	
pinhook													
0-1000	1.02	0.88	0.00	1.90	7.23	0.00	0.00	7.23	8.25	0.88	0.00	9.13	
stone creek													
0-1000	0.63	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.63	
taggart													
0-1000	0.00	35.44	11.15	46.59	0.00	0.00	0.00	0.00	0.00	35.44	11.15	46.59	
taggart marker													
0-1000	4.33	5.36	0.00	9.69	22.59	0.61	0.00	23.20	26.92	5.97	0.00	32.89	
upper st charles													
0-1000	0.00	3.52	0.00	3.52	3.03	0.13	0.00	3.16	3.03	3.65	0.00	6.68	
wax													
0-1000	0.00	0.00	2.46	2.46	0.00	0.00	0.00	0.00	0.00	0.00	2.46	2.46	
<hr/>													
county total =	13.29	161.13	91.99	266.41	127.59	48.52	24.19	200.30	140.88	209.65	116.18	466.71	

russell

county

bit

big fork												
0-1000	0.00	0.00	0.00	0.00	0.00	4.80	0.00	4.80	0.00	4.80	0.00	4.80
burtons ford												
0-1000	0.00	11.82	0.77	12.59	0.42	0.00	0.00	0.42	0.42	11.82	0.77	13.01
dorchester												
0-1000	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.08	0.08	0.00	0.00	0.08
jaubone												
0-1000	11.75	27.60	163.26	202.61	45.46	1.28	0.12	46.86	57.21	28.88	163.38	249.47
kennedy												
0-1000	15.20	96.08	6.34	117.62	10.12	0.35	0.00	10.47	25.32	96.43	6.34	128.09
lower banner												
0-1000	1.09	16.52	27.00	44.61	1.26	0.00	0.00	1.26	2.35	16.52	27.00	45.87
raven												
0-1000	42.16	30.08	3.33	75.57	23.27	0.00	0.00	23.27	65.43	30.08	3.33	98.84
splash dam												
0-1000	0.00	0.00	0.00	0.00	8.58	0.00	0.00	8.58	8.58	0.00	0.00	8.58
tiller												
0-1000	18.25	24.90	103.19	146.34	8.22	0.00	0.00	8.22	26.47	24.90	103.19	154.56
upper banner												
0-1000	1.58	3.67	10.75	16.00	0.00	0.00	0.00	0.00	1.58	3.67	10.75	16.00
county total =	90.03	210.67	314.64	615.34	97.41	6.43	0.12	103.96	187.44	217.10	314.76	719.30

scott

county

bit

tazewell county													

bit													
aily													
0-1000	0.00	0.00	0.00	0.00	1.90	0.00	0.00	1.90	1.90	0.00	0.00	1.90	
big fork													
0-1000	0.00	0.00	0.00	0.00	0.35	0.64	0.00	0.99	0.35	0.64	0.00	0.99	
c													
0-1000	7.48	2.46	0.00	9.94	0.00	8.17	0.00	8.17	7.48	10.63	0.00	18.11	
caldwell													
0-1000	1.17	2.75	0.95	4.87	0.00	0.00	0.00	0.00	1.17	2.75	0.95	4.87	
greasy creek													
0-1000	5.47	4.37	0.00	9.84	3.02	0.00	0.00	3.02	8.49	4.37	0.00	12.86	
jaubone													
0-1000	8.92	41.49	11.66	62.07	10.66	1.01	0.00	11.67	19.58	42.50	11.66	73.74	
kennedy													
0-1000	1.84	7.40	0.00	9.24	0.00	0.00	0.00	0.00	1.84	7.40	0.00	9.24	
lower banner													
0-1000	0.08	0.14	0.12	0.34	0.00	0.00	0.00	0.00	0.08	0.14	0.12	0.34	
lower horsepen													
0-1000	4.02	3.01	0.00	7.03	14.37	0.00	0.00	14.37	18.39	3.01	0.00	21.40	
lower seaboard													
0-1000	44.67	20.51	1.27	66.45	7.93	0.00	0.00	7.93	52.60	20.51	1.27	74.38	
middle horsepen													
0-1000	11.73	7.97	4.38	24.08	3.13	5.65	0.00	8.78	14.86	13.62	4.38	32.86	
middle seaboard													
0-1000	4.59	1.49	0.00	6.08	15.99	0.00	0.00	15.99	20.58	1.49	0.00	22.07	
pocahontas no 3													
0-2000	0.63	4.83	22.87	28.33	21.97	22.48	8.80	53.25	22.60	27.31	31.67	81.58	
0-1000	0.00	0.03	2.75	2.78	0.00	0.00	0.00	0.00	0.00	0.03	2.75	2.78	
pocahontas no 4													
0-1000	0.42	0.68	31.35	32.45	2.87	3.53	0.00	6.40	3.29	4.21	31.35	38.85	
pocahontas no 5													
0-1000	4.42	10.06	6.82	21.30	14.82	6.08	0.00	20.90	19.24	16.14	6.82	42.20	
pocahontas no 6													
0-1000	5.30	0.00	0.00	5.30	6.35	0.00	0.00	6.35	11.65	0.00	0.00	11.65	
pocahontas no 7													
0-1000	0.03	0.57	0.00	0.60	4.87	0.64	0.00	5.51	4.90	1.21	0.00	6.11	
pocahontas no 8													
0-1000	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.35	0.35	0.00	0.00	0.35	
raven													
0-1000	0.94	32.06	0.40	33.40	0.00	0.00	0.00	0.00	0.94	32.06	0.40	33.40	
tiller													

0-1000	18.40	16.22	0.00	34.62	10.11	0.00	0.00	10.11	28.51	16.22	0.00	44.73
upper horsepen												
0-1000	26.81	1.40	9.90	38.11	16.87	2.08	0.00	18.95	43.68	3.48	9.90	57.06
upper seaboard												
0-1000	20.49	12.10	0.00	32.59	2.93	0.00	0.00	2.93	23.42	12.10	0.00	35.52
war creek												
0-1000	27.48	15.17	2.23	44.88	31.01	4.48	0.00	35.49	58.49	19.65	2.23	80.37
county total =	194.89	184.71	94.70	474.30	169.50	54.76	8.80	233.06	364.39	239.47	103.50	707.36

		wise				county							

bit													
addington													
0-1000	0.30	1.94	0.51	2.75	1.28	0.33	0.00	1.61	1.58	2.27	0.51	4.36	
blair													
0-1000	6.70	8.68	0.04	15.42	72.05	34.39	35.16	141.60	78.75	43.07	35.20	157.02	
burtons ford													
0-1000	0.73	1.32	0.13	2.18	6.24	0.00	0.00	6.24	6.97	1.32	0.13	8.42	
clintwood													
0-1000	10.27	40.47	59.50	110.24	37.05	19.59	0.51	57.15	47.32	60.06	60.01	167.39	
cove creek													
0-1000	0.00	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	
dorchester													
0-2000	0.00	0.00	0.00	0.00	71.49	0.00	0.00	71.49	71.49	0.00	0.00	71.49	
0-1000	32.11	52.57	35.72	120.40	0.00	2.08	0.00	2.08	32.11	54.65	35.72	122.48	
hagy													
0-1000	9.08	0.00	0.00	9.08	0.00	0.00	0.00	0.00	9.08	0.00	0.00	9.08	
high splint													
0-1000	0.84	4.43	12.43	17.70	0.07	10.38	0.00	10.45	0.91	14.81	12.43	28.15	
imboden													
0-1000	5.32	31.15	72.15	108.62	29.95	39.65	8.16	77.76	35.27	70.80	80.31	186.38	
jawbone													
0-1000	0.18	28.35	47.56	76.09	26.80	54.51	0.00	81.31	26.98	82.86	47.56	157.40	
kelly													
0-1000	1.15	61.29	26.50	88.94	40.85	19.38	0.00	60.23	42.00	80.67	26.50	149.17	
kennedy													
0-1000	14.47	39.10	16.16	69.73	19.79	23.33	0.00	43.12	34.26	62.43	16.16	112.85	
low splint													
0-1000	1.42	37.07	4.40	42.89	51.26	5.44	0.00	56.70	52.68	42.51	4.40	99.59	
lower banner													
0-1000	17.27	33.32	21.40	71.99	37.63	7.16	0.00	44.79	54.90	40.48	21.40	116.78	
lyons													
0-1000	31.95	14.28	0.27	46.50	85.84	0.00	0.00	85.84	117.79	14.28	0.27	132.34	
morris													
0-1000	0.98	3.50	22.22	26.70	1.71	0.33	0.00	2.04	2.69	3.83	22.22	28.74	
norton													
0-1000	34.15	70.99	1.49	106.63	63.56	0.00	0.00	63.56	97.71	70.99	1.49	170.19	
pardee													
0-1000	2.62	18.92	51.69	73.23	0.96	0.00	0.00	0.96	3.58	18.92	51.69	74.19	
phillips													
0-1000	1.13	0.00	0.00	1.13	10.75	0.00	0.00	10.75	11.88	0.00	0.00	11.88	
pinhook													
0-1000	1.23	0.56	0.00	1.79	2.08	0.00	0.00	2.08	3.31	0.56	0.00	3.87	
raven													
0-1000	5.07	40.21	14.72	60.00	48.29	22.42	0.00	70.71	53.36	62.63	14.72	130.71	
rocky fork													
0-1000	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.24	0.24	0.00	0.00	0.24	
splash dam													
0-1000	1.42	0.00	0.00	1.42	9.94	0.00	0.00	9.94	11.36	0.00	0.00	11.36	

taggart													
0-1000	2.05	34.16	79.62	115.83	1.33	4.13	0.00	5.46	3.38	38.29	79.62	121.29	
taggart marker													
0-1000	12.02	71.37	0.00	83.39	2.40	0.00	0.00	2.40	14.42	71.37	0.00	85.79	
tiller													
0-1000	0.00	0.00	0.00	0.00	3.34	1.69	0.26	5.29	3.34	1.69	0.26	5.29	
upper banner													
0-1000	3.93	25.85	44.95	74.73	15.63	3.74	0.00	19.37	19.56	29.59	44.95	94.10	
upper standiford													
0-1000	0.00	7.33	5.81	13.14	53.66	3.54	0.00	57.20	53.66	10.87	5.81	70.34	
county total =	196.39	626.86	517.46	1340.71	694.19	252.09	44.09	990.37	890.58	878.95	561.55	2331.08	
overburden													
subtotal													
0-1000	1745.32	2841.12	1775.09	6361.53	3136.86	874.00	100.67	4111.53	4882.18	3715.12	1875.76	10473.06	
1-2000	0.00	0.00	10.77	10.77	39.93	39.74	23.50	103.17	39.93	39.74	34.27	113.94	
0-2000	0.63	4.83	22.87	28.33	118.24	32.28	8.80	159.32	118.87	37.11	31.67	187.65	
total =	1745.95	2845.95	1808.73	6400.63	3295.03	946.02	132.97	4374.02	5040.98	3791.97	1941.70	10774.65	
overburden													
total													
0-1000	1745.32	2841.12	1775.09	6361.53	3136.86	874.00	100.67	4111.53	4882.18	3715.12	1875.76	10473.06	
1-2000	0.00	0.00	10.77	10.77	39.93	39.74	23.50	103.17	39.93	39.74	34.27	113.94	
0-2000	0.63	4.83	22.87	28.33	118.24	32.28	8.80	159.32	118.87	37.11	31.67	187.65	
grand total =	1745.95	2845.95	1808.73	6400.63	3295.03	946.02	132.97	4374.02	5040.98	3791.97	1941.70	10774.65	

total tonnage of identified coal resources in virginia

10774.65

resource figures taken from:

source	year	base year of resource
usgs circ 171	1952	1951

average analyses of coal in virginia

rank	proximate analysis (percent)					ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen				
bucanan county													
bit													
blair		3.4	30.8	59.6	9.6	0.0	0.0	0.0	0.0	0.9	13860	2620	1
blair & clintwood		3.3	31.5	61.5	7.0	0.0	0.0	0.0	0.0	1.2	14330	2530	1
cedar grove		3.2	34.7	60.6	4.7	5.1	83.2	1.4	5.9	0.4	14643	2903	3
clintwood		2.5	31.0	61.6	7.4	5.0	80.1	1.6	4.8	0.9	14255	2811	60
clintwood&plash dam		3.0	30.4	63.5	6.1	0.0	0.0	0.0	0.0	0.9	14600	2575	4
eagle		2.3	31.5	60.3	8.3	5.0	80.2	1.5	4.6	1.1	14165	2590	6
eagle & kennedy		4.8	26.4	63.3	10.3	4.7	78.7	1.6	3.6	1.1	13890	2610	1
hagy		2.2	30.9	62.3	6.8	0.0	0.0	0.0	0.0	0.9	14460	2900	3
jawbone		2.2	22.4	66.7	10.9	4.5	79.5	1.4	3.1	0.6	13830	2910	1
kennedy		2.6	26.1	67.9	6.0	0.0	0.0	0.0	0.0	1.3	14667	2337	4
kennedy & raven		2.0	23.0	73.8	3.2	0.0	0.0	0.0	0.0	0.7	15240	2406	3
lower banner		2.8	23.4	67.8	8.8	4.6	82.1	1.4	3.0	1.1	14274	2702	116
raven		2.6	23.2	72.6	4.2	4.8	87.0	1.4	2.9	0.7	15108	2316	36
splash dam		2.6	29.2	63.5	7.2	5.1	83.1	1.6	3.9	0.9	14420	2720	21
various		3.0	29.8	61.6	8.6	4.9	80.8	1.6	4.3	1.1	14126	2679	45
county average		2.7	26.7	65.6	7.6	4.8	82.8	1.5	3.7	1.0	14375	2662	305
dickenson county													
bit													
blair		2.0	32.8	61.5	5.7	0.0	0.0	0.0	0.0	0.7	14500	2470	1
clintwood		3.0	33.1	60.8	6.1	0.0	0.0	0.0	0.0	0.9	14450	2700	6
clintwood & u banner		1.8	31.7	62.9	5.4	0.0	0.0	0.0	0.0	0.7	14690	2780	1
dorchester&plash da		2.5	34.4	54.7	10.9	0.0	0.0	0.0	0.0	1.9	13590	2460	1
hagy		2.2	29.4	61.9	8.7	4.9	81.2	1.5	3.4	2.0	14210	2440	3
lower & upper banner		2.5	32.0	59.6	8.4	0.0	0.0	0.0	0.0	0.8	14241	2380	7
lower banner		2.6	31.5	60.1	8.4	5.0	79.4	1.5	4.1	0.9	14228	2460	16
splash dam		1.9	30.3	60.6	9.1	4.8	76.5	1.3	4.7	0.8	14076	2758	32
splash dam&u banner		2.6	31.4	56.3	12.3	0.0	0.0	0.0	0.0	0.8	13610	2610	1
upper banner		1.8	31.6	61.0	7.4	5.1	81.5	1.5	4.5	0.7	14381	2598	114
various		2.0	31.9	59.3	8.8	0.0	0.0	0.0	0.0	0.7	14122	2578	19
county average		2.0	31.5	60.6	7.9	5.0	79.9	1.5	4.3	0.8	14285	2588	201
lee county													
bit													
cedar grove		3.4	38.2	57.7	4.1	5.5	82.4	1.5	7.8	0.6	14422	2325	78
cedar grove & harlan		5.1	37.9	57.3	4.8	0.0	0.0	0.0	0.0	0.5	14126	2400	3
dorchester		3.5	34.7	52.6	12.7	0.0	0.0	0.0	0.0	2.4	12920	2470	1
harlan		3.0	39.3	50.9	9.8	4.8	71.0	1.4	6.3	2.1	13480	2215	2
harlan & low splint		5.0	39.3	50.6	10.1	0.0	0.0	0.0	0.0	3.3	13340	2140	1
imboden		3.3	39.3	52.2	8.5	5.2	76.7	1.8	6.8	1.6	13713	2406	3

low splint	3.2	38.8	52.3	8.9	5.1	76.5	1.5	7.0	1.8	13523	2437	11
low splint&hi splint	4.1	39.8	54.7	5.5	5.3	80.4	1.6	8.2	0.9	14018	2340	5
low splint&phillips	2.7	36.5	54.5	9.0	5.1	75.9	1.7	7.6	0.8	13527	2836	9
pardee	3.5	38.1	52.5	9.4	5.2	77.2	1.7	7.8	0.9	13410	2630	6
phillips	2.9	37.0	54.3	8.8	5.1	77.1	1.7	7.7	0.8	13551	2890	10
various	4.7	37.5	52.4	10.1	0.0	0.0	0.0	0.0	1.1	13268	2462	15
county average	3.5	38.1	55.7	6.3	5.3	80.0	1.6	7.6	0.9	14008	2393	144
montgomery						county						
bit												
merrimac	1.8	12.9	60.5	26.6	0.0	0.0	0.0	0.0	0.8	11140	2910	2
county average	1.8	12.9	60.5	26.6	0.0	0.0	0.0	0.0	0.8	11140	2910	2
pulaski						county						
bit												
merrimac	1.1	13.5	64.3	22.2	0.0	0.0	0.0	0.0	0.6	11590	2310	3
county average	1.1	13.5	64.3	22.2	0.0	0.0	0.0	0.0	0.6	11590	2310	3
russell						county						
bit												
jawbone	1.0	29.1	51.4	19.5	0.0	0.0	0.0	0.0	0.5	12110	2340	1
kennedy	2.2	33.3	58.9	7.8	0.0	0.0	0.0	0.0	1.0	14200	2200	3
lower & upper banner	1.9	37.1	54.8	8.1	0.0	0.0	0.0	0.0	0.5	14073	2293	3
lower banner	2.2	35.6	56.7	7.6	5.1	79.5	1.6	5.4	0.7	14209	2330	29
raven	2.4	32.8	60.1	7.1	5.2	82.8	1.5	4.5	0.8	14428	2297	6
tiller	1.7	30.7	62.0	7.3	0.0	0.0	0.0	0.0	0.5	14290	2300	1
upper banner	2.0	36.1	57.1	6.8	5.2	81.6	1.6	5.2	0.6	14353	2285	26
various	1.7	32.4	58.9	8.7	0.0	0.0	0.0	0.0	0.8	14140	2320	2
county average	2.1	35.3	57.2	7.5	5.2	80.7	1.6	5.1	0.7	14243	2307	71
tazewell						county						
bit												
jawbone	2.7	26.1	58.2	15.6	4.5	75.6	1.3	3.6	0.6	13065	2845	2
lower banner	3.4	28.5	62.8	8.7	4.8	81.2	1.5	3.3	0.6	14240	2720	3
lower seaboard	2.4	27.4	66.2	6.4	4.9	82.5	1.6	3.4	1.2	14440	2240	1
middle horsepen	3.2	23.8	66.6	9.6	0.0	0.0	0.0	0.0	0.7	14185	2770	2
pocahontas no 3	3.2	21.4	73.7	4.9	4.6	87.4	1.2	3.2	0.6	14976	2512	20
pocahontas no 5	2.5	22.3	73.2	4.4	4.7	87.7	1.4	2.8	0.5	15036	2268	5
raven	2.6	28.4	66.3	5.3	5.1	85.4	1.5	3.8	0.7	14838	2301	56
upper seaboard	2.5	29.8	65.5	4.7	5.2	85.8	1.4	3.7	0.5	14946	2338	5
various	3.8	29.4	59.8	10.8	0.0	0.0	0.0	0.0	0.6	13815	2433	4
county average	2.8	26.6	67.6	5.8	4.9	84.7	1.4	3.5	0.6	14768	2383	98
wise						county						
bit												

blair	2.8	32.9	61.3	5.8	0.0	0.0	0.0	0.0	0.8	14551	2756	7
blair & clintwood	6.1	31.2	64.2	4.6	4.9	81.7	1.7	6.4	0.7	14510	2730	1
blair & lyons	2.5	32.9	61.4	5.7	0.0	0.0	0.0	0.0	0.9	14510	2570	1
cedar grove	2.1	35.2	60.3	4.4	5.3	83.4	1.5	5.9	0.7	14726	2531	23
cedar grove&taggart m	1.8	36.3	59.2	4.5	5.5	83.6	1.6	5.9	0.7	14638	2360	7
clintwood	4.7	32.9	58.0	9.1	5.0	82.3	1.7	5.0	1.3	13870	2482	6
dorchester	2.7	32.8	57.0	10.2	4.9	76.4	1.6	4.9	1.6	13778	2350	9
high splint	2.7	35.9	57.5	6.6	5.2	82.9	1.7	6.9	0.7	14069	2866	44
imboden	2.8	33.6	56.5	9.9	5.0	77.5	1.5	6.4	0.8	13697	2771	49
imboden & kelly	3.5	34.8	56.9	8.3	4.9	78.3	1.5	6.3	0.7	13950	2860	1
imboden&cedar grove	3.8	34.3	54.2	11.5	0.0	0.0	0.0	0.0	0.9	13260	2670	1
jaubone	1.7	33.1	50.5	16.4	4.5	70.9	1.4	6.1	0.7	12486	2423	12
kelly	2.8	34.3	61.0	4.7	0.0	0.0	0.0	0.0	0.7	14570	2910	1
lower banner	3.2	36.7	55.4	7.9	0.0	0.0	0.0	0.0	0.6	14160	2500	1
lyons	3.5	33.5	61.1	5.4	5.1	81.7	1.6	5.0	1.6	14540	2270	2
morris	3.1	35.8	56.7	7.5	0.0	0.0	0.0	0.0	0.7	13866	2908	5
norton	2.6	32.6	58.8	8.7	5.1	79.1	1.7	5.0	1.1	14013	2666	3
pardee	3.0	35.6	54.5	9.8	0.0	0.0	0.0	0.0	0.9	13597	2854	7
raven	2.8	29.2	52.2	18.6	4.4	69.8	1.3	5.1	0.8	12410	2730	1
taggart marker	3.0	36.6	59.5	4.0	5.3	83.3	1.5	5.4	0.6	14785	2594	6
upper banner	1.8	33.4	59.7	6.9	5.2	82.6	1.6	4.8	0.6	14403	2681	67
various	3.9	33.6	56.6	9.9	0.0	0.0	0.0	0.0	0.9	13670	2614	45
county average	2.7	34.1	57.7	8.1	5.0	78.7	1.5	5.6	0.8	14020	2667	299

VIRGINIA

state	county	bed	moistur	volmat	fixedc	ash	sulfur	ntu	hgilo	tsilo
virginia	buchanan	raven	2.3	25.0	69.0	6.0	1.2	14740	92	8.5
virginia	buchanan	clintwood	2.1	29.7	61.7	8.6	1.2	14170	73	5.5
virginia	buchanan	lower banner	2.7	22.0	63.0	15.0	2.3	15260	95	7.5
virginia	buchanan	jawbone	2.2	22.4	66.7	10.9	0.6	13830	93	8.5
virginia	buchanan	various	2.5	30.5	57.4	18.7	1.3	15650	64	6.0
virginia	buchanan	various	6.1	29.8	57.0	13.2	1.0	13250	72	7.5
virginia	buchanan	various	4.1	28.0	55.2	16.8	1.6	12730	0	7.0
virginia	buchanan	hagy	1.6	31.3	62.4	6.3	1.0	14560	60	5.5
virginia	buchanan	splash dam	1.7	29.6	59.8	10.6	1.4	13830	68	6.5
virginia	buchanan	various	4.3	30.1	60.4	9.5	0.7	13910	62	8.0
virginia	buchanan	blair & clintwood	3.3	31.5	61.5	7.0	1.2	14330	67	8.0
virginia	buchanan	various	3.5	31.3	60.9	7.8	1.3	14240	62	6.0
virginia	buchanan	various	3.2	31.1	60.5	8.4	1.3	14120	64	5.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
virginia	buchanan	various	3.3	30.6	60.0	9.4	1.0	13940	0	1.5
virginia	buchanan	various	3.2	29.7	58.6	11.7	1.0	13620	0	6.0
virginia	buchanan	various	3.9	29.5	59.8	10.7	0.9	13720	0	6.5
virginia	buchanan	various	2.1	30.1	59.8	10.1	2.0	13870	69	6.5
virginia	buchanan	lower banner	3.0	22.9	66.3	10.8	1.8	13950	**	8.0
virginia	buchanan	lower banner	3.2	22.5	66.8	10.7	1.6	13980	0	8.0
virginia	buchanan	lower banner	3.7	22.7	65.7	11.6	1.2	13730	0	8.0
virginia	buchanan	clintwood	3.0	32.2	61.4	6.4	1.2	14490	72	8.0
virginia	buchanan	clintwood	3.5	32.5	61.4	6.1	1.0	14570	69	7.0
virginia	buchanan	clintwood	2.4	32.6	60.2	7.2	0.9	14300	60	7.0
virginia	buchanan	raven	4.0	22.3	71.2	6.5	0.7	14740	99	9.0
virginia	buchanan	lower banner	2.9	24.9	68.1	7.0	0.7	14570	95	8.0
virginia	ouchanan	lower banner	2.6	21.5	67.4	11.1	1.2	13920	0	7.5
virginia	buchanan	various	4.1	29.7	62.4	7.9	0.9	14260	73	7.0
virginia	buchanan	various	3.3	30.0	63.0	7.0	0.9	14370	0	7.5
virginia	buchanan	various	3.1	29.2	62.5	8.3	0.7	14220	0	8.0
virginia	buchanan	various	3.9	30.7	63.0	6.3	0.9	14460	0	8.5
virginia	buchanan	clintwood	3.1	28.5	65.3	6.2	1.0	14670	0	8.0
virginia	buchanan	clintwood& splash dam	2.8	28.5	64.3	7.2	1.2	14430	79	8.0
virginia	buchanan	clintwood	8.0	30.4	62.6	7.0	0.6	13360	70	1.5
virginia	buchanan	lower banner	3.2	27.8	62.1	10.1	0.7	13820	0	3.0
virginia	buchanan	clintwood	2.7	32.3	61.9	5.8	0.9	14490	71	8.0
virginia	buchanan	lower banner	4.8	23.7	66.6	9.7	1.0	14140	0	9.0
virginia	buchanan	lower banner	7.5	23.0	66.8	10.2	0.9	14030	0	8.0
virginia	ouchanan	splash dam	3.3	32.0	60.5	7.5	1.0	14280	66	7.5
virginia	buchanan	various	3.5	29.9	56.9	13.2	0.9	13360	0	8.0
virginia	buchanan	eagle	2.5	32.6	60.5	6.9	1.6	14420	62	7.5
virginia	ouchanan	clintwood	4.0	30.7	61.0	8.3	0.8	14090	66	7.0
virginia	buchanan	lower banner	2.4	24.8	66.3	8.9	1.0	14260	96	7.5
virginia	buchanan	lower banner	5.0	23.8	65.9	10.3	1.1	13990	0	7.5
virginia	buchanan	lower banner	3.0	23.4	64.9	11.7	1.0	13730	0	8.5
virginia	buchanan	lower banner	3.4	22.6	65.1	12.3	1.2	13680	0	8.0
virginia	buchanan	splash dam	3.0	29.1	64.1	6.8	0.6	14540	74	8.0
virginia	buchanan	eagle	2.6	32.5	61.4	6.1	1.3	14530	64	7.0
virginia	buchanan	various	3.0	31.3	59.9	8.8	1.7	14020	63	8.0
virginia	buchanan	various	2.4	31.4	62.8	5.8	0.8	14650	70	6.5
virginia	buchanan	splash dam	2.1	30.3	63.3	6.4	0.7	14550	67	6.5
virginia	buchanan	splash dam	2.7	29.5	64.2	6.3	1.0	14640	78	7.5
virginia	buchanan	various	4.0	31.5	59.2	9.3	1.8	13960	68	7.0
virginia	buchanan	various	3.5	32.2	56.9	10.9	2.1	13730	0	9.0
virginia	buchanan	various	2.7	28.9	64.0	7.1	1.0	14450	78	8.0
virginia	buchanan	splash dam	2.2	29.7	63.5	6.8	0.7	14580	74	7.5
virginia	buchanan	kennedy	2.1	25.6	69.1	5.3	1.2	14760	0	9.0
virginia	buchanan	kennedy	2.0	25.8	68.3	5.9	1.3	14740	91	9.0
virginia	buchanan	lower banner	4.1	25.7	67.1	7.2	0.6	14590	96	7.5
virginia	buchanan	lower banner	4.4	23.6	66.8	9.6	1.0	14100	0	7.5
virginia	buchanan	eagle & kennedy	4.8	26.4	63.3	10.3	1.1	13390	88	9.0
virginia	buchanan	raven	4.7	23.1	70.8	6.1	0.7	14760	0	9.0
virginia	buchanan	raven	2.4	26.4	67.2	6.4	0.8	14470	0	8.0
virginia	buchanan	raven	2.3	23.1	69.9	7.0	0.6	14590	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
virginia	buchanan	various	2.7	32.4	60.5	7.1	1.2	14390	59	8.0
virginia	buchanan	blair	3.4	30.8	59.6	9.6	0.9	13860	64	8.5
virginia	buchanan	splash dam	2.6	31.3	56.7	12.0	1.2	13520	58	7.5
virginia	buchanan	splash dam	2.5	29.6	64.0	6.4	0.7	14570	78	7.5
virginia	buchanan	splash dam	2.6	28.5	66.0	5.5	0.9	14800	83	8.0
virginia	buchanan	splash dam	3.0	28.6	64.0	7.4	0.6	14460	77	7.5
virginia	buchanan	kennedy	2.9	26.7	67.5	5.8	1.4	14710	0	9.0
virginia	buchanan	splash dam	5.0	29.0	62.8	8.2	1.2	14230	81	8.5
virginia	buchanan	clintwood&splash dam	4.8	29.2	62.2	8.6	0.9	14040	0	8.0
virginia	buchanan	clintwood	2.4	30.2	63.4	6.4	0.8	14430	0	7.5
virginia	buchanan	clintwood	3.2	30.7	61.7	7.6	1.1	14170	63	7.0
virginia	buchanan	raven	3.1	21.5	71.0	7.5	0.6	14570	97	9.0
virginia	buchanan	raven	3.1	23.4	70.4	6.2	0.5	14810	99	8.5
virginia	buchanan	cedar grove	4.1	33.8	60.4	5.8	0.5	14450	59	7.5
virginia	buchanan	various	3.1	30.9	60.8	8.3	1.4	14140	0	7.5
virginia	buchanan	haqy	1.9	30.4	61.6	8.0	0.8	14280	63	5.5
virginia	buchanan	haqy	3.2	30.9	62.9	6.2	0.8	14540	66	5.5
virginia	buchanan	various	3.9	26.1	64.9	9.0	0.9	14240	0	7.5
virginia	buchanan	splash dam	1.7	25.4	71.5	3.1	0.7	15170	86	9.0
virginia	buchanan	raven	3.4	27.5	66.4	6.1	1.3	14670	88	8.5
virginia	buchanan	splash dam	2.9	29.1	63.0	7.9	0.7	14270	74	7.0
virginia	buchanan	eagle	2.7	31.5	59.4	9.1	1.0	14050	63	8.0
virginia	buchanan	eagle	3.2	29.7	58.8	11.5	0.9	13580	64	8.0
virginia	buchanan	splash dam	2.8	30.1	58.7	11.2	1.1	13670	60	7.5
virginia	dickenson	splash dam	1.9	31.0	60.9	8.1	0.9	14180	0	8.0
virginia	dickenson	lower banner	4.9	31.3	57.5	11.2	0.9	13820	63	7.5
virginia	dickenson	upper banner	2.2	32.8	58.4	8.8	0.6	14180	65	7.0
virginia	dickenson	upper banner	2.5	31.2	59.3	9.5	0.6	14000	69	7.0
virginia	dickenson	upper banner	1.9	33.5	56.5	10.0	0.7	14000	54	5.5
virginia	dickenson	upper banner	2.2	31.7	55.2	13.1	0.6	13430	58	6.0
virginia	dickenson	splash dam&u banner	2.6	31.4	56.3	12.3	0.8	13610	0	6.0
virginia	dickenson	upper banner	3.1	29.1	64.6	6.3	0.7	14570	0	7.5
virginia	dickenson	upper banner	3.7	31.4	60.1	8.5	0.8	14080	0	8.0
virginia	dickenson	upper banner	2.6	31.9	60.1	8.0	0.8	14210	0	7.5
virginia	dickenson	clintwood & u banner	1.8	31.7	62.9	5.4	0.7	14690	68	6.5
virginia	dickenson	haqy	1.4	28.8	61.1	10.1	2.5	13960	78	6.0
virginia	dickenson	clintwood	2.2	32.8	60.4	6.8	0.8	14330	61	7.5
virginia	dickenson	clintwood	1.8	34.5	59.8	5.7	1.5	14500	64	7.0
virginia	dickenson	blair	2.0	32.8	61.5	5.7	0.7	14500	62	7.0
virginia	dickenson	haqy	2.4	29.9	61.3	8.8	1.8	14180	68	5.0
virginia	dickenson	upper banner	2.1	33.2	60.2	6.6	0.6	14470	60	8.0
virginia	dickenson	lower & upper banner	2.0	31.5	59.7	8.8	0.9	14190	63	7.5
virginia	dickenson	lower & upper banner	2.8	31.6	58.1	10.3	0.7	13990	62	7.5
virginia	dickenson	various	3.1	31.3	60.7	8.0	0.8	14210	64	7.5
virginia	dickenson	splash dam	2.5	31.0	59.0	10.0	1.1	13920	70	7.0
virginia	dickenson	lower banner	2.7	30.7	57.2	12.1	1.1	13650	63	6.5
virginia	dickenson	lower banner	2.3	31.0	58.5	10.5	0.9	13830	63	7.0
virginia	dickenson	lower & upper banner	2.5	31.2	57.0	11.8	1.0	13680	64	6.0
virginia	dickenson	clintwood	2.9	33.0	60.6	6.4	0.9	14440	57	7.0
virginia	dickenson	clintwood	2.8	33.2	61.8	5.0	0.9	14670	0	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
virginia	dickenson	splash dam	5.8	27.2	56.1	16.7	0.8	12630	0	2.5
virginia	dickenson	splash dam	3.4	28.5	54.2	17.3	0.8	12730	61	8.0
virginia	dickenson	dorchester&plash dm	2.5	34.4	54.7	10.9	1.9	13590	53	7.5
virginia	dickenson	upper banner	2.2	32.0	55.7	12.3	0.8	13500	0	7.5
virginia	dickenson	upper banner	1.9	32.9	60.2	6.9	0.6	14390	64	7.5
virginia	dickenson	lower banner	2.3	31.8	59.4	8.8	1.0	14110	60	7.5
virginia	dickenson	lower & upper banner	3.3	31.4	59.7	8.9	0.8	14130	0	7.0
virginia	dickenson	splash dam	1.9	26.0	51.5	22.5	0.8	11900	0	7.5
virginia	dickenson	naay	2.7	29.6	63.2	7.2	1.8	14490	82	6.0
virginia	dickenson	upper banner	1.8	35.1	57.2	7.7	0.7	14260	58	6.0
virginia	dickenson	lower banner	2.2	30.4	59.5	10.1	0.8	13960	75	7.5
virginia	lee	cedar grove	4.0	38.3	58.0	3.7	0.6	14460	0	5.5
virginia	lee	cedar grove	3.7	35.0	59.0	6.0	0.7	14180	0	5.5
virginia	lee	cedar grove	3.0	36.6	55.5	7.9	0.9	13840	0	5.0
virginia	lee	cedar grove	3.1	36.4	57.0	6.6	0.7	14070	54	6.0
virginia	lee	dorchester	3.5	34.7	52.6	12.7	2.4	12920	55	5.5
virginia	lee	nhillips	4.2	37.2	55.0	7.8	0.7	13630	43	5.0
virginia	lee	imboden	4.3	36.9	51.5	11.6	1.3	13250	46	5.0
virginia	lee	harlan & low splint	5.0	39.3	50.6	10.1	3.3	13340	45	5.0
virginia	lee	low splint	3.6	39.7	49.5	10.8	3.7	13210	47	5.0
virginia	lee	low splint	5.6	37.6	50.8	11.6	2.4	12920	0	2.5
virginia	lee	various	4.5	36.8	51.4	11.8	0.6	12990	0	3.5
virginia	lee	cedar grove	3.2	36.1	56.6	7.3	0.5	13860	0	5.5
virginia	lee	cedar grove	5.0	36.8	56.3	6.9	0.7	13920	0	4.5
virginia	lee	cedar grove	5.1	36.6	59.4	4.0	0.7	14450	0	5.5
virginia	lee	cedar grove & harlan	6.1	36.1	58.1	5.8	0.6	13860	0	3.0
virginia	lee	imboden	2.9	39.7	51.3	9.0	1.9	13600	49	5.0
virginia	lee	various	3.7	37.7	51.5	10.8	2.4	13250	45	4.5
virginia	lee	low splint	2.8	37.5	47.6	14.9	3.4	12580	44	4.5
virginia	lee	cedar grove	4.4	36.4	54.2	9.4	0.6	13510	0	4.5
virginia	lee	cedar grove	6.8	34.9	60.9	4.2	0.8	14400	0	6.5
virginia	lee	harlan	2.4	37.2	49.5	13.3	3.2	12780	49	5.0
virginia	lee	harlan	3.7	41.3	52.3	6.4	1.1	14180	51	4.5
virginia	lee	various	5.8	35.4	49.0	15.6	1.3	12410	0	1.0
virginia	lee	various	6.4	35.8	50.2	14.0	0.9	12460	0	1.5
virginia	lee	cedar grove	6.3	36.1	61.1	2.8	0.5	14360	43	2.0
virginia	lee	cedar grove	4.7	34.0	60.0	6.0	0.7	14120	0	6.0
virginia	lee	cedar grove	4.7	33.0	58.0	9.0	0.7	13650	0	6.5
virginia	montgomery	merrimac	1.6	12.5	55.8	31.7	0.7	10240	69	1.0
virginia	russell	jawbone	1.0	29.1	51.4	19.5	0.5	12110	0	6.5
virginia	russell	lower banner	1.8	35.2	57.1	7.7	0.6	14140	51	7.0
virginia	russell	lower banner	1.7	34.4	57.2	8.4	0.9	14090	52	7.0
virginia	russell	lower banner	2.4	36.9	55.1	8.0	0.6	14200	43	7.0
virginia	russell	lower & upper banner	2.3	35.0	53.9	11.1	0.6	13540	51	7.0
virginia	russell	various	2.0	29.9	60.5	9.6	0.9	13970	0	8.0
virginia	russell	kennedy	2.8	31.6	55.9	12.5	1.2	13430	61	7.5
virginia	russell	raven	4.3	30.4	56.3	13.3	0.8	13360	57	8.0
virginia	russell	tiller	1.7	30.7	62.0	7.3	0.5	14290	0	8.5
virginia	russell	lower banner	1.9	34.3	55.3	9.9	0.8	13970	52	7.0
virginia	russell	raven	2.8	33.6	59.9	6.5	0.7	14490	54	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
virginia	russell	lower banner	4.6	33.8	58.4	7.8	0.7	14250	53	6.0
virginia	russell	lower banner	3.7	33.9	58.9	7.2	0.7	14350	0	7.0
virginia	russell	lower banner	4.5	34.3	57.3	8.4	0.7	13940	0	2.5
virginia	russell	lower banner	2.9	36.6	55.4	8.0	0.6	14060	0	5.5
virginia	russell	lower banner	2.3	36.5	56.9	6.6	0.8	14500	48	6.5
virginia	russell	lower banner	2.2	35.4	55.4	9.2	1.0	13960	53	8.0
virginia	russell	lower banner	3.0	37.2	55.2	7.6	1.2	14220	60	7.5
virginia	tazewell	middle horsepen	2.4	23.6	67.6	8.8	0.7	14280	0	9.0
virginia	tazewell	raven	2.2	30.7	62.0	7.3	0.5	14470	0	8.0
virginia	tazewell	raven	5.2	31.4	60.0	8.6	0.7	14210	0	7.5
virginia	tazewell	lower seaboard	2.4	27.4	66.2	6.4	1.2	14440	73	8.5
virginia	tazewell	jawbone	3.3	26.3	59.2	14.5	0.5	13250	70	5.0
virginia	tazewell	pocahontas no 3	3.9	21.7	71.0	7.3	0.5	14610	97	9.0
virginia	tazewell	pocahontas no 3	4.6	21.5	71.2	7.3	0.6	14560	0	8.5
virginia	tazewell	middle horsepen	4.0	24.0	65.6	10.4	0.6	14090	0	8.0
virginia	tazewell	lower banner	3.5	25.2	66.5	8.3	0.9	14410	96	8.0
virginia	tazewell	raven	4.6	24.3	68.4	7.3	0.8	14640	94	8.5
virginia	tazewell	raven	3.9	27.9	65.1	7.0	0.7	14530	82	8.0
virginia	tazewell	raven	3.7	28.9	63.9	7.2	0.9	14480	0	8.5
virginia	tazewell	jawbone	2.1	26.0	57.2	16.8	0.6	12880	68	4.5
virginia	tazewell	upper seaboard	3.6	28.5	65.1	6.4	0.5	14600	0	8.5
virginia	tazewell	upper seaboard	3.1	29.5	64.3	6.2	0.5	14660	0	8.5
virginia	tazewell	pocahontas no 3	6.9	20.7	72.8	6.5	0.7	14520	**	8.0
virginia	tazewell	pocahontas no 3	4.9	21.4	72.2	6.4	0.6	14680	**	9.0
virginia	tazewell	various	5.4	30.0	57.5	12.5	0.5	13510	0	8.0
virginia	tazewell	raven	4.9	30.4	63.2	6.4	0.5	14660	73	8.0
virginia	tazewell	raven	2.9	27.6	64.7	7.7	0.8	14450	82	8.0
virginia	tazewell	lower banner	2.7	27.9	60.1	12.0	0.6	13620	0	6.0
virginia	wise	lynns	3.9	33.0	61.6	5.4	1.2	14520	0	8.5
virginia	wise	jawbone	2.1	30.3	46.3	23.4	0.9	11360	49	4.5
virginia	wise	clintwood	5.9	31.6	55.2	13.2	1.0	13030	0	5.5
virginia	wise	various	3.9	35.0	58.1	6.9	0.5	14160	0	7.0
virginia	wise	various	3.3	34.2	56.6	9.2	0.8	13800	51	7.5
virginia	wise	various	4.2	34.0	56.7	9.3	0.8	13680	0	4.0
virginia	wise	various	4.5	33.7	57.3	9.0	0.7	13690	0	4.0
virginia	wise	various	5.2	33.5	55.7	10.8	0.7	13500	0	6.0
virginia	wise	various	5.2	33.8	55.4	10.8	0.7	13450	0	6.5
virginia	wise	various	4.4	33.2	55.9	10.9	0.8	13390	0	5.0
virginia	wise	various	7.1	32.5	55.9	11.6	0.8	13180	0	4.5
virginia	wise	various	5.9	32.9	55.4	11.7	0.7	13130	0	4.0
virginia	wise	dorchester	4.2	33.7	59.2	7.1	2.5	14270	61	8.5
virginia	wise	upper banner	3.1	32.7	58.4	8.9	0.6	13980	66	7.5
virginia	wise	imboden	2.6	33.6	55.6	10.8	0.8	13510	55	6.5
virginia	wise	imboden	3.7	34.4	56.5	9.1	0.7	13770	0	7.0
virginia	wise	imboden	3.3	33.6	56.5	9.9	0.8	13630	0	6.5
virginia	wise	imboden	3.9	33.7	56.5	9.8	0.8	13620	0	6.5
virginia	wise	imboden	4.0	33.4	56.5	10.1	0.7	13550	0	6.5
virginia	wise	imboden	4.4	33.9	55.5	10.6	0.7	13450	0	6.0
virginia	wise	imboden	4.0	33.8	55.9	10.3	0.7	13510	0	6.0
virginia	wise	imboden	3.6	33.7	54.7	11.6	0.7	13340	0	6.5

state	county	bed	moistur	volmat	fixede	ash	sulfur	btu	hqilo	fsilo
virginia	wise	imboden	3.3	33.0	54.7	12.3	0.6	13240	0	7.5
virginia	wise	various	6.2	33.7	57.1	9.2	0.6	13580	0	4.0
virginia	wise	imboden	3.2	32.9	56.3	10.8	0.8	13660	57	7.0
virginia	wise	imboden	2.6	32.8	56.6	10.6	0.7	13640	0	7.5
virginia	wise	imboden	2.6	33.0	55.8	11.2	0.8	13530	0	7.5
virginia	wise	imboden	2.5	33.8	57.7	8.5	0.8	13970	55	8.0
virginia	wise	imboden	2.3	32.4	54.3	13.3	1.0	13190	0	8.0
virginia	wise	imboden	3.1	32.8	55.4	11.8	0.7	13440	0	8.0
virginia	wise	imboden	3.3	31.9	54.6	13.5	0.7	13180	0	8.0
virginia	wise	imboden	2.9	32.2	55.3	12.5	0.8	13330	0	8.0
virginia	wise	imboden	2.7	32.0	54.1	13.9	0.7	13080	0	8.0
virginia	wise	imboden	2.5	31.6	53.1	15.3	0.7	12890	0	7.5
virginia	wise	imboden	3.6	31.8	52.5	15.7	0.7	12820	0	7.5
virginia	wise	imboden	3.2	31.7	52.6	15.7	0.8	12810	0	7.5
virginia	wise	various	3.4	30.6	56.4	13.0	1.4	13440	63	8.0
virginia	wise	kelly	2.8	34.3	61.0	4.7	0.7	14570	50	7.0
virginia	wise	various	3.8	32.3	59.0	8.7	0.8	13960	0	7.5
virginia	wise	blair & clintwood	6.1	31.2	64.2	4.6	0.7	14510	68	7.5
virginia	wise	clintwood	2.2	34.3	60.5	5.2	0.8	14610	67	7.0
virginia	wise	cedar grove	2.6	33.1	61.5	5.4	0.7	14520	0	7.5
virginia	wise	various	6.3	34.4	58.1	7.5	0.7	13870	0	2.0
virginia	wise	various	8.9	31.9	56.0	12.1	0.8	13080	0	7.5
virginia	wise	clintwood	4.2	34.4	59.4	6.2	2.2	14430	60	8.5
virginia	wise	blair	3.0	33.8	60.5	5.7	0.6	14570	51	7.5
virginia	wise	lyons	3.2	33.9	60.6	5.5	2.1	14560	63	9.0
virginia	wise	dorchester	2.5	31.9	58.6	9.5	1.2	13910	68	7.5
virginia	wise	dorchester	2.5	31.7	58.6	9.7	1.1	13880	64	9.0
virginia	wise	dorchester	2.6	30.3	51.3	18.4	1.0	12470	0	7.5
virginia	wise	blair & lyons	2.5	32.9	61.4	5.7	0.9	14510	57	8.0
virginia	wise	dorchester	3.4	36.3	55.4	8.3	1.6	14080	53	8.0
virginia	wise	imboden	2.9	33.1	54.1	12.8	1.2	13100	55	5.5
virginia	wise	various	4.8	34.0	57.6	8.4	0.7	13650	0	1.5
virginia	wise	imboden	4.6	34.2	57.8	8.0	0.8	13840	57	6.5
virginia	wise	imboden&cedar grove	3.8	34.3	54.2	11.5	0.9	13260	53	6.5
virginia	wise	imboden & kelly	3.5	34.8	56.9	8.3	0.7	13950	48	7.0
virginia	wise	various	4.6	32.3	54.0	13.7	1.6	13010	0	2.0
virginia	wise	various	5.1	32.0	55.8	12.2	1.4	13180	63	3.5
virginia	wise	imboden	2.3	34.6	57.1	8.3	2.2	14080	65	7.5
virginia	wise	blair	3.9	31.4	61.2	7.4	0.9	14390	54	8.5
virginia	wise	high splint	2.7	36.1	58.4	5.5	0.5	14210	0	4.5
virginia	wise	high splint	2.9	36.9	58.7	4.4	0.6	14380	0	4.5
virginia	wise	high splint	2.9	37.0	57.5	5.5	0.6	14190	0	6.0
virginia	wise	high splint	2.8	37.1	57.1	5.8	0.6	14160	0	6.0
virginia	wise	high splint	2.9	35.3	56.6	8.1	0.6	13800	49	6.0
virginia	wise	high solint	5.2	34.2	54.8	11.0	0.7	13210	0	1.5
virginia	wise	high splint	5.2	34.0	54.8	11.2	0.8	13100	45	1.0
virginia	wise	high splint	4.7	35.3	59.2	5.5	0.8	14140	50	6.0
virginia	wise	morris	3.7	34.8	57.1	8.1	0.6	13690	0	2.0
virginia	wise	morris	3.7	35.3	55.9	8.8	0.8	13620	0	4.0
virginia	wise	morris	2.5	36.8	56.1	7.1	0.7	13970	43	5.0

VIRGINIA

state	county	bed	moistur	volatile	fixedc	ash	sulfur	btu	hgilo	fallc
virginia	wise	morris	2.4	35.5	55.6	8.9	0.8	13680	0	5.0
virginia	wise	pardee	4.2	34.3	50.0	15.7	1.3	12660	0	6.0
virginia	wise	pardee	3.1	31.3	51.3	16.9	0.7	12580	0	8.0
virginia	wise	pardee	3.4	36.3	54.9	8.8	0.8	13580	0	4.5
virginia	wise	pardee	3.8	35.2	56.4	8.4	1.0	13700	0	5.0
virginia	wise	jaubone	3.7	29.9	47.7	22.4	0.8	11330	0	5.0
virginia	wise	various	3.8	33.6	56.6	9.8	0.6	13730	0	5.0
virginia	wise	various	3.7	32.7	58.4	8.9	0.6	13910	0	8.0
virginia	wise	jaubone	1.7	33.3	48.7	18.0	0.8	12270	0	6.5
virginia	wise	raven	2.8	29.2	52.2	18.6	0.8	12410	56	6.5
virginia	wise	blair	3.1	37.6	63.8	3.6	0.8	14910	67	8.0
virginia	wise	cedar grove	3.5	32.9	63.3	3.8	1.0	14850	61	8.5
virginia	wise	various	3.5	34.7	55.7	9.6	0.5	13740	0	1.0
virginia	wise	various	2.5	35.4	55.3	9.3	0.6	13880	0	6.0
virginia	wise	lower banner	3.2	36.7	55.4	7.9	0.6	14160	46	7.0
virginia	wise	various	3.0	32.0	56.5	11.5	1.5	13560	64	9.0
virginia	wise	dorchester	2.2	35.8	60.4	3.8	1.9	14630	65	8.0

WASHINGTON

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in washington

(In millions of short tons)

=====													
rank	measured and indicated (inches)				inferred (inches)				total (inches)				
coal bed	overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
=====													
king					county								

bit													
alvey													
0-1000	0.00	0.00	1.06	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.06
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.00	0.00	0.92	0.92
big elk													
0-1000	0.00	0.00	3.50	3.50	0.00	0.00	2.28	2.28	2.28	0.00	0.00	5.78	5.78
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	4.06	4.06	4.06	0.00	0.00	4.06	4.06
carbon													
0-1000	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.95	0.95	0.00	0.95	0.00	0.95
carbon bayne no 1													
0-1000	0.00	0.00	2.68	2.68	0.00	0.00	1.65	1.65	1.65	0.00	0.00	4.33	4.33
carbon bayne no 2													
0-1000	0.00	0.00	0.69	0.69	0.00	0.00	1.88	1.88	1.88	0.00	0.00	2.57	2.57
carbon bayne no 3													
0-1000	0.00	0.00	0.72	0.72	0.00	0.00	2.71	2.71	2.71	0.00	0.00	3.43	3.43
durham number 2													
0-1000	0.00	0.00	1.82	1.82	0.00	0.00	0.40	0.40	0.40	0.00	0.00	2.22	2.22
dutch													
0-1000	0.00	0.00	0.00	0.00	0.00	1.63	0.00	1.63	1.63	0.00	1.63	0.00	1.63
1-2000	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.66	0.66	0.00	0.66	0.00	0.66
eight foot													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.27	1.27	0.00	0.00	1.27	1.27
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	1.58	1.58	1.58	0.00	0.00	1.58	1.58
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	2.67	2.67	2.67	0.00	0.00	2.67	2.67
elk number 1													
0-1000	0.00	0.00	1.57	1.57	0.00	0.00	0.46	0.46	0.46	0.00	0.00	2.03	2.03
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	1.83	1.83	1.83	0.00	0.00	1.83	1.83
elk number 2													
0-1000	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.66	0.66	0.66	0.00	0.00	0.66
eureka													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.87	0.87	0.00	0.00	0.87	0.87
franklin number 10													
0-1000	0.00	0.00	5.17	5.17	0.00	0.00	12.28	12.28	12.28	0.00	0.00	17.45	17.45
1-2000	0.00	0.00	6.76	6.76	0.00	0.00	19.59	19.59	19.59	0.00	0.00	26.35	26.35
2-3000	0.00	0.00	5.66	5.66	0.00	0.00	6.18	6.18	6.18	0.00	0.00	11.84	11.84
frazier													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68	1.68	0.00	0.00	1.68	1.68
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	2.01	2.01	2.01	0.00	0.00	2.01	2.01
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	2.02	2.02	2.02	0.00	0.00	2.02	2.02
fulton number 12													
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	27.24	27.24	27.24	0.00	0.00	27.24	27.24
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	22.65	22.65	22.65	0.00	0.00	22.65	22.65
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	19.51	19.51	19.51	0.00	0.00	19.51	19.51

gem												
0-1000	0.00	2.78	1.00	3.78	0.00	3.29	2.07	5.36	0.00	6.07	3.07	9.14
1-2000	0.00	3.63	0.00	3.63	0.00	2.94	0.19	3.13	0.00	6.57	0.19	6.76
2-3000	0.00	1.05	0.00	1.05	0.00	0.93	0.00	0.93	0.00	1.98	0.00	1.98
harris												
0-1000	0.00	0.00	0.00	0.00	0.00	5.21	0.00	5.21	0.00	5.21	0.00	5.21
1-2000	0.00	0.00	0.00	0.00	0.00	4.34	0.00	4.34	0.00	4.34	0.00	4.34
2-3000	0.00	0.00	0.00	0.00	0.00	4.30	0.00	4.30	0.00	4.30	0.00	4.30
landsburg no 1												
0-1000	0.00	0.00	1.58	1.58	0.00	0.00	2.70	2.70	0.00	0.00	4.28	4.28
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	5.12	5.12	0.00	0.00	5.12	5.12
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	5.39	5.39	0.00	0.00	5.39	5.39
lckay												
0-1000	0.00	0.00	6.97	6.97	0.00	0.00	7.48	7.48	0.00	0.00	14.45	14.45
1-2000	0.00	0.00	11.99	11.99	0.00	0.00	6.50	6.50	0.00	0.00	18.49	18.49
2-3000	0.00	0.00	8.22	8.22	0.00	0.00	17.73	17.73	0.00	0.00	25.95	25.95
navy number 4												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	0.00	0.00	1.21	1.21
navy number 6												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.40	0.00	0.00	1.40	1.40
new lake houns no 2												
0-1000	0.00	0.00	0.47	0.47	0.00	0.00	0.97	0.97	0.00	0.00	1.44	1.44
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.44	0.00	0.00	1.44	1.44
number 2												
0-1000	0.00	0.00	0.62	0.62	0.00	0.00	1.76	1.76	0.00	0.00	2.38	2.38
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.00	0.00	1.20	1.20
number 3												
0-1000	0.00	0.00	1.37	1.37	0.00	0.00	0.55	0.55	0.00	0.00	1.92	1.92
1-2000	0.00	0.00	1.50	1.50	0.00	0.00	0.71	0.71	0.00	0.00	2.21	2.21
2-3000	0.00	0.00	0.53	0.53	0.00	0.00	1.57	1.57	0.00	0.00	2.10	2.10
number 4												
0-1000	0.00	0.95	0.00	0.95	0.00	1.69	0.00	1.69	0.00	2.64	0.00	2.64
1-2000	0.00	0.41	0.00	0.41	0.00	1.85	0.00	1.85	0.00	2.26	0.00	2.26
2-3000	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.83	0.00	0.83	0.00	0.83
number 5												
0-1000	0.00	0.00	1.46	1.46	0.00	0.00	2.53	2.53	0.00	0.00	3.99	3.99
1-2000	0.00	0.00	0.98	0.98	0.00	0.00	3.28	3.28	0.00	0.00	4.26	4.26
2-3000	0.00	0.00	0.34	0.34	0.00	0.00	1.37	1.37	0.00	0.00	1.71	1.71
number 6												
0-1000	0.00	0.00	0.88	0.88	0.00	0.00	2.34	2.34	0.00	0.00	3.22	3.22
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	2.76	2.76	0.00	0.00	2.76	2.76
occidental no 1												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.00	0.00	0.40	0.40
occidental no 14												
0-1000	0.00	0.44	0.00	0.44	0.00	0.29	0.00	0.29	0.00	0.73	0.00	0.73
1-2000	0.00	0.49	0.00	0.49	0.00	0.38	0.00	0.38	0.00	0.87	0.00	0.87
occidental no 2												
0-1000	0.00	0.22	0.00	0.22	0.00	0.21	0.00	0.21	0.00	0.43	0.00	0.43
occidental no 3												
0-1000	0.00	0.00	0.47	0.47	0.00	0.00	0.89	0.89	0.00	0.00	1.36	1.36
occidental no 6												
0-1000	0.00	0.44	0.00	0.44	0.00	0.44	0.00	0.44	0.00	0.88	0.00	0.88
pocahontas												
0-1000	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.75	0.00	0.75	0.00	0.75
ravensdale no 3												
0-1000	0.00	0.00	1.64	1.64	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.64
1-2000	0.00	0.00	0.71	0.71	0.00	0.00	0.91	0.91	0.00	0.00	1.62	1.62
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.00	0.00	1.23	1.23
ravensdale no 4												
0-1000	0.00	0.00	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.40

1-2000	0.00	0.00	1.84	1.84	0.00	0.00	0.00	0.00	0.00	0.00	1.84	1.84
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	1.42	1.42	0.00	0.00	1.42	1.42
ravensdale no 5												
0-1000	0.00	0.00	0.56	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.56
1-2000	0.00	0.00	2.21	2.21	0.00	0.00	0.00	0.00	0.00	0.00	2.21	2.21
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	1.63	1.63	0.00	0.00	1.63	1.63
ravensdale no 9												
0-1000	0.00	0.93	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.93
1-2000	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.71	0.00	0.71	0.00	0.71
2-3000	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.52	0.00	0.52	0.00	0.52
six foot												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.08	0.00	0.00	1.08	1.08
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.39	0.00	0.00	1.39	1.39
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.51	0.00	0.00	1.51	1.51
sunset number 2												
0-1000	1.44	0.00	0.00	1.44	0.41	0.00	0.00	0.41	1.85	0.00	0.00	1.85
1-2000	0.00	0.00	0.00	0.00	1.45	0.00	0.00	1.45	1.45	0.00	0.00	1.45
sunset number 7												
0-1000	0.00	0.00	0.00	0.00	0.00	1.38	0.00	1.38	0.00	1.38	0.00	1.38
uncorrelated												
0-1000	0.00	0.00	0.27	0.27	0.00	0.00	1.54	1.54	0.00	0.00	1.81	1.81
victory												
0-1000	0.00	0.00	2.68	2.68	0.00	0.00	2.02	2.02	0.00	0.00	4.70	4.70
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	2.53	2.53	0.00	0.00	2.53	2.53
county total =	1.44	11.34	79.32	92.10	2.52	33.30	222.56	258.38	3.96	44.64	301.88	350.48

kittitas county												

bit												
big dirty												
0-1000	0.00	0.00	42.29	42.29	0.00	0.00	13.69	13.69	0.00	0.00	55.98	55.98
1-2000	0.00	0.00	1.10	1.10	0.00	0.00	9.05	9.05	0.00	0.00	10.15	10.15
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	8.22	8.22	0.00	0.00	8.22	8.22
green number 7												
0-1000	0.88	0.00	0.00	0.88	5.27	0.00	0.00	5.27	6.15	0.00	0.00	6.15
1-2000	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.92	0.92	0.00	0.00	0.92
plant number 6												
0-1000	0.00	8.75	0.00	8.75	0.00	42.98	0.00	42.98	0.00	51.73	0.00	51.73
1-2000	0.00	0.44	0.00	0.44	0.00	31.45	0.00	31.45	0.00	31.89	0.00	31.89
2-3000	0.00	0.00	0.00	0.00	0.00	9.49	0.00	9.49	0.00	9.49	0.00	9.49
roslyn number 5												
0-1000	0.00	0.00	11.50	11.50	0.00	0.00	6.32	6.32	0.00	0.00	17.82	17.82
1-2000	0.00	0.00	13.47	13.47	0.00	0.00	14.21	14.21	0.00	0.00	27.68	27.68
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	8.62	8.62	0.00	0.00	8.62	8.62
uncorrelated												
0-1000	10.81	0.00	0.00	10.81	29.66	0.00	0.00	29.66	40.47	0.00	0.00	40.47
wright number 8												
0-1000	0.00	1.85	0.00	1.85	0.00	7.98	0.00	7.98	0.00	9.83	0.00	9.83
1-2000	0.00	0.00	0.00	0.00	0.00	2.85	0.00	2.85	0.00	2.85	0.00	2.85
county total =	11.69	11.04	68.36	91.09	35.85	94.75	60.11	190.71	47.54	105.79	128.47	281.80

lewis county												

bit												
ladd number 2												
0-1000	0.00	0.00	1.79	1.79	0.00	0.00	3.26	3.26	0.00	0.00	5.05	5.05
ladd number 3												
0-1000	0.00	0.00	1.61	1.61	0.00	0.00	2.94	2.94	0.00	0.00	4.55	4.55

ladd number 4												
0-1000	0.00	0.00	1.70	1.70	0.00	0.00	3.10	3.10	0.00	0.00	4.80	4.80
uncorrelated												
0-1000	0.00	0.00	1.92	1.92	1.62	0.00	29.38	31.00	1.62	0.00	31.30	32.92

county total =	0.00	0.00	7.02	7.02	1.62	0.00	38.68	40.30	1.62	0.00	45.70	47.32

	pierce				county							

bit												
big ben												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.92	1.92	0.00	0.00	1.92	1.92
black carbon												
0-1000	0.00	0.00	1.18	1.18	0.00	0.00	1.49	1.49	0.00	0.00	2.67	2.67
1-2000	0.00	0.00	1.18	1.18	0.00	0.00	1.93	1.93	0.00	0.00	3.11	3.11
2-3000	0.00	0.00	1.18	1.18	0.00	0.00	1.93	1.93	0.00	0.00	3.11	3.11
blacksmith												
0-1000	0.37	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.37
1-2000	0.37	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.37
2-3000	0.37	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.37
burnt												
0-1000	0.00	0.76	0.00	0.76	0.00	1.60	0.00	1.60	0.00	2.36	0.00	2.36
1-2000	0.00	0.76	0.00	0.76	0.00	1.60	0.00	1.60	0.00	2.36	0.00	2.36
2-3000	0.00	0.76	0.00	0.76	0.00	1.60	0.00	1.60	0.00	2.36	0.00	2.36
carbonado number 5												
0-1000	0.00	0.00	3.06	3.06	0.00	0.00	0.00	0.00	0.00	0.00	3.06	3.06
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	3.16	3.16	0.00	0.00	3.16	3.16
carbonado number 8												
0-1000	0.00	0.00	1.08	1.08	0.00	0.00	2.40	2.40	0.00	0.00	3.48	3.48
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	2.99	2.99	0.00	0.00	2.99	2.99
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.59	0.00	0.00	1.59	1.59
crocker												
0-1000	0.58	0.00	0.00	0.58	1.12	0.00	0.00	1.12	1.70	0.00	0.00	1.70
1-2000	0.58	0.00	0.00	0.58	1.12	0.00	0.00	1.12	1.70	0.00	0.00	1.70
2-3000	0.58	0.00	0.00	0.58	1.12	0.00	0.00	1.12	1.70	0.00	0.00	1.70
mcneill												
0-1000	0.00	0.63	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.63
1-2000	0.00	0.82	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.82
2-3000	0.00	0.82	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.82
morgan number 7												
0-1000	0.00	0.00	1.98	1.98	0.00	0.00	2.23	2.23	0.00	0.00	4.21	4.21
1-2000	0.00	0.00	0.22	0.22	0.00	0.00	5.05	5.05	0.00	0.00	5.27	5.27
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	2.29	2.29	0.00	0.00	2.29	2.29
nisqually												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	4.47	4.47	0.00	0.00	4.47	4.47
1-2000	0.00	0.00	0.00	0.00	0.00	0.00	4.47	4.47	0.00	0.00	4.47	4.47
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	4.47	4.47	0.00	0.00	4.47	4.47
number 1												
0-1000	0.23	0.00	0.29	0.52	0.19	0.00	0.47	0.66	0.42	0.00	0.76	1.18
1-2000	0.23	0.00	0.00	0.23	0.19	0.00	0.00	0.19	0.42	0.00	0.00	0.42
2-3000	0.23	0.00	0.00	0.23	0.19	0.00	0.00	0.19	0.42	0.00	0.00	0.42
number 10												
0-1000	0.00	0.00	2.77	2.77	0.00	0.00	0.74	0.74	0.00	0.00	3.51	3.51
1-2000	0.00	0.00	3.02	3.02	0.00	0.00	1.87	1.87	0.00	0.00	4.89	4.89
2-3000	0.00	0.00	3.02	3.02	0.00	0.00	1.87	1.87	0.00	0.00	4.89	4.89
number 11												
0-1000	0.59	0.88	0.00	1.47	0.39	0.26	0.00	0.65	0.98	1.14	0.00	2.12
1-2000	0.59	0.88	0.00	1.47	0.39	0.79	0.00	1.18	0.98	1.67	0.00	2.65
2-3000	0.59	0.88	0.00	1.47	0.39	0.79	0.00	1.18	0.98	1.67	0.00	2.65
number 12												

0-1000	0.00	0.93	0.00	0.93	0.00	1.74	0.00	1.74	0.00	2.67	0.00	2.67
1-2000	0.00	0.93	0.00	0.93	0.00	1.74	0.00	1.74	0.00	2.67	0.00	2.67
2-3000	0.00	0.93	0.00	0.93	0.00	1.74	0.00	1.74	0.00	2.67	0.00	2.67
number 2												
0-1000	0.56	0.00	1.25	1.81	0.25	0.00	2.37	2.62	0.81	0.00	3.62	4.43
1-2000	0.56	0.00	0.00	0.56	0.25	0.00	0.25	0.50	0.81	0.00	0.25	1.06
2-3000	0.56	0.00	0.00	0.56	0.25	0.00	0.00	0.25	0.81	0.00	0.00	0.81
number 2 1/2												
0-1000	0.00	0.00	0.00	0.00	0.00	0.00	1.28	1.28	0.00	0.00	1.28	1.28
number 3												
0-1000	0.31	0.36	0.04	0.71	0.07	0.34	0.29	0.70	0.38	0.70	0.33	1.41
1-2000	0.31	0.36	0.00	0.67	0.07	0.34	0.69	1.10	0.38	0.70	0.69	1.77
2-3000	0.31	0.36	0.00	0.67	0.07	0.34	0.00	0.41	0.38	0.70	0.00	1.08
number 4												
0-1000	0.09	0.45	0.00	0.54	0.04	0.17	0.00	0.21	0.13	0.62	0.00	0.75
1-2000	0.09	0.45	0.00	0.54	0.04	0.17	0.00	0.21	0.13	0.62	0.00	0.75
2-3000	0.09	0.45	0.00	0.54	0.04	0.17	0.00	0.21	0.13	0.62	0.00	0.75
number 4 1/2												
0-1000	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.99	0.00	0.99	0.00	0.99
1-2000	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.65	0.00	0.65	0.00	0.65
number 5												
0-1000	0.18	0.38	0.00	0.56	0.08	0.29	2.32	2.69	0.26	0.67	2.32	3.25
1-2000	0.18	0.38	0.00	0.56	0.08	0.29	1.69	2.06	0.26	0.67	1.69	2.62
2-3000	0.18	0.38	0.00	0.56	0.08	0.29	0.00	0.37	0.26	0.67	0.00	0.93
number 6												
0-1000	1.03	0.47	1.17	2.67	0.80	0.00	1.96	2.76	1.83	0.47	3.13	5.43
1-2000	1.03	0.47	1.17	2.67	0.80	0.00	3.27	4.07	1.83	0.47	4.44	6.74
2-3000	1.03	0.47	1.17	2.67	0.80	0.00	1.09	1.89	1.83	0.47	2.26	4.56
number 7												
0-1000	0.00	0.00	2.67	2.67	0.00	0.00	1.22	1.22	0.00	0.00	3.89	3.89
1-2000	0.00	0.00	2.67	2.67	0.00	0.00	2.03	2.03	0.00	0.00	4.70	4.70
2-3000	0.00	0.00	2.67	2.67	0.00	0.00	2.03	2.03	0.00	0.00	4.70	4.70
number 8												
0-1000	0.00	0.00	2.88	2.88	0.00	0.00	1.00	1.00	0.00	0.00	3.88	3.88
1-2000	0.00	0.00	3.07	3.07	0.00	0.00	2.12	2.12	0.00	0.00	5.19	5.19
2-3000	0.00	0.00	3.07	3.07	0.00	0.00	2.12	2.12	0.00	0.00	5.19	5.19
snell												
0-1000	0.37	0.00	0.00	0.37	0.24	0.00	0.00	0.24	0.61	0.00	0.00	0.61
1-2000	0.37	0.00	0.00	0.37	0.24	0.00	0.00	0.24	0.61	0.00	0.00	0.61
2-3000	0.37	0.00	0.00	0.37	0.24	0.00	0.00	0.24	0.61	0.00	0.00	0.61
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	0.00	0.55	0.33	0.88	0.00	0.55	0.33	0.88
1-2000	0.00	0.00	0.00	0.00	0.00	0.55	0.33	0.88	0.00	0.55	0.33	0.88
2-3000	0.00	0.00	0.00	0.00	0.00	0.55	0.33	0.88	0.00	0.55	0.33	0.88
wilkeson number 1												
0-1000	1.73	1.84	0.00	3.57	2.88	1.67	0.00	4.55	4.61	3.51	0.00	8.12
1-2000	0.00	0.98	0.00	0.98	4.19	0.63	0.00	4.82	4.19	1.61	0.00	5.80
2-3000	0.00	0.16	0.00	0.16	0.00	0.91	0.00	0.91	0.00	1.07	0.00	1.07
wilkeson number 2												
0-1000	0.00	0.00	10.63	10.63	0.00	0.00	4.24	4.24	0.00	0.00	14.87	14.87
1-2000	0.00	0.00	2.78	2.78	0.00	0.00	14.79	14.79	0.00	0.00	17.57	17.57
2-3000	0.00	0.00	0.14	0.14	0.00	0.00	8.59	8.59	0.00	0.00	8.73	8.73
wilkeson number 3												
0-1000	0.00	0.00	12.51	12.51	0.00	0.00	5.51	5.51	0.00	0.00	18.02	18.02
1-2000	0.00	0.00	11.94	11.94	0.00	0.00	11.99	11.99	0.00	0.00	23.93	23.93
2-3000	0.00	0.00	0.20	0.20	0.00	0.00	12.78	12.78	0.00	0.00	12.98	12.98
wilkeson number 4												
0-1000	0.00	4.61	1.27	5.88	0.00	4.50	2.20	6.70	0.00	9.11	3.47	12.58
1-2000	0.00	0.00	0.81	0.81	0.00	7.75	1.84	9.59	0.00	7.75	2.65	10.40
2-3000	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.72	0.00	0.72	0.00	0.72

wilkeson number 5												
0-1000	0.00	2.00	5.87	7.87	0.00	0.98	4.22	5.20	0.00	2.98	10.09	13.07
1-2000	0.00	0.95	0.31	1.26	0.00	1.94	4.26	6.20	0.00	2.89	4.57	7.46
2-3000	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.15	0.00	0.15	0.00	0.15
wilkeson number 7												
0-1000	0.00	0.00	3.10	3.10	0.00	0.00	15.36	15.36	0.00	0.00	18.46	18.46
1-2000	0.00	0.00	2.14	2.14	0.00	0.00	15.08	15.08	0.00	0.00	17.22	17.22
2-3000	0.00	0.00	0.00	0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.95	2.95
county total =	14.66	25.50	92.51	132.67	16.61	36.80	175.87	229.28	31.27	62.30	268.32	361.95
skagit county												
bit												
uncorrelated												
unclass	26.09	10.33	54.07	90.49	121.55	29.07	265.85	416.47	147.64	39.40	319.92	506.96
county total =	26.09	10.33	54.07	90.49	121.55	29.07	265.85	416.47	147.64	39.40	319.92	506.96
whatcom county												
bit												
bellingham number 1												
0-1000	0.00	0.00	33.96	33.96	0.00	0.00	22.97	22.97	0.00	0.00	56.95	56.93
bellingham number 2												
0-1000	14.13	0.00	0.00	14.13	6.35	0.00	0.00	6.35	20.48	0.00	0.00	20.48
blue canyon												
0-1000	2.44	2.87	2.85	8.16	3.12	3.75	0.99	7.86	5.56	6.62	3.84	16.02
1-2000	2.82	2.18	3.29	8.29	3.86	4.49	1.32	9.67	6.68	6.67	4.61	17.96
2-3000	1.50	2.03	1.75	5.28	5.07	4.69	2.41	12.17	6.57	6.72	4.16	17.45
lake whatcom												
0-1000	1.32	7.13	9.67	18.12	2.55	10.73	18.92	32.20	3.87	17.86	28.59	50.32
1-2000	0.55	3.32	3.39	7.26	1.47	11.50	22.26	35.23	2.02	14.82	25.65	42.49
2-3000	0.06	1.56	0.36	1.98	0.17	7.52	10.69	18.38	0.23	9.08	11.05	20.36
uncorrelated												
0-1000	0.44	12.26	1.64	14.34	4.74	29.34	16.74	50.82	5.18	41.60	18.33	65.16
1-2000	0.44	1.16	1.64	3.24	1.24	0.90	1.09	3.23	1.68	2.06	2.73	6.47
2-3000	0.44	1.16	1.64	3.24	1.20	0.90	1.09	3.19	1.64	2.06	2.73	6.43
county total =	24.14	33.67	60.19	118.00	29.77	73.82	98.48	202.07	53.91	107.49	158.67	320.07
overburden subtotal												
0-1000	37.50	51.93	199.26	288.69	60.44	123.71	255.99	440.14	97.94	175.64	455.25	728.83
1-2000	8.12	18.61	78.19	104.92	16.31	78.52	204.41	299.24	24.43	97.13	282.60	404.16
2-3000	6.31	11.01	29.95	47.27	9.62	36.44	135.30	181.36	15.93	47.45	165.25	228.63
unclass	26.09	10.33	54.07	90.49	121.55	29.07	265.85	416.47	147.64	39.40	319.92	506.96
total =	78.02	91.88	361.47	531.37	207.92	267.74	861.55	1337.21	285.94	359.62	1223.02	1868.58
overburden total												
0-1000	37.50	51.93	199.26	288.69	60.44	123.71	255.99	440.14	97.94	175.64	455.25	728.83
1-2000	8.12	18.61	78.19	104.92	16.31	78.52	204.41	299.24	24.43	97.13	282.60	404.16
2-3000	6.31	11.01	29.95	47.27	9.62	36.44	135.30	181.36	15.93	47.45	165.25	228.63
unclass	26.09	10.33	54.07	90.49	121.55	29.07	265.85	416.47	147.64	39.40	319.92	506.96

grand total =	78.02	91.88	361.47	531.37	207.92	267.74	861.55	1337.21	285.94	359.62	1223.02	1868.58
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total tonnage of identified coal resources in washington 1868.58

resource figures taken from:

source	year	base year of resource
wash dag bull 47	1961	1960

average analyses of coal in washington

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(1)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
king county														
bit														
bagley	12.6	40.4	43.5	16.1	4.9	64.7	1.4	13.3	1.1	11356	2810	6		
bagley & may creek	13.3	39.4	44.1	16.5	0.0	0.0	0.0	0.0	0.5	11428	2640	6		
carbon	4.6	34.0	49.6	16.4	5.3	71.5	1.9	6.7	0.7	12436		3		
dale	12.8	38.7	48.4	12.9	0.0	0.0	0.0	0.0	0.7	11540	2620	2		
dale number 4	16.1	38.9	49.8	11.3	5.2	66.7	2.0	14.3	0.6	11743	2210	3		
dale number 7	15.3	38.8	51.1	10.1	5.2	67.5	2.0	14.4	0.7	11970	2495	2		
discovery	10.1	38.1	41.6	20.3	4.8	61.1	1.7	11.5	0.6	10890		1		
dolly varden	13.9	39.8	47.5	12.7	5.4	66.8	1.6	12.8	0.7	11990		1		
elk number 1	6.2	34.4	48.0	17.5	5.1	68.7	1.3	8.3	0.6	12008	2555	5		
elk number 2	4.4	34.9	49.9	15.2	5.1	69.0	1.5	8.6	0.6	12390	2460	1		
frazier	15.2	38.9	49.2	11.9	5.5	68.3	2.1	12.8	0.7	11725	2613	4		
jones	10.8	39.7	47.0	13.3	5.3	65.0	1.8	12.2	0.5	11956	2543	24		
mckay	8.8	42.5	50.6	7.0	5.4	72.5	1.9	12.8	0.7	13059	2348	26		
muldoon	13.8	39.0	47.3	13.8	5.1	65.7	1.6	13.3	0.6	11620		4		
navy number 6	5.0	36.4	47.3	16.4	5.3	67.8	1.8	8.1	0.7	12265		2		
number 1	12.9	35.7	48.8	15.5	4.8	67.0	1.5	12.0	0.6	11533	2910	11		
number 2	9.6	37.6	46.2	16.2	5.0	65.4	1.4	11.4	0.7	11710	2590	9		
number 3	13.2	38.5	48.9	12.6	5.0	67.3	1.5	13.6	0.8	12031	2630	18		
number 4	10.9	35.8	48.9	15.3	5.1	67.8	1.6	11.4	0.9	11661	2655	8		
number 5	7.5	34.7	47.7	17.6	4.8	65.7	1.6	10.4	0.9	11738	2910	8		
number 6	5.5	35.8	45.5	18.7	5.0	68.9	1.5	9.8	0.8	11763		3		
number 7	10.7	34.6	37.6	27.8	0.0	0.0	0.0	0.0	0.4	9940	2640	2		
numbers 1 & 2	18.0	40.8	42.0	17.2	0.0	0.0	0.0	0.0	0.5	11080		1		
occidental no 1	5.1	36.3	50.1	13.6	5.1	69.9	1.2	9.4	0.8	12610		1		
occidental no 14	4.0	36.6	50.8	12.6	5.3	70.3	1.8	9.5	0.5	12850		1		
occidental no 2	5.4	34.9	49.8	15.3	4.9	67.7	1.4	10.0	0.7	12240		1		
occidental no 3	4.6	37.1	50.4	12.5	5.2	70.5	1.2	9.5	1.0	12835		4		
occidental no 6	5.6	33.7	43.2	23.1	4.5	63.4	1.4	7.1	0.5	11020		1		
pocahontas	4.6	32.5	54.7	12.8	5.0	73.4	1.1	6.9	0.8	13340		1		
ravensdale no 3	9.4	40.1	49.8	10.1	5.1	70.8	1.6	11.6	0.7	12655		2		
ravensdale no 4	7.4	40.4	47.5	12.1	5.2	69.0	1.6	11.5	0.6	12420		1		
ravensdale no 5	9.1	39.8	44.3	15.9	4.8	64.8	1.7	12.0	0.7	11677		4		
ravensdale no 9	7.3	43.5	50.2	6.3	5.5	73.7	1.9	11.9	0.7	13350		1		
sunbeam	14.8	42.6	49.4	8.0	5.5	69.8	1.5	14.0	1.2	12730		1		
unrelated	10.3	37.7	46.8	15.5	5.0	65.5	1.4	11.2	0.8	11806	2563	70		
various	12.4	39.1	44.0	16.9	5.2	68.0	1.6	8.8	0.7	11287	2695	23		
county average	10.5	38.4	47.3	14.3	5.1	67.4	1.6	11.7	0.7	11909	2577	261		
kittitas county														
bit														
big dirty	4.1	36.1	45.0	18.9	5.3	70.1	1.7	8.3	0.3	11862	2683	7		
number 1	7.6	38.3	48.3	13.4	5.3	68.6	1.5	10.8	0.4	12230	2320	1		
number 3	3.3	34.5	51.0	14.4	5.3	69.7	1.8	8.3	0.5	12525	2585	2		

number 6	4.2	33.9	52.3	13.8	0.0	0.0	0.0	0.0	0.5	12900	2360	1
number 7	10.4	33.9	40.6	25.5	0.0	0.0	0.0	0.0	1.3	10020	2760	1
plant number 6	5.4	36.2	47.0	16.8	5.5	67.4	1.5	8.4	0.4	12240	2550	1
roslyn 5 & big dirty	4.8	39.5	47.5	13.0	0.0	0.0	0.0	0.0	0.4	12860		1
roslyn number 5	3.8	38.2	47.5	14.3	5.4	71.0	1.5	8.9	0.4	12698	2333	83
roslyn number 8	4.6	31.8	43.8	24.4	4.8	65.3	1.4	6.5	0.4	11360	2766	3
uncorrelated	6.7	35.2	45.7	19.2	4.7	64.3	1.2	6.9	0.8	11650	2403	6
various	3.0	39.0	45.8	15.2	0.0	0.0	0.0	0.0	0.4	12530	2460	1

county average	4.1	37.6	47.2	15.3	5.3	70.1	1.5	8.7	0.4	12512	2447	107

lewis county												

bit												
ladd number 3	9.1	30.6	36.5	32.9	0.0	0.0	0.0	0.0	0.7	8860		1
number 1	7.7	12.7	58.6	28.7	3.0	62.5	1.0	3.6	1.2	10560	2710	1
number 2	4.3	27.9	53.9	18.2	4.6	69.3	1.4	5.3	1.2	12140	2240	2
number 3	6.4	36.2	41.3	22.6	4.6	59.5	1.5	9.9	0.7	10815	2543	4
number 4	7.5	36.5	38.3	25.3	0.0	0.0	0.0	0.0	0.9	10315		2
number 5	9.3	15.9	33.8	50.3	2.2	38.7	0.9	7.2	0.7	6320	2530	1
uncorrelated	12.0	33.9	47.8	18.3	4.9	62.4	1.3	13.4	1.0	11313	2646	9

county average	9.1	31.9	45.4	22.7	4.2	59.6	1.2	9.5	0.9	10786	2576	20

pierce county												

bit												
blacksmith	3.3	21.7	65.1	13.2	4.7	75.7	2.0	3.7	0.7	13510	2240	1
crocker	12.4	40.6	45.6	13.8	5.1	65.4	1.8	13.2	0.7	11820	2380	1
morgan number 7	2.2	30.8	49.2	20.1	4.7	67.1	2.0	5.8	0.5	12095	2725	2
nisqually	5.8	16.2	58.1	25.7	0.0	0.0	0.0	0.0	0.4	11050	2650	1
number 1	3.9	28.5	58.3	13.2	5.0	72.2	2.1	5.2	1.4	13315	2434	7
number 10	4.5	34.9	46.1	19.0	5.2	64.5	1.8	9.1	0.4	11680	2900	1
number 11	4.5	29.8	49.8	20.4	4.6	65.3	1.9	7.4	0.4	11800	2740	1
number 2	3.9	27.4	57.7	14.9	4.8	74.5	2.1	4.8	0.8	13027	2592	13
number 3	3.3	29.3	56.0	14.6	4.9	73.7	2.0	5.2	0.4	13029	2547	17
number 4	3.2	31.5	54.9	13.6	5.2	73.1	2.0	5.5	0.6	13125	2445	8
number 5	3.3	26.1	59.8	14.1	4.9	73.1	2.3	5.1	0.6	12975	2890	2
number 7	3.6	22.8	58.5	18.7	4.5	70.4	2.0	3.9	0.5	12540	2596	3
number 8	2.9	32.3	53.6	14.1	5.1	72.3	2.3	5.8	0.6	12950	2530	2
numbers 2 & 3	3.3	38.0	48.4	13.6	0.0	0.0	0.0	0.0	0.4	12950		1
uncorrelated	4.4	31.0	52.0	16.9	4.9	68.1	1.9	6.8	1.1	12543	2496	32
wilkeson number 1	4.0	35.8	48.9	15.3	5.3	70.2	2.0	6.8	0.4	12760		1

county average	3.9	29.7	54.6	15.7	4.9	71.3	2.0	5.8	0.8	12792	2531	93

thurston county												

bit												
bagley	20.4	40.9	48.1	11.0	0.0	0.0	0.0	0.0	0.5	11630	2200	1
black bear	17.9	33.9	35.7	30.4	4.3	47.7	0.8	13.6	3.2	8600	2600	1
uncorrelated	16.3	39.5	38.9	21.5	4.3	54.9	0.9	12.9	3.7	10275	2267	7

county average	16.9	39.0	39.6	21.4	4.3	52.5	0.9	13.2	3.3	10240	2296	9

whatcom county												

bit												
bellingham no 1	7.2	38.2	44.7	17.1	4.8	64.7	1.2	13.1	0.4	11253	2451	29
uncorrelated	10.7	14.6	77.0	8.4	0.0	0.0	0.0	0.0	1.1	13330	2440	1
county average	7.3	37.4	45.7	16.8	4.8	64.7	1.2	13.1	0.4	11322	2450	30

WASHINGTON

state.	county	bed	moistur	volmat	fixedc	ash	sulfur	wtu	hgilo	fsilo
washington	king	uncorrelated	8.5	41.4	45.6	13.0	0.6	12600	0	1.0

National Coal Resources Data System

U.S. Geological Survey

identified coal resources in west virginia

(In millions of short tons)

rank	measured and indicated (inches)				inferred (inches)				total (inches)			
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total
overburden												
brooke county												
bit												
pittsburgh												
0-2000	0.00	0.00	179.17	179.17	0.00	0.00	0.00	0.00	0.00	0.00	179.17	179.17
washington												
0-2000	0.72	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.72
waynesburg												
0-2000	0.34	9.02	2.13	11.49	0.00	0.00	0.00	0.00	0.34	9.02	2.13	11.49
county total =	1.06	9.02	181.30	191.38	0.00	0.00	0.00	0.00	1.06	9.02	181.30	191.38
greenbrier county												
bit												
beckley												
0-1000	0.00	27.24	2.10	29.34	0.00	7.81	0.00	7.81	0.00	35.05	2.10	37.15
fire creek												
0-1000	0.00	13.72	25.97	39.69	0.00	30.16	17.66	47.82	0.00	43.88	43.63	87.51
little raleigh												
0-1000	0.00	16.45	9.96	26.41	0.00	24.78	7.26	32.04	0.00	41.23	17.22	58.45
pocahontas no 6												
0-1000	0.00	56.29	35.62	91.91	0.00	50.61	2.68	53.29	0.00	106.90	38.30	145.20
sewell												
0-1000	0.00	54.04	134.68	188.72	0.00	11.69	6.48	18.17	0.00	65.73	141.15	206.89
county total =	0.00	167.74	208.33	376.07	0.00	125.05	34.08	159.13	0.00	292.79	242.41	535.20
logan county												
bit												
alma												
0-2000	149.69	385.51	352.95	888.15	0.00	0.00	0.00	0.00	149.69	385.51	352.95	888.15
buffalo creek												
0-2000	85.72	53.75	25.10	164.57	0.00	0.00	0.00	0.00	85.72	53.75	25.10	164.57
campbell creek												
0-2000	100.50	574.92	264.88	940.30	0.00	0.00	0.00	0.00	100.50	574.92	264.88	940.30
cedar grove												
0-2000	77.57	180.39	477.14	735.10	0.00	0.00	0.00	0.00	77.57	180.39	477.14	735.10
cedar grove up split												
0-2000	125.33	66.47	33.94	225.74	0.00	0.00	0.00	0.00	125.33	66.47	33.94	225.74
chilton												
0-2000	86.32	147.60	171.32	405.24	0.00	0.00	0.00	0.00	86.32	147.60	171.32	405.24
chilton a												
0-2000	142.85	0.05	0.00	142.90	0.00	0.00	0.00	0.00	142.85	0.05	0.00	142.90

coalburg													
0-2000	98.88	105.25	146.46	350.59	0.00	0.00	0.00	0.00	98.88	105.25	146.46	350.59	
hernshaw													
0-2000	146.25	79.81	33.28	259.34	0.00	0.00	0.00	0.00	146.25	79.81	33.28	259.34	
lower cedar grove													
0-2000	65.25	130.77	25.26	221.28	0.00	0.00	0.00	0.00	65.25	130.77	25.26	221.28	
no 5 block													
0-2000	5.05	19.21	159.84	184.10	0.00	0.00	0.00	0.00	5.05	19.21	159.84	184.10	
stockton-lewiston													
0-2000	30.22	72.29	106.83	209.34	0.00	0.00	0.00	0.00	30.22	72.29	106.83	209.34	
upper cedar grove													
0-2000	34.97	41.72	2.49	79.18	0.00	0.00	0.00	0.00	34.97	41.72	2.49	79.18	
williamson													
0-2000	175.62	132.54	10.07	318.23	0.00	0.00	0.00	0.00	175.62	132.54	10.07	318.23	
winifrede													
0-2000	147.41	95.74	43.48	286.63	0.00	0.00	0.00	0.00	147.41	95.74	43.48	286.63	
county total =	1471.63	2086.02	1853.04	5410.69	0.00	0.00	0.00	0.00	1471.63	2086.02	1853.04	5410.69	

marion

county

bit

lower kittanning													
0-2000	0.00	0.51	205.07	205.58	0.00	0.00	0.00	0.00	0.00	0.51	205.07	205.58	
pittsburgh													
0-2000	0.92	2.84	1311.94	1315.70	0.00	0.00	0.00	0.00	0.92	2.84	1311.94	1315.70	
redstone													
0-2000	30.91	1.56	0.00	32.47	0.00	0.00	0.00	0.00	30.91	1.56	0.00	32.47	
sewickley													
0-2000	16.39	47.16	964.42	1027.97	0.00	0.00	0.00	0.00	16.39	47.16	964.42	1027.97	
upper freeport													
0-2000	0.24	30.29	10.73	41.26	0.00	0.00	0.00	0.00	0.24	30.29	10.73	41.26	
upper kittanning													
0-2000	0.81	8.37	19.34	28.52	0.00	0.00	0.00	0.00	0.81	8.37	19.34	28.52	
washington													
0-2000	43.43	13.03	12.01	68.47	0.00	0.00	0.00	0.00	43.43	13.03	12.01	68.47	
waynesburg													
0-2000	65.48	127.98	227.68	421.14	0.00	0.00	0.00	0.00	65.48	127.98	227.68	421.14	
county total =	158.18	231.74	2751.19	3141.11	0.00	0.00	0.00	0.00	158.18	231.74	2751.19	3141.11	

marshall

county

bit

pittsburgh													
0-2000	0.00	0.57	2006.63	2007.20	0.00	0.00	0.00	0.00	0.00	0.57	2006.63	2007.20	
sewickley													
0-2000	10.42	139.03	776.80	926.25	0.00	0.00	0.00	0.00	10.42	139.03	776.80	926.25	
washington													
0-2000	17.93	1.38	3.73	23.04	0.00	0.00	0.00	0.00	17.93	1.38	3.73	23.04	
waynesburg													
0-2000	58.65	90.85	51.63	201.13	0.00	0.00	0.00	0.00	58.65	90.85	51.63	201.13	
county total =	87.00	231.83	2838.79	3157.62	0.00	0.00	0.00	0.00	87.00	231.83	2838.79	3157.62	

mcdowell

county

bit

beckley													
0-2000	26.33	98.63	64.35	189.31	0.00	0.00	0.00	0.00	26.33	98.63	64.35	189.31	

douglas													
eagle	0-2000	17.70	33.00	1.77	52.47	0.00	0.00	0.00	0.00	17.70	33.00	1.77	52.47
fire creek	0-2000	0.00	8.25	34.95	43.20	0.00	0.00	0.00	0.00	0.00	8.25	34.95	43.20
gilbert	0-2000	60.21	58.63	2.93	121.77	0.00	0.00	0.00	0.00	60.21	58.63	2.93	121.77
jaeger	0-2000	1.14	16.48	0.00	17.62	0.00	0.00	0.00	0.00	1.14	16.48	0.00	17.62
little fire creek	0-2000	14.44	42.69	19.86	76.99	0.00	0.00	0.00	0.00	14.44	42.69	19.86	76.99
little raleigh	0-2000	19.94	8.68	3.34	31.96	0.00	0.00	0.00	0.00	19.94	8.68	3.34	31.96
lower douglas	0-2000	0.10	1.26	0.02	1.38	0.00	0.00	0.00	0.00	0.10	1.26	0.02	1.38
pocahontas no 2	0-2000	22.95	23.82	0.00	46.77	0.00	0.00	0.00	0.00	22.95	23.82	0.00	46.77
pocahontas no 3	0-2000	10.34	0.41	0.00	10.75	0.00	0.00	0.00	0.00	10.34	0.41	0.00	10.75
pocahontas no 4	0-2000	73.93	118.55	421.16	613.64	0.00	0.00	0.00	0.00	73.93	118.55	421.16	613.64
pocahontas no 5	0-2000	49.25	75.56	449.61	574.42	0.00	0.00	0.00	0.00	49.25	75.56	449.61	574.42
pocahontas no 6	0-2000	5.49	8.43	26.95	40.87	0.00	0.00	0.00	0.00	5.49	8.43	26.95	40.87
pocahontas no 7	0-2000	8.10	17.42	6.92	32.44	0.00	0.00	0.00	0.00	8.10	17.42	6.92	32.44
pocahontas no 9	0-2000	0.31	0.13	0.00	0.44	0.00	0.00	0.00	0.00	0.31	0.13	0.00	0.44
sewell	0-2000	10.67	22.66	3.68	37.01	0.00	0.00	0.00	0.00	10.67	22.66	3.68	37.01
welch	0-2000	84.45	94.71	28.50	207.66	0.00	0.00	0.00	0.00	84.45	94.71	28.50	207.66
	0-2000	80.22	32.34	5.64	118.20	0.00	0.00	0.00	0.00	80.22	32.34	5.64	118.20
county total =		485.57	661.65	1069.68	2216.90	0.00	0.00	0.00	0.00	485.57	661.65	1069.68	2216.90
mercer county													
bit													
beckley	0-2000	0.31	1.32	0.01	1.64	0.00	0.00	0.00	0.00	0.31	1.32	0.01	1.64
fire creek	0-2000	0.81	4.14	0.69	5.64	0.00	0.00	0.00	0.00	0.81	4.14	0.69	5.64
little raleigh	0-2000	0.93	1.14	0.00	2.07	0.00	0.00	0.00	0.00	0.93	1.14	0.00	2.07
pocahontas no 2	0-2000	93.95	2.42	0.23	96.60	0.00	0.00	0.00	0.00	93.95	2.42	0.23	96.60
pocahontas no 3	0-2000	2.79	7.83	29.49	40.11	0.00	0.00	0.00	0.00	2.79	7.83	29.49	40.11
pocahontas no 6	0-2000	6.09	17.03	9.50	32.62	0.00	0.00	0.00	0.00	6.09	17.03	9.50	32.62
pocahontas no 9	0-2000	2.71	4.19	1.17	8.07	0.00	0.00	0.00	0.00	2.71	4.19	1.17	8.07
sewell	0-2000	0.45	0.00	0.60	1.05	0.00	0.00	0.00	0.00	0.45	0.00	0.60	1.05
county total =		108.04	38.07	41.69	187.80	0.00	0.00	0.00	0.00	108.04	38.07	41.69	187.80
mingo county													

bit													
alma													
0-2000	149.26	222.02	168.27	539.55	0.00	0.00	0.00	0.00	149.26	222.02	168.27	539.55	
bens creek													
0-2000	8.52	34.92	0.00	43.44	0.00	0.00	0.00	0.00	8.52	34.92	0.00	43.44	
buffalo creek													
0-2000	15.33	31.66	27.23	74.22	0.00	0.00	0.00	0.00	15.33	31.66	27.23	74.22	
campbell creek													
0-2000	36.24	69.09	92.87	198.20	0.00	0.00	0.00	0.00	36.24	69.09	92.87	198.20	
cedar grove													
0-2000	41.35	78.81	457.30	577.46	0.00	0.00	0.00	0.00	41.35	78.81	457.30	577.46	
cedar grove up split													
0-2000	22.17	50.54	14.71	87.42	0.00	0.00	0.00	0.00	22.17	50.54	14.71	87.42	
chilton													
0-2000	26.16	49.79	71.28	147.23	0.00	0.00	0.00	0.00	26.16	49.79	71.28	147.23	
chilton a													
0-2000	32.93	30.12	20.22	83.27	0.00	0.00	0.00	0.00	32.93	30.12	20.22	83.27	
coalburg													
0-2000	9.37	11.88	374.79	396.04	0.00	0.00	0.00	0.00	9.37	11.88	374.79	396.04	
eagle													
0-2000	3.03	38.62	30.32	71.97	0.00	0.00	0.00	0.00	3.03	38.62	30.32	71.97	
hernshaw													
0-2000	21.10	16.16	3.57	40.83	0.00	0.00	0.00	0.00	21.10	16.16	3.57	40.83	
little coalburg													
0-2000	3.85	3.74	3.68	11.27	0.00	0.00	0.00	0.00	3.85	3.74	3.68	11.27	
lower cedar grove													
0-2000	25.34	42.36	54.52	122.22	0.00	0.00	0.00	0.00	25.34	42.36	54.52	122.22	
lower war eagle													
0-2000	19.20	8.62	0.00	27.82	0.00	0.00	0.00	0.00	19.20	8.62	0.00	27.82	
no 5 block													
0-2000	0.61	2.30	3.89	6.80	0.00	0.00	0.00	0.00	0.61	2.30	3.89	6.80	
stockton-lewiston													
0-2000	3.88	15.78	57.57	77.23	0.00	0.00	0.00	0.00	3.88	15.78	57.57	77.23	
upper cedar grove													
0-2000	89.16	105.22	56.62	251.00	0.00	0.00	0.00	0.00	89.16	105.22	56.62	251.00	
williamson													
0-2000	89.53	96.99	39.82	226.34	0.00	0.00	0.00	0.00	89.53	96.99	39.82	226.34	
winifrede													
0-2000	14.18	6.13	4.86	25.17	0.00	0.00	0.00	0.00	14.18	6.13	4.86	25.17	
county total =	611.21	914.75	1481.52	3007.48	0.00	0.00	0.00	0.00	611.21	914.75	1481.52	3007.48	

monongalia

county

bit													
lower kittanning													
0-2000	0.00	26.81	12.77	39.58	0.00	0.00	0.00	0.00	0.00	26.81	12.77	39.58	
pittsburgh													
0-2000	0.00	0.00	1512.43	1512.43	0.00	0.00	0.00	0.00	0.00	0.00	1512.43	1512.43	
redstone													
0-2000	138.27	13.94	59.62	211.83	0.00	0.00	0.00	0.00	138.27	13.94	59.62	211.83	
sewickley													
0-2000	6.99	23.37	865.79	896.15	0.00	0.00	0.00	0.00	6.99	23.37	865.79	896.15	
upper freeport													
0-2000	16.54	68.96	81.65	167.15	0.00	0.00	0.00	0.00	16.54	68.96	81.65	167.15	
upper kittanning													
0-2000	0.00	8.76	6.95	15.71	0.00	0.00	0.00	0.00	0.00	8.76	6.95	15.71	
washington													
0-2000	45.87	21.17	23.80	90.84	0.00	0.00	0.00	0.00	45.87	21.17	23.80	90.84	

waynesburg 0-2000		24.34	49.93	517.76	592.03	0.00	0.00	0.00	0.00	24.34	49.93	517.76	592.03
county total =		232.01	212.94	3080.77	3525.72	0.00	0.00	0.00	0.00	232.01	212.94	3080.77	3525.72

ohio						county							

bit													
pittsburgh 0-2000		0.00	0.00	343.29	343.29	0.00	0.00	0.00	0.00	0.00	0.00	343.29	343.29
waynesburg 0-2000		8.79	12.42	0.75	21.96	0.00	0.00	0.00	0.00	8.79	12.42	0.75	21.96
county total =		8.79	12.42	344.04	365.25	0.00	0.00	0.00	0.00	8.79	12.42	344.04	365.25

raleigh						county							

bit													
alma 0-2000		0.00	4.67	36.68	41.35	0.00	0.00	0.00	0.00	0.00	4.67	36.68	41.35
beckley 0-2000		65.54	148.59	306.58	520.71	0.00	0.00	0.00	0.00	65.54	148.59	306.58	520.71
campbell creek 0-2000		3.97	50.53	267.87	322.37	0.00	0.00	0.00	0.00	3.97	50.53	267.87	322.37
coalburg 0-2000		0.00	4.08	3.23	7.31	0.00	0.00	0.00	0.00	0.00	4.08	3.23	7.31
eagle 0-2000		4.37	15.60	248.80	268.77	0.00	0.00	0.00	0.00	4.37	15.60	248.80	268.77
fire creek 0-2000		57.44	42.33	42.79	142.56	0.00	0.00	0.00	0.00	57.44	42.33	42.79	142.56
gilbert 0-2000		7.79	17.74	0.00	25.53	0.00	0.00	0.00	0.00	7.79	17.74	0.00	25.53
hernshaw 0-2000		7.31	16.23	18.57	42.11	0.00	0.00	0.00	0.00	7.31	16.23	18.57	42.11
little eagle 0-2000		0.79	1.90	57.31	60.00	0.00	0.00	0.00	0.00	0.79	1.90	57.31	60.00
lower hernshaw 0-2000		4.69	9.06	5.75	19.50	0.00	0.00	0.00	0.00	4.69	9.06	5.75	19.50
lower war eagle 0-2000		3.79	9.70	31.99	45.48	0.00	0.00	0.00	0.00	3.79	9.70	31.99	45.48
lower winifrede 0-2000		0.00	0.00	9.63	9.63	0.00	0.00	0.00	0.00	0.00	0.00	9.63	9.63
no 5 block 0-2000		0.00	0.00	13.51	13.51	0.00	0.00	0.00	0.00	0.00	0.00	13.51	13.51
pocahontas no 2 0-2000		30.30	7.26	0.00	37.56	0.00	0.00	0.00	0.00	30.30	7.26	0.00	37.56
pocahontas no 3 0-2000		19.22	203.20	118.52	340.94	0.00	0.00	0.00	0.00	19.22	203.20	118.52	340.94
pocahontas no 4 0-2000		27.24	95.50	70.19	192.93	0.00	0.00	0.00	0.00	27.24	95.50	70.19	192.93
pocahontas no 6 0-2000		15.52	17.31	4.38	37.21	0.00	0.00	0.00	0.00	15.52	17.31	4.38	37.21
powellton 0-2000		30.72	51.61	19.75	102.08	0.00	0.00	0.00	0.00	30.72	51.61	19.75	102.08
sewell 0-2000		11.24	28.97	75.88	116.09	0.00	0.00	0.00	0.00	11.24	28.97	75.88	116.09
stockton-lewiston 0-2000		0.16	0.00	7.15	7.31	0.00	0.00	0.00	0.00	0.16	0.00	7.15	7.31
upper cedar grove 0-2000		0.00	3.24	1.39	4.63	0.00	0.00	0.00	0.00	0.00	3.24	1.39	4.63

upper eagle 0-2000	3.26	45.81	41.76	90.83	0.00	0.00	0.00	0.00	3.26	45.81	41.76	90.83
upper hernshaw 0-2000	1.91	5.32	23.56	30.79	0.00	0.00	0.00	0.00	1.91	5.32	23.56	30.79
upper no 5 block 0-2000	0.00	0.08	0.89	0.97	0.00	0.00	0.00	0.00	0.00	0.08	0.89	0.97
upper powellton 0-2000	0.00	2.26	1.76	4.02	0.00	0.00	0.00	0.00	0.00	2.26	1.76	4.02
winifrede 0-2000	0.00	0.00	48.19	48.19	0.00	0.00	0.00	0.00	0.00	0.00	48.19	48.19
county total =	295.26	780.99	1456.13	2532.38	0.00	0.00	0.00	0.00	295.26	780.99	1456.13	2532.38

		wyoming				county							

bit													
alma	0-2000	8.80	10.66	1.01	20.47	0.00	0.00	0.00	0.00	8.80	10.66	1.01	20.47
alma a	0-2000	4.33	8.93	5.02	18.28	0.00	0.00	0.00	0.00	4.33	8.93	5.02	18.28
beckley	0-2000	75.01	135.78	58.96	269.75	0.00	0.00	0.00	0.00	75.01	135.78	58.96	269.75
bens creek	0-2000	2.64	4.84	0.00	7.48	0.00	0.00	0.00	0.00	2.64	4.84	0.00	7.48
buffalo creek	0-2000	0.53	0.00	9.32	9.85	0.00	0.00	0.00	0.00	0.53	0.00	9.32	9.85
campbell creek	0-2000	1.10	40.77	51.55	93.42	0.00	0.00	0.00	0.00	1.10	40.77	51.55	93.42
cedar grove	0-2000	0.64	14.46	62.76	77.86	0.00	0.00	0.00	0.00	0.64	14.46	62.76	77.86
chilton	0-2000	0.72	10.87	18.20	29.79	0.00	0.00	0.00	0.00	0.72	10.87	18.20	29.79
coalburg	0-2000	1.52	1.14	1.36	4.02	0.00	0.00	0.00	0.00	1.52	1.14	1.36	4.02
douglas	0-2000	20.84	50.68	0.00	71.52	0.00	0.00	0.00	0.00	20.84	50.68	0.00	71.52
eagle	0-2000	36.54	33.71	66.39	136.64	0.00	0.00	0.00	0.00	36.54	33.71	66.39	136.64
fire creek	0-2000	24.32	29.79	10.35	64.46	0.00	0.00	0.00	0.00	24.32	29.79	10.35	64.46
gilbert	0-2000	27.89	41.83	12.51	82.23	0.00	0.00	0.00	0.00	27.89	41.83	12.51	82.23
hernshaw	0-2000	1.41	12.70	4.34	18.45	0.00	0.00	0.00	0.00	1.41	12.70	4.34	18.45
jaeger	0-2000	17.28	5.35	1.21	23.84	0.00	0.00	0.00	0.00	17.28	5.35	1.21	23.84
little chilton	0-2000	0.13	0.83	1.02	1.98	0.00	0.00	0.00	0.00	0.13	0.83	1.02	1.98
little eagle	0-2000	60.21	3.45	4.97	68.63	0.00	0.00	0.00	0.00	60.21	3.45	4.97	68.63
little fire creek	0-2000	0.00	0.00	0.84	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.84
lower cedar grove	0-2000	6.30	5.61	2.35	14.26	0.00	0.00	0.00	0.00	6.30	5.61	2.35	14.26
lower war eagle	0-2000	21.41	16.29	6.16	43.86	0.00	0.00	0.00	0.00	21.41	16.29	6.16	43.86
no 5 block	0-2000	0.00	0.00	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	2.89	2.89
pocahontas no 2	0-2000	50.93	0.00	0.00	50.93	0.00	0.00	0.00	0.00	50.93	0.00	0.00	50.93

pocahontas no 3													
0-2000	22.62	197.74	626.14	846.50	0.00	0.00	0.00	0.00	22.62	197.74	626.14	846.50	
pocahontas no 4													
0-2000	50.38	90.07	76.23	216.68	0.00	0.00	0.00	0.00	50.38	90.07	76.23	216.68	
pocahontas no 5													
0-2000	0.00	0.60	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.60	
pocahontas no 6													
0-2000	34.90	89.31	74.43	198.64	0.00	0.00	0.00	0.00	34.90	89.31	74.43	198.64	
pocahontas no 7													
0-2000	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	
pocahontas no 9													
0-2000	0.00	5.36	0.28	5.64	0.00	0.00	0.00	0.00	0.00	5.36	0.28	5.64	
sewell													
0-2000	70.05	149.75	22.26	242.06	0.00	0.00	0.00	0.00	70.05	149.75	22.26	242.06	
sewell b													
0-2000	0.00	0.38	0.23	0.61	0.00	0.00	0.00	0.00	0.00	0.38	0.23	0.61	
stockton-lewiston													
0-2000	0.22	1.03	0.21	1.46	0.00	0.00	0.00	0.00	0.22	1.03	0.21	1.46	
upper eagle													
0-2000	0.00	0.04	3.28	3.32	0.00	0.00	0.00	0.00	0.00	0.04	3.28	3.32	
welch													
0-2000	0.40	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.40	
williamson													
0-2000	2.00	7.47	1.36	10.83	0.00	0.00	0.00	0.00	2.00	7.47	1.36	10.83	
winifrede													
0-2000	1.36	3.63	22.15	27.14	0.00	0.00	0.00	0.00	1.36	3.63	22.15	27.14	
=====													
county total =	544.48	973.17	1147.78	2665.43	0.00	0.00	0.00	0.00	544.48	973.17	1147.78	2665.43	
=====													
overburden													
subtotal													
0-1000	0.00	167.74	208.33	376.07	0.00	125.05	34.08	159.13	0.00	292.79	242.41	535.20	
0-2000	4003.23	6152.60	16245.92	26401.75	0.00	0.00	0.00	0.00	4003.23	6152.60	16245.92	26401.75	
=====													
total =	4003.23	6320.34	16454.26	26777.83	0.00	125.05	34.08	159.13	4003.23	6445.39	16488.34	26936.96	
=====													
=====													
overburden													
total													
0-1000	0.00	167.74	208.33	376.07	0.00	125.05	34.08	159.13	0.00	292.79	242.41	535.20	
0-2000	4003.23	6152.60	16245.92	26401.75	0.00	0.00	0.00	0.00	4003.23	6152.60	16245.92	26401.75	
=====													
grand total =	4003.23	6320.34	16454.26	26777.83	0.00	125.05	34.08	159.13	4003.23	6445.39	16488.34	26936.96	
=====													

tonnage not included: 73362.28
because:
thickness = unclassified : 73362.28
reliability = unclassified : 73362.28

total tonnage of identified coal resources in west virginia 100299.24

resource figures taken from:

source year base year of resource

usgs of-grnbrier wva	1972	original
usbm rept inv 5267	1956	1955
usbm rept inv 5207	1956	1954
usbm rept inv 5077	1954	1953
usbm rept inv 5068	1954	1953
usbm rept inv 5233	1956	1954
usbm rept inv 4893	1952	1949
usbm rept inv 4966	1953	1951
usbm rept inv 5160	1955	1954
usbm rept inv 5259	1956	1954
usbm rept inv 4924	1952	1951
usbm rept inv 5171	1955	1954
wvgs volume 13	1940	original

records containing unclassified thickness and/or reliability

state	county	bed	rank	base year	thickness (inches or feet)	overburden (feet)	reliability	tonnage
west	brooke	bakerstown	bit	orig	unclass	unclass	unclass	30.00
west	brooke	mahoning	bit	orig	unclass	unclass	unclass	50.00
west	brooke	lower freeport	bit	orig	unclass	unclass	unclass	50.00
west	brooke	upper kittanning	bit	orig	unclass	unclass	unclass	50.00
west	brooke	no 5 block	bit	orig	unclass	unclass	unclass	50.00
west	logan	eagle	bit	orig	unclass	unclass	unclass	173.96
west	logan	bens creek	bit	orig	unclass	unclass	unclass	42.38
west	logan	lower war eagle	bit	orig	unclass	unclass	unclass	50.18
west	logan	glenalum tunnel	bit	orig	unclass	unclass	unclass	33.45
west	mcdowell	williamson	bit	orig	unclass	unclass	unclass	0.84
west	mcdowell	cedar grove	bit	orig	unclass	unclass	unclass	3.34
west	mcdowell	lower cedar grove	bit	orig	unclass	unclass	unclass	3.57
west	mcdowell	alma	bit	orig	unclass	unclass	unclass	4.01
west	mcdowell	campbell creek	bit	orig	unclass	unclass	unclass	10.70
west	mcdowell	powellton	bit	orig	unclass	unclass	unclass	11.15
west	mcdowell	matewan	bit	orig	unclass	unclass	unclass	15.61
west	mcdowell	bens creek	bit	orig	unclass	unclass	unclass	38.14
west	mcdowell	little eagle	bit	orig	unclass	unclass	unclass	75.83
west	mcdowell	cedar	bit	orig	unclass	unclass	unclass	67.58
west	mcdowell	lower war eagle	bit	orig	unclass	unclass	unclass	101.70
west	mcdowell	glenalum tunnel	bit	orig	unclass	unclass	unclass	140.51
west	ohio	washington	bit	orig	unclass	unclass	unclass	120.00
west	ohio	sewickley	bit	orig	unclass	unclass	unclass	200.00
west	ohio	lower freeport	bit	orig	unclass	unclass	unclass	100.00
west	barbour	redstone	bit	orig	unclass	unclass	unclass	101.60
west	barbour	pittsburgh	bit	orig	unclass	unclass	unclass	297.24
west	barbour	elk lick	bit	orig	unclass	unclass	unclass	35.91
west	barbour	bakerstown	bit	orig	unclass	unclass	unclass	130.25
west	barbour	upper freeport	bit	orig	unclass	unclass	unclass	417.73
west	barbour	upper kittanning	bit	orig	unclass	unclass	unclass	597.71
west	barbour	lower kittanning	bit	orig	unclass	unclass	unclass	1089.15
west	barbour	clarion	bit	orig	unclass	unclass	unclass	336.38
west	barbour	stockton a	bit	orig	unclass	unclass	unclass	568.39
west	barbour	sewell	bit	orig	unclass	unclass	unclass	11.26
west	boone	no 5 block	bit	orig	unclass	unclass	unclass	322.66
west	boone	stockton-lewiston	bit	orig	unclass	unclass	unclass	453.58
west	clay	upper kittanning	bit	orig	unclass	unclass	unclass	510.31

west	clay	middle kittanning	bit	orig	unclass	unclass	unclass	275.88
west	clay	no 5 block	bit	orig	unclass	unclass	unclass	691.83
west	clay	clarion	bit	orig	unclass	unclass	unclass	96.01
west	clay	stockton-lewiston	bit	orig	unclass	unclass	unclass	421.41
west	clay	coalburg	bit	orig	unclass	unclass	unclass	605.43
west	clay	winifrede	bit	orig	unclass	unclass	unclass	185.00
west	clay	cedar grove	bit	orig	unclass	unclass	unclass	125.29
west	clay	campbell creek	bit	orig	unclass	unclass	unclass	116.23
west	clay	eagle	bit	orig	unclass	unclass	unclass	131.70
west	doddridge	washington	bit	orig	unclass	unclass	unclass	396.27
west	doddridge	uniontown	bit	orig	unclass	unclass	unclass	111.51
west	doddridge	pittsburgh	bit	orig	unclass	unclass	unclass	611.54
west	fayette	middle kittanning	bit	orig	unclass	unclass	unclass	10.26
west	fayette	no 5 block	bit	orig	unclass	unclass	unclass	61.95
west	fayette	stockton-lewiston	bit	orig	unclass	unclass	unclass	71.74
west	fayette	coalburg	bit	orig	unclass	unclass	unclass	115.49
west	fayette	winifrede	bit	orig	unclass	unclass	unclass	100.63
west	fayette	chilton	bit	orig	unclass	unclass	unclass	113.38
west	fayette	cedar grove	bit	orig	unclass	unclass	unclass	203.27
west	fayette	alma	bit	orig	unclass	unclass	unclass	196.70
west	fayette	campbell creek	bit	orig	unclass	unclass	unclass	767.22
west	fayette	powellton	bit	orig	unclass	unclass	unclass	302.49
west	fayette	eagle	bit	orig	unclass	unclass	unclass	511.41
west	fayette	little eagle	bit	orig	unclass	unclass	unclass	247.27
west	fayette	glenalum tunnel	bit	orig	unclass	unclass	unclass	37.94
west	fayette	gilbert	bit	orig	unclass	unclass	unclass	34.51
west	fayette	douglas	bit	orig	unclass	unclass	unclass	33.59
west	fayette	sewell	bit	orig	unclass	unclass	unclass	967.19
west	fayette	fire creek	bit	orig	unclass	unclass	unclass	442.85
west	fayette	pocahontas no 6	bit	orig	unclass	unclass	unclass	124.70
west	fayette	pocahontas no 3	bit	orig	unclass	unclass	unclass	77.92
west	gilmer	washington	bit	orig	unclass	unclass	unclass	26.76
west	gilmer	pittsburgh	bit	orig	unclass	unclass	unclass	452.19
west	gilmer	bakerstown	bit	orig	unclass	unclass	unclass	540.30
west	grant	pittsburgh	bit	orig	unclass	unclass	unclass	0.61
west	grant	little pittsburgh	bit	orig	unclass	unclass	unclass	0.34
west	grant	elk lick	bit	orig	unclass	unclass	unclass	51.52
west	grant	harlem	bit	orig	unclass	unclass	unclass	45.58
west	grant	bakerstown	bit	orig	unclass	unclass	unclass	269.97
west	grant	upper freeport	bit	orig	unclass	unclass	unclass	600.99
west	hancock	pittsburgh	bit	orig	unclass	unclass	unclass	5.84
west	hancock	brush creek	bit	orig	unclass	unclass	unclass	75.00
west	hancock	mahoning	bit	orig	unclass	unclass	unclass	75.00
west	hancock	lower freeport	bit	orig	unclass	unclass	unclass	194.16
west	hancock	middle kittanning	bit	orig	unclass	unclass	unclass	75.00
west	hancock	lower kittanning	bit	orig	unclass	unclass	unclass	75.00
west	harrison	washington	bit	orig	unclass	unclass	unclass	133.48
west	harrison	redstone	bit	orig	unclass	unclass	unclass	70.81
west	harrison	pittsburgh	bit	orig	unclass	unclass	unclass	1667.35
west	harrison	harlem	bit	orig	unclass	unclass	unclass	133.82
west	harrison	upper kittanning	bit	orig	unclass	unclass	unclass	167.27
west	kanawha	pittsburgh	bit	orig	unclass	unclass	unclass	252.24
west	kanawha	lower kittanning	bit	orig	unclass	unclass	unclass	1217.73
west	kanawha	stockton-lewiston	bit	orig	unclass	unclass	unclass	1442.71
west	kanawha	coalburg	bit	orig	unclass	unclass	unclass	439.36
west	kanawha	winifrede	bit	orig	unclass	unclass	unclass	263.73
west	kanawha	hernshaw	bit	orig	unclass	unclass	unclass	17.66
west	kanawha	cedar grove	bit	orig	unclass	unclass	unclass	408.14
west	kanawha	campbell creek	bit	orig	unclass	unclass	unclass	1460.55
west	kanawha	powellton	bit	orig	unclass	unclass	unclass	111.51

west	kanawha	eagle	bit	orig	unclass	unclass	unclass	200.73
west	lewis	washington	bit	orig	unclass	unclass	unclass	20.08
west	lewis	redstone	bit	orig	unclass	unclass	unclass	677.90
west	lewis	pittsburgh	bit	orig	unclass	unclass	unclass	865.50
west	lewis	elk lick	bit	orig	unclass	unclass	unclass	285.03
west	lewis	bakerstown	bit	orig	unclass	unclass	unclass	500.17
west	lewis	upper freeport	bit	orig	unclass	unclass	unclass	105.27
west	lewis	upper kittanning	bit	orig	unclass	unclass	unclass	114.51
west	lewis	lower kittanning	bit	orig	unclass	unclass	unclass	207.58
west	lincoln	upper freeport	bit	orig	unclass	unclass	unclass	284.43
west	lincoln	no 5 block	bit	orig	unclass	unclass	unclass	690.62
west	lincoln	stockton-lewiston	bit	orig	unclass	unclass	unclass	405.46
west	lincoln	campbell creek	bit	orig	unclass	unclass	unclass	390.30
west	mason	pittsburgh	bit	orig	unclass	unclass	unclass	336.22
west	mason	little pittsburgh	bit	orig	unclass	unclass	unclass	3.76
west	mineral	sewickley	bit	orig	unclass	unclass	unclass	1.87
west	mineral	redstone	bit	orig	unclass	unclass	unclass	5.08
west	mineral	pittsburgh	bit	orig	unclass	unclass	unclass	41.22
west	mineral	little clarksburg	bit	orig	unclass	unclass	unclass	28.66
west	mineral	elk lick	bit	orig	unclass	unclass	unclass	69.36
west	mineral	harlem	bit	orig	unclass	unclass	unclass	44.66
west	mineral	upper bakerstown	bit	orig	unclass	unclass	unclass	91.50
west	mineral	bakerstown	bit	orig	unclass	unclass	unclass	146.72
west	mineral	mahoning	bit	orig	unclass	unclass	unclass	104.46
west	mineral	upper freeport	bit	orig	unclass	unclass	unclass	214.78
west	mineral	upper kittanning	bit	orig	unclass	unclass	unclass	8.47
west	mineral	lower kittanning	bit	orig	unclass	unclass	unclass	53.05
west	nicholas	lower freeport	bit	orig	unclass	unclass	unclass	40.14
west	nicholas	upper kittanning	bit	orig	unclass	unclass	unclass	242.88
west	nicholas	middle kittanning	bit	orig	unclass	unclass	unclass	288.82
west	nicholas	no 5 block	bit	orig	unclass	unclass	unclass	543.52
west	nicholas	clarion	bit	orig	unclass	unclass	unclass	184.00
west	nicholas	stockton-lewiston	bit	orig	unclass	unclass	unclass	348.14
west	nicholas	coalburg	bit	orig	unclass	unclass	unclass	566.32
west	nicholas	winifrede	bit	orig	unclass	unclass	unclass	387.06
west	nicholas	chilton	bit	orig	unclass	unclass	unclass	246.56
west	nicholas	alma	bit	orig	unclass	unclass	unclass	144.69
west	nicholas	campbell creek	bit	orig	unclass	unclass	unclass	931.41
west	nicholas	eagle	bit	orig	unclass	unclass	unclass	766.04
west	nicholas	little eagle	bit	orig	unclass	unclass	unclass	118.85
west	nicholas	gilbert	bit	orig	unclass	unclass	unclass	146.03
west	nicholas	sewell	bit	orig	unclass	unclass	unclass	962.98
west	nicholas	fire creek	bit	orig	unclass	unclass	unclass	255.37
west	pocahontas	gilbert	bit	orig	unclass	unclass	unclass	43.86
west	pocahontas	lower iaeger	bit	orig	unclass	unclass	unclass	190.45
west	pocahontas	sewell	bit	orig	unclass	unclass	unclass	274.33
west	preston	pittsburgh	bit	orig	unclass	unclass	unclass	18.45
west	preston	elk lick	bit	orig	unclass	unclass	unclass	67.00
west	preston	harlem	bit	orig	unclass	unclass	unclass	47.25
west	preston	bakerstown	bit	orig	unclass	unclass	unclass	189.01
west	preston	upper freeport	bit	orig	unclass	unclass	unclass	777.08
west	preston	lower freeport	bit	orig	unclass	unclass	unclass	223.00
west	preston	upper kittanning	bit	orig	unclass	unclass	unclass	543.29
west	preston	lower kittanning	bit	orig	unclass	unclass	unclass	817.24
west	preston	clarion	bit	orig	unclass	unclass	unclass	500.00
west	preston	winifrede	bit	orig	unclass	unclass	unclass	30.00
west	putnam	pittsburgh	bit	orig	unclass	unclass	unclass	429.33
west	putnam	little pittsburgh	bit	orig	unclass	unclass	unclass	3.76
west	randolph	bakerstown	bit	orig	unclass	unclass	unclass	6.41
west	randolph	upper freeport	bit	orig	unclass	unclass	unclass	14.30

west	randolph	upper kittanning	bit	orig	unclass	unclass	unclass	26.60
west	randolph	lower kittanning	bit	orig	unclass	unclass	unclass	193.20
west	randolph	clarion	bit	orig	unclass	unclass	unclass	83.64
west	randolph	stockton a	bit	orig	unclass	unclass	unclass	165.60
west	randolph	stockton-lewiston	bit	orig	unclass	unclass	unclass	34.46
west	randolph	winifrede	bit	orig	unclass	unclass	unclass	35.57
west	randolph	campbell creek	bit	orig	unclass	unclass	unclass	321.66
west	randolph	eagle	bit	orig	unclass	unclass	unclass	310.55
west	randolph	gilbert	bit	orig	unclass	unclass	unclass	387.27
west	randolph	lower iaeger	bit	orig	unclass	unclass	unclass	602.91
west	randolph	castle	bit	orig	unclass	unclass	unclass	530.47
west	randolph	sewell	bit	orig	unclass	unclass	unclass	1296.26
west	randolph	welch	bit	orig	unclass	unclass	unclass	96.96
west	randolph	fire creek	bit	orig	unclass	unclass	unclass	77.78
west	roane	washington	bit	orig	unclass	unclass	unclass	66.91
west	roane	pittsburgh	bit	orig	unclass	unclass	unclass	103.26
west	roane	bakerstown	bit	orig	unclass	unclass	unclass	22.30
west	roane	brush creek	bit	orig	unclass	unclass	unclass	16.73
west	roane	lower freeport	bit	orig	unclass	unclass	unclass	66.91
west	roane	no 5 block	bit	orig	unclass	unclass	unclass	223.03
west	roane	stockton-lewiston	bit	orig	unclass	unclass	unclass	133.81
west	roane	campbell creek	bit	orig	unclass	unclass	unclass	41.82
west	summers	pocahontas no 6	bit	orig	unclass	unclass	unclass	1.95
west	summers	pocahontas no 3	bit	orig	unclass	unclass	unclass	16.73
west	taylor	pittsburgh	bit	orig	unclass	unclass	unclass	110.06
west	taylor	upper freeport	bit	orig	unclass	unclass	unclass	118.53
west	taylor	upper kittanning	bit	orig	unclass	unclass	unclass	459.79
west	taylor	lower kittanning	bit	orig	unclass	unclass	unclass	639.29
west	tucker	little pittsburgh	bit	orig	unclass	unclass	unclass	0.24
west	tucker	bakerstown	bit	orig	unclass	unclass	unclass	111.15
west	tucker	upper freeport	bit	orig	unclass	unclass	unclass	230.55
west	tucker	sewell	bit	orig	unclass	unclass	unclass	145.02
west	tyler	washington	bit	orig	unclass	unclass	unclass	580.14
west	tyler	uniontown	bit	orig	unclass	unclass	unclass	367.99
west	upshur	redstone	bit	orig	unclass	unclass	unclass	164.09
west	upshur	pittsburgh	bit	orig	unclass	unclass	unclass	63.34
west	upshur	elk lick	bit	orig	unclass	unclass	unclass	124.45
west	upshur	upper freeport	bit	orig	unclass	unclass	unclass	225.76
west	upshur	upper kittanning	bit	orig	unclass	unclass	unclass	421.30
west	upshur	lower kittanning	bit	orig	unclass	unclass	unclass	1092.00
west	upshur	clarion	bit	orig	unclass	unclass	unclass	131.48
west	upshur	stockton a	bit	orig	unclass	unclass	unclass	630.61
west	upshur	stockton-lewiston	bit	orig	unclass	unclass	unclass	95.01
west	upshur	winifrede	bit	orig	unclass	unclass	unclass	59.77
west	upshur	campbell creek	bit	orig	unclass	unclass	unclass	135.04
west	upshur	eagle	bit	orig	unclass	unclass	unclass	123.78
west	upshur	lower iaeger	bit	orig	unclass	unclass	unclass	114.52
west	upshur	castle	bit	orig	unclass	unclass	unclass	78.06
west	upshur	sewell	bit	orig	unclass	unclass	unclass	95.34
west	wayne	pittsburgh	bit	orig	unclass	unclass	unclass	23.91
west	wayne	elk lick	bit	orig	unclass	unclass	unclass	16.28
west	wayne	upper freeport	bit	orig	unclass	unclass	unclass	40.15
west	wayne	no 5 block	bit	orig	unclass	unclass	unclass	635.60
west	wayne	stockton-lewiston	bit	orig	unclass	unclass	unclass	104.54
west	wayne	campbell creek	bit	orig	unclass	unclass	unclass	651.02
west	webster	upper freeport	bit	orig	unclass	unclass	unclass	24.69
west	webster	upper kittanning	bit	orig	unclass	unclass	unclass	147.10
west	webster	middle kittanning	bit	orig	unclass	unclass	unclass	278.39
west	webster	no 5 block	bit	orig	unclass	unclass	unclass	425.15
west	webster	stockton a	bit	orig	unclass	unclass	unclass	268.52

west	webster	stockton-lewiston	bit	orig	unclass	unclass	unclass	486.26
west	webster	coalburg	bit	orig	unclass	unclass	unclass	192.92
west	webster	winifrede	bit	orig	unclass	unclass	unclass	292.72
west	webster	chilton	bit	orig	unclass	unclass	unclass	346.95
west	webster	cedar grove	bit	orig	unclass	unclass	unclass	299.08
west	webster	alma	bit	orig	unclass	unclass	unclass	46.33
west	webster	campbell creek	bit	orig	unclass	unclass	unclass	524.45
west	webster	eagle	bit	orig	unclass	unclass	unclass	794.26
west	webster	lower war eagle	bit	orig	unclass	unclass	unclass	65.65
west	webster	gilbert	bit	orig	unclass	unclass	unclass	351.66
west	webster	lower iaeger	bit	orig	unclass	unclass	unclass	358.35
west	webster	sewell	bit	orig	unclass	unclass	unclass	789.40
west	webster	welch	bit	orig	unclass	unclass	unclass	507.83
west	webster	fire creek	bit	orig	unclass	unclass	unclass	105.83
west	wetzel	washington	bit	orig	unclass	unclass	unclass	803.95
west	wetzel	waynesburg	bit	orig	unclass	unclass	unclass	267.63
west	wetzel	uniontown	bit	orig	unclass	unclass	unclass	156.12
west	wetzel	sewickley	bit	orig	unclass	unclass	unclass	501.81
west	wetzel	pittsburgh	bit	orig	unclass	unclass	unclass	1592.41
west	wirt	washington	bit	orig	unclass	unclass	unclass	22.30
west	boone	coalburg	bit	orig	unclass	unclass	unclass	409.17
west	boone	winifrede	bit	orig	unclass	unclass	unclass	1269.06
west	boone	chilton	bit	orig	unclass	unclass	unclass	697.52
west	boone	hernshaw	bit	orig	unclass	unclass	unclass	1100.08
west	boone	williamson	bit	orig	unclass	unclass	unclass	44.61
west	boone	cedar grove	bit	orig	unclass	unclass	unclass	963.65
west	boone	alma	bit	orig	unclass	unclass	unclass	1184.74
west	boone	campbell creek	bit	orig	unclass	unclass	unclass	1480.45
west	boone	powellton	bit	orig	unclass	unclass	unclass	100.36
west	boone	eagle	bit	orig	unclass	unclass	unclass	117.09
west	braxton	pittsburgh	bit	orig	unclass	unclass	unclass	311.37
west	braxton	bakerstown	bit	orig	unclass	unclass	unclass	89.38
west	braxton	upper freeport	bit	orig	unclass	unclass	unclass	313.58
west	braxton	lower freeport	bit	orig	unclass	unclass	unclass	35.27
west	braxton	upper kittanning	bit	orig	unclass	unclass	unclass	399.25
west	braxton	middle kittanning	bit	orig	unclass	unclass	unclass	37.13
west	braxton	no 5 block	bit	orig	unclass	unclass	unclass	642.76
west	braxton	stockton-lewiston	bit	orig	unclass	unclass	unclass	202.23
west	braxton	cedar grove	bit	orig	unclass	unclass	unclass	86.06
west	braxton	eagle	bit	orig	unclass	unclass	unclass	100.36
west	braxton	sewell	bit	orig	unclass	unclass	unclass	105.94
west	cabell	pittsburgh	bit	orig	unclass	unclass	unclass	44.17
west	calhoun	washington	bit	orig	unclass	unclass	unclass	22.30
west	calhoun	pittsburgh	bit	orig	unclass	unclass	unclass	103.26
west	calhoun	campbell creek	bit	orig	unclass	unclass	unclass	125.45
west	clay	pittsburgh	bit	orig	unclass	unclass	unclass	35.23
west	clay	upper freeport	bit	orig	unclass	unclass	unclass	43.55

average analyses of coal in west virginia

proximate analysis (percent)													ultimate analysis (percent)				sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
rank	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen											
barbour													county							
bit																				
	bakerstown	3.8	32.4	56.4	11.3	0.0	0.0	0.0	0.0	2.7	13506	2270	5							
	low & up kittanning	2.9	30.0	56.7	13.3	0.0	0.0	0.0	0.0	2.3	13150	2640	1							
	lower kittanning	2.8	29.9	58.3	11.8	4.7	74.8	1.4	4.5	1.3	13530	2811	19							
	middle kittanning	1.8	30.3	52.3	17.3	0.0	0.0	0.0	0.0	2.6	12535	2615	2							
	pittsburgh	2.3	37.8	52.2	10.0	5.1	74.6	1.4	4.6	3.3	13690	2141	142							
	pittsburgh&redstone	2.6	38.0	53.1	8.9	0.0	0.0	0.0	0.0	3.0	13853	2148	8							
	redstone	3.4	36.2	54.4	9.3	5.1	76.4	1.4	6.2	2.4	13653	2234	31							
	upper freeport	4.2	29.9	53.7	16.4	4.9	74.7	1.5	4.6	2.4	12625	2595	2							
	upper kittanning	3.8	29.6	54.4	16.0	4.3	66.0	1.3	5.0	2.2	12665	2565	2							
	various	2.1	37.8	52.5	9.7	0.0	0.0	0.0	0.0	3.3	13690	2181	43							
county average		2.5	36.7	53.1	10.2	5.0	74.7	1.4	5.1	3.0	13647	2218	255							
boone													county							
bit																				
	alma	2.7	38.3	54.5	7.3	5.3	78.4	1.5	5.9	2.0	14066	2359	18							
	alma & chilton	4.1	36.3	55.1	8.6	5.3	80.8	1.5	6.9	1.3	13714	2771	10							
	buffalo creek	3.2	36.1	58.1	5.8	5.2	80.3	1.6	6.2	0.9	14330	2560	1							
	cedar grove	3.1	36.9	54.9	8.2	5.2	78.4	1.6	6.8	1.1	13887	2640	40							
	cedar grv&l campbl c	3.8	37.5	56.3	6.2	0.0	0.0	0.0	0.0	1.1	14031	2570	6							
	chilton	4.0	36.2	55.4	8.4	4.7	72.8	0.7	7.6	0.9	13737	2802	16							
	coalburg	3.4	35.5	55.0	9.5	5.0	78.1	1.5	7.9	0.8	13704	2881	13							
	coalburg&l kittannin	2.5	34.6	53.3	12.2	0.0	0.0	0.0	0.0	0.8	13267	2906	8							
	hernshaw	2.1	36.1	57.7	6.2	5.4	81.2	1.5	5.9	0.8	14418	2750	5							
	l kittanning&winifrd	2.7	37.0	59.1	3.9	0.0	0.0	0.0	0.0	0.6	14670	2910	1							
	lower campbell creek	3.5	37.0	55.6	7.3	5.0	77.3	1.3	4.8	1.3	13942	2584	21							
	lower cedar grove	5.5	37.3	56.9	5.8	5.2	79.2	1.5	7.5	0.8	14170	2830	1							
	lower kittanning	3.5	36.5	55.9	7.6	0.0	0.0	0.0	0.0	0.7	13854	2905	51							
	various	2.3	35.0	57.5	7.5	0.0	0.0	0.0	0.0	0.6	14077	2900	7							
	winifrede	2.9	34.9	56.8	8.3	5.3	82.1	1.5	6.1	0.7	13868	2898	34							
county average		3.3	36.4	55.6	8.0	5.2	78.8	1.4	6.3	1.0	13974	2763	232							
braxton													county							
bit																				
	pittsburgh	3.1	40.5	50.0	9.5	0.0	0.0	0.0	0.0	2.8	13512	2102	7							
county average		3.1	40.5	50.0	9.5	0.0	0.0	0.0	0.0	2.8	13512	2102	7							
brooke													county							

bit												
pittsburgh	5.6	37.0	51.6	11.5	5.0	74.6	1.5	7.0	2.9	12963	2201	33
county average	5.6	37.0	51.6	11.5	5.0	74.6	1.5	7.0	2.9	12963	2201	33

clay county

bit												
clarion	1.7	37.9	51.8	10.3	5.1	76.2	1.4	6.4	0.6	13640	2910	1
lower kittanning	2.8	36.2	53.2	10.6	5.2	78.8	1.5	6.2	0.8	13412	2880	20
middle kittanning	2.8	36.5	52.4	11.1	5.0	74.6	1.4	7.0	0.9	13317	2910	7
upper kittanning	3.9	38.5	52.5	9.0	5.1	75.4	1.5	6.7	2.0	13625	2610	2
county average	2.8	36.5	52.9	10.6	5.1	76.1	1.5	6.6	0.9	13411	2877	30

fayette county

bit												
alma	2.8	29.4	63.0	7.6	5.0	83.4	1.5	3.8	0.7	14366	2900	3
campbell creek peerl	2.1	34.7	57.5	7.8	0.0	0.0	0.0	0.0	2.2	14210	2480	1
coalburg	3.5	34.9	56.7	8.5	5.3	79.3	1.6	5.8	0.9	13898	2910	5
coalburg&l campbl crk	3.0	41.8	49.4	8.7	0.0	0.0	0.0	0.0	0.7	13800	2880	3
eagle	2.6	30.2	63.4	6.3	5.1	82.5	1.5	4.7	0.8	14481	2781	51
eagle & little eagle	2.7	30.1	61.1	8.8	5.0	81.1	1.6	4.5	1.0	14120	2635	2
eagle & powellton	2.6	33.1	60.6	6.3	5.3	81.3	1.5	5.0	0.7	14520	2805	2
eagle&l campbell crk	2.7	32.9	59.0	8.1	0.0	0.0	0.0	0.0	1.1	14060	2757	11
fire creek	2.6	20.8	72.8	6.4	4.6	83.3	1.5	2.8	0.8	14634	2687	80
l campbell ck&powltn	5.1	28.8	64.4	6.8	0.0	0.0	0.0	0.0	0.7	14483	2883	3
l kittang&l campbl ck	4.7	33.9	55.3	10.8	0.0	0.0	0.0	0.0	0.7	13350	2910	2
little eagle	2.7	31.6	61.5	6.8	5.4	82.6	1.6	4.2	0.8	14470	2893	6
lower campbell creek	3.0	33.1	60.5	6.3	5.1	81.5	1.5	5.1	0.9	14371	2696	46
lower kittanning	3.9	35.5	58.9	5.6	0.0	0.0	0.0	0.0	0.7	14185	2910	2
pocahontas 6&fire ck	3.7	20.0	73.4	6.6	0.0	0.0	0.0	0.0	0.8	14522	2770	4
pocahontas no 6	3.0	19.8	70.8	9.4	4.4	79.6	1.2	3.2	0.9	14053	2890	8
powellton	2.5	33.5	60.1	6.4	5.4	81.1	1.5	5.2	0.8	14466	2790	8
sewell	2.6	25.5	69.9	4.6	4.9	85.4	1.7	3.6	0.7	14847	2594	255
sewell & fire creek	2.6	22.8	72.1	5.2	0.0	0.0	0.0	0.0	0.7	14785	2567	7
various	2.8	27.9	63.4	8.7	4.8	81.3	1.5	3.7	0.9	14094	2724	22
county average	2.7	26.6	67.7	5.7	4.9	83.6	1.6	4.0	0.8	14629	2669	521

gilmer county

bit												
pittsburgh	3.3	40.6	50.1	9.3	5.4	75.3	1.2	7.6	2.5	13527	2138	32
county average	3.3	40.6	50.1	9.3	5.4	75.3	1.2	7.6	2.5	13527	2138	32

grant county

bit												
bakerstown	3.9	18.1	70.7	11.2	4.0	75.7	1.4	2.2	1.4	13746	2655	9
bakerstown&u freeprt	3.1	22.2	67.6	10.2	0.0	0.0	0.0	0.0	0.9	13930	2360	1
elk lick	3.4	16.8	68.3	15.0	0.0	0.0	0.0	0.0	2.8	13130	2190	2
l douglas & l iseger	9.2	24.3	64.3	11.4	0.0	0.0	0.0	0.0	1.8	13450	2230	1
upper freeport	2.3	17.8	67.0	15.2	4.5	81.7	1.5	1.9	2.0	13123	2597	10

county average	3.3	18.3	68.4	13.2	4.2	78.1	1.4	2.0	1.8	13416	2558	23

greenbrier						county						

bit												
beckley	4.0	25.0	64.8	10.2	0.0	0.0	0.0	0.0	1.3	13878	2682	7
fire creek	2.6	22.4	72.0	5.6	4.7	82.9	1.4	2.9	0.9	14776	2739	41
pocahontas & beckley	3.4	24.6	67.4	8.0	0.0	0.0	0.0	0.0	1.3	14280	2780	1
pocahontas no 6	2.9	22.5	66.0	11.5	4.5	81.6	1.4	2.8	1.1	13803	2876	3
sewell	3.3	26.3	68.2	5.5	4.9	82.7	1.7	4.1	1.1	14613	2485	199
sewell & fire creek	3.1	24.6	69.3	6.1	4.6	81.9	1.6	3.7	1.0	14526	2548	22
various	3.8	25.1	67.2	7.6	0.0	0.0	0.0	0.0	1.3	14242	2580	35
county average	3.2	25.5	68.6	6.0	4.8	82.7	1.6	3.6	1.1	14560	2557	308

hancock						county						

bit												
lower freeport	3.8	38.8	48.6	12.6	5.2	71.2	1.3	5.4	4.3	12980	2070	1
lower kittanning	2.8	40.7	49.4	9.9	5.4	77.1	1.3	5.4	6.9	13450	2150	2
mahoning	4.7	36.0	58.4	5.6	5.0	77.4	1.4	7.4	1.9	14090	2162	4
middle kittanning	5.1	38.1	51.0	10.9	4.7	74.5	1.3	4.5	4.1	13230	2110	1
county average	4.2	37.8	54.0	8.2	5.1	75.0	1.3	5.7	3.7	13683	2140	8

harrison						county						

bit												
pittsburgh	2.7	39.5	51.7	8.8	5.2	76.0	1.4	5.7	3.2	13747	2104	612
pittsburgh&redstone	3.3	39.0	52.8	8.2	0.0	0.0	0.0	0.0	3.0	13768	2105	6
redstone	3.2	37.8	52.6	9.6	5.2	76.9	1.4	6.7	2.5	13544	2195	16
various	3.2	38.5	51.4	10.1	0.0	0.0	0.0	0.0	3.1	13386	2126	6
county average	2.7	39.4	51.7	8.9	5.2	76.1	1.4	5.9	3.2	13738	2107	640

kanawha						county						

bit												
campbell creek peerl	2.5	36.6	56.5	7.0	5.3	78.3	1.4	6.9	2.1	14182	2270	5
cedar grove	2.5	37.6	56.6	5.8	5.4	80.4	1.6	7.2	0.9	14311	2554	28
cedar grove&coalburg	2.7	35.9	53.9	10.3	0.0	0.0	0.0	0.0	0.8	13517	2877	4
coalburg	3.1	34.8	54.1	11.0	5.0	73.9	1.4	7.8	0.7	13376	2871	6
coalburg&l kittannin	3.7	35.3	53.0	11.8	0.0	0.0	0.0	0.0	0.8	13191	2884	7
coalburg&stockton-l n	4.1	34.1	52.3	13.6	0.0	0.0	0.0	0.0	0.7	12878	2910	5
eagle	1.8	33.8	59.1	7.1	5.2	80.1	1.5	5.9	0.7	14376	2875	8
l kittanning&winifred	3.1	35.7	57.0	7.4	0.0	0.0	0.0	0.0	0.7	13871	2891	13
lower campbell creek	3.1	37.6	57.5	5.0	5.4	80.5	1.6	7.7	0.9	14407	2512	30
lower kittanning	3.8	35.3	54.3	10.3	5.1	77.8	1.5	7.4	0.9	13389	2845	49
pittsburgh	4.1	40.9	52.7	6.4	5.6	73.3	1.5	11.2	2.0	13795	2230	2
powellton	3.0	32.2	62.6	5.2	5.2	83.1	1.4	6.4	0.9	14498	2793	6
stockton-lewiston	3.2	35.6	55.2	9.2	5.2	76.8	1.4	8.5	0.8	13675	2908	28
upper kittanning	3.6	38.1	51.9	10.0	5.1	74.5	1.4	7.6	1.4	13430	2680	1
various	3.2	35.2	54.7	10.1	0.0	0.0	0.0	0.0	1.1	13562	2786	25
winifrede	3.0	35.4	57.2	7.4	5.2	79.1	1.5	7.3	0.7	14009	2862	137
winifrede&stocktn-l n	2.8	35.5	53.2	11.3	0.0	0.0	0.0	0.0	0.9	13302	2887	8

		mason				county							
bit													
	pittsburgh	6.6	42.0	44.0	14.0	4.9	67.5	1.2	9.1	3.2	12276	2436	16
	county average	6.6	42.0	44.0	14.0	4.9	67.5	1.2	9.1	3.2	12276	2436	16

		mcdowell				county							
bit													
beckley		2.3	17.6	72.9	9.5	4.2	81.9	1.4	2.5	0.7	14157	2614	55
bens creek & gilbert		2.7	24.7	65.2	10.1	0.0	0.0	0.0	0.0	0.9	13973	2860	3
douglas		2.6	26.9	67.2	5.8	5.0	85.4	1.7	3.5	1.0	14638	2470	95
douglas & bens creek		2.8	29.9	64.0	6.2	0.0	0.0	0.0	0.0	1.0	14510	2290	2
douglas & iaeger		3.0	24.6	69.0	6.4	0.0	0.0	0.0	0.0	0.8	14635	2407	8
eagle		2.9	30.8	63.4	5.9	4.7	81.5	1.6	6.9	1.2	14471	2490	7
eagle & douglas		2.0	27.4	66.3	6.3	0.0	0.0	0.0	0.0	2.2	14580	2150	2
fire creek		2.2	18.7	74.3	7.0	4.4	84.1	1.3	2.2	0.8	14612	2528	11
iaeger		1.9	23.8	72.2	4.0	4.8	84.6	1.5	3.7	0.8	15077	2323	8
lower war eagle		2.3	31.6	58.7	9.7	0.0	0.0	0.0	0.0	1.2	13900	2760	1
pocahontas 3&beckley		3.2	17.7	75.8	6.5	4.3	85.7	1.2	2.8	0.7	14654	2424	5
pocahontas no 3		3.0	18.4	75.7	5.9	4.4	85.9	1.2	2.7	0.6	14771	2401	184
pocahontas no 4		2.2	17.4	75.3	7.2	4.3	85.1	1.2	2.8	0.6	14549	2410	43
pocahontas no 5		1.9	21.4	73.3	5.2	4.6	85.3	1.5	2.9	0.6	14915	2505	2
pocahontas no 6		2.8	19.3	73.9	6.9	4.4	83.5	1.3	2.5	0.8	14668	2627	12
pocahontas nos 3 & 4		3.1	18.3	75.5	6.2	0.0	0.0	0.0	0.0	0.7	14644	2350	10
pocahontas nos 3 & 5		2.1	21.6	74.8	3.7	0.0	0.0	0.0	0.0	0.6	15160	2442	4
pocahontas nos 3 & 6		2.9	19.2	75.8	5.0	0.0	0.0	0.0	0.0	0.6	14850		1
pocahontas nos 4 & 5		2.0	23.0	70.7	6.3	4.6	85.0	1.2	3.4	0.5	14620	2320	3
pocahontas nos 6 & 9		1.9	19.7	73.3	7.0	0.0	0.0	0.0	0.0	0.7	14685	2800	2
sewell		2.5	20.3	73.9	5.8	4.5	85.1	1.4	2.7	0.7	14776	2597	74
sewell & welch		4.5	19.0	73.7	7.3	0.0	0.0	0.0	0.0	0.7	14555	2780	2
various		3.3	20.5	72.7	6.8	0.0	0.0	0.0	0.0	0.8	14611	2608	20
welch		2.7	18.4	74.3	7.2	4.4	83.5	1.4	2.6	0.6	14547	2770	14
county average		2.7	20.5	73.0	6.4	4.4	85.2	1.3	2.8	0.7	14646	2484	568

	mercier				county								
bit													
fire creek	3.7	20.3	75.3	4.4	4.8	86.2	1.3	2.4	0.6	15076	2586	3	
pocahontas no 3	2.8	17.7	76.5	5.7	4.4	86.7	1.2	2.5	0.6	14827	2659	81	
pocahontas no 6	3.1	19.1	75.7	5.1	4.7	84.4	1.2	2.2	0.7	14955	2568	23	
pocahontas nos 3 & 6	2.9	17.7	78.6	3.7	0.0	0.0	0.0	0.0	0.6	15135	2675	2	
various	1.9	17.5	75.2	7.3	0.0	0.0	0.0	0.0	0.6	14520		1	
county average	2.9	18.1	76.3	5.6	4.5	86.3	1.2	2.5	0.6	14864	2640	110	

		mineral				county						
bit												
bakerstown	2.0	15.6	72.3	12.1	4.2	80.5	1.5	1.9	1.9	13662	2497	18
elk lick	1.7	16.9	68.9	14.2	0.0	0.0	0.0	0.0	3.0	13283	2499	14
mahoning	3.1	14.9	73.0	12.1	0.0	0.0	0.0	0.0	1.6	13686	2430	3
pittsburgh	3.1	19.2	72.5	8.3	0.0	0.0	0.0	0.0	0.7	14050	2910	1
pocahontas no 3	1.6	15.7	68.5	15.8	0.0	0.0	0.0	0.0	2.8	12935	2375	2
upper freeport	1.6	15.2	69.7	15.1	0.0	0.0	0.0	0.0	3.8	13110	2145	2

county average	2.0	16.1	70.9	13.1	4.2	80.5	1.5	1.9	2.3	13477	2478	40

mingo county												

bit												
alma	2.8	36.3	58.1	5.6	5.4	81.4	1.5	6.5	0.6	14395	2866	24
alma & l cedar grove	4.9	33.6	61.3	5.2	0.0	0.0	0.0	0.0	0.6	14285	2815	2
alma&l campbell crk	4.0	33.3	59.1	7.5	0.0	0.0	0.0	0.0	0.7	14080	2855	2
buffalo creek	3.1	37.2	54.2	8.6	5.6	77.2	1.4	6.5	0.7	13700	2860	1
cedar grove	2.6	36.4	55.8	7.8	5.2	78.8	1.5	6.1	1.2	13969	2753	180
cedar grove&l cdr gv	2.6	34.4	58.9	6.7	5.1	81.0	1.4	6.7	0.7	14274	2827	44
coalburg	3.6	37.9	54.8	7.3	5.6	77.6	1.4	7.8	0.7	13927	2872	4
douglas	3.0	25.8	68.1	6.2	4.9	83.8	1.7	3.1	2.0	14625	2155	2
eagle	3.2	30.7	62.7	6.6	5.0	81.7	1.6	4.7	1.2	14340	2476	3
lower campbell creek	3.1	35.2	56.2	8.6	5.2	78.9	1.5	6.6	1.1	13787	2665	47
lower cedar grove	2.3	36.7	58.3	5.1	5.3	81.0	1.5	6.0	0.9	14480	2720	8
powellton	3.7	33.2	60.7	6.1	0.0	0.0	0.0	0.0	0.6	14310	2810	5
various	3.5	33.7	58.8	7.5	0.0	0.0	0.0	0.0	0.7	14157	2857	7
winifrede	3.5	38.3	54.3	7.4	5.4	79.8	1.6	7.1	0.7	13918	2858	35
county average	2.8	36.0	56.6	7.5	5.3	80.0	1.5	6.5	1.0	14033	2769	364

monongalia county												

bit												
bakerstown	1.8	32.3	58.6	9.1	0.0	0.0	0.0	0.0	2.4	13860	2060	2
pittsburgh	2.3	35.6	55.0	9.4	5.1	76.5	1.5	4.8	2.8	13798	2272	356
pittsburgh&redstone	2.8	34.6	54.5	10.9	0.0	0.0	0.0	0.0	2.4	13538	2292	8
pittsburgh&sewickley	2.5	35.5	53.8	10.7	0.0	0.0	0.0	0.0	2.5	13541	2518	18
redstone	2.9	33.3	55.1	11.6	4.9	74.5	1.5	5.6	2.0	13309	2560	11
redstone & sewickley	2.7	33.3	54.0	12.7	0.0	0.0	0.0	0.0	2.5	13160	2350	2
sewickley	2.4	35.5	52.1	12.4	4.9	72.6	1.5	5.4	2.6	13192	2385	160
upper freeport	2.4	30.4	60.1	9.5	4.9	78.8	1.4	5.2	1.3	13896	2745	3
various	3.2	33.5	54.8	11.7	0.0	0.0	0.0	0.0	2.6	13288	2364	39
waynesburg	3.2	34.6	49.6	15.8	0.0	0.0	0.0	0.0	1.3	12460	2800	1
county average	2.4	35.3	54.2	10.5	5.0	75.8	1.5	5.0	2.7	13580	2323	600

nicholas county												

bit												
campbell creek peerl	3.2	33.6	58.8	7.6	5.2	78.9	1.6	5.6	1.0	14064	2568	17
coalburg	3.5	36.0	54.5	9.5	5.5	78.8	1.5	6.1	0.8	13652	2910	5
eagle	3.7	32.9	60.1	7.0	5.1	79.8	1.6	5.6	0.7	14190	2895	23
gilbert	3.9	36.1	56.8	7.1	5.2	78.8	1.8	4.8	2.3	14290	2280	1
little eagle	2.7	37.1	59.5	3.4	5.8	83.0	1.7	5.4	0.7	14860	2820	1
lower kittanning	2.9	35.0	59.1	5.8	5.1	77.6	1.5	6.2	0.8	14244	2778	39
middle kittanning	2.3	35.8	60.9	3.3	5.4	82.8	1.7	6.0	0.8	14680	2700	1
sewell	3.5	28.6	67.2	4.2	5.1	84.5	1.7	4.4	0.8	14814	2604	37
uncorrelated	4.4	34.3	53.7	12.0	0.0	0.0	0.0	0.0	0.9	13290	2910	1
upper kittanning	6.2	29.7	57.6	12.7	4.3	71.9	1.4	9.1	0.6	12420	2910	1
various	4.1	34.3	57.9	7.8	0.0	0.0	0.0	0.0	0.8	13850	2846	28
winifrede	2.8	34.7	55.7	9.6	5.0	76.9	1.5	6.1	0.8	13635	2910	2
county average	3.5	32.9	60.7	6.4	5.1	80.4	1.6	5.5	0.8	14243	2746	156

ohio county												
bit												
pittsburgh	3.3	40.1	50.4	9.4	5.1	73.9	1.3	7.1	3.9	13389	2059	35
county average	3.3	40.1	50.4	9.4	5.1	73.9	1.3	7.1	3.9	13389	2059	35
pocahontas county												
bit												
sewell	2.8	30.3	62.9	6.8	0.0	0.0	0.0	0.0	0.7	14496	2890	37
county average	2.8	30.3	62.9	6.8	0.0	0.0	0.0	0.0	0.7	14496	2890	37
preston county												
bit												
bakerstown	2.7	29.8	60.4	9.8	4.9	80.0	1.7	4.0	2.0	13849	2295	107
bakerstown&u freeprt	2.8	29.5	59.3	11.2	0.0	0.0	0.0	0.0	2.4	13650	2273	7
lower kittanning	3.0	23.6	65.9	10.5	4.5	76.0	1.5	2.7	2.0	13878	2579	74
mahoning	2.9	28.2	62.1	9.7	0.0	0.0	0.0	0.0	2.7	13943	2160	3
middle kittanning	3.3	24.9	65.0	10.1	4.6	83.9	1.4	3.7	2.8	13976	2330	3
pittsburgh	5.7	32.4	58.9	8.7	5.0	77.1	1.6	6.2	1.6	13720	2392	8
upper freeport	2.9	29.0	59.2	11.8	4.7	74.8	1.4	3.9	2.1	13536	2548	246
upper kittanning	3.8	29.9	53.2	16.8	4.5	71.6	1.3	4.5	2.4	12610	2803	3
various	3.3	27.7	59.5	12.8	0.0	0.0	0.0	0.0	2.0	13373	2538	34
county average	3.0	28.3	60.5	11.2	4.7	75.8	1.4	3.8	2.1	13650	2485	485
putnam county												
bit												
pittsburgh	3.5	41.1	50.3	8.6	5.3	76.2	1.4	7.8	2.6	13421	2160	16
county average	3.5	41.1	50.3	8.6	5.3	76.2	1.4	7.8	2.6	13421	2160	16
raleigh county												
bit												
beckley	2.6	18.3	76.3	5.4	4.5	86.5	1.5	2.4	0.7	14800	2774	133
beckley & fire creek	2.7	18.5	75.5	5.9	0.0	0.0	0.0	0.0	0.8	14672	2766	13
beckley & sewell	3.9	20.5	72.7	6.9	0.0	0.0	0.0	0.0	0.8	14560	2630	2
cedar grove	2.0	34.8	58.6	6.5	0.0	0.0	0.0	0.0	1.0	14395	2606	12
eagle	2.6	28.7	64.1	7.2	4.9	81.5	1.5	3.9	1.0	14419	2774	10
fire creek	2.4	18.1	76.5	5.4	4.6	86.7	1.5	2.5	0.8	14840	2666	80
hernshaw	1.6	34.4	58.7	6.9	5.3	81.5	1.6	4.7	1.2	14405	2375	4
hernshaw&l capbl crk	2.4	31.2	61.4	7.4	0.0	0.0	0.0	0.0	0.9	14310	2733	3
l kittanning&winifrd	2.9	35.3	58.8	5.8	0.0	0.0	0.0	0.0	0.6	14298	2908	23
lower campbell creek	3.1	30.9	61.5	7.6	0.0	0.0	0.0	0.0	0.9	14280	2640	3
lower kittanning	2.3	34.0	56.9	9.2	0.0	0.0	0.0	0.0	0.7	13806	2910	3
pocahontas 3&beckley	2.3	15.9	74.8	9.3	0.0	0.0	0.0	0.0	0.8	14183	2874	8
pocahontas no 3	2.4	16.4	76.1	7.5	4.3	85.0	1.2	2.3	0.8	14466	2841	42
pocahontas no 4	2.9	16.8	77.5	5.7	4.3	84.1	1.3	2.5	0.8	14803	2750	33
pocahontas no 6	2.4	16.6	78.4	5.0	4.3	86.4	1.3	2.1	0.9	14875	2700	2
pocahontas nos 3 & 4	2.2	15.5	74.0	10.4	0.0	0.0	0.0	0.0	0.7	13957	2890	8

powellton	2.1	34.6	59.6	5.8	5.4	84.1	1.5	5.8	1.1	14476	2383	15
sewell	2.7	21.0	73.8	5.1	4.6	85.2	1.7	2.8	1.0	14843	2519	97
various	4.5	22.3	69.3	8.4	4.2	82.7	1.3	2.9	0.9	14091	2648	7
winifrede	2.5	32.3	61.6	6.0	5.0	84.7	1.6	4.3	0.7	14513	2801	9
county average	2.6	21.0	73.1	5.9	4.5	85.6	1.5	2.7	0.8	14681	2703	507
randolph county												
bit												
campbell creek peerl	3.8	32.9	62.6	4.5	5.4	83.7	1.5	5.0	0.8	14658	2341	12
gilbert	4.7	23.6	67.8	8.6	0.0	0.0	0.0	0.0	0.6	14160	2910	1
low & mid kittanning	3.8	30.1	59.4	10.5	0.0	0.0	0.0	0.0	0.9	13810	2910	1
lower kittanning	2.9	29.5	58.0	12.5	4.9	76.3	1.5	4.3	1.6	13383	2803	77
middle kittanning	4.6	32.3	55.8	12.0	0.0	0.0	0.0	0.0	2.2	13213	2476	6
sewell	3.4	29.0	64.4	6.6	5.0	81.4	1.3	4.9	0.7	14444	2814	34
uncorrelated	4.9	27.1	67.0	5.9	0.0	0.0	0.0	0.0	0.5	14420	2750	1
upper kittanning	3.4	29.6	57.7	12.7	4.6	71.9	1.5	4.4	1.4	13349	2870	11
various	2.7	29.7	55.2	15.2	0.0	0.0	0.0	0.0	2.0	12922	2755	5
county average	3.2	29.7	59.8	10.5	5.0	79.7	1.4	4.7	1.3	13720	2744	148
taylor county												
bit												
pittsburgh	2.5	37.3	54.0	8.7	5.2	77.0	1.5	5.2	2.5	13922	2202	102
redstone	2.2	36.3	54.5	9.2	0.0	0.0	0.0	0.0	2.6	13760	2120	1
various	4.9	35.7	54.1	10.2	0.0	0.0	0.0	0.0	2.2	13490	2220	4
county average	2.6	37.3	54.0	8.8	5.2	77.0	1.5	5.2	2.5	13904	2202	107
tucker county												
bit												
bakerstown	3.2	23.0	66.0	10.9	0.0	0.0	0.0	0.0	0.7	13870	2665	2
bakerstown&u freeprt	2.3	22.5	71.3	6.1	0.0	0.0	0.0	0.0	0.9	14666	2570	6
upper freeport	3.4	24.4	66.9	8.6	0.0	0.0	0.0	0.0	1.2	14126	2701	43
county average	3.3	24.2	67.4	8.4	0.0	0.0	0.0	0.0	1.2	14180	2695	51
upshur county												
bit												
elk lick	3.3	35.5	47.8	16.7	0.0	0.0	0.0	0.0	3.0	12470		1
low & up freeport	5.8	35.3	50.5	14.2	0.0	0.0	0.0	0.0	2.2	12680	2210	1
middle kittanning	8.2	29.5	56.0	14.5	0.0	0.0	0.0	0.0	0.6	12170	2910	1
pittsburgh	2.4	38.9	51.2	9.9	5.1	75.3	1.3	4.9	3.6	13623	2160	9
redstone	2.8	37.2	54.3	8.5	5.2	76.4	1.3	6.4	2.4	13758	2155	102
upper freeport	2.2	37.7	52.8	9.5	5.3	77.7	1.6	6.5	1.4	13710	2382	13
various	3.2	37.3	52.7	10.0	0.0	0.0	0.0	0.0	2.6	13534	2266	11
county average	2.8	37.3	53.8	9.0	5.2	76.5	1.3	6.2	2.4	13698	2201	138
webster county												

bit												
campbell creek peert	2.8	37.2	59.4	3.4	5.8	83.1	1.9	5.1	0.7	14900	2680	1
campbl crk prls&sewl	4.8	34.2	63.0	2.9	0.0	0.0	0.0	0.0	0.8	14690	2300	2
fire creek	2.6	27.5	59.7	12.8	5.0	79.5	1.1	5.3	0.6	13192	2880	8
sewell	2.8	31.1	62.7	6.2	5.1	82.6	1.4	4.7	0.6	14515	2832	94
county average	2.9	31.0	62.4	6.6	5.1	82.0	1.4	4.8	0.6	14421	2824	105

	wyoming				county							
bit												
alma	3.2	32.6	61.9	5.5	5.3	80.2	1.5	6.7	0.8	14180	2910	1
beckley	2.7	18.9	74.8	6.3	4.6	85.5	1.5	2.3	1.1	14666	2595	27
beckley & sewell	4.3	18.2	75.6	6.2	0.0	0.0	0.0	0.0	0.9	14630	2890	1
chilton	2.1	35.2	59.0	5.8	5.4	81.1	1.5	5.3	0.9	14430	2430	1
douglas	2.8	26.0	70.1	3.9	5.2	85.2	1.6	2.8	1.1	15011	2326	9
douglas & sewell	4.6	24.9	70.1	5.0	0.0	0.0	0.0	0.0	1.2	14960	2350	1
eagle	3.2	30.2	65.3	4.5	5.3	85.0	1.5	4.2	0.7	14780	2805	3
fire creek	2.1	18.3	76.7	5.0	0.0	0.0	0.0	0.0	1.1	14930	2430	3
gilbert	2.2	27.5	57.8	14.7	4.3	74.9	1.5	3.8	1.3	13155	2910	2
lower campbell creek	3.4	32.0	62.7	5.3	5.4	83.3	1.5	5.0	0.7	14550	2778	21
pocahontas no 3	2.4	17.1	75.5	7.3	4.3	85.0	1.2	2.4	0.7	14486	2803	78
pocahontas no 4	2.7	16.9	75.7	7.5	4.6	84.6	1.3	2.4	0.9	14485	2910	2
pocahontas no 6	2.8	18.1	75.4	6.5	4.3	84.5	1.3	2.8	0.8	14660	2716	16
pocahontas nos 3 & 6	2.6	16.8	75.5	7.7	0.0	0.0	0.0	0.0	0.7	14460	2793	4
powellton	3.4	32.8	60.8	6.4	5.3	83.3	1.5	5.2	0.6	14418	2811	12
sewell	2.5	22.4	72.9	4.7	4.9	87.2	1.5	2.7	1.0	14932	2542	34
various	5.8	26.9	59.0	14.1	0.0	0.0	0.0	0.0	1.1	13210	2490	2
winifrede	5.4	31.8	55.1	13.2	5.2	76.9	1.3	5.6	0.8	13201	2825	11
county average	2.8	22.0	71.3	6.7	4.7	84.5	1.4	3.1	0.8	14534	2699	228

WEST VIRGINIA

state	county	bed	moisture	vol	fixed	ash	sulfur	btu	hilo	tsilo
west virginia	barbour	pittsburgh	2.6	38.7	52.7	8.6	3.7	14050	64	7.5
west virginia	barbour	pittsburgh	3.7	37.8	54.9	7.3	2.5	14190	64	8.0
west virginia	barbour	low 3 up kittanning	2.9	40.0	56.7	13.3	2.3	13150	66	8.0
west virginia	barbour	middle kittanning	1.7	31.1	53.5	15.4	2.1	12820	0	8.0
west virginia	barbour	upper kittanning	3.3	28.4	50.3	21.3	2.1	11810	0	7.0
west virginia	barbour	middle kittanning	1.9	29.5	51.2	19.3	3.2	12250	0	7.5
west virginia	barbour	various	2.1	37.3	52.2	10.5	3.0	13590	0	7.5
west virginia	barbour	various	1.7	36.8	54.4	8.8	2.1	13790	0	8.0
west virginia	barbour	various	2.1	34.1	51.3	10.6	4.2	13460	0	7.0
west virginia	barbour	pittsburgh	2.5	40.0	52.1	7.9	3.5	14010	58	8.0
west virginia	barbour	pittsburgh	2.7	38.2	53.0	8.8	3.2	13860	62	7.5
west virginia	barbour	pittsburgh	5.0	37.0	53.8	9.2	3.6	13820	68	7.5
west virginia	barbour	pittsburgh	4.2	37.8	53.5	9.7	3.3	13930	66	8.0
west virginia	barbour	pittsburgh	4.4	37.2	48.7	14.1	4.0	12940	0	7.0
west virginia	barbour	pittsburgh	3.4	38.1	53.2	8.7	3.5	13820	0	8.0
west virginia	barbour	redstone	7.0	35.2	52.3	12.5	2.9	12610	70	7.5
west virginia	barbour	pittsburgh	2.7	37.9	52.8	9.3	3.3	13880	60	7.5
west virginia	barbour	redstone	2.7	33.9	54.1	12.0	1.4	13180	56	8.5
west virginia	barbour	various	1.9	37.3	53.5	9.2	2.9	13540	0	7.5
west virginia	barbour	various	1.7	39.0	51.1	9.9	4.0	13630	0	7.5
west virginia	barbour	redstone	4.4	34.6	56.8	8.6	1.4	13670	0	7.5
west virginia	barbour	pittsburgh	4.0	37.6	51.4	11.0	3.9	13370	0	7.0
west virginia	barbour	pittsburgh	3.5	38.0	51.0	11.0	3.0	13510	72	8.5
west virginia	barbour	pittsburgh	2.9	37.4	52.2	10.4	2.7	13630	62	8.0
west virginia	barbour	pittsburgh	2.8	34.4	50.7	10.9	3.9	13530	68	8.0
west virginia	barbour	pittsburgh	3.9	37.0	53.3	9.7	3.4	13700	63	7.5
west virginia	barbour	redstone	2.4	37.4	53.8	8.8	1.9	13760	0	8.0
west virginia	barbour	pittsburgh	1.6	38.1	53.2	8.7	2.5	13900	61	7.5
west virginia	barbour	pittsburgh	1.5	34.6	52.8	8.6	3.4	13980	61	8.0
west virginia	barbour	pittsburgh	2.4	37.8	53.0	9.2	3.5	13860	67	7.5
west virginia	barbour	lower kittanning	2.8	29.6	54.5	11.9	0.9	13580	72	8.0
west virginia	barbour	lower kittanning	3.3	29.5	57.1	11.4	1.2	13270	74	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	barbour	lower kittanning	4.3	28.4	58.6	13.0	0.8	13370	74	7.5
west virginia	barbour	redstone	5.5	35.1	55.2	9.7	2.6	13670	64	8.0
west virginia	barbour	redstone	4.3	36.2	53.4	10.4	3.0	13470	0	7.5
west virginia	barbour	redstone	5.0	36.4	51.2	12.4	3.4	13220	0	6.0
west virginia	barbour	redstone	2.2	36.2	55.4	8.4	1.7	13880	57	8.0
west virginia	barbour	pittsburgh	2.5	38.3	51.3	10.4	3.5	13670	61	7.5
west virginia	barbour	pittsburgh	2.0	39.6	51.3	9.1	3.4	13820	60	7.5
west virginia	barbour	pittsburgh	1.2	40.8	49.1	10.1	3.7	13750	0	7.5
west virginia	barbour	various	3.2	36.2	51.6	12.2	3.6	13200	0	7.0
west virginia	barbour	upper kittanning	4.2	30.8	58.5	10.7	2.3	13520	73	8.0
west virginia	barbour	nittsburgh	2.0	38.1	52.8	9.1	3.2	13840	59	8.0
west virginia	barbour	upper freeport	4.2	30.0	57.9	12.1	2.2	13370	72	7.0
west virginia	barbour	bakerstown	3.2	32.1	58.5	9.4	1.7	13950	68	8.0
west virginia	barbour	bakerstown	4.6	31.8	55.4	12.8	3.0	13450	0	6.5
west virginia	barbour	lower kittanning	2.2	29.5	56.1	14.4	0.8	13170	65	7.5
west virginia	barbour	pittsburgh	2.9	38.0	51.0	11.0	4.0	13500	64	9.0
west virginia	barbour	pittsburgh	5.0	37.6	50.8	11.6	4.2	13370	60	7.0
west virginia	barbour	redstone	2.8	36.5	55.6	7.9	2.5	13870	0	8.0
west virginia	barbour	nittsburgh	1.9	39.7	50.3	10.0	4.2	13650	0	7.0
west virginia	barbour	pittsburgh	3.5	37.6	54.7	7.7	2.2	14000	0	8.0
west virginia	barbour	pittsburgh&redstone	2.7	39.8	52.9	7.3	3.1	14130	61	7.5
west virginia	barbour	pittsburgh&redstone	3.1	36.8	53.1	10.1	2.4	13620	60	7.5
west virginia	barbour	redstone	3.1	36.0	57.0	7.0	1.7	14060	60	8.0
west virginia	barbour	pittsburgh	3.5	40.3	50.4	9.3	4.2	13750	59	6.5
west virginia	barbour	redstone	3.5	37.0	55.1	7.9	2.9	13890	59	8.5
west virginia	barbour	redstone	3.7	36.8	54.4	8.8	2.6	13720	62	8.5
west virginia	barbour	nittsburgh	2.9	38.5	53.5	8.0	3.1	13980	63	8.5
west virginia	barbour	pittsburgh	1.9	40.5	50.5	9.0	3.9	13810	63	7.0
west virginia	barbour	pittsburgh	2.4	38.0	51.3	10.7	4.1	13440	64	7.5
west virginia	barbour	redstone	3.1	39.0	51.9	9.1	2.9	13690	0	7.5
west virginia	barbour	nittsburgh	2.4	37.8	48.2	14.0	4.5	12970	56	8.0
west virginia	barbour	pittsburgh	2.9	39.2	51.1	9.7	3.9	13730	64	8.5
west virginia	barbour	redstone	4.9	36.8	54.2	9.0	2.8	13730	63	7.5
west virginia	barbour	redstone	6.6	36.2	54.8	9.0	2.2	13700	0	8.0
west virginia	barbour	nittsburgh	2.1	38.1	50.0	11.9	3.5	13360	61	7.5
west virginia	barbour	pittsburgh	5.7	38.1	49.0	12.9	5.2	13110	0	8.0
west virginia	barbour	pittsburgh	2.2	41.2	49.6	9.2	3.9	13790	0	7.0
west virginia	barbour	redstone	2.5	36.6	53.5	9.9	2.6	13660	60	8.0
west virginia	barbour	redstone	2.4	38.2	53.3	8.5	2.8	13770	58	8.0
west virginia	barbour	pittsburgh	2.8	39.2	51.3	9.5	3.7	13640	58	7.5
west virginia	barbour	pittsburgh&redstone	2.9	36.7	54.3	9.0	2.8	13840	61	7.5
west virginia	barbour	pittsburgh	3.0	36.8	50.9	12.3	5.2	13370	66	8.5
west virginia	barbour	nittsburgh	2.8	38.5	51.7	9.8	4.5	13670	62	7.0
west virginia	barbour	upper freeport	4.1	29.8	49.5	20.7	2.6	11880	69	7.5
west virginia	boone	hernshaw	2.7	36.6	58.2	5.2	0.8	14530	53	6.5
west virginia	boone	alma	3.4	36.8	55.0	8.2	1.8	13880	49	7.5
west virginia	boone	winifrede	6.2	36.0	55.8	8.2	0.7	13370	40	1.5
west virginia	boone	cedar grove	2.6	37.3	55.3	7.4	1.1	14180	55	7.5
west virginia	boone	coalburg	6.5	37.6	55.6	6.8	0.7	13770	0	2.0
west virginia	boone	buffalo creek	3.2	36.1	58.1	5.8	0.9	14330	54	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
west virginia	boone	alma & chilton	3.5	34.7	54.3	11.0	1.3	13400	45	7.0
west virginia	boone	alma & chilton	5.9	34.8	55.0	10.2	1.4	13190	49	3.5
west virginia	boone	alma & chilton	4.6	34.9	55.0	10.1	1.6	13410	49	4.5
west virginia	boone	winifrede	3.6	34.0	56.2	9.8	0.5	13580	55	6.5
west virginia	boone	winifrede	3.8	33.6	57.1	9.3	0.6	13620	50	5.0
west virginia	boone	winifrede	4.1	32.9	53.1	14.0	1.0	12910	0	4.0
west virginia	boone	lower campbell creek	2.6	35.3	55.8	8.9	2.6	13960	56	8.0
west virginia	boone	lower cedar grove	5.5	37.3	56.9	5.8	0.8	14170	49	4.5
west virginia	boone	lower campbell creek	2.6	34.6	56.1	9.3	2.7	13860	55	8.0
west virginia	boone	lower kittanning	3.4	34.4	52.4	13.2	0.8	13010	48	6.5
west virginia	boone	alma	3.1	37.5	55.0	7.5	1.6	14000	48	7.5
west virginia	boone	lower kittanning	4.4	36.8	51.8	11.4	0.9	13070	43	5.0
west virginia	boone	cedar grove	5.5	35.9	57.2	6.9	1.0	13890	49	4.5
west virginia	boone	cedar grove	3.1	37.7	55.0	7.3	1.3	13910	0	4.5
west virginia	boone	cedar grove	4.2	37.0	54.9	8.1	1.2	13750	0	5.0
west virginia	boone	cedar grove & camobl c	3.9	36.4	55.5	8.1	1.4	13730	48	5.5
west virginia	boone	cedar grove	4.3	36.6	53.8	9.6	1.2	13490	43	5.5
west virginia	boone	cedar grove	5.4	35.9	55.7	8.4	0.8	13630	44	6.0
west virginia	boone	lower kittanning	3.2	31.7	49.0	19.3	0.8	12030	46	6.5
west virginia	boone	winifrede	3.4	31.0	44.3	24.7	0.7	11170	41	6.5
west virginia	boone	winifrede	3.6	31.9	58.2	9.9	0.7	13660	42	7.0
west virginia	boone	winifrede	3.5	32.0	55.3	12.7	0.8	13310	55	7.0
west virginia	boone	cedar grove	4.1	35.3	54.5	10.2	0.8	13590	0	7.0
west virginia	boone	cedar grove	9.0	31.7	53.9	14.4	2.3	12730	0	5.5
west virginia	boone	lower campbell creek	9.5	30.0	53.8	16.2	1.1	12420	0	4.0
west virginia	boone	lower kittanning	5.2	34.6	60.0	5.4	0.6	14200	48	6.0
west virginia	boone	hernshaw	2.3	35.3	57.5	7.2	0.8	14260	54	7.5
west virginia	boone	lower kittanning	3.8	37.0	51.0	12.0	0.8	12960	0	3.5
west virginia	boone	alma	2.8	38.2	53.9	7.9	2.3	13900	48	6.5
west virginia	boone	alma	2.8	39.1	53.3	7.6	2.5	14010	49	6.0
west virginia	boone	alma	3.2	38.2	52.7	9.1	2.3	13770	49	7.0
west virginia	boone	alma	3.2	37.6	54.7	7.7	1.8	13900	46	6.5
west virginia	boone	chilton	3.3	36.8	56.5	6.7	0.8	14020	46	6.5
west virginia	boone	chilton	3.6	35.9	56.8	7.3	0.8	13920	48	5.0
west virginia	boone	chilton	3.9	36.1	55.6	8.3	1.9	13710	48	6.0
west virginia	boone	chilton	7.3	32.3	51.6	16.1	0.9	12450	0	5.0
west virginia	boone	chilton	5.5	32.1	50.6	17.3	0.8	12310	0	4.5
west virginia	boone	chilton	4.8	33.9	53.7	12.4	0.8	13140	0	5.5
west virginia	boone	chilton	5.3	33.5	53.0	13.5	0.7	12820	0	6.5
west virginia	boone	chilton	4.3	33.3	51.4	15.3	0.6	12480	0	5.5
west virginia	boone	alma & chilton	8.2	36.0	51.1	12.9	1.9	13090	0	6.5
west virginia	boone	coalburg	4.9	32.9	54.4	12.7	0.6	13250	0	7.0
west virginia	boone	cedar grove	3.4	37.9	55.9	6.2	0.8	14210	0	6.0
west virginia	braxton	pittsburgh	3.0	41.7	50.2	8.1	2.5	13780	53	5.5
west virginia	braxton	pittsburgh	4.2	39.8	49.8	10.4	3.0	13370	60	6.5
west virginia	braxton	pittsburgh	3.1	39.8	50.5	9.7	2.7	13470	53	6.0
west virginia	braxton	pittsburgh	3.9	40.1	50.2	9.7	3.2	13420	0	5.5
west virginia	branke	pittsburgh	4.3	38.3	51.0	10.7	3.5	13190	56	6.5
west virginia	brooke	pittsburgh	3.7	39.6	50.0	10.4	3.3	13200	53	6.5
west virginia	clay	middle kittanning	2.6	36.5	52.4	11.1	1.1	13300	48	5.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
west virginia	clay	middle kittanning	3.1	38.8	52.1	9.1	0.8	13730	43	6.0
west virginia	clay	clarion	1.7	37.9	51.8	10.3	0.6	13640	38	3.5
west virginia	clay	upper kittanning	3.6	38.1	52.6	9.3	2.0	13630	52	6.5
west virginia	clay	lower kittanning	5.2	37.6	53.7	8.7	0.7	13800	0	6.5
west virginia	clay	lower kittanning	3.4	37.0	55.9	7.1	0.7	14060	45	6.5
west virginia	clay	lower kittanning	4.8	35.2	55.7	9.1	0.7	13590	0	3.0
west virginia	fayette	fire creek	3.4	19.8	74.9	5.3	0.8	14860	++	8.0
west virginia	fayette	pocahontas no 6	4.6	18.8	72.7	8.5	0.7	14270	98	7.5
west virginia	fayette	pocahontas no 6	4.4	19.9	73.8	6.3	0.7	14510	0	7.0
west virginia	fayette	pocahontas no 6	2.1	19.2	75.1	5.7	0.9	14680	0	8.5
west virginia	fayette	lower cambell creek	2.3	34.3	60.0	5.7	0.8	14350	0	8.0
west virginia	fayette	pocahontas 6&fire ck	2.9	19.3	75.1	5.6	0.8	14810	++	8.5
west virginia	fayette	pocahontas 6&fire ck	7.2	20.6	72.4	7.0	0.7	14180	0	3.0
west virginia	fayette	pocahontas no 6	3.1	18.3	72.4	9.3	0.8	14100	0	7.5
west virginia	fayette	sewell	2.8	27.3	67.1	5.6	0.6	14640	82	8.5
west virginia	fayette	sewell	2.5	26.3	65.8	7.9	0.8	14210	0	8.0
west virginia	fayette	eagle	5.4	31.5	57.6	10.9	0.9	13600	0	8.0
west virginia	fayette	eagle	2.1	33.5	58.7	7.8	0.6	14140	56	5.5
west virginia	fayette	eagle	2.7	33.3	60.9	5.8	0.8	14480	59	8.5
west virginia	fayette	l campbell ck&powltn	5.1	27.3	66.0	6.7	0.7	14440	0	8.0
west virginia	fayette	l campbell ck&powltn	4.7	30.0	62.9	7.1	0.6	14410	0	4.5
west virginia	fayette	l campbell ck&powltn	5.6	29.2	64.2	6.6	0.8	14600	80	7.0
west virginia	fayette	eagle	2.2	31.5	62.5	6.0	0.9	14700	71	7.0
west virginia	fayette	eagle	3.3	30.6	61.5	7.9	0.9	14260	0	7.0
west virginia	fayette	eagle	4.9	30.5	61.2	8.3	0.8	14090	0	3.5
west virginia	fayette	little eagle	2.0	30.6	64.9	4.5	0.8	14780	0	8.5
west virginia	fayette	sewell	3.0	22.3	74.2	3.5	0.7	15060	95	9.0
west virginia	fayette	pocahontas no 6	2.2	20.4	66.1	13.5	1.0	13300	87	8.0
west virginia	fayette	pocahontas no 6	2.1	21.5	68.4	10.1	0.9	13960	0	8.5
west virginia	fayette	lower cambell creek	3.7	33.4	60.3	6.3	0.8	14380	55	7.5
west virginia	fayette	lower cambell creek	3.0	34.1	59.0	6.9	0.9	14280	53	7.5
west virginia	fayette	eagle	2.7	29.1	66.3	4.6	0.8	14890	0	8.0
west virginia	fayette	fire creek	3.8	18.5	74.9	6.6	1.4	14550	++	8.5
west virginia	fayette	fire creek	3.8	18.9	73.3	7.8	0.9	14420	0	8.5
west virginia	fayette	sewell	2.9	24.1	68.0	7.9	0.7	14380	0	8.0
west virginia	fayette	coalburg	3.0	35.4	57.2	7.4	0.9	14060	0	7.0
west virginia	fayette	sewell	2.2	26.5	69.5	4.0	0.7	14850	0	8.5
west virginia	fayette	sewell	8.2	23.3	72.0	4.7	0.7	14790	++	8.5
west virginia	fayette	sewell	2.6	24.7	71.7	3.6	0.5	14860	0	8.0
west virginia	fayette	sewell	4.2	23.9	71.7	4.4	0.8	14850	94	8.0
west virginia	fayette	sewell	4.8	24.6	70.0	5.4	0.8	14790	0	8.5
west virginia	fayette	sewell & fire creek	3.5	22.1	71.9	6.0	0.6	14720	0	9.0
west virginia	fayette	fire creek	1.9	25.0	68.0	7.0	0.8	14240	88	7.5
west virginia	fayette	lower cambell creek	5.5	33.6	62.6	3.8	0.6	14370	65	7.0
west virginia	fayette	sewell	3.4	26.2	67.8	6.0	0.6	14540	0	7.5
west virginia	fayette	sewell	3.6	26.5	67.8	5.7	0.5	14590	0	7.5
west virginia	fayette	lower kittanning	4.7	35.6	58.5	5.9	0.7	14120	45	5.5
west virginia	fayette	lower kittanning	3.1	35.4	59.3	5.3	0.7	14250	44	6.0
west virginia	fayette	sewell	4.1	24.4	71.5	4.1	0.7	15000	++	9.0
west virginia	fayette	sewell	4.8	23.5	70.3	6.7	0.8	14550	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
west virginia	fayette	sewell	4.3	22.5	73.1	4.4	0.6	14990	**	9.0
west virginia	fayette	sewell	3.6	23.8	70.6	5.6	1.1	14720	0	8.5
west virginia	fayette	sewell	3.1	23.9	70.1	6.0	1.3	14670	0	9.0
west virginia	fayette	fire creek	2.9	20.1	69.4	10.5	1.0	13980	0	9.0
west virginia	fayette	various	6.0	32.0	62.4	5.6	0.7	14170	56	2.0
west virginia	fayette	lower campbell creek	2.7	33.5	60.3	6.2	0.9	14430	59	9.0
west virginia	fayette	eagle	3.5	29.7	61.4	8.9	0.6	14070	66	8.0
west virginia	fayette	little eagle	2.1	32.7	59.6	7.7	0.8	14340	61	6.0
west virginia	fayette	fire creek	2.1	18.4	71.0	10.6	1.3	13910	96	9.0
west virginia	fayette	fire creek	3.1	19.3	74.3	6.4	0.9	14700	0	9.0
west virginia	fayette	fire creek	4.0	20.2	71.5	8.3	0.8	14250	0	9.0
west virginia	fayette	little eagle	3.7	31.3	62.2	6.5	0.8	14560	0	6.5
west virginia	fayette	sewell	3.4	26.1	68.8	5.1	0.5	14740	0	8.5
west virginia	fayette	little eagle	2.5	33.0	58.4	8.6	0.8	14040	58	8.0
west virginia	fayette	powellton	4.2	30.2	61.1	8.7	0.8	14210	71	9.0
west virginia	fayette	eagle	5.3	31.3	62.2	6.5	0.6	14540	73	7.5
west virginia	fayette	fire creek	4.4	20.6	70.4	9.0	0.7	14140	0	9.0
west virginia	fayette	lower campbell creek	2.6	35.4	57.9	6.7	1.1	14290	54	9.0
west virginia	fayette	fire creek	2.3	22.1	71.6	6.3	1.2	14640	0	9.0
west virginia	fayette	lower campbell creek	4.4	29.5	64.8	5.7	0.7	14710	0	8.0
west virginia	fayette	sewell	3.3	26.1	67.1	6.8	0.5	14480	0	8.5
west virginia	fayette	sewell	3.5	25.8	68.1	6.1	0.5	14590	0	8.0
west virginia	fayette	eagle	6.7	28.6	65.3	6.1	0.7	14120	88	4.0
west virginia	fayette	little eagle	3.5	31.8	62.7	5.5	0.7	14760	0	6.5
west virginia	fayette	coalburg	2.7	35.6	58.3	6.1	0.8	14320	0	7.0
west virginia	fayette	eagle	2.3	29.5	65.8	4.7	1.1	14870	86	8.0
west virginia	fayette	eagle	3.4	29.1	65.2	5.7	0.8	14770	86	8.5
west virginia	fayette	eagle	3.6	28.7	64.5	6.8	0.9	14480	85	8.0
west virginia	fayette	eagle	3.7	30.8	61.7	7.5	0.7	14090	0	8.0
west virginia	fayette	eagle	3.2	29.6	63.8	6.6	0.9	14410	0	8.5
west virginia	fayette	lower campbell creek	1.9	32.0	60.6	7.4	1.7	14290	0	8.0
west virginia	fayette	various	2.9	28.5	65.5	6.0	0.7	14690	0	8.0
west virginia	fayette	sewell	3.3	24.3	68.5	7.2	0.8	14430	0	9.0
west virginia	fayette	coalburg	4.3	34.8	57.2	8.0	0.8	13960	0	6.5
west virginia	fayette	coalburg	3.4	35.8	56.3	7.9	0.9	14020	43	6.5
west virginia	fayette	lower campbell creek	4.0	34.5	60.3	5.2	0.8	14490	53	8.0
west virginia	fayette	lower campbell creek	3.3	30.0	60.5	9.5	1.0	13940	67	9.0
west virginia	fayette	eagle & little eagle	3.3	30.5	62.7	6.8	1.0	14450	74	9.0
west virginia	fayette	sewell	3.7	24.3	69.2	6.5	1.0	14550	0	8.5
west virginia	fayette	lower campbell creek	2.3	32.8	62.3	4.9	1.3	14680	61	7.0
west virginia	fayette	campbell creek pearl	2.1	34.7	57.5	7.8	2.2	14210	59	6.5
west virginia	fayette	lower campbell creek	3.7	30.6	59.1	10.3	0.8	13750	61	9.0
west virginia	fayette	fire creek	3.0	19.0	74.6	6.4	1.0	14550	0	7.0
west virginia	fayette	sewell	3.1	26.2	65.1	8.7	0.8	14150	0	8.5
west virginia	fayette	sewell	3.0	25.2	63.8	11.0	0.5	13780	0	8.0
west virginia	fayette	fire creek	5.0	21.4	72.2	6.4	0.7	14690	99	9.0
west virginia	fayette	sewell	3.1	24.0	71.4	4.6	0.8	14830	0	9.0
west virginia	gilmer	pittsburgh	5.1	40.1	50.5	9.4	2.3	13490	55	6.0
west virginia	gilmer	pittsburgh	4.3	40.8	50.1	9.1	2.5	13580	50	5.5
west virginia	gilmer	pittsburgh	7.7	37.7	47.8	14.5	2.6	12560	0	5.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hqilo	fsilo
west virginia	gilmer	nittsburqh	4.2	40.6	49.7	9.7	2.7	13470	0	5.5
west virginia	gilmer	nittsburqh	3.8	39.6	49.2	11.2	2.8	13140	53	7.0
west virginia	gilmer	pittsburgh	3.6	39.0	51.3	9.7	2.6	13440	55	7.0
west virginia	gilmer	nittsburqh	5.3	40.3	50.8	8.9	2.8	13570	56	6.5
west virginia	gilmer	nittsburqh	3.1	39.8	52.2	8.0	1.7	13780	54	6.5
west virginia	grant	bakerstown	2.5	15.4	56.8	27.8	1.9	11050	83	5.5
west virginia	grant	elk lick	2.9	17.3	61.0	21.7	3.9	12060	86	8.5
west virginia	grant	bakerstown	3.0	16.3	72.6	11.1	2.1	13870	**	7.5
west virginia	grant	bakerstown	8.8	22.9	61.6	15.5	1.3	12730	0	3.5
west virginia	grant	bakerstown	6.1	26.2	64.8	9.0	2.3	13840	0	7.0
west virginia	grant	l douglas & l faeger	9.2	24.3	64.3	11.4	1.8	13450	0	5.5
west virginia	grant	bakerstown&u freeprt	3.1	22.2	67.6	10.2	0.9	13930	**	9.0
west virginia	grant	bakerstown	3.3	16.4	76.8	6.8	0.6	14650	**	9.0
west virginia	greenbrier	sewell	3.5	27.3	68.0	4.7	1.2	14770	82	9.0
west virginia	greenbrier	fire creek	3.6	21.8	63.6	14.6	1.1	13130	84	8.5
west virginia	greenbrier	sewell	7.5	27.7	68.7	3.6	0.8	14950	0	8.5
west virginia	greenbrier	sewell	3.4	26.2	63.1	10.7	0.9	13720	70	8.0
west virginia	greenbrier	sewell	3.5	27.2	68.7	4.1	1.0	14930	0	9.0
west virginia	greenbrier	sewell	3.8	27.0	68.4	4.6	1.0	14760	82	8.5
west virginia	greenbrier	sewell	2.9	26.8	66.7	6.5	1.2	14540	80	9.0
west virginia	greenbrier	sewell	6.8	26.9	68.3	4.8	1.1	14500	86	7.0
west virginia	greenbrier	sewell	5.2	27.6	66.9	5.5	0.8	14690	80	7.5
west virginia	greenbrier	beckley	7.2	24.9	64.5	10.6	1.3	13810	81	8.0
west virginia	greenbrier	sewell	3.2	27.7	67.9	4.4	0.8	14820	85	9.0
west virginia	greenbrier	sewell	3.4	27.0	63.8	9.2	1.1	13930	0	8.0
west virginia	greenbrier	sewell	3.8	27.4	67.0	5.6	1.1	14450	82	8.5
west virginia	greenbrier	sewell	3.7	26.7	66.4	6.9	1.1	14400	80	9.0
west virginia	greenbrier	sewell	4.2	26.8	66.7	6.5	1.2	14490	0	8.5
west virginia	greenbrier	fire creek	2.4	24.0	72.5	3.5	0.8	15110	0	9.0
west virginia	greenbrier	fire creek	2.6	20.1	69.3	10.6	1.1	13910	93	8.5
west virginia	greenbrier	sewell	2.6	27.5	65.6	6.9	1.0	14390	0	8.5
west virginia	greenbrier	sewell	2.9	27.3	68.1	4.6	1.4	14720	0	8.5
west virginia	greenbrier	sewell	3.6	26.1	68.2	5.7	1.3	14530	86	9.0
west virginia	greenbrier	sewell	2.8	27.0	69.8	3.2	1.1	15000	0	8.5
west virginia	greenbrier	fire creek	2.8	18.7	70.9	10.4	1.2	13960	97	8.0
west virginia	greenbrier	sewell	2.7	23.1	72.8	4.1	0.8	15010	97	9.0
west virginia	greenbrier	sewell & fire creek	4.0	23.1	69.9	7.0	1.2	14420	89	9.0
west virginia	greenbrier	beckley	4.9	25.1	66.2	8.7	1.2	14090	84	7.5
west virginia	greenbrier	fire creek	2.1	20.5	72.0	7.5	1.4	14480	**	9.0
west virginia	greenbrier	various	4.5	24.9	67.5	7.6	1.4	14310	0	6.5
west virginia	greenbrier	various	4.6	24.8	67.9	7.3	1.3	14380	0	8.0
west virginia	greenbrier	various	4.8	25.3	68.2	6.5	1.5	14420	0	8.5
west virginia	greenbrier	various	4.5	24.7	68.2	7.6	1.0	14280	0	7.5
west virginia	greenbrier	various	4.0	24.8	68.3	6.9	1.2	14390	0	8.5
west virginia	greenbrier	various	4.6	24.7	66.9	8.4	1.3	13980	0	3.0
west virginia	greenbrier	various	3.4	25.1	68.0	6.9	1.4	14310	0	6.0
west virginia	greenbrier	various	4.3	25.4	68.1	6.5	1.6	14430	0	6.0
west virginia	greenbrier	various	7.3	26.1	68.2	5.7	1.5	14460	0	8.0
west virginia	greenbrier	beckley	3.3	25.3	69.1	5.6	1.5	14640	95	8.5
west virginia	greenbrier	nocanontas no 6	3.2	22.5	69.9	7.5	0.8	14460	97	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	greenbrier	pocahontas 6&beckley	3.4	24.6	67.4	8.0	1.3	14280	0	8.0
west virginia	greenbrier	fire creek	2.7	22.1	72.3	5.6	0.8	14830	**	9.0
west virginia	greenbrier	fire creek	2.8	22.3	72.4	5.3	0.8	14850	0	9.0
west virginia	greenbrier	sewell	4.5	26.5	68.9	4.6	1.0	14750	88	8.5
west virginia	greenbrier	sewell	4.6	26.5	68.1	5.4	0.8	14710	88	9.0
west virginia	greenbrier	fire creek	2.1	22.0	71.3	6.7	0.8	14620	97	9.0
west virginia	greenbrier	fire creek	3.6	21.5	67.5	11.0	1.1	13890	0	9.0
west virginia	greenbrier	fire creek	3.4	23.0	69.3	7.7	0.9	14490	0	9.0
west virginia	greenbrier	sewell	3.7	29.2	67.3	3.5	0.7	14930	79	8.5
west virginia	greenbrier	sewell	3.2	28.1	68.7	3.2	0.6	15090	0	8.0
west virginia	greenbrier	pocahontas no 6	2.6	24.0	67.4	8.6	1.1	14330	85	8.5
west virginia	harrison	pittsburgh	4.2	38.7	52.0	9.3	2.8	13700	57	7.5
west virginia	harrison	pittsburgh	3.8	38.6	51.7	9.7	3.1	13530	61	7.5
west virginia	harrison	pittsburgh	4.8	36.5	53.0	10.5	2.4	13330	0	7.0
west virginia	harrison	pittsburgh	4.2	40.3	52.1	7.6	3.9	13830	0	8.0
west virginia	harrison	pittsburgh&redstone	3.9	38.5	54.5	7.0	1.8	13820	58	7.0
west virginia	harrison	pittsburgh	2.7	39.4	50.9	9.7	3.4	13590	59	7.5
west virginia	harrison	pittsburgh	4.1	36.8	56.8	6.4	1.4	14090	55	8.0
west virginia	harrison	pittsburgh	2.9	38.9	52.6	8.5	3.0	13910	59	7.0
west virginia	harrison	pittsburgh	2.7	40.4	50.2	9.4	4.5	13770	59	8.0
west virginia	harrison	pittsburgh	3.2	40.3	50.4	9.3	3.3	13640	0	8.0
west virginia	harrison	pittsburgh	3.5	40.2	50.3	9.5	3.6	13560	0	7.5
west virginia	harrison	pittsburgh	2.7	37.0	49.3	13.7	4.1	12870	55	7.5
west virginia	harrison	pittsburgh	2.5	42.3	50.9	6.8	2.9	14170	59	8.5
west virginia	harrison	pittsburgh	2.1	41.4	50.5	8.1	3.7	13870	57	7.5
west virginia	harrison	redstone	3.1	37.3	51.7	11.0	2.4	13250	0	7.0
west virginia	harrison	redstone	3.4	39.8	52.0	8.2	3.5	13710	0	7.5
west virginia	harrison	pittsburgh	3.4	38.8	50.8	10.4	2.8	13480	61	8.5
west virginia	harrison	pittsburgh	6.7	40.3	51.1	8.6	3.8	13710	63	7.5
west virginia	harrison	pittsburgh	4.5	39.8	49.9	10.3	4.3	13440	0	7.5
west virginia	harrison	pittsburgh	2.1	41.6	49.4	9.0	4.3	13690	0	7.5
west virginia	harrison	pittsburgh	2.7	43.8	47.1	9.1	4.8	13450	0	8.0
west virginia	harrison	pittsburgh	3.5	39.1	53.2	7.7	3.1	13890	62	8.0
west virginia	harrison	pittsburgh	5.7	38.4	53.1	8.5	2.4	13810	0	7.0
west virginia	harrison	pittsburgh	4.0	41.5	48.8	9.7	4.1	13560	54	6.0
west virginia	harrison	pittsburgh	5.0	42.0	49.4	8.6	4.0	13660	0	7.5
west virginia	harrison	pittsburgh	7.2	41.2	50.4	8.4	3.9	13750	0	6.0
west virginia	harrison	pittsburgh	6.4	42.1	48.8	9.1	4.2	13650	0	7.0
west virginia	harrison	pittsburgh	5.2	40.1	50.6	9.3	3.1	13570	61	8.0
west virginia	harrison	pittsburgh	3.6	40.5	51.6	7.9	3.6	13890	57	6.5
west virginia	harrison	pittsburgh	3.7	41.5	50.1	8.4	3.6	13760	0	8.0
west virginia	harrison	pittsburgh	3.9	41.6	51.0	7.4	3.4	13880	0	7.5
west virginia	harrison	pittsburgh	4.7	39.6	52.2	8.2	3.4	13810	60	7.5
west virginia	harrison	pittsburgh	2.4	41.4	50.0	8.6	4.1	13660	61	7.5
west virginia	harrison	pittsburgh	2.9	41.5	49.6	8.9	3.9	13680	59	7.5
west virginia	harrison	pittsburgh	3.4	41.4	49.7	8.9	4.3	13720	57	7.5
west virginia	harrison	pittsburgh	2.8	42.9	48.1	9.0	4.0	13720	57	7.0
west virginia	harrison	pittsburgh	3.3	41.0	48.9	10.1	4.0	13450	0	7.5
west virginia	harrison	pittsburgh	3.4	40.7	49.6	9.7	3.6	13530	55	7.0
west virginia	harrison	pittsburgh	3.3	38.7	51.5	9.8	4.0	13550	56	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	harrison	pittsburgh	2.2	42.0	50.2	7.8	3.2	13970	56	8.0
west virginia	harrison	pittsburgh	1.9	40.6	51.0	8.4	3.1	13790	0	7.0
west virginia	harrison	pittsburgh	2.1	39.1	51.3	9.6	3.3	13600	0	8.0
west virginia	harrison	pittsburgh	2.0	40.4	50.8	8.8	3.5	13730	0	7.0
west virginia	harrison	pittsburgh	1.5	40.7	51.5	7.8	3.1	13860	0	7.5
west virginia	harrison	pittsburgh	1.7	40.2	50.2	9.6	3.9	13590	0	7.0
west virginia	harrison	pittsburgh	1.8	40.6	50.0	9.4	3.7	13670	0	7.0
west virginia	harrison	pittsburgh	1.5	39.9	49.9	10.2	4.5	13540	0	7.0
west virginia	harrison	pittsburgh	2.8	39.4	51.7	8.9	3.1	13730	0	8.0
west virginia	harrison	pittsburgh	2.9	39.0	52.7	8.3	2.8	13780	0	7.0
west virginia	harrison	pittsburgh	2.4	39.7	52.1	8.2	2.7	13720	0	7.5
west virginia	harrison	pittsburgh	3.0	40.2	51.5	8.3	3.0	13810	0	7.5
west virginia	harrison	pittsburgh	2.1	40.0	51.4	8.6	3.3	13740	0	8.0
west virginia	harrison	pittsburgh	2.3	39.4	51.6	9.0	3.4	13700	0	7.0
west virginia	harrison	pittsburgh	***	37.8	52.2	10.0	2.9	13160	69	7.0
west virginia	harrison	pittsburgh	2.6	38.4	51.9	9.7	3.3	13630	0	7.5
west virginia	harrison	pittsburgh	1.7	38.0	52.6	9.4	3.4	13710	0	8.5
west virginia	harrison	pittsburgh	1.9	37.5	53.3	9.2	2.8	13740	0	7.0
west virginia	harrison	pittsburgh	1.3	38.8	50.9	10.3	4.2	13570	0	8.0
west virginia	harrison	pittsburgh	1.3	39.2	52.4	8.4	2.7	13990	0	7.0
west virginia	harrison	pittsburgh	1.7	37.9	52.8	9.3	2.9	13740	0	7.0
west virginia	harrison	pittsburgh	1.5	38.8	53.0	8.2	2.8	13980	0	7.0
west virginia	harrison	pittsburgh	2.1	38.6	53.6	7.8	2.8	13940	0	8.0
west virginia	harrison	pittsburgh	1.9	38.6	53.0	8.4	2.8	13880	0	8.5
west virginia	harrison	pittsburgh	2.0	37.4	53.4	9.2	2.9	13750	0	7.5
west virginia	harrison	pittsburgh	2.4	39.1	52.3	8.6	3.2	13890	0	7.5
west virginia	harrison	pittsburgh	2.3	38.7	53.2	8.1	2.6	13910	0	7.5
west virginia	harrison	pittsburgh	2.1	38.3	53.0	8.7	3.2	13800	0	7.5
west virginia	harrison	pittsburgh	1.8	38.6	51.9	9.5	3.6	13720	0	7.5
west virginia	harrison	pittsburgh	4.5	36.9	54.8	8.3	2.2	13820	0	7.0
west virginia	harrison	pittsburgh	2.0	38.3	51.7	10.0	3.3	13620	0	8.0
west virginia	harrison	pittsburgh	8.2	35.8	57.2	7.0	2.1	13920	68	7.5
west virginia	harrison	pittsburgh	3.2	37.7	51.7	10.6	3.5	13520	59	7.5
west virginia	harrison	pittsburgh	6.0	38.4	50.8	10.8	4.5	13510	0	8.0
west virginia	harrison	pittsburgh	2.5	39.2	52.5	8.3	3.2	13940	57	7.0
west virginia	harrison	pittsburgh	2.4	39.8	52.5	7.7	3.0	14000	60	8.0
west virginia	harrison	pittsburgh	3.0	39.3	52.7	8.0	3.3	13910	59	8.0
west virginia	harrison	pittsburgh	3.6	39.5	49.6	10.9	4.2	13220	62	7.0
west virginia	harrison	pittsburgh	4.0	40.1	50.0	9.9	3.4	13380	59	7.5
west virginia	harrison	pittsburgh	4.0	40.6	49.8	9.6	3.4	13430	60	7.0
west virginia	harrison	pittsburgh	4.6	40.9	49.9	9.2	3.5	13570	55	7.0
west virginia	harrison	pittsburgh	5.4	41.1	50.1	8.8	4.0	13680	57	6.5
west virginia	harrison	pittsburgh	4.2	41.2	48.7	10.1	3.6	13450	59	6.5
west virginia	harrison	redstone	2.9	35.6	52.4	12.0	3.7	13170	0	7.5
west virginia	harrison	pittsburgh	5.7	38.2	53.2	8.6	3.2	13820	66	7.5
west virginia	harrison	pittsburgh	2.6	39.1	52.5	8.4	3.1	13760	60	7.0
west virginia	harrison	pittsburgh	7.6	39.2	50.4	10.4	3.8	13500	61	7.5
west virginia	harrison	pittsburgh	6.2	39.6	52.3	8.1	3.7	13830	61	8.0
west virginia	harrison	pittsburgh&redstone	3.0	39.8	51.8	8.4	3.6	13770	59	6.5
west virginia	harrison	redstone	2.4	41.4	50.3	8.3	2.6	13800	0	8.0

state	county	hed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	harrison	pittsburgh	3.9	41.4	49.6	9.0	3.7	13680	0	7.5
west virginia	harrison	pittsburgh&redstone	3.1	38.8	51.6	9.6	3.4	13590	61	7.0
west virginia	harrison	pittsburgh	3.2	39.4	50.5	10.1	3.9	13540	60	7.0
west virginia	harrison	nittsburgh	4.8	39.2	49.8	11.0	4.4	13350	60	8.0
west virginia	harrison	pittsburgh	5.6	39.0	50.7	10.3	4.8	13510	61	7.0
west virginia	harrison	pittsburgh	3.5	39.4	51.2	9.4	3.6	13640	60	7.0
west virginia	harrison	pittsburgh	3.1	39.8	49.8	10.4	3.9	13430	57	8.5
west virginia	harrison	pittsburgh	3.0	40.5	49.8	9.7	4.2	13580	60	7.5
west virginia	harrison	pittsburgh	3.7	40.3	50.9	8.8	3.2	13740	59	8.0
west virginia	harrison	pittsburgh	5.3	36.3	50.5	13.2	4.1	12850	0	7.5
west virginia	harrison	pittsburgh	3.1	40.0	53.4	6.6	2.5	14170	0	8.0
west virginia	harrison	pittsburgh	2.8	40.2	52.3	7.5	3.1	14040	55	7.5
west virginia	harrison	pittsburgh	3.4	40.1	50.4	9.5	3.6	13580	0	8.0
west virginia	harrison	pittsburgh	3.0	40.6	50.9	8.5	3.5	13880	60	7.0
west virginia	harrison	pittsburgh	2.5	40.2	51.9	7.9	2.9	13930	0	6.5
west virginia	harrison	pittsburgh	3.2	40.9	50.7	8.4	3.1	13730	54	7.5
west virginia	harrison	pittsburgh	2.3	40.5	52.5	7.0	2.4	14110	0	7.5
west virginia	harrison	pittsburgh	4.2	39.1	53.0	7.9	2.9	13930	59	8.0
west virginia	harrison	pittsburgh	3.2	40.9	51.1	8.0	3.1	13720	56	7.5
west virginia	harrison	pittsburgh	1.6	41.9	50.2	7.9	3.7	13880	59	8.0
west virginia	harrison	redstone	3.3	38.2	48.2	13.6	2.8	12890	58	6.5
west virginia	harrison	redstone	3.4	37.5	51.1	11.4	3.1	13220	59	7.0
west virginia	harrison	redstone	3.9	34.0	50.1	11.9	3.4	13100	57	6.5
west virginia	harrison	redstone	3.3	38.7	52.1	9.2	2.1	13500	55	7.5
west virginia	harrison	pittsburgh	4.2	41.2	48.9	9.9	4.4	13480	58	7.5
west virginia	harrison	pittsburgh	3.2	39.3	49.4	11.3	3.7	13290	60	7.5
west virginia	harrison	pittsburgh	2.9	40.8	52.1	7.1	3.5	13870	56	7.5
west virginia	harrison	pittsburgh&redstone	3.5	39.6	51.3	9.1	3.2	13620	58	8.0
west virginia	harrison	pittsburgh&redstone	2.7	40.9	51.8	7.3	3.7	13930	61	7.5
west virginia	harrison	pittsburgh	3.7	40.1	46.6	13.3	4.1	12930	55	7.5
west virginia	harrison	pittsburgh	3.2	41.8	49.4	8.8	4.0	13630	0	8.5
west virginia	harrison	pittsburgh	2.5	37.9	53.6	8.5	2.7	13830	59	7.5
west virginia	harrison	nittsburgh	4.1	38.5	55.6	5.9	1.4	14120	56	8.0
west virginia	harrison	pittsburgh	4.0	39.9	51.6	8.5	3.4	13790	0	8.0
west virginia	harrison	pittsburgh	5.1	38.9	53.3	7.8	3.5	13900	0	8.0
west virginia	harrison	pittsburgh	3.8	39.4	52.1	8.5	3.8	13780	61	7.0
west virginia	harrison	pittsburgh	4.0	39.0	53.2	7.8	3.8	13860	63	8.0
west virginia	harrison	redstone	2.8	35.4	55.2	9.4	2.0	13620	0	8.5
west virginia	harrison	pittsburgh	2.0	40.6	50.4	9.0	4.8	13660	60	7.5
west virginia	harrison	pittsburgh&redstone	3.5	36.1	56.0	7.9	2.3	13880	60	8.0
west virginia	harrison	nittsburgh	3.8	40.0	50.8	9.2	3.0	13660	60	7.5
west virginia	harrison	pittsburgh	2.3	41.1	50.4	8.5	3.4	13750	58	7.5
west virginia	harrison	pittsburgh	3.0	40.2	51.3	8.5	3.7	13690	56	6.5
west virginia	harrison	pittsburgh	2.9	40.0	50.3	9.7	3.9	13650	54	7.0
west virginia	harrison	pittsburgh	5.5	40.4	50.5	9.1	3.5	13610	56	7.0
west virginia	harrison	pittsburgh	4.2	40.8	50.7	8.5	3.1	13690	57	7.0
west virginia	harrison	pittsburgh	3.1	40.6	49.9	9.5	4.4	13590	57	6.0
west virginia	harrison	pittsburgh	3.1	41.1	49.4	9.5	4.9	13500	53	7.5
west virginia	harrison	nittsburgh	3.2	39.7	51.0	9.3	3.7	13690	55	8.0
west virginia	harrison	pittsburgh	2.9	41.0	50.2	8.8	4.4	13680	0	7.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	harrison	pittsburgh	2.5	40.9	49.9	9.2	3.4	13680	58	7.0
west virginia	harrison	pittsburgh	3.2	39.1	49.5	11.4	4.0	13340	54	7.0
west virginia	harrison	pittsburgh	4.5	40.8	49.7	9.5	3.8	13480	61	8.0
west virginia	harrison	pittsburgh	2.5	39.0	53.3	7.7	2.4	13970	0	7.5
west virginia	harrison	pittsburgh	3.8	38.4	53.3	8.3	1.6	13820	53	8.5
west virginia	harrison	pittsburgh	2.7	39.3	51.7	9.0	2.9	13670	54	7.5
west virginia	harrison	pittsburgh	2.7	40.3	51.7	8.0	3.5	13950	0	7.0
west virginia	harrison	pittsburgh	4.0	37.9	53.7	8.4	2.5	13850	0	7.5
west virginia	harrison	pittsburgh	4.0	37.9	53.7	8.4	2.5	13850	0	7.5
west virginia	harrison	pittsburgh	2.8	41.4	51.0	7.6	2.6	13870	53	7.5
west virginia	harrison	pittsburgh	3.1	40.3	51.1	8.6	4.2	13810	56	7.0
west virginia	harrison	pittsburgh	3.0	39.8	50.7	9.5	4.4	13630	58	7.5
west virginia	harrison	pittsburgh	4.0	41.0	49.0	10.0	4.0	13560	58	7.0
west virginia	harrison	pittsburgh	5.8	41.4	48.6	10.0	3.9	13520	57	7.0
west virginia	harrison	pittsburgh	2.8	39.8	50.6	9.6	3.7	13600	57	7.0
west virginia	harrison	pittsburgh	2.4	41.4	50.0	8.6	4.0	13750	0	6.5
west virginia	harrison	pittsburgh	2.5	40.4	50.1	9.5	4.0	13650	59	7.5
west virginia	harrison	pittsburgh	3.5	39.7	50.4	9.9	4.2	13550	59	7.0
west virginia	harrison	pittsburgh	2.5	40.0	50.5	9.5	4.0	13580	0	6.0
west virginia	harrison	pittsburgh	6.9	39.4	49.8	10.8	4.7	13350	0	8.0
west virginia	harrison	redstone	4.4	34.1	54.7	11.2	1.9	13270	61	7.0
west virginia	harrison	pittsburgh	5.4	39.5	52.1	8.4	3.0	13700	63	8.0
west virginia	harrison	pittsburgh	2.9	42.1	50.0	7.9	4.1	13950	60	7.5
west virginia	harrison	pittsburgh	3.9	38.2	54.8	7.0	2.5	13990	59	8.0
west virginia	harrison	pittsburgh	3.1	42.9	48.6	8.5	4.0	13710	53	6.5
west virginia	harrison	pittsburgh	4.8	40.8	50.8	8.4	3.0	13610	57	7.0
west virginia	harrison	pittsburgh	3.0	41.7	50.6	7.7	3.8	13820	56	7.5
west virginia	harrison	pittsburgh	2.9	42.0	49.8	8.2	3.8	13790	56	5.5
west virginia	harrison	pittsburgh	5.0	42.1	49.6	8.3	3.1	13800	57	7.5
west virginia	harrison	pittsburgh	2.7	42.3	48.6	9.1	4.4	13530	58	7.0
west virginia	harrison	pittsburgh	1.9	40.2	51.8	8.0	2.9	13840	61	7.5
west virginia	harrison	pittsburgh	2.8	38.0	53.3	8.7	1.9	13820	59	7.5
west virginia	harrison	pittsburgh	2.1	40.2	50.7	9.1	3.4	13790	55	6.5
west virginia	harrison	redstone	2.8	36.0	54.9	9.1	2.0	13690	59	7.5
west virginia	kanawha	pittsburgh	4.2	39.9	53.4	6.7	2.0	13760	0	5.0
west virginia	kanawha	pittsburgh	4.0	41.8	52.0	6.2	2.0	13830	0	5.0
west virginia	kanawha	winifrede	2.9	34.1	61.7	4.2	0.5	14100	0	6.5
west virginia	kanawha	lower kittanning	2.9	35.4	51.1	13.5	0.7	12920	43	5.0
west virginia	kanawha	lower kittanning	3.2	34.7	51.6	13.7	0.8	12840	42	5.0
west virginia	kanawha	cedar grove	3.1	37.8	57.0	5.2	0.7	14410	44	7.0
west virginia	kanawha	lower kittanning	3.8	31.8	42.7	25.5	1.1	10790	0	3.0
west virginia	kanawha	lower kittanning	5.2	33.6	50.9	15.5	0.7	12350	43	1.0
west virginia	kanawha	coalburq&l kittannin	4.8	34.8	49.1	16.1	0.8	12500	0	4.0
west virginia	kanawha	lower kittanning	3.9	34.3	61.8	3.9	0.7	14390	0	5.5
west virginia	kanawha	l kittanning&winifrd	4.5	34.3	55.4	10.3	0.8	13340	48	6.5
west virginia	kanawha	l kittanning&winifrd	5.0	35.4	57.1	7.5	0.7	13850	48	5.5
west virginia	kanawha	eagle	2.3	33.2	62.0	4.8	0.7	14680	0	7.5
west virginia	kanawha	winifrede	2.5	34.5	55.5	10.0	0.7	13460	0	6.0
west virginia	kanawha	cedar grove	2.6	37.8	55.3	6.4	0.7	14140	44	6.5
west virginia	kanawha	coalburq&l kittannin	4.0	33.2	49.3	17.0	0.9	12320	44	2.5

state	county	bed	moistur	volmat	fixcdc	ash	sulfur	btu	hgilo	fsilo
west virginia	kanawha	lower kittanning	5.0	36.1	59.2	4.7	0.8	14270	40	4.0
west virginia	kanawha	various	3.6	31.3	56.9	11.8	1.3	13490	0	7.5
west virginia	kanawha	various	5.9	31.9	55.8	12.3	1.3	13350	0	6.5
west virginia	kanawha	various	5.3	32.1	55.4	12.5	1.5	13250	0	7.0
west virginia	kanawha	various	3.4	32.0	57.7	10.3	1.2	13720	0	8.0
west virginia	kanawha	various	3.8	31.5	57.2	11.3	1.3	13580	0	7.0
west virginia	kanawha	various	4.0	32.5	56.4	11.1	1.5	13590	0	8.5
west virginia	kanawha	powellton	3.3	31.8	59.0	9.2	1.7	13920	64	7.5
west virginia	kanawha	powellton	4.3	31.8	59.0	9.2	0.6	13680	0	4.0
west virginia	kanawha	winifrede	2.4	35.6	60.2	4.2	0.7	14510	0	6.0
west virginia	kanawha	cambell creek peerl	2.5	37.3	56.7	6.0	1.6	14300	0	7.0
west virginia	kanawha	lower cambell creek	2.8	37.7	57.9	4.4	1.0	14500	0	6.5
west virginia	kanawha	winifrede	4.5	36.5	51.3	12.2	0.7	12970	45	5.0
west virginia	kanawha	coalburg	3.1	33.8	54.4	11.8	0.8	13220	0	6.0
west virginia	kanawha	cambell creek peerl	2.9	39.3	57.1	3.6	1.2	14710	0	6.5
west virginia	kanawha	winifrede	4.5	35.0	58.3	6.7	0.6	13900	48	5.5
west virginia	kanawha	lower cambell creek	4.2	32.9	57.8	9.3	1.6	13830	0	8.0
west virginia	kanawha	lower kittanning	8.4	33.3	57.0	9.7	0.5	13340	0	2.5
west virginia	kanawha	winifrede	5.5	32.0	60.0	8.0	0.5	13750	55	3.5
west virginia	kanawha	winifrede	7.3	35.0	57.6	7.4	0.6	14030	52	7.0
west virginia	kanawha	winifrede	3.9	33.7	57.5	8.8	0.7	13860	54	6.5
west virginia	kanawha	winifrede	3.9	33.2	56.7	10.1	0.6	13600	0	6.5
west virginia	kanawha	lower cambell creek	2.1	32.3	56.0	11.7	1.5	13550	62	8.0
west virginia	kanawha	lower kittanning	2.6	35.4	58.7	5.9	1.0	14220	0	6.0
west virginia	kanawha	lower cambell creek	2.0	33.0	60.7	6.3	0.5	14410	0	7.5
west virginia	kanawha	coalburg	2.8	34.1	54.3	11.6	0.7	13250	0	3.5
west virginia	kanawha	eaqle	2.1	34.2	58.3	7.5	0.6	14360	51	6.0
west virginia	kanawha	lower kittanning	3.9	34.2	51.5	14.3	0.7	12810	43	4.5
west virginia	kanawha	lower kittanning	3.7	33.9	51.4	14.7	0.8	12730	0	4.5
west virginia	kanawha	lower kittanning	4.9	32.1	53.2	14.7	0.6	12600	0	4.0
west virginia	kanawha	lower kittanning	5.9	31.3	54.1	14.6	0.7	12620	0	2.5
west virginia	kanawha	lower kittanning	5.7	32.9	50.0	17.1	0.7	12320	0	4.5
west virginia	kanawha	stockton-lewiston	6.5	29.3	47.9	22.8	0.6	11350	0	2.5
west virginia	kanawha	stockton-lewiston	4.5	29.3	47.1	23.6	0.6	11270	0	2.0
west virginia	kanawha	stockton-lewiston	4.5	32.0	50.1	17.9	0.6	12200	0	4.5
west virginia	kanawha	coalburg&stockton-ln	4.3	32.7	51.9	15.4	0.8	12580	0	5.5
west virginia	kanawha	coalburg&stockton-ln	6.6	30.5	47.5	22.0	0.6	11430	0	3.0
west virginia	kanawha	lower cambell creek	3.8	35.0	56.8	8.2	1.8	13950	55	8.0
west virginia	kanawha	lower cambell creek	2.9	34.8	56.3	8.9	1.8	13910	0	8.5
west virginia	kanawha	stockton-lewiston	3.0	34.9	57.3	7.8	0.6	13780	0	5.5
west virginia	kanawha	various	4.2	38.3	51.6	10.1	1.6	13420	0	4.5
west virginia	kanawha	various	2.5	38.3	49.4	12.3	1.6	13050	0	5.5
west virginia	kanawha	upper kittanning	3.6	38.1	51.9	10.0	1.4	13430	51	5.5
west virginia	kanawha	lower kittanning	4.6	37.2	51.6	11.2	1.3	13230	49	5.5
west virginia	kanawha	winifrede	2.1	35.9	56.9	7.2	0.8	14180	0	7.5
west virginia	kanawha	winifrede	2.6	38.4	55.5	6.1	0.6	13940	0	5.5
west virginia	kanawha	winifrede	8.3	37.8	53.6	8.6	0.7	13220	48	1.0
west virginia	kanawha	winifrede	4.4	37.7	53.6	8.7	0.7	13630	41	5.0
west virginia	kanawha	winifrede	5.1	37.1	51.0	11.9	0.7	13070	43	4.5
west virginia	kanawha	stockton-lewiston	2.8	36.0	58.1	5.9	0.7	14210	0	6.5

state	county	bed	moistur	volmat	fixedc	ash	sulfjr	btu	hgilo	fsilo
west virginia	kanawha	coalburg	2.5	35.3	51.9	12.8	0.7	13130	41	4.0
west virginia	kanawha	winifrede	2.8	37.0	54.6	8.4	1.0	13880	47	5.5
west virginia	kanawha	winifrede	2.9	37.2	57.0	5.8	0.8	14280	50	6.0
west virginia	kanawha	cambell creek peerl	1.7	34.2	56.6	9.2	3.2	13880	61	8.0
west virginia	kanawha	cambell creek peerl	2.6	33.8	55.6	10.6	3.4	13670	64	8.5
west virginia	kanawha	oowellton	4.0	31.1	64.6	4.3	0.6	14170	61	2.0
west virginia	kanawha	lower kittanning	4.1	35.0	50.0	15.0	2.0	12470	46	5.0
west virginia	kanawha	lower kittanning	4.2	34.4	51.4	14.2	1.9	12750	44	4.0
west virginia	kanawha	lower kittanning	4.0	34.0	50.3	15.7	2.2	12380	41	4.0
west virginia	kanawha	lower cambell creek	3.6	35.8	55.1	9.1	0.8	13600	51	5.5
west virginia	kanawha	lower cambell creek	5.9	36.4	57.2	6.4	0.5	14010	0	5.5
west virginia	kanawha	lower kittanning	5.2	34.2	51.0	14.8	1.9	12590	44	4.5
west virginia	kanawha	various	4.4	36.1	53.1	10.8	1.7	13460	43	6.0
west virginia	kanawha	various	4.0	31.0	47.1	21.9	0.8	11460	0	4.0
west virginia	kanawha	cedar grove	5.7	35.3	52.9	11.8	1.8	13260	0	6.0
west virginia	kanawha	cedar grove	2.5	38.4	57.2	4.4	1.7	14350	0	6.0
west virginia	kanawha	coalburg&stockton-ln	2.8	32.7	49.0	18.3	0.6	12170	40	4.0
west virginia	kanawha	winifrede	3.1	35.0	51.8	13.2	1.2	12990	54	6.0
west virginia	kanawha	lower cambell creek	3.2	37.8	57.0	5.2	0.8	14350	55	7.5
west virginia	kanawha	lower cambell creek	3.3	38.6	56.9	4.5	0.7	14540	53	6.5
west virginia	kanawha	lower cambell creek	3.7	37.5	57.5	5.0	0.6	14410	53	8.0
west virginia	kanawha	cedar grove&coalburg	3.4	33.9	53.6	12.5	1.1	13100	0	6.0
west virginia	kanawha	coalburg	3.3	33.7	51.9	14.4	0.7	12780	45	5.5
west virginia	kanawha	cambell creek peerl	2.7	38.3	56.3	5.4	1.2	14350	46	6.5
west virginia	kanawha	stockton-lewiston	4.9	35.5	53.5	11.0	1.3	13340	47	7.0
west virginia	lewis	redstone	3.2	37.8	47.1	15.1	3.7	12570	58	8.0
west virginia	lewis	redstone	2.9	38.7	52.2	9.1	2.8	13620	60	7.5
west virginia	lewis	pittsburgh	4.5	41.4	49.2	9.4	4.2	13450	58	7.5
west virginia	lewis	pittsburgh	2.5	40.3	50.6	9.1	3.2	13450	0	6.0
west virginia	lewis	pittsburgh	5.5	38.7	50.1	11.2	3.3	13070	63	6.5
west virginia	lewis	pittsburgh	3.7	41.3	49.2	9.5	4.0	13500	57	6.5
west virginia	lewis	pittsburgh	4.1	40.4	50.2	9.4	3.8	13500	57	7.5
west virginia	lewis	pittsburgh	3.7	41.9	50.2	7.9	3.4	13660	59	6.5
west virginia	lewis	pittsburgh&redstone	3.7	39.9	48.8	11.3	3.5	13160	56	7.5
west virginia	lewis	redstone	4.2	38.6	49.6	11.8	4.0	13050	57	6.0
west virginia	lewis	nittsburgh	3.3	41.5	47.8	10.7	4.3	13200	59	7.0
west virginia	lewis	various	3.5	41.1	50.6	8.3	3.6	13590	0	6.5
west virginia	lewis	various	4.0	39.2	49.6	11.2	3.4	13150	0	5.0
west virginia	lewis	redstone	3.9	39.7	51.9	8.4	3.5	13660	62	8.0
west virginia	lewis	nittsburgh	3.7	40.1	51.3	8.6	3.3	13650	57	8.0
west virginia	lewis	pittsburgh	5.7	37.9	51.5	10.6	2.7	13150	57	7.0
west virginia	lewis	redstone	3.4	39.3	51.7	9.5	3.5	13520	63	7.5
west virginia	lewis	pittsburgh	2.8	40.4	50.9	8.7	3.0	13540	0	5.5
west virginia	lewis	pittsburgh	3.2	40.0	50.8	9.2	3.3	13470	0	6.5
west virginia	lewis	pittsburgh	4.4	40.9	51.3	7.8	3.4	13730	55	6.5
west virginia	lewis	pittsburgh	5.4	37.7	53.9	8.4	2.8	13570	57	8.0
west virginia	lewis	redstone	2.7	39.4	46.1	14.5	4.4	12610	54	7.0
west virginia	logan	cnilton	4.2	35.4	57.5	7.1	0.6	13860	43	6.5
west virginia	logan	alma	2.9	39.4	54.1	6.5	1.7	14070	46	6.5
west virginia	logan	alma	4.0	39.4	51.1	9.5	2.2	13430	44	5.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	logan	alma	3.9	39.6	52.0	8.4	2.3	13600	46	5.0
west virginia	logan	alma	3.0	40.3	50.9	8.8	2.7	13600	0	4.5
west virginia	logan	cedar grove	2.9	35.4	57.0	7.6	1.2	14020	50	7.0
west virginia	logan	cedar grove	5.1	33.2	59.0	7.8	0.8	13700	50	4.5
west virginia	logan	cedar grove	4.4	34.7	57.2	8.1	1.8	13920	52	7.0
west virginia	logan	eagle	5.6	30.0	51.9	18.1	0.7	12390	0	6.5
west virginia	logan	alma	3.4	38.4	54.2	7.4	1.9	13790	44	5.5
west virginia	logan	various	2.4	34.3	59.7	6.0	0.8	14380	55	8.0
west virginia	logan	lower cambell creek	3.4	32.6	59.7	7.7	0.7	14090	55	7.0
west virginia	logan	chilton & l cmobl crk	2.9	33.1	59.0	7.9	0.7	14070	54	7.5
west virginia	logan	cedar grove	1.9	36.1	57.3	6.6	0.8	14170	0	7.0
west virginia	logan	cedar grove	2.1	35.8	57.2	7.0	0.8	14110	0	7.5
west virginia	logan	cedar grove	2.1	35.1	57.3	7.6	0.9	14050	0	6.5
west virginia	logan	cedar grove	2.1	35.7	55.8	8.5	1.0	13940	0	7.0
west virginia	logan	cedar grove	2.7	35.9	55.9	8.2	1.3	13970	0	7.5
west virginia	logan	cedar grove	2.5	35.3	57.5	7.2	1.0	14130	46	7.0
west virginia	logan	cedar grove	3.8	35.1	58.4	6.5	0.9	14190	0	7.5
west virginia	logan	cedar grove	3.1	35.1	57.7	7.2	1.1	14090	0	7.5
west virginia	logan	cedar grove	2.6	35.4	56.9	7.7	1.1	14020	0	7.0
west virginia	logan	cedar grove	3.2	35.2	58.5	6.3	0.9	14270	0	7.0
west virginia	logan	cedar grove	2.0	35.1	57.7	7.2	1.0	14130	0	7.5
west virginia	logan	cedar grove	2.7	34.4	59.0	6.6	1.0	14050	54	7.0
west virginia	logan	cedar grove	3.3	35.8	58.1	6.1	1.1	14280	49	7.5
west virginia	logan	cedar grove	3.2	35.1	57.6	7.3	1.1	14070	0	7.0
west virginia	logan	cedar grove	3.4	35.3	58.1	6.6	0.9	14150	0	7.5
west virginia	logan	cedar grove	2.6	35.6	56.5	7.9	1.1	14010	0	7.0
west virginia	logan	cedar grove	3.1	35.5	57.1	7.4	1.3	14130	50	7.5
west virginia	logan	cedar grove	3.3	35.9	57.4	6.7	1.1	14170	51	7.5
west virginia	logan	cedar grove & eagle	3.1	35.1	57.4	7.5	1.5	14030	49	7.0
west virginia	logan	cedar grove	4.4	36.6	56.6	6.8	1.0	13970	0	7.0
west virginia	logan	alma	3.5	39.6	54.1	6.3	1.9	13950	46	5.0
west virginia	logan	alma	4.5	39.3	53.4	7.3	1.5	13820	45	5.5
west virginia	logan	cedar grove	3.9	34.0	57.7	8.3	1.7	13850	0	7.5
west virginia	logan	owellton	7.3	32.6	59.2	8.2	0.5	13670	0	3.5
west virginia	logan	chilton	4.7	35.7	56.5	7.8	0.6	13720	47	5.5
west virginia	logan	chilton	3.2	36.3	54.5	7.2	0.6	13580	0	7.0
west virginia	logan	lower kittanning	2.9	38.1	57.7	4.2	0.6	14490	0	6.5
west virginia	logan	alma	3.1	38.8	55.1	6.1	1.3	14180	46	7.0
west virginia	logan	lower cedar grove	2.8	37.9	58.7	3.4	0.8	14740	46	8.5
west virginia	logan	cedar grove	3.0	35.0	56.7	8.3	1.6	13980	49	7.5
west virginia	logan	cedar grove	2.0	35.8	55.5	8.7	1.6	13910	0	7.0
west virginia	logan	cedar grove	2.2	36.0	55.0	9.0	1.6	13860	0	6.0
west virginia	logan	cedar grove	2.2	36.0	56.2	7.8	1.4	14020	0	7.0
west virginia	logan	cedar grove	2.2	35.5	56.0	8.5	1.4	13910	0	6.5
west virginia	logan	cedar grove	2.9	35.1	56.7	8.2	1.3	13950	55	7.5
west virginia	logan	cedar grove	3.4	34.7	57.0	8.3	1.6	13940	52	7.0
west virginia	logan	alma	3.3	39.6	53.4	7.0	1.9	13850	47	5.5
west virginia	logan	eagle	3.0	32.1	61.4	6.5	0.7	14260	58	7.0
west virginia	logan	cedar grove	6.6	32.8	62.5	4.7	0.6	14110	53	2.5
west virginia	logan	cedar grove	4.3	34.3	58.0	7.7	1.4	13980	0	7.5

State	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fstlo
west virginia	logan	lower cedar grove	2.7	34.2	58.2	7.6	0.6	14270	0	7.5
west virginia	logan	lower cambell creek	2.8	36.3	55.8	7.9	0.6	13870	0	6.5
west virginia	logan	chilton	8.5	34.5	55.0	10.5	0.6	13370	0	5.0
west virginia	logan	chilton	5.9	35.6	55.7	8.7	0.7	13670	0	6.5
west virginia	logan	chilton	2.1	34.5	62.7	3.0	0.7	15020	0	8.0
west virginia	logan	chilton	2.5	35.1	56.6	8.3	0.5	13900	59	7.0
west virginia	logan	lower kittanning	5.7	36.5	58.5	5.0	0.6	14240	0	6.0
west virginia	logan	stockton-lewiston	2.9	31.4	52.1	16.5	0.7	12400	45	5.5
west virginia	logan	winifrede	5.9	31.8	52.6	15.6	0.6	12320	45	1.5
west virginia	logan	cedar grove	5.6	34.3	56.9	8.8	1.3	13870	0	3.0
west virginia	logan	cedar grove	2.2	31.6	50.4	18.0	1.0	12340	49	7.0
west virginia	logan	cedar grove	2.0	34.8	56.9	8.3	0.6	14040	53	5.5
west virginia	logan	lower kittanning	4.5	34.3	54.6	11.1	0.7	13170	45	3.0
west virginia	logan	chilton&l kittanning	4.8	36.7	57.2	6.1	0.5	13980	46	5.0
west virginia	logan	eagle	3.2	28.5	54.5	17.0	0.5	12490	0	8.0
west virginia	logan	eagle	5.0	30.2	55.1	14.7	0.6	12770	0	7.0
west virginia	logan	eagle	5.4	29.3	56.9	13.8	0.7	12950	0	7.5
west virginia	logan	cedar grove	2.5	38.3	54.7	7.0	1.7	13960	0	6.5
west virginia	logan	cedar grove	4.9	34.0	58.1	7.9	0.7	14080	0	7.0
west virginia	logan	cedar grove	2.9	34.7	58.8	6.5	0.8	14320	49	7.0
west virginia	logan	various	5.1	33.9	57.7	8.4	0.6	13500	0	3.0
west virginia	logan	varinus	4.4	35.7	57.4	6.9	0.9	14150	0	7.5
west virginia	logan	cedar grove	2.7	35.3	54.5	10.2	1.5	13710	0	7.0
west virginia	logan	cedar grove	2.5	35.2	56.7	8.1	1.5	13950	48	7.0
west virginia	logan	cedar grove	3.1	33.0	60.4	6.6	0.9	14140	0	8.0
west virginia	logan	cedar grove	8.6	34.1	60.6	5.3	0.7	14470	0	7.5
west virginia	logan	various	1.5	35.1	58.0	6.9	0.9	14010	0	6.5
west virginia	logan	eagle	2.9	34.8	55.7	9.5	0.8	13720	0	5.0
west virginia	logan	chilton	4.2	36.6	53.4	10.0	0.7	13340	46	6.0
west virginia	logan	cedar grove	3.0	37.9	55.5	6.6	1.7	14140	45	6.5
west virginia	logan	cedar grove	2.1	38.5	54.0	7.5	1.8	14000	0	6.0
west virginia	logan	cedar grove	2.5	38.6	55.0	6.4	1.5	14230	44	7.0
west virginia	logan	alma	3.3	37.2	51.5	11.3	1.5	13340	0	6.5
west virginia	logan	cedar grove	2.9	34.3	57.9	7.8	1.5	14060	0	7.0
west virginia	logan	cedar grove	3.0	34.9	58.2	6.9	1.4	14160	53	7.5
west virginia	logan	cedar grove	2.4	34.4	57.9	7.7	1.4	14030	0	8.0
west virginia	logan	cedar grove	3.1	34.9	57.4	7.7	1.4	14060	0	7.5
west virginia	logan	stockton-lewiston	2.9	31.0	54.3	14.7	0.5	12910	0	5.0
west virginia	logan	various	3.4	33.7	59.1	7.2	0.8	13980	0	2.0
west virginia	logan	various	2.6	34.8	57.9	7.3	1.1	13920	0	6.5
west virginia	logan	various	5.8	31.9	57.9	10.2	1.0	13730	0	8.0
west virginia	logan	cedar grove	2.0	35.1	55.9	9.0	1.5	13830	0	7.5
west virginia	logan	cedar grove	2.3	35.4	56.0	8.6	1.3	13860	0	7.5
west virginia	logan	cedar grove	3.2	34.9	56.6	8.5	1.7	13870	55	7.5
west virginia	logan	cedar grove	3.3	34.3	55.6	10.1	1.5	13580	0	7.5
west virginia	logan	cedar grove	2.0	37.7	57.7	4.6	0.8	14520	0	7.0
west virginia	logan	cedar grove	3.6	33.1	56.9	10.0	1.5	13650	0	7.0
west virginia	logan	powellton	2.1	29.5	55.6	14.9	0.8	12970	0	8.0
west virginia	logan	chilton	2.3	36.1	57.3	6.6	0.6	14200	0	7.5
west virginia	logan	eagle & nowellton	3.6	33.1	61.7	5.2	0.6	14380	51	7.0

state	county	bed	noistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsils
west virginia	logan	lower kittanning	4.2	35.1	55.1	9.8	0.6	13610	0	4.5
west virginia	logan	cedar grove	2.6	34.5	55.4	10.1	1.6	13750	0	7.5
west virginia	logan	eagle	3.8	33.2	57.7	9.1	1.0	13900	0	8.0
west virginia	logan	cedar grove	3.0	35.6	57.1	7.3	1.8	14130	56	7.5
west virginia	logan	cedar grove	3.6	35.5	55.8	8.7	1.5	13870	0	6.0
west virginia	logan	cedar grove	2.7	35.1	56.9	8.0	1.7	14000	51	7.0
west virginia	logan	eagle	4.5	30.8	58.3	10.9	0.6	13490	0	7.5
west virginia	logan	eagle	2.9	36.6	55.8	7.6	0.9	13830	51	5.5
west virginia	logan	alma	3.2	39.1	51.9	9.0	1.9	13580	48	6.5
west virginia	logan	alma	4.3	39.4	51.0	9.6	1.9	13400	43	4.5
west virginia	logan	eagle	7.3	30.7	51.9	17.4	0.8	12320	0	4.5
west virginia	logan	chilton	4.0	35.1	58.1	6.8	0.5	13930	43	6.0
west virginia	logan	cedar grove	2.3	35.2	56.2	8.6	2.4	13880	49	6.0
west virginia	logan	lower cedar grove	2.7	34.3	58.1	7.6	0.6	14020	0	7.0
west virginia	logan	alma	2.2	35.2	55.3	9.5	0.7	13730	0	6.0
west virginia	logan	cedar grove	2.4	34.1	55.6	10.3	1.4	13590	0	7.0
west virginia	logan	chilton	4.1	34.3	52.7	13.0	0.6	12990	0	5.0
west virginia	logan	chilton	6.4	32.7	52.4	14.9	0.8	12680	0	5.0
west virginia	logan	alma	4.2	37.0	53.1	9.9	1.6	13600	45	6.0
west virginia	logan	alma	2.6	37.5	54.6	7.9	1.6	13880	0	6.0
west virginia	logan	cedar grove	2.5	35.2	57.7	7.1	1.5	14210	0	8.0
west virginia	logan	lower kittanning	4.7	36.3	55.0	8.7	0.7	13670	43	6.5
west virginia	logan	lower kittanning	5.2	36.4	55.8	7.8	0.6	13730	0	2.0
west virginia	logan	lower kittanning	4.6	36.5	55.4	8.1	0.7	13700	0	3.0
west virginia	logan	lower kittanning	5.0	37.5	56.1	6.4	0.6	14020	0	5.0
west virginia	logan	lower kittanning	5.5	36.8	56.9	6.3	0.7	13990	0	5.5
west virginia	logan	chilton	3.3	33.1	53.3	13.6	0.6	13130	51	5.5
west virginia	logan	lower campbell creek	4.1	31.4	56.9	11.7	0.7	13470	63	7.5
west virginia	logan	eagle	2.9	34.9	58.1	7.0	0.7	14100	55	7.5
west virginia	logan	lower cedar grove	4.4	34.4	60.5	5.1	0.6	14610	51	8.0
west virginia	logan	cedar grove & ldr av	4.0	33.2	58.0	8.3	1.0	13790	0	7.5
west virginia	logan	eagle	3.2	39.2	55.9	4.9	0.9	14310	50	5.5
west virginia	logan	various	3.6	37.0	54.8	8.2	1.3	13770	0	4.5
west virginia	logan	cedar grove	3.0	34.8	55.8	9.4	1.8	13780	0	7.5
west virginia	logan	cedar grove	3.7	33.8	58.4	7.8	1.8	13970	0	8.0
west virginia	logan	cedar grove	5.1	33.7	57.6	8.7	1.3	13860	0	7.5
west virginia	logan	cedar grove	3.6	34.1	57.3	8.6	1.8	13950	53	8.0
west virginia	logan	chilton	3.9	34.2	53.2	12.6	0.5	13020	0	5.0
west virginia	logan	lower campbell creek	2.5	39.0	54.1	6.9	2.1	14030	0	6.0
west virginia	logan	various	6.7	34.8	53.1	12.1	1.2	12930	0	1.5
west virginia	logan	various	7.5	33.8	53.2	13.0	0.7	12900	0	1.5
west virginia	logan	lower kittanning	7.6	34.2	57.1	8.7	0.9	13490	45	3.0
west virginia	logan	lower kittanning	3.7	37.8	53.6	13.6	0.6	12690	44	3.0
west virginia	logan	lower kittanning	3.8	34.8	53.8	11.4	0.8	13100	40	4.5
west virginia	logan	lower kittanning	4.0	35.3	54.9	9.8	0.9	13350	42	5.0
west virginia	logan	chilton	3.5	35.0	52.1	12.9	0.7	13070	47	7.0
west virginia	logan	cedar grove & eagle	3.7	34.0	56.4	9.6	1.1	13720	52	7.5
west virginia	logan	winifrede	3.7	38.6	53.0	8.4	1.4	13620	47	5.5
west virginia	logan	winifrede	3.7	38.3	53.6	8.1	1.6	13740	45	4.5
west virginia	logan	alma	3.3	37.8	55.7	6.5	1.2	14060	0	4.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	mcdowell	oocahontas no 3	7.6	19.4	74.8	5.8	0.6	14510	**	3.0
west virginia	mcdowell	fire creek	3.6	20.6	74.9	4.5	0.5	15110	0	9.0
west virginia	mcdowell	fire creek	2.3	20.7	74.3	5.0	0.6	14990	0	9.0
west virginia	mcdowell	various	4.3	18.9	76.2	4.9	0.8	14990	0	9.0
west virginia	mcdowell	oocahontas no 4	3.4	16.2	77.4	6.4	0.5	14640	0	8.0
west virginia	mcdowell	beckley	5.3	17.6	72.9	9.5	0.7	14150	0	9.0
west virginia	mcdowell	beckley	2.7	16.6	71.4	12.0	0.6	13680	0	8.0
west virginia	mcdowell	oocahontas no 3	***	19.2	70.4	10.4	0.5	13560	0	1.0
west virginia	mcdowell	douglas & iaeger	3.2	25.9	68.2	5.9	1.0	14700	87	8.5
west virginia	mcdowell	douglas	2.8	28.5	66.1	5.4	1.0	14720	82	8.0
west virginia	mcdowell	douglas	2.9	28.8	64.6	6.6	1.1	14460	74	8.0
west virginia	mcdowell	douglas	4.3	29.2	64.1	6.7	1.0	14330	0	8.5
west virginia	mcdowell	douglas	3.1	25.0	68.5	6.5	0.9	14620	92	9.0
west virginia	mcdowell	douglas	4.2	27.8	64.2	8.0	1.1	14200	0	8.0
west virginia	mcdowell	douglas	2.3	24.8	68.6	6.6	1.0	14600	90	9.0
west virginia	mcdowell	douglas	3.2	26.3	66.8	6.9	1.2	14460	0	7.5
west virginia	mcdowell	douglas	3.5	25.5	67.8	6.7	1.4	14510	0	8.0
west virginia	mcdowell	douglas	2.8	25.6	67.9	6.5	0.9	14590	0	8.5
west virginia	mcdowell	lower war eagle	2.3	31.6	58.7	9.7	1.2	13900	65	8.5
west virginia	mcdowell	various	4.6	19.0	75.2	5.8	0.9	14790	0	9.0
west virginia	mcdowell	oocahontas 3&beckley	4.6	18.1	75.7	6.2	0.7	14740	**	8.5
west virginia	mcdowell	bens creek & gilbert	3.5	24.6	61.3	14.1	1.0	13300	0	8.5
west virginia	mcdowell	eagle & douglas	1.9	27.5	67.9	4.6	2.1	14850	88	8.5
west virginia	mcdowell	oocahontas no 4	6.2	22.9	68.7	8.4	0.7	14330	0	8.5
west virginia	mcdowell	oocahontas no 3	2.5	23.0	69.3	7.7	0.5	14510	0	9.0
west virginia	mcdowell	sewell	6.9	18.5	76.8	4.7	0.7	14960	0	8.5
west virginia	mcdowell	beckley	3.1	17.4	73.1	9.5	0.7	14140	0	6.0
west virginia	mcdowell	beckley	3.1	17.5	72.6	9.9	0.7	14100	0	7.0
west virginia	mcdowell	beckley	2.8	17.7	72.4	9.9	0.7	14090	0	7.5
west virginia	mcdowell	beckley	3.1	17.7	73.0	9.3	0.7	14130	0	1.0
west virginia	mcdowell	beckley	2.0	17.6	72.4	10.0	0.7	14010	0	1.0
west virginia	mcdowell	beckley	2.5	16.8	73.6	9.6	0.8	14130	0	7.5
west virginia	mcdowell	beckley	2.3	17.3	71.5	11.2	0.8	13950	0	7.0
west virginia	mcdowell	beckley	2.7	17.5	72.2	10.3	0.7	13990	0	8.0
west virginia	mcdowell	various	1.9	26.1	56.9	17.0	1.2	12780	0	7.5
west virginia	mcdowell	sewell	4.4	18.6	75.9	5.5	0.8	14830	0	9.0
west virginia	mcdowell	welch	4.2	19.5	73.5	7.0	0.7	14580	0	9.0
west virginia	mcdowell	sewell & welch	5.5	19.6	74.6	5.8	0.7	14790	0	9.0
west virginia	mcdowell	various	4.1	18.9	71.9	9.2	0.8	14280	0	8.0
west virginia	mcdowell	sewell	3.6	18.2	71.3	10.5	0.7	14000	**	9.0
west virginia	mcdowell	oocahontas no 3	2.5	18.4	76.7	4.9	0.6	14880	0	5.5
west virginia	mcdowell	douglas	6.0	27.3	65.6	7.1	1.0	14490	0	8.5
west virginia	mcdowell	sewell & welch	3.5	18.5	72.7	8.8	0.7	14320	0	8.0
west virginia	mcdowell	various	4.0	23.7	68.0	8.3	0.9	14380	0	8.5
west virginia	mcdowell	douglas	3.5	24.5	72.5	3.0	0.6	15140	98	9.0
west virginia	mcdowell	douglas	2.7	24.2	71.0	4.8	1.0	14920	0	9.0
west virginia	mcdowell	douglas	4.4	24.5	68.9	6.6	1.0	14560	0	8.0
west virginia	mcdowell	douglas	4.6	25.5	69.6	4.9	1.1	14880	0	9.0
west virginia	mcdowell	various	3.6	20.3	71.5	8.2	0.9	14350	0	8.5
west virginia	mcdowell	douglas	5.4	28.6	66.4	5.0	1.1	14740	85	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	mcdowell	douglas & bens creek	3.5	29.0	64.0	7.0	1.0	14360	0	9.0
west virginia	mcdowell	douglas	4.3	28.6	63.8	7.6	1.0	14210	75	8.5
west virginia	mcdowell	pocahontas no 3	5.1	20.1	76.6	3.3	0.5	15220	**	8.5
west virginia	mcdowell	fire creek	3.7	20.0	73.6	6.4	0.8	14780	**	9.0
west virginia	marion	sewickley	4.4	38.7	49.5	11.8	3.8	13230	61	8.5
west virginia	marion	sewickley	2.1	38.6	47.2	14.2	4.7	12820	0	7.0
west virginia	marion	sewickley	2.0	39.5	48.4	12.1	4.5	13190	59	7.5
west virginia	marion	pittsburgh	5.8	37.0	52.5	10.5	2.0	13380	0	8.0
west virginia	marion	pittsburgh	2.3	36.7	54.7	8.6	0.9	13830	57	7.5
west virginia	marion	pittsburgh	2.4	39.0	52.4	8.6	2.7	13810	62	8.0
west virginia	marion	pittsburgh	3.1	37.4	54.5	8.1	1.7	13820	0	8.0
west virginia	marion	pittsburgh	2.0	39.1	52.4	8.5	2.8	13870	59	8.0
west virginia	marion	pittsburgh	2.6	37.4	55.3	7.3	0.8	14010	58	8.5
west virginia	marion	pittsburgh	3.5	38.8	52.7	8.5	2.8	13780	0	8.0
west virginia	marion	pittsburgh	4.7	39.8	52.4	7.8	2.8	13880	0	8.0
west virginia	marion	pittsburgh	3.4	37.4	56.2	6.4	1.1	14190	52	8.0
west virginia	marion	pittsburgh	4.4	37.8	55.2	7.0	1.5	13900	57	7.5
west virginia	marion	pittsburgh	3.8	36.3	56.2	7.5	0.9	14090	54	8.0
west virginia	marion	pittsburgh	3.2	37.0	55.5	7.5	1.3	13990	54	7.5
west virginia	marion	pittsburgh	2.9	39.2	50.2	10.6	3.7	13290	0	8.5
west virginia	marion	pittsburgh	2.9	40.8	52.2	7.0	2.8	14050	0	8.5
west virginia	marion	pittsburgh	3.2	37.7	55.9	6.4	1.5	14270	56	7.5
west virginia	marion	pittsburgh	3.2	37.7	53.2	9.1	2.3	13560	59	8.0
west virginia	marshall	pittsburgh	3.9	41.2	47.9	10.9	4.7	13190	57	6.5
west virginia	marshall	pittsburgh	4.8	39.6	48.6	11.8	4.2	13060	56	7.0
west virginia	marshall	pittsburgh	3.1	42.9	48.0	9.1	4.9	13390	0	8.0
west virginia	marshall	pittsburgh	2.8	41.8	51.1	7.1	3.3	13790	0	8.0
west virginia	mason	pittsburgh	***	40.4	41.6	18.0	3.9	11580	0	5.0
west virginia	mason	pittsburgh	7.3	39.4	41.5	19.1	3.2	11590	45	3.5
west virginia	mason	pittsburgh	7.5	41.5	45.9	12.6	2.8	12460	0	3.0
west virginia	mason	pittsburgh	7.8	42.7	46.3	11.0	2.5	12670	46	5.5
west virginia	mason	pittsburgh	5.9	41.5	42.1	16.4	3.6	11890	46	4.0
west virginia	mercier	pocahontas no 3	4.4	17.4	76.0	6.6	0.5	14710	0	9.0
west virginia	mercier	pocahontas no 3	3.2	15.6	78.6	5.8	0.9	14770	0	8.5
west virginia	mercier	pocahontas no 3	3.1	17.2	74.0	3.8	0.6	14310	96	8.5
west virginia	mercier	fire creek	2.8	19.5	75.7	4.8	0.5	14980	0	8.5
west virginia	mercier	pocahontas no 6	3.4	17.1	70.7	12.2	0.8	13750	0	8.0
west virginia	mercier	pocahontas no 3	3.0	17.6	77.6	4.8	0.8	15000	**	9.0
west virginia	mercier	pocahontas no 6	3.6	18.2	75.2	6.6	0.8	14580	**	8.0
west virginia	mercier	pocahontas no 6	5.5	19.3	76.0	4.7	0.5	15040	0	8.5
west virginia	mercier	pocahontas no 6	4.4	18.7	75.4	5.9	0.6	14880	0	9.0
west virginia	mercier	fire creek	4.3	20.4	74.5	5.1	0.5	15010	0	9.0
west virginia	mercier	pocahontas no 3	3.0	16.7	75.8	7.5	0.6	14510	0	8.0
west virginia	mineral	elk lick	2.9	17.0	72.7	10.3	1.1	13950	0	9.0
west virginia	mineral	bakerstown	2.3	16.1	67.2	16.7	2.3	12890	0	8.5
west virginia	mineral	pittsburgh	3.1	17.2	72.5	8.3	0.7	14050	99	6.0
west virginia	mingo	cedar grove	2.5	36.2	51.3	12.5	1.5	13150	44	6.0
west virginia	mingo	cedar grove	3.6	34.5	57.0	8.5	1.2	13800	51	8.0
west virginia	mingo	alma	4.6	33.4	60.6	6.0	0.6	14000	0	3.0
west virginia	mingo	alma	2.2	37.3	55.7	7.0	0.7	14150	44	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	mingo	alma	3.5	35.8	54.9	9.3	0.7	13720	44	7.5
west virginia	mingo	alma	3.7	36.5	56.2	7.3	0.7	14060	44	7.5
west virginia	mingo	lower campbell creek	3.2	32.1	56.8	11.1	0.6	13430	47	7.5
west virginia	mingo	cedar grove	6.3	34.9	56.2	8.9	1.5	13680	0	3.0
west virginia	mingo	cedar grove	3.3	36.1	57.4	6.5	1.4	14250	48	7.0
west virginia	mingo	cedar grove	5.9	34.6	59.0	6.4	1.2	13960	0	6.0
west virginia	mingo	eagle	2.6	30.4	65.3	4.3	1.2	14750	74	8.0
west virginia	mingo	eagle	3.5	30.3	59.9	9.8	0.9	13720	65	7.5
west virginia	mingo	winifrede	3.2	41.4	55.2	3.4	0.7	14640	0	5.5
west virginia	mingo	lower campbell creek	3.6	38.1	55.6	6.3	1.4	14070	0	5.0
west virginia	mingo	lower campbell creek	4.3	38.3	56.3	5.4	1.1	14110	44	5.5
west virginia	mingo	lower campbell creek	4.6	38.8	55.3	5.9	1.5	14020	46	6.0
west virginia	mingo	lower campbell creek	3.2	39.2	54.7	6.1	0.7	14250	0	5.0
west virginia	mingo	alma	3.2	36.9	59.1	4.0	0.6	14560	48	7.5
west virginia	mingo	alma	2.7	36.5	58.3	5.2	0.6	14390	44	7.5
west virginia	mingo	winifrede	3.6	41.4	53.3	5.3	1.0	14220	0	4.5
west virginia	mingo	alma	2.7	36.4	54.8	8.8	0.6	13910	46	6.5
west virginia	mingo	lower campbell creek	4.6	38.1	49.8	12.1	2.1	13080	38	5.0
west virginia	mingo	cedar grove	3.1	35.3	56.0	8.7	1.2	13770	45	7.0
west virginia	mingo	cedar grove	2.8	36.3	55.8	7.9	1.3	13950	49	7.0
west virginia	mingo	winifrede	3.5	38.1	55.9	6.0	0.6	14120	0	5.0
west virginia	mingo	buffalo creek	3.1	37.2	54.2	8.6	0.7	13700	0	5.0
west virginia	mingo	cedar grove	2.4	37.2	52.8	10.0	1.4	13560	45	6.5
west virginia	mingo	alma	3.6	32.0	57.1	10.9	0.6	13580	0	7.5
west virginia	mingo	alma	3.1	36.3	58.8	4.9	0.6	14570	0	7.5
west virginia	mingo	lower campbell creek	3.0	38.1	54.6	7.3	1.0	13850	42	6.0
west virginia	mingo	douglas	3.4	25.4	69.5	5.1	1.4	14820	0	8.5
west virginia	mingo	lower cedar grove	2.0	34.1	55.5	10.4	2.2	13630	0	8.0
west virginia	mingo	cedar grove	3.2	34.5	58.5	7.0	0.7	14140	47	7.0
west virginia	mingo	lower cedar grove	2.4	36.4	60.2	3.4	0.6	14780	0	7.5
west virginia	mingo	cedar grove	4.8	33.1	49.7	17.2	2.0	12470	0	7.5
west virginia	mingo	cedar grove	4.9	35.0	53.7	11.3	2.4	13430	0	7.0
west virginia	mingo	cedar grove&l cdr qv	6.0	31.9	52.4	15.7	1.4	12580	0	7.5
west virginia	mingo	cedar grove	2.1	37.0	52.7	10.3	2.0	13600	0	5.5
west virginia	mingo	cedar grove	5.4	32.6	57.6	9.8	0.8	13570	59	6.5
west virginia	mingo	powellton	5.2	32.3	61.6	5.1	0.5	14400	55	7.5
west virginia	mingo	powellton	5.1	32.6	61.7	5.7	0.6	14220	57	7.0
west virginia	mingo	cedar grove	2.8	35.9	53.5	10.6	1.8	13480	0	6.0
west virginia	mingo	cedar grove	2.7	35.0	54.2	10.8	1.6	13480	0	6.5
west virginia	mingo	cedar grove	3.7	35.6	54.4	10.0	2.1	13640	0	7.0
west virginia	mingo	cedar grove	5.2	34.7	53.1	12.2	2.6	13270	0	7.5
west virginia	mingo	alma	2.6	37.2	56.8	6.0	0.6	14400	0	7.5
west virginia	mingo	lower campbell creek	3.1	39.5	54.7	5.8	1.1	14070	39	6.0
west virginia	mingo	various	7.8	33.4	55.5	11.1	1.0	13430	0	7.5
west virginia	mingo	coalburg	3.1	38.1	55.5	6.4	0.7	14240	0	5.5
west virginia	mingo	coalburg	4.1	37.7	52.8	9.5	0.7	13480	0	4.5
west virginia	mingo	cedar grove	2.2	36.6	56.3	7.1	1.0	14090	0	6.0
west virginia	mingo	cedar grove	3.6	36.6	56.5	6.9	1.7	14080	46	7.5
west virginia	mingo	winifrede	4.8	36.9	49.1	14.0	0.7	12760	53	3.5
west virginia	mingo	various	4.2	32.0	58.0	10.0	0.7	13770	0	8.0

state	county	bed	moistur	volmat	fixcdc	ash	sulfur	btu	hgilo	fsilo
west virginia	mingo	eagle	3.4	31.4	63.0	5.6	1.4	14550	62	7.5
west virginia	mingo	alma&l campbell crk	2.8	33.1	60.6	6.3	0.7	14340	54	8.0
west virginia	mingo	cedar grove&l cdr qv	2.9	33.3	58.9	7.8	0.5	14190	62	7.5
west virginia	mingo	cedar grove&l cdr qv	4.3	31.7	60.9	7.4	0.6	14190	0	7.5
west virginia	mingo	alma	2.9	37.0	59.2	3.8	0.7	14510	0	6.0
west virginia	mingo	cedar grove	2.4	36.4	55.2	8.4	1.2	13910	0	6.5
west virginia	mingo	cedar grove	2.3	37.6	55.0	7.4	1.1	13990	0	5.5
west virginia	mingo	cedar grove	2.4	36.4	55.2	8.4	1.3	13850	0	7.0
west virginia	mingo	cedar grove	2.4	36.0	54.9	9.1	1.2	13720	0	6.5
west virginia	mingo	cedar grove	2.5	36.1	55.3	8.6	1.2	13780	0	7.0
west virginia	minon	cedar grove	2.8	35.9	56.0	8.1	1.2	13800	0	7.0
west virginia	mingo	cedar grove	3.3	36.5	54.8	8.7	1.4	13820	0	7.0
west virginia	mingo	cedar grove	4.2	36.7	54.2	9.1	1.3	13730	0	6.5
west virginia	mingo	lower campbell creek	2.9	34.0	57.8	8.2	0.6	13880	0	5.0
west virginia	minon	alma	3.0	36.6	58.8	4.6	0.6	14590	46	7.5
west virginia	mingo	alma	3.2	36.5	59.1	4.4	0.7	14530	0	7.0
west virginia	mingo	alma&l campbell crk	5.1	33.6	57.6	8.8	0.7	13820	0	6.5
west virginia	mingo	cedar grove&l cdr qv	5.5	35.1	59.9	5.0	0.8	14420	61	7.0
west virginia	minon	lower campbell creek	3.5	33.3	59.5	7.2	0.7	14260	0	8.0
west virginia	mingo	lower campbell creek	2.8	32.5	60.3	7.2	0.9	14190	0	8.0
west virginia	mingo	lower campbell creek	3.0	32.7	61.6	5.7	0.9	14530	61	8.0
west virginia	mingo	lower campbell creek	2.7	32.3	60.8	6.9	0.9	14270	86	8.0
west virginia	minon	lower campbell creek	8.9	31.0	59.1	9.9	0.8	13200	67	1.5
west virginia	mingo	alma & l cedar grove	3.7	34.2	61.6	4.2	0.6	14520	50	7.0
west virginia	monongalia	bakerstown	1.9	32.5	57.8	9.7	2.5	13760	67	6.5
west virginia	monongalia	pittsburgh	3.6	35.9	54.4	9.7	2.8	13680	0	8.0
west virginia	monongalia	pittsburgh	3.3	37.5	51.8	10.7	3.7	13460	0	8.0
west virginia	monongalia	pittsburgh	4.2	37.1	50.9	12.0	3.2	13320	0	9.0
west virginia	monongalia	pittsburgh	2.0	39.3	50.0	10.7	3.8	13560	0	8.5
west virginia	monongalia	upper freeport	2.6	31.3	57.6	11.1	1.8	13620	72	8.5
west virginia	monongalia	pittsburgh	3.4	38.2	52.9	8.9	3.4	13790	0	8.0
west virginia	monongalia	pittsburgh	3.4	37.4	51.5	11.1	3.9	13420	0	8.0
west virginia	monongalia	waynesburg	3.2	34.6	49.6	15.8	1.3	12460	0	8.0
west virginia	monongalia	pittsburgh	6.3	34.6	55.2	10.2	2.6	13720	67	7.5
west virginia	monongalia	sewickley	2.9	38.5	48.6	12.9	4.2	13060	0	8.5
west virginia	monongalia	various	3.1	33.5	55.0	11.5	2.2	13400	61	8.0
west virginia	monongalia	various	4.1	34.6	54.6	10.8	2.7	13390	0	8.0
west virginia	monongalia	sewickley	3.3	36.6	50.6	12.8	3.3	13120	62	8.5
west virginia	monongalia	sewickley	4.0	36.0	51.4	12.6	2.6	13150	54	8.5
west virginia	monongalia	pittsburgh	2.5	35.4	54.8	9.8	2.4	13720	65	8.0
west virginia	monongalia	pittsburgh&redstone	3.5	33.9	54.2	11.9	2.7	13350	64	8.5
west virginia	monongalia	pittsburgh	2.5	35.2	54.8	10.0	3.1	13720	61	7.5
west virginia	monongalia	sewickley	2.8	34.9	53.5	11.6	2.0	13290	60	8.0
west virginia	monongalia	pittsburgh	2.4	35.8	54.9	9.3	2.8	13930	65	7.5
west virginia	monongalia	sewickley	4.1	37.4	49.9	12.7	3.7	12920	61	7.0
west virginia	monongalia	sewickley	4.5	36.5	51.2	12.3	3.4	13200	0	8.5
west virginia	monongalia	sewickley	2.8	36.7	51.1	12.2	3.7	13210	0	8.0
west virginia	monongalia	sewickley	3.3	36.2	52.0	11.8	2.9	13380	57	8.5
west virginia	monongalia	pittsburgh	3.7	37.0	53.8	9.2	2.9	13840	60	7.0
west virginia	monongalia	pittsburgh	2.3	35.8	55.3	8.9	2.6	13890	64	8.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hailo	fsilo
west virginia	monongalia	pittsburgh	2.2	35.7	55.6	8.7	2.4	13930	60	7.0
west virginia	monongalia	pittsburgh	2.0	36.8	56.5	6.7	2.4	14310	0	9.0
west virginia	monongalia	pittsburgh	1.7	35.6	55.9	8.5	1.9	14030	0	8.5
west virginia	monongalia	pittsburgh	1.2	34.8	56.3	8.9	2.1	14020	0	7.5
west virginia	monongalia	pittsburgh	1.7	35.6	56.1	8.3	2.0	14040	0	8.0
west virginia	monongalia	pittsburgh	1.6	34.7	55.6	9.7	2.5	13790	0	8.0
west virginia	monongalia	pittsburgh	2.8	35.9	55.4	8.7	2.9	14000	0	8.0
west virginia	monongalia	pittsburgh	2.3	36.4	55.7	7.9	2.9	14080	0	8.0
west virginia	monongalia	pittsburgh	2.7	34.9	53.4	11.7	3.0	13400	67	8.0
west virginia	monongalia	pittsburgh	3.5	35.2	54.4	10.4	2.8	13700	0	7.0
west virginia	monongalia	pittsburgh	3.5	34.8	55.7	9.5	2.9	13780	67	8.0
west virginia	monongalia	pittsburgh	4.7	34.2	53.7	12.1	3.0	13390	66	8.0
west virginia	monongalia	pittsburgh	3.1	34.6	55.9	9.5	2.9	13800	0	8.5
west virginia	monongalia	pittsburgh	4.4	34.6	56.0	9.4	3.1	13810	0	8.5
west virginia	monongalia	pittsburgh	3.5	35.0	55.9	9.1	2.6	13740	0	8.0
west virginia	monongalia	pittsburgh	2.7	34.1	58.4	7.5	2.5	14130	67	7.5
west virginia	monongalia	pittsburgh	2.6	35.1	55.3	9.6	2.8	13770	67	7.5
west virginia	monongalia	pittsburgh	2.5	35.3	55.7	9.0	3.3	13850	69	8.5
west virginia	monongalia	sewickley	2.8	32.2	54.0	13.8	1.2	13040	0	8.0
west virginia	monongalia	pittsburgh	3.2	36.5	55.3	8.5	2.9	13850	0	8.0
west virginia	monongalia	pittsburgh&redstone	2.3	35.0	53.4	11.6	2.5	13430	0	7.0
west virginia	monongalia	pittsburgh&redstone	2.5	34.7	54.3	11.0	2.1	13540	0	7.5
west virginia	monongalia	pittsburgh&redstone	2.7	34.4	56.4	9.2	2.1	13800	59	7.5
west virginia	monongalia	redstone & sewickley	2.8	33.7	54.1	12.2	2.8	13220	0	8.0
west virginia	monongalia	pittsburgh	2.8	35.8	53.2	11.0	2.5	13610	63	7.0
west virginia	monongalia	pittsburgh	3.7	35.9	55.0	9.1	2.7	13910	64	8.5
west virginia	monongalia	pittsburgh	2.5	37.6	53.3	9.1	1.9	13690	0	8.5
west virginia	monongalia	pittsburgh	3.4	35.6	55.3	9.1	2.6	13760	0	8.0
west virginia	monongalia	pittsburgh	2.7	37.3	53.9	8.8	2.6	13840	0	8.5
west virginia	monongalia	sewickley	3.6	35.8	52.9	11.3	2.9	13400	63	8.0
west virginia	monongalia	sewickley	3.9	36.2	51.5	12.3	3.2	13220	61	8.0
west virginia	monongalia	redstone	2.6	34.0	55.0	11.0	1.9	13440	61	8.0
west virginia	monongalia	redstone	2.6	32.5	55.0	12.5	1.7	13200	61	8.5
west virginia	monongalia	redstone	3.9	33.7	53.4	12.9	2.1	12970	0	7.5
west virginia	monongalia	redstone	2.5	34.0	53.9	12.1	2.2	13210	0	7.5
west virginia	monongalia	redstone	3.2	31.1	57.0	11.9	1.3	13260	67	8.5
west virginia	monongalia	pittsburgh	2.5	34.2	54.0	11.8	3.1	13360	0	8.0
west virginia	monongalia	pittsburgh	1.9	34.7	55.5	9.8	3.0	13740	0	9.0
west virginia	monongalia	pittsburgh	3.7	33.4	54.9	11.7	3.3	13340	0	8.0
west virginia	monongalia	sewickley	3.2	32.8	52.3	14.9	1.3	12830	56	8.0
west virginia	monongalia	sewickley	3.2	34.0	53.0	13.0	1.4	13130	54	9.0
west virginia	monongalia	redstone	2.9	32.9	55.5	11.6	1.9	13360	60	7.5
west virginia	monongalia	redstone	3.7	34.5	54.9	10.6	2.9	13470	0	8.5
west virginia	monongalia	sewickley	2.7	37.9	50.6	11.5	3.5	13400	59	7.0
west virginia	monongalia	pittsburgh	3.1	35.1	53.5	11.4	2.8	13520	59	7.5
west virginia	nicholas	eagle	4.5	30.2	54.6	15.2	0.6	12820	58	8.0
west virginia	nicholas	eagle	3.4	33.3	59.5	7.2	0.8	14110	55	7.0
west virginia	nicholas	cambell creek peerl	3.4	32.2	55.3	12.5	1.0	13310	55	8.5
west virginia	nicholas	coalburg	5.3	35.5	54.9	9.6	0.8	13560	46	4.5
west virginia	nicholas	sewell	3.1	31.0	63.7	4.4	0.7	14860	0	8.0

state	county	bed	moistur	volmat	fixede	ash	sulfur	btu	hgilo	fsilo
west virginia	nicholas	lower kittanning	2.6	35.3	59.2	5.5	0.7	14360	0	7.0
west virginia	nicholas	lower kittanning	3.5	33.3	54.0	12.7	0.7	13170	48	6.5
west virginia	nicholas	lower kittanning	2.6	35.7	56.9	7.4	0.7	14070	0	5.5
west virginia	nicholas	campbell creek peerl	3.4	34.6	60.5	4.9	1.1	14460	0	8.5
west virginia	nicholas	campbell creek peerl	2.4	34.3	57.2	8.5	1.1	14000	52	8.5
west virginia	nicholas	winifrede	3.3	33.8	55.3	10.9	0.8	13400	46	6.0
west virginia	nicholas	eagle	4.0	33.6	59.3	7.1	0.7	14190	0	8.0
west virginia	nicholas	sewell	2.4	30.9	66.5	2.6	0.6	15030	0	8.0
west virginia	nicholas	coalburg	2.6	35.1	53.8	11.1	0.8	13410	43	7.0
west virginia	nicholas	coalburg	4.4	34.3	53.5	12.2	0.8	13150	43	5.5
west virginia	nicholas	coalburg	3.0	37.8	55.4	6.8	0.8	14180	0	6.5
west virginia	nicholas	campbell creek peerl	5.9	31.6	62.0	6.4	0.9	14210	0	8.0
west virginia	nicholas	eagle	4.0	32.4	59.8	7.8	0.9	14070	56	8.0
west virginia	nicholas	eagle	3.1	33.0	61.0	6.0	0.7	14360	0	8.0
west virginia	nicholas	sewell	4.5	28.7	68.8	2.5	0.6	15140	78	8.0
west virginia	nicholas	sewell	4.4	27.7	69.7	2.6	0.6	15080	76	8.5
west virginia	nicholas	sewell	3.8	28.2	67.7	4.1	0.6	14860	0	8.0
west virginia	nicholas	sewell	4.5	28.4	67.9	3.7	0.6	14930	0	8.0
west virginia	nicholas	sewell	5.1	27.6	68.5	3.9	0.7	14870	75	8.0
west virginia	nicholas	coalburg	2.3	37.5	54.7	7.8	0.9	13960	0	6.5
west virginia	nicholas	varinus	5.5	31.5	57.4	11.1	0.7	13150	53	2.0
west virginia	nicholas	eagle	2.8	37.5	58.1	9.4	0.8	13800	53	8.0
west virginia	nicholas	gilbert	3.9	36.1	56.8	7.1	2.3	14290	66	8.5
west virginia	nicholas	various	3.2	33.9	57.6	8.5	0.9	13710	0	2.0
west virginia	nicholas	various	3.3	34.7	56.5	9.8	0.7	13870	49	5.5
west virginia	nicholas	various	4.3	34.1	59.1	6.8	0.8	14050	0	6.5
west virginia	nicholas	various	4.6	34.3	58.5	7.2	0.9	13860	0	3.5
west virginia	nicholas	various	3.5	35.0	57.6	7.4	0.9	14070	50	7.5
west virginia	nicholas	various	2.7	34.5	58.0	7.5	1.0	13930	49	7.0
west virginia	nicholas	various	3.6	35.4	55.9	8.7	1.1	13770	48	6.0
west virginia	nicholas	various	3.6	35.0	58.4	6.6	0.9	14180	49	7.0
west virginia	nicholas	various	3.3	35.3	59.3	5.4	0.7	14220	0	1.0
west virginia	nicholas	various	2.5	34.4	57.5	8.1	0.9	13920	0	5.5
west virginia	nicholas	various	6.3	32.6	57.2	10.2	0.7	13050	0	1.0
west virginia	nicholas	various	3.9	33.7	57.8	8.5	1.0	13790	50	6.5
west virginia	nicholas	eagle	3.0	32.9	59.9	7.2	0.7	14270	54	8.5
west virginia	nicholas	eagle	3.4	33.7	60.7	5.6	0.7	14440	52	9.0
west virginia	nicholas	sewell	2.8	28.8	67.4	3.8	1.1	14810	0	8.5
west virginia	nicholas	eagle	3.7	32.1	59.4	8.5	0.6	13900	52	8.5
west virginia	nicholas	eagle	3.3	33.6	59.6	6.8	0.7	14220	52	9.0
west virginia	nicholas	lower kittanning	2.6	36.6	55.4	8.0	1.3	13970	0	7.5
west virginia	nicholas	lower kittanning	3.7	34.5	60.2	5.3	0.8	14310	48	6.0
west virginia	nicholas	cambell creek peerl	3.3	34.1	58.3	7.6	1.1	14070	55	8.5
west virginia	nicholas	sewell	5.6	26.7	67.3	6.0	1.7	14590	87	8.0
west virginia	nicholas	sewell	4.5	27.9	63.9	8.2	0.6	14170	72	7.5
west virginia	nicholas	sewell	5.4	26.8	66.9	6.3	1.2	14550	81	8.5
west virginia	nicholas	winifrede	2.3	35.6	56.0	8.4	0.8	13870	0	5.5
west virginia	nicholas	eagle	3.3	34.5	60.7	4.8	0.7	14550	0	7.5
west virginia	nicholas	eagle	3.3	33.7	60.8	5.5	0.7	14400	55	8.0
west virginia	nicholas	eagle	3.3	33.5	60.3	6.2	0.6	14340	55	8.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	nicholas	cambell creek peerl	6.0	31.9	59.6	8.5	0.9	13930	0	8.0
west virginia	nicholas	cambell creek peerl	2.6	33.8	56.4	9.8	1.1	13650	54	8.5
west virginia	nicholas	cambell creek peerl	1.7	33.4	60.1	6.5	1.0	14220	0	8.5
west virginia	nicholas	sewell	5.4	27.2	68.4	4.4	0.5	14850	85	9.0
west virginia	nicholas	sewell	4.1	27.1	68.1	4.8	0.6	14730	0	8.0
west virginia	nicholas	sewell	2.4	28.0	68.5	3.5	0.8	14940	0	7.5
west virginia	nicholas	sewell	4.3	27.2	67.7	5.1	0.4	14610	0	8.0
west virginia	nicholas	sewell	2.7	27.9	69.2	2.9	0.5	15000	0	8.0
west virginia	nicholas	eagle	2.8	33.5	61.9	4.6	0.8	14540	0	8.5
west virginia	nicholas	eagle	3.4	32.6	61.4	6.0	0.7	14330	55	8.5
west virginia	nicholas	eagle	3.9	32.9	60.1	7.0	0.8	14230	58	8.0
west virginia	nicholas	eagle	6.7	32.3	63.0	4.7	0.8	14580	58	8.0
west virginia	nicholas	sewell	3.2	30.2	64.6	5.2	1.0	14630	66	7.5
west virginia	nicholas	sewell	4.1	30.3	64.8	4.9	0.9	14650	68	8.5
west virginia	nicholas	sewell	3.9	28.2	65.5	6.3	0.7	14420	0	8.0
west virginia	nicholas	sewell	3.4	30.8	65.7	3.5	0.6	14940	0	7.5
west virginia	nicholas	lower kittanning	2.7	36.9	58.4	4.7	0.9	14510	0	7.0
west virginia	nicholas	cambell creek peerl	3.3	33.5	59.0	7.5	0.9	14090	0	7.5
west virginia	nicholas	little eagle	2.7	37.1	59.5	3.4	0.7	14860	0	8.0
west virginia	nicholas	eagle	3.1	33.4	60.4	6.2	0.7	14350	51	7.5
west virginia	nicholas	eagle	3.9	33.4	60.6	6.0	0.7	14370	0	8.0
west virginia	nicholas	eagle	3.7	33.8	61.0	5.2	0.7	14560	56	8.0
west virginia	nicholas	eagle	3.3	32.6	61.8	5.6	0.6	14460	55	8.0
west virginia	nicholas	middle kittanning	2.3	35.8	60.9	3.3	0.8	14680	0	7.0
west virginia	nicholas	lower kittanning	2.8	35.6	57.8	6.6	1.1	14160	51	7.5
west virginia	nicholas	lower kittanning	3.4	35.6	58.3	6.1	0.8	14160	50	7.5
west virginia	nicholas	uncorrelated	4.4	34.3	53.7	12.0	0.9	13290	46	5.5
west virginia	nicholas	cambell creek peerl	2.7	36.1	60.6	3.3	1.1	14780	0	8.0
west virginia	nicholas	upper kittanning	6.2	29.7	57.6	12.7	0.6	12420	50	1.5
west virginia	ohio	pittsburgh	4.3	37.7	51.4	10.9	3.4	13160	0	7.0
west virginia	ohio	pittsburgh	3.1	39.1	51.6	9.3	3.6	13320	0	7.5
west virginia	ohio	pittsburgh	5.1	37.8	49.3	12.9	3.0	12850	0	6.5
west virginia	ohio	pittsburgh	3.4	38.2	51.4	10.4	4.0	13140	0	8.0
west virginia	pocahontas	sewell	6.3	30.4	63.1	6.5	0.8	14570	76	5.5
west virginia	pocahontas	sewell	4.9	29.8	61.1	9.1	0.6	14030	72	6.5
west virginia	pocahontas	sewell	6.5	29.5	63.8	6.7	0.7	14520	0	7.5
west virginia	pocahontas	sewell	4.4	28.8	63.6	7.6	0.4	14240	0	8.0
west virginia	pocahontas	sewell	3.3	30.3	61.9	7.8	0.8	14370	0	4.5
west virginia	pocahontas	sewell	4.0	29.1	61.4	9.5	0.8	14090	0	5.0
west virginia	preston	bakerstown	3.2	27.9	61.5	10.6	3.4	13740	88	7.0
west virginia	preston	bakerstown	2.2	28.2	57.0	14.8	5.0	13030	80	6.0
west virginia	preston	bakerstown	4.0	29.1	59.6	11.3	2.4	13660	85	7.5
west virginia	preston	mahoning	3.3	28.2	63.3	8.5	2.6	14160	89	9.0
west virginia	preston	upper freeport	3.0	27.0	60.5	12.5	1.8	13480	83	8.0
west virginia	preston	upper freeport	4.8	27.4	62.5	10.1	1.2	13520	0	7.5
west virginia	preston	upper freeport	3.2	27.4	61.4	11.2	1.8	13630	85	8.5
west virginia	preston	upper freeport	2.5	28.2	60.9	10.9	1.7	13830	91	8.5
west virginia	preston	upper freeport	3.6	26.9	63.1	10.0	1.6	13910	85	8.5
west virginia	preston	upper freeport	2.6	30.8	56.6	12.6	3.1	13380	73	8.5
west virginia	preston	lower kittanning	3.7	23.8	65.7	10.5	1.3	13900	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	preston	lower kittanning	3.5	23.8	67.1	9.1	1.2	14190	99	8.5
west virginia	preston	lower kittanning	3.1	21.8	59.5	18.7	2.2	12520	94	8.5
west virginia	preston	lower kittanning	3.6	23.4	65.5	11.1	1.5	13710	0	6.5
west virginia	preston	upper freeport	5.3	25.7	59.6	14.7	1.2	12940	89	7.0
west virginia	preston	upper freeport	2.1	29.0	58.7	12.3	1.4	13450	0	1.0
west virginia	preston	upper freeport	3.3	30.2	58.1	11.7	2.9	13550	77	8.5
west virginia	preston	upper freeport	3.1	28.4	59.6	12.0	2.1	13530	81	8.5
west virginia	preston	upper freeport	3.5	28.5	57.3	14.2	3.3	13160	79	8.0
west virginia	preston	upper freeport	2.3	30.5	56.4	13.1	4.0	13360	0	7.5
west virginia	preston	upper freeport	1.7	30.4	56.4	13.2	3.5	13290	0	8.5
west virginia	preston	upper freeport	3.2	30.1	54.8	15.1	3.9	12910	73	8.5
west virginia	preston	upper freeport	2.3	30.2	54.2	15.6	3.1	12870	69	8.0
west virginia	preston	upper freeport	3.4	30.4	55.8	13.8	4.2	13220	78	7.0
west virginia	preston	bakerstown	2.6	30.4	63.1	6.5	1.2	14460	82	8.0
west virginia	preston	bakerstown	2.8	29.1	60.8	10.1	0.9	13930	79	7.5
west virginia	preston	bakerstown	2.8	30.6	60.7	8.7	0.7	14030	77	7.0
west virginia	preston	bakerstown	3.0	30.2	60.9	8.9	0.9	13810	0	8.0
west virginia	preston	bakerstown	4.9	29.4	63.4	7.2	1.1	14280	0	7.5
west virginia	preston	upper freeport	4.2	29.0	60.6	10.4	1.4	13820	78	8.0
west virginia	preston	upper freeport	3.4	28.7	58.3	13.0	2.2	13340	77	8.5
west virginia	preston	upper freeport	2.7	27.9	58.4	13.7	2.5	13230	78	8.0
west virginia	preston	bakerstown	3.2	30.3	58.6	11.1	1.8	13690	79	7.0
west virginia	preston	bakerstown	3.4	29.9	57.1	13.0	2.0	13350	0	7.0
west virginia	preston	bakerstown	3.4	30.6	58.2	11.2	2.0	13560	0	8.0
west virginia	preston	bakerstown	4.2	30.0	58.2	11.8	2.7	13530	0	6.5
west virginia	preston	upper freeport	3.1	27.7	63.2	9.1	1.3	14040	82	7.5
west virginia	preston	upper freeport	2.2	29.1	61.2	9.7	1.5	13900	76	8.0
west virginia	preston	upper freeport	4.6	27.8	62.9	9.3	1.1	13960	0	8.0
west virginia	preston	various	4.1	28.6	59.6	11.8	1.2	13540	0	9.0
west virginia	preston	bakerstown	2.7	30.3	56.9	12.8	3.2	13320	0	8.0
west virginia	preston	upper freeport	3.1	27.3	59.1	13.6	2.6	13260	0	8.5
west virginia	preston	upper freeport	3.9	29.5	58.7	11.8	1.6	13590	77	7.5
west virginia	preston	upper freeport	3.9	28.4	59.7	11.9	2.5	13560	81	9.0
west virginia	preston	upper freeport	3.1	27.8	61.5	10.7	1.9	13730	85	8.0
west virginia	preston	bakerstown	2.3	29.0	59.7	11.3	3.0	13600	0	7.0
west virginia	preston	bakerstown	4.0	30.1	57.5	12.4	3.6	13500	85	8.0
west virginia	preston	upper freeport	3.1	27.9	59.8	12.3	2.9	13490	0	7.0
west virginia	preston	upper freeport	3.3	22.2	58.4	19.4	3.0	12330	91	9.0
west virginia	preston	upper freeport	2.6	25.4	57.4	17.2	3.0	12650	84	9.0
west virginia	preston	upper freeport	3.4	28.9	60.6	10.5	1.3	13730	77	7.5
west virginia	preston	upper freeport	2.9	28.9	58.2	12.9	2.5	13380	77	8.0
west virginia	preston	upper kittanning	2.9	30.6	57.2	12.2	1.3	13450	69	7.0
west virginia	preston	bakerstown	2.6	30.4	55.8	13.8	4.5	13140	68	7.0
west virginia	preston	bakerstown	2.2	31.0	55.1	13.9	4.8	13130	69	7.5
west virginia	preston	upper freeport	3.0	27.5	58.0	14.5	2.1	13130	88	8.0
west virginia	preston	upper freeport	2.5	29.9	59.0	11.1	3.2	13700	77	7.5
west virginia	preston	upper freeport	1.9	29.5	56.7	13.8	4.1	13250	80	7.5
west virginia	preston	upper freeport	2.7	29.3	58.6	12.1	1.2	13490	73	8.5
west virginia	preston	upper freeport	2.4	29.5	59.9	10.6	1.3	13710	72	8.0
west virginia	preston	upper freeport	2.1	31.7	52.9	15.4	4.2	12960	71	8.5

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	preston	bakerstown	2.6	29.3	60.7	10.0	2.2	13900	0	7.0
west virginia	preston	bakerstown	2.4	30.8	61.3	7.9	2.1	14230	80	8.0
west virginia	preston	bakerstown	3.1	29.7	59.7	10.6	2.7	13770	85	8.0
west virginia	preston	middle kittanning	1.9	28.8	59.9	11.3	2.8	13700	86	8.0
west virginia	preston	upper freeport	3.3	28.9	60.2	10.9	1.3	13640	72	8.0
west virginia	preston	bakerstown	1.8	27.2	58.5	14.3	2.6	13070	0	8.0
west virginia	preston	bakerstown	3.4	29.6	60.1	10.3	2.5	13770	82	7.5
west virginia	preston	bakerstown	3.2	28.4	60.8	10.8	1.8	13670	85	7.5
west virginia	preston	upper freeport	2.4	29.7	57.8	12.5	3.2	13420	78	8.0
west virginia	preston	upper freeport	2.9	29.6	60.2	10.2	2.7	13860	77	7.5
west virginia	preston	upper freeport	4.3	27.6	61.6	10.8	1.4	13770	85	8.0
west virginia	preston	upper freeport	2.9	29.0	56.6	14.4	2.9	13160	78	7.5
west virginia	preston	upper freeport	2.0	30.0	58.0	12.0	2.4	13570	75	7.5
west virginia	preston	upper freeport	3.0	30.6	58.4	11.0	2.5	13680	77	9.0
west virginia	preston	upper freeport	2.8	30.2	59.0	10.8	2.2	13610	70	8.5
west virginia	preston	upper freeport	3.3	29.4	58.6	12.0	2.8	13510	73	8.0
west virginia	preston	bakerstown	2.5	31.6	58.5	9.9	1.8	13860	73	7.0
west virginia	preston	upper freeport	3.1	30.8	54.9	14.3	3.7	13050	72	9.0
west virginia	preston	bakerstown&u freeprt	3.2	31.2	57.7	11.1	1.8	13560	0	8.0
west virginia	preston	upper freeport	3.2	29.4	57.0	13.6	2.7	13200	77	8.5
west virginia	preston	upper freeport	2.7	29.3	58.1	12.6	3.3	13400	80	7.5
west virginia	preston	upper freeport	3.1	29.2	55.6	15.2	4.0	12870	77	8.0
west virginia	preston	upper freeport	2.4	29.3	58.5	12.2	3.2	13430	79	8.0
west virginia	preston	upper freeport	3.1	27.2	61.1	11.7	1.5	13570	85	8.5
west virginia	preston	upper freeport	5.1	27.3	62.1	10.6	1.3	13440	0	8.5
west virginia	preston	upper freeport	3.0	30.7	56.1	13.2	3.3	13300	75	7.5
west virginia	preston	upper freeport	3.1	28.0	61.0	11.0	2.0	13730	82	8.0
west virginia	preston	upper freeport	3.6	27.7	61.4	10.9	2.0	13750	84	8.0
west virginia	preston	upper freeport	2.7	29.1	63.0	7.9	1.1	14230	77	8.0
west virginia	preston	upper freeport	2.5	28.4	62.0	9.6	1.9	13970	81	8.5
west virginia	preston	upper freeport	3.3	29.1	59.6	11.3	1.6	13630	0	8.0
west virginia	preston	upper freeport	2.5	30.3	55.3	14.4	3.0	13060	73	8.0
west virginia	preston	bakerstown	5.0	26.0	63.4	10.6	2.4	13550	**	8.0
west virginia	preston	upper freeport	2.5	30.4	53.1	16.5	5.1	12750	77	8.0
west virginia	preston	upper kittanning	4.0	30.6	46.9	22.5	3.6	11580	64	7.0
west virginia	preston	lower kittanning	7.2	28.7	59.7	11.6	1.0	12970	80	2.0
west virginia	preston	upper freeport	2.8	23.1	61.3	15.6	1.5	12980	91	9.0
west virginia	preston	upper freeport	3.0	29.4	57.9	12.7	2.3	13380	73	8.5
west virginia	preston	upper freeport	2.7	30.2	55.6	14.2	3.6	13140	73	8.0
west virginia	preston	upper freeport	3.0	30.0	57.8	12.2	2.8	13470	76	8.5
west virginia	preston	upper freeport	3.5	29.2	57.9	12.9	2.1	13330	73	8.0
west virginia	preston	upper freeport	2.9	30.0	57.5	12.5	2.9	13340	77	8.0
west virginia	preston	upper freeport	3.5	28.7	59.2	12.1	1.8	13460	77	8.0
west virginia	preston	upper freeport	3.6	27.7	62.1	10.2	0.9	13800	75	8.5
west virginia	preston	upper freeport	3.4	28.5	59.3	12.2	1.2	13540	73	9.0
west virginia	preston	upper freeport	3.7	28.0	59.7	12.3	1.3	13440	76	8.5
west virginia	preston	middle kittanning	3.8	24.2	62.4	13.4	4.8	13380	94	9.0
west virginia	preston	upper freeport	3.1	28.7	57.4	13.9	2.1	13240	0	8.0
west virginia	preston	upper freeport	3.3	24.1	57.1	18.8	2.4	12480	86	9.0
west virginia	preston	upper freeport	3.7	29.7	60.3	10.0	1.6	13810	74	8.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	preston	upper freeport	4.6	29.9	60.3	9.8	1.4	13890	72	8.0
west virginia	preston	upper freeport	2.6	29.7	56.3	14.0	3.4	13200	74	7.5
west virginia	preston	upper freeport	3.0	29.9	60.4	9.7	1.2	13910	74	8.5
west virginia	preston	upper freeport	4.7	30.0	59.9	10.1	1.5	13900	76	7.5
west virginia	preston	upper freeport	2.9	29.4	58.2	12.4	3.4	13430	80	8.0
west virginia	preston	upper freeport	3.4	26.9	63.5	9.6	1.1	14010	87	8.5
west virginia	preston	bakerstown	2.5	30.2	59.4	10.4	1.7	13790	81	7.0
west virginia	preston	bakerstown	1.6	28.9	59.5	11.6	1.6	13580	0	5.5
west virginia	preston	bakerstown	1.9	30.0	58.8	11.2	2.2	13710	80	7.0
west virginia	preston	bakerstown	5.2	29.3	63.9	6.8	1.0	14280	83	7.0
west virginia	preston	bakerstown	2.5	30.1	60.2	9.7	1.9	13910	0	7.0
west virginia	preston	bakerstown&u freeprt	2.4	29.9	59.1	11.0	2.4	13720	0	7.5
west virginia	preston	bakerstown&u freeprt	2.8	30.2	58.1	11.7	3.0	13600	0	7.5
west virginia	preston	bakerstown&u freeprt	2.8	29.0	59.9	11.1	1.9	13640	0	8.5
west virginia	preston	bakerstown&u freeprt	2.7	29.7	59.9	10.4	2.2	13820	81	7.5
west virginia	preston	upper kittanning	4.4	28.6	55.6	15.8	2.3	12800	71	7.0
west virginia	raleigh	pocahontas no 4	5.1	16.7	78.1	5.2	0.8	14930	0	9.0
west virginia	raleigh	pocahontas no 4	4.4	16.6	76.3	7.1	1.0	14530	0	8.0
west virginia	raleigh	various	3.3	30.3	54.6	15.1	1.6	13040	73	7.0
west virginia	raleigh	beckley	2.6	16.9	75.6	7.5	0.8	14420	++	9.0
west virginia	raleigh	beckley	4.6	17.1	74.0	8.9	0.6	14060	0	3.5
west virginia	raleigh	various	3.4	17.0	74.9	8.1	0.8	14390	0	8.5
west virginia	raleigh	cedar grove	2.2	33.9	59.2	6.9	1.0	14300	0	7.5
west virginia	raleigh	sewell	6.6	23.2	71.7	5.1	0.9	14780	++	8.5
west virginia	raleigh	fire creek	4.7	20.2	75.0	4.8	0.8	14880	++	9.0
west virginia	raleigh	eagle	3.2	28.8	63.8	7.4	1.5	14370	85	7.0
west virginia	raleigh	eagle	3.6	25.7	66.4	7.9	1.1	14230	0	7.5
west virginia	raleigh	eagle	3.3	26.8	65.8	7.4	1.5	14380	88	7.5
west virginia	raleigh	sewell	3.2	20.0	73.9	6.1	0.8	14710	99	9.0
west virginia	raleigh	sewell	3.5	20.8	74.2	5.0	0.8	14860	0	9.0
west virginia	raleigh	sewell	4.0	20.7	73.4	5.9	1.1	14690	0	9.0
west virginia	raleigh	eagle	2.3	29.0	62.9	8.1	1.5	14240	80	5.0
west virginia	raleigh	fire creek	2.4	21.3	73.0	5.7	0.5	14750	97	9.0
west virginia	raleigh	fire creek	1.6	20.2	71.4	8.4	0.6	14310	97	9.0
west virginia	raleigh	fire creek	5.0	20.2	74.6	5.2	0.7	14700	++	8.5
west virginia	raleigh	fire creek	2.1	19.8	73.6	6.6	0.7	14570	++	8.0
west virginia	raleigh	pocahontas no 4	2.7	16.0	76.6	7.4	0.7	14530	0	9.0
west virginia	raleigh	pocahontas no 3	2.5	16.2	77.2	6.6	0.6	14640	0	7.5
west virginia	raleigh	l kittanning&winifrd	4.2	34.2	59.1	6.7	0.6	14060	50	7.0
west virginia	raleigh	beckley	2.5	16.0	73.7	10.3	0.6	13980	++	7.0
west virginia	raleigh	sewell	4.1	21.1	73.6	5.3	0.8	14890	99	9.0
west virginia	raleigh	powellton	2.1	34.3	58.2	7.5	1.1	14210	0	8.0
west virginia	raleigh	powellton	2.9	33.0	57.5	9.5	1.4	13840	60	9.0
west virginia	raleigh	powellton	2.4	33.8	59.8	6.4	1.1	14340	0	8.5
west virginia	raleigh	pocahontas no 4	3.3	16.7	77.7	5.6	0.7	14870	0	8.5
west virginia	raleigh	pocahontas no 4	5.1	17.0	76.3	6.7	0.9	14630	0	8.0
west virginia	raleigh	pocahontas no 4	4.6	17.3	76.3	6.4	0.8	14630	0	9.0
west virginia	raleigh	pocahontas no 4	3.1	16.8	75.9	7.3	0.9	14530	0	8.5
west virginia	raleigh	sewell	7.7	22.4	70.7	6.9	0.9	14190	0	7.5
west virginia	raleigh	sewell	4.1	22.4	70.7	6.9	1.2	14530	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	raleigh	beckley	3.4	16.7	73.3	10.0	0.7	14040	98	5.0
west virginia	raleigh	beckley	2.7	16.5	75.0	8.5	0.7	14300	++	7.5
west virginia	raleigh	beckley	4.8	16.3	74.4	9.3	0.7	14200	0	7.5
west virginia	raleigh	fire creek	2.5	19.4	72.8	7.8	1.0	14430	++	9.0
west virginia	raleigh	beckley & sewell	3.7	20.9	73.5	5.6	0.6	14780	0	9.0
west virginia	raleigh	beckley & sewell	4.1	20.0	71.8	8.2	1.0	14340	0	8.0
west virginia	raleigh	beckley	2.2	21.6	71.1	7.3	0.9	14420	0	9.0
west virginia	raleigh	lower kittanning	2.9	32.9	56.2	10.9	0.8	13420	46	7.0
west virginia	raleigh	pocahontas no 4	3.2	16.6	76.3	7.1	0.8	14600	0	7.5
west virginia	raleigh	sewell	3.3	18.3	72.9	8.8	0.8	14260	++	9.0
west virginia	raleigh	beckley & fire creek	4.5	20.1	74.1	5.8	0.8	14680	0	8.5
west virginia	raleigh	beckley & fire creek	4.9	20.0	73.6	6.4	0.6	14420	0	8.0
west virginia	raleigh	beckley & fire creek	3.5	19.6	72.7	7.7	0.9	14430	++	9.0
west virginia	randolph	lower kittanning	3.0	30.4	59.7	9.9	0.7	13900	0	7.5
west virginia	randolph	sewell	4.5	25.5	67.1	7.4	1.0	14440	85	9.0
west virginia	randolph	sewell	5.9	25.1	68.2	6.7	0.8	14520	82	8.0
west virginia	randolph	sewell	4.0	26.5	65.9	7.6	1.1	14360	0	9.0
west virginia	randolph	middle kittanning	4.1	32.6	55.7	11.7	2.8	13530	72	7.5
west virginia	randolph	campbell creek peerl	3.0	34.7	61.8	3.5	0.8	14850	0	8.5
west virginia	randolph	upper kittanning	3.1	29.4	57.3	13.3	1.3	13320	0	8.0
west virginia	randolph	sewell	2.7	30.1	59.0	10.9	0.5	13650	57	7.5
west virginia	randolph	sewell	2.5	31.1	64.7	4.2	0.5	14940	0	7.0
west virginia	randolph	sewell	2.9	30.2	66.0	3.8	0.7	14880	0	7.5
west virginia	randolph	sewell	2.7	30.9	62.6	6.5	0.7	14480	63	7.5
west virginia	randolph	upper kittanning	2.7	30.6	58.8	10.6	0.9	13800	77	6.0
west virginia	randolph	middle kittanning	5.8	29.2	60.5	10.3	0.8	13300	75	2.5
west virginia	randolph	sewell	5.5	30.1	65.5	4.4	0.5	14190	0	1.5
west virginia	randolph	sewell	4.6	29.4	66.1	4.5	0.5	14490	60	3.5
west virginia	randolph	sewell	4.3	30.7	63.2	6.1	0.8	14420	62	7.5
west virginia	randolph	lower kittanning	2.9	30.4	57.4	12.2	2.1	13500	0	6.5
west virginia	randolph	lower kittanning	2.0	31.3	54.0	14.7	5.0	12890	69	8.0
west virginia	randolph	lower kittanning	5.3	29.3	54.8	15.9	2.3	12610	78	7.0
west virginia	randolph	gilbert	4.7	23.6	67.8	8.6	0.6	14160	70	7.5
west virginia	randolph	uncorrelated	4.9	27.1	67.0	5.9	0.5	14420	71	4.5
west virginia	randolph	low & mid kittanning	3.8	30.1	59.4	10.5	0.9	13810	79	8.0
west virginia	randolph	sewell	2.1	29.6	62.7	7.7	0.7	14370	80	7.5
west virginia	randolph	campbell creek peerl	2.7	34.6	63.6	1.8	0.7	15290	0	9.0
west virginia	randolph	lower kittanning	2.5	29.7	58.8	11.5	1.2	13660	0	7.0
west virginia	randolph	lower kittanning	3.0	29.7	58.6	11.7	1.0	13650	75	7.5
west virginia	randolph	lower kittanning	3.6	29.6	58.6	11.8	1.2	13510	77	8.0
west virginia	randolph	lower kittanning	2.9	30.1	57.4	12.5	1.8	13420	0	8.0
west virginia	randolph	lower kittanning	3.5	29.5	58.9	11.6	1.9	13560	76	8.0
west virginia	randolph	upper kittanning	2.6	28.3	53.4	18.3	2.3	12410	71	7.5
west virginia	randolph	lower kittanning	3.2	28.0	59.2	12.8	1.5	13310	0	7.5
west virginia	randolph	lower kittanning	6.4	28.8	60.7	10.5	1.0	13320	78	5.5
west virginia	randolph	campbell creek peerl	4.8	32.2	62.9	4.9	0.9	14640	0	8.0
west virginia	randolph	campbell creek peerl	4.1	32.7	64.0	3.3	0.8	14860	61	9.0
west virginia	randolph	campbell creek peerl	3.4	32.6	65.3	2.1	0.9	15140	0	8.5
west virginia	randolph	sewell	2.8	30.8	64.0	5.2	0.6	14620	61	8.0
west virginia	randolph	various	3.2	30.0	58.6	11.4	1.8	13560	74	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	randolph	upper kittanning	5.3	30.4	58.2	11.4	1.0	13510	73	7.5
west virginia	randolph	lower kittanning	3.2	30.4	57.8	11.8	1.5	13540	70	7.5
west virginia	randolph	lower kittanning	2.9	29.8	57.4	12.8	0.9	13380	72	7.5
west virginia	randolph	lower kittanning	3.2	31.7	57.2	11.1	1.8	13710	0	8.0
west virginia	randolph	lower kittanning	2.5	32.4	56.5	11.1	1.5	13700	0	7.0
west virginia	randolph	lower kittanning	2.5	29.8	56.7	13.5	2.5	13220	74	6.0
west virginia	randolph	sewell	2.8	31.6	57.1	11.3	0.7	13580	54	7.0
west virginia	randolph	sewell	2.9	29.6	63.8	6.6	0.5	14310	58	8.0
west virginia	randolph	campbell creek peerl	3.0	32.8	62.0	5.2	0.8	14630	0	9.0
west virginia	randolph	campbell creek peerl	3.4	32.6	61.9	5.5	0.8	14630	59	8.5
west virginia	randolph	cambell creek peerl	3.1	32.9	61.1	6.0	0.9	14380	57	9.0
west virginia	randolph	lower kittanning	3.2	29.6	56.7	13.7	2.0	13170	70	7.5
west virginia	randolph	lower kittanning	3.2	27.9	59.2	12.9	1.2	13180	75	7.0
west virginia	randolph	lower kittanning	2.2	28.5	54.5	17.0	2.7	12550	76	8.0
west virginia	randolph	lower kittanning	1.9	27.6	55.9	16.5	2.4	12860	71	6.5
west virginia	randolph	lower kittanning	3.6	29.1	57.4	13.5	1.2	13210	75	7.0
west virginia	randolph	lower kittanning	4.8	29.1	58.9	12.0	1.2	13450	76	7.0
west virginia	taylor	pittsburgh	2.8	36.8	55.3	7.9	1.6	13990	56	8.0
west virginia	taylor	pittsburgh	3.7	36.8	55.1	8.1	3.4	14090	67	8.0
west virginia	taylor	pittsburgh	4.1	36.3	56.6	7.1	1.5	13920	61	7.0
west virginia	taylor	pittsburgh	4.7	36.5	54.3	9.2	2.7	13800	63	8.0
west virginia	taylor	pittsburgh	4.5	36.7	50.7	12.6	3.2	13310	64	7.5
west virginia	taylor	pittsburgh	1.8	40.6	49.5	9.9	3.6	13590	57	8.0
west virginia	taylor	pittsburgh	3.2	36.1	55.0	8.9	2.4	13770	65	8.0
west virginia	taylor	pittsburgh	5.8	36.5	56.3	7.2	1.7	13930	61	8.0
west virginia	taylor	pittsburgh	4.8	38.4	52.9	8.7	2.4	13970	60	8.0
west virginia	taylor	pittsburgh	2.2	39.2	52.0	8.8	3.3	13930	58	6.5
west virginia	taylor	pittsburgh	3.2	35.9	55.0	9.1	2.2	13870	0	8.5
west virginia	taylor	pittsburgh	3.2	37.2	54.4	8.4	2.6	13920	0	7.5
west virginia	taylor	pittsburgh	4.6	36.6	54.0	9.4	2.7	13780	0	9.0
west virginia	taylor	various	6.8	35.6	54.2	10.2	2.0	13080	0	6.5
west virginia	taylor	redstone	2.2	36.3	54.5	9.2	2.6	13760	61	8.0
west virginia	taylor	pittsburgh	3.8	37.4	54.8	7.8	1.6	13980	59	7.5
west virginia	taylor	pittsburgh	3.8	37.7	53.4	8.9	3.0	13890	58	5.0
west virginia	taylor	pittsburgh	1.9	37.2	52.5	10.3	4.4	13740	69	8.5
west virginia	taylor	pittsburgh	2.8	36.9	55.1	8.0	2.7	14090	61	7.5
west virginia	taylor	pittsburgh	3.1	37.0	52.3	10.7	3.1	13660	60	7.5
west virginia	taylor	pittsburgh	2.2	37.6	54.2	8.2	3.1	14090	65	8.5
west virginia	taylor	pittsburgh	2.6	37.4	51.2	11.4	3.7	13510	59	7.5
west virginia	taylor	pittsburgh	1.9	38.8	53.2	8.0	3.4	14070	0	9.0
west virginia	taylor	pittsburgh	1.9	37.4	54.3	8.3	3.6	13980	0	8.0
west virginia	taylor	pittsburgh	3.5	35.8	56.3	7.9	1.5	14160	59	8.0
west virginia	taylor	pittsburgh	3.0	36.4	55.5	8.1	1.8	14030	0	7.5
west virginia	taylor	pittsburgh	2.4	36.9	55.1	8.0	2.1	14120	0	8.5
west virginia	tucker	upper freeport	3.2	23.9	65.1	11.0	2.7	13740	94	9.0
west virginia	tucker	upper freeport	3.9	24.7	69.5	5.8	0.6	14680	95	9.0
west virginia	tucker	upper freeport	5.2	25.1	66.6	8.3	0.9	13740	0	1.5
west virginia	tucker	upper freeport	7.1	25.8	66.2	8.0	0.8	13410	0	1.5
west virginia	tucker	upper freeport	4.0	21.2	70.9	7.9	0.9	14420	**	9.0
west virginia	tucker	upper freeport	2.9	21.9	69.2	8.9	1.5	14190	0	9.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	tucker	upper freeport	3.3	22.9	69.6	7.5	1.2	14390	99	9.0
west virginia	tucker	bakerstown	3.5	22.0	68.9	9.1	0.7	14190	98	9.0
west virginia	tucker	upper freeport	3.8	22.3	66.1	11.6	1.3	13710	97	9.0
west virginia	tucker	bakerstown	2.8	24.0	63.2	12.8	0.7	13550	92	9.0
west virginia	tucker	upper freeport	5.0	26.6	64.2	9.2	1.2	14080	88	9.0
west virginia	upshur	redstone	2.9	34.9	55.8	9.3	2.7	13630	63	8.0
west virginia	upshur	redstone	2.9	38.2	52.4	9.4	2.7	13620	59	6.5
west virginia	upshur	various	4.0	36.9	55.2	7.9	1.0	14050	0	7.0
west virginia	upshur	redstone	2.6	37.6	54.2	8.2	2.7	13870	60	7.5
west virginia	upshur	upper freeport	2.9	38.5	54.1	7.4	1.5	13980	58	7.0
west virginia	upshur	pittsburgh	4.5	37.4	53.9	8.7	3.1	13760	0	7.5
west virginia	upshur	various	2.5	37.2	51.8	11.0	2.9	13640	0	7.0
west virginia	upshur	various	4.1	35.0	51.2	13.8	1.3	12870	0	7.0
west virginia	upshur	upper freeport	3.4	39.6	54.0	6.4	1.4	14240	57	7.5
west virginia	upshur	low & up freeport	5.8	35.3	50.5	14.2	2.2	12680	0	6.5
west virginia	upshur	middle kittanning	8.2	29.5	56.0	14.5	0.6	12170	60	1.0
west virginia	upshur	redstone	3.4	37.0	55.0	8.0	2.1	13880	60	7.5
west virginia	upshur	redstone	2.7	38.1	53.7	8.2	2.6	13830	0	7.5
west virginia	upshur	redstone	5.9	37.3	52.7	10.0	3.2	13480	61	8.5
west virginia	upshur	redstone	2.4	37.9	53.4	8.7	2.6	13650	0	8.0
west virginia	upshur	redstone	5.7	39.0	53.4	7.6	3.3	13900	0	7.5
west virginia	upshur	redstone	3.4	39.4	51.8	8.8	2.9	13640	0	7.5
west virginia	upshur	redstone	4.6	35.8	54.8	9.4	1.9	13590	62	8.0
west virginia	upshur	redstone	3.2	39.0	52.1	8.9	4.0	13700	0	8.0
west virginia	upshur	redstone	2.4	38.1	55.9	6.0	1.8	14230	61	7.5
west virginia	upshur	redstone	6.0	38.5	54.7	6.8	2.6	14050	0	8.0
west virginia	upshur	pittsburgh	2.5	40.5	50.3	9.2	4.2	13750	60	7.0
west virginia	upshur	redstone	3.3	38.3	54.0	7.7	2.8	13820	60	7.0
west virginia	upshur	upper freeport	2.5	39.1	54.5	6.4	1.3	14250	60	8.0
west virginia	upshur	redstone	3.9	36.6	55.5	7.9	1.9	13900	61	8.0
west virginia	upshur	redstone	2.4	36.6	54.9	8.5	2.1	13750	59	8.0
west virginia	upshur	redstone	2.8	37.0	54.4	8.6	2.8	13700	61	8.0
west virginia	upshur	redstone	3.0	36.3	49.3	14.4	3.4	12870	59	8.0
west virginia	upshur	redstone	4.2	38.3	53.9	7.8	2.5	13870	0	7.5
west virginia	upshur	pittsburgh	3.2	39.5	47.9	12.6	4.5	13080	57	6.5
west virginia	upshur	redstone	3.0	37.4	54.3	8.3	2.5	13720	61	9.0
west virginia	upshur	redstone	2.9	37.0	54.4	8.6	2.4	13730	61	8.5
west virginia	upshur	redstone	3.6	36.9	53.1	10.0	2.7	13490	63	8.0
west virginia	upshur	redstone	2.6	35.4	54.9	9.7	2.1	13530	0	8.0
west virginia	upshur	redstone	2.5	39.8	54.0	6.2	2.5	14140	55	7.5
west virginia	upshur	redstone	3.7	36.5	53.9	9.6	2.3	13590	60	8.5
west virginia	upshur	redstone	2.7	37.6	51.9	10.5	2.3	13380	0	7.0
west virginia	upshur	redstone	3.1	36.7	51.5	11.8	2.3	13150	0	6.5
west virginia	upshur	redstone	2.8	39.0	52.3	8.7	3.0	13760	57	7.0
west virginia	webster	sewell	4.8	28.6	63.9	7.5	0.6	14180	0	8.0
west virginia	webster	sewell	2.7	29.9	62.8	7.3	0.6	14360	0	7.5
west virginia	webster	sewell	5.7	28.0	60.8	11.2	0.8	13690	0	8.0
west virginia	webster	sewell	4.8	28.8	63.7	7.5	0.8	14350	0	8.0
west virginia	webster	sewell	3.1	31.5	60.7	7.8	0.5	14230	68	8.0
west virginia	webster	sewell	3.4	32.0	61.5	6.5	0.5	14460	0	7.0

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hgilo	fsilo
west virginia	webster	sewell	4.4	29.1	64.3	6.6	0.5	14480	0	7.5
west virginia	webster	fire creek	2.8	28.6	62.1	9.3	0.4	13760	0	7.5
west virginia	webster	fire creek	3.2	28.8	63.2	8.0	0.5	14060	0	7.5
west virginia	webster	sewell	1.9	30.9	60.9	8.2	0.9	14080	0	8.5
west virginia	webster	sewell	3.6	28.6	60.5	10.9	0.5	13790	0	7.5
west virginia	webster	fire creek	3.0	28.2	61.3	10.5	0.5	13550	57	6.5
west virginia	webster	sewell	2.5	31.7	61.8	6.5	0.8	14460	57	7.5
west virginia	webster	cambel crk prls&sewl	5.7	33.3	62.9	3.8	0.8	14460	0	6.0
west virginia	webster	sewell	3.6	29.7	64.7	5.6	0.5	14520	0	8.0
west virginia	webster	sewell	5.1	29.2	64.0	6.8	0.5	14080	59	6.0
west virginia	webster	campbell creek pearl	2.8	37.2	59.4	3.4	0.7	14900	0	8.0
west virginia	webster	sewell	6.2	29.4	65.1	5.5	0.9	14520	71	8.0
west virginia	webster	sewell	2.4	30.7	61.6	7.7	1.0	14270	67	7.5
west virginia	webster	sewell	6.7	29.6	65.6	4.8	0.6	14190	71	2.5
west virginia	webster	sewell	5.2	29.9	64.5	5.6	0.6	14480	71	8.0
west virginia	webster	sewell	3.8	28.8	63.3	7.9	1.0	14230	70	8.5
west virginia	wyoming	beckley	3.1	17.6	77.8	4.6	0.6	14950	**	7.5
west virginia	wyoming	pocahontas no 6	3.0	17.8	75.2	7.0	0.6	14640	0	9.0
west virginia	wyoming	various	5.8	26.9	59.0	14.1	1.1	13210	70	2.5
west virginia	wyoming	various	5.8	26.9	59.0	14.1	1.1	13210	70	2.5
west virginia	wyoming	sewell	2.3	27.0	74.5	3.5	0.7	15130	0	9.0
west virginia	wyoming	douglas	3.9	26.3	67.9	5.8	1.0	14700	93	9.0
west virginia	wyoming	douglas	2.8	25.4	69.2	5.4	1.0	14730	0	7.0
west virginia	wyoming	douglas	2.9	25.4	70.0	4.6	1.1	14980	0	9.0
west virginia	wyoming	douglas & sewell	4.6	24.9	70.1	5.0	1.2	14960	0	8.5
west virginia	wyoming	pocahontas no 3	4.4	17.0	76.4	6.6	0.6	14600	0	6.0
west virginia	wyoming	pocahontas no 4	2.9	17.4	74.0	8.6	1.0	14300	0	7.5
west virginia	wyoming	pocahontas no 3	3.1	18.1	75.2	6.7	0.8	14550	0	8.0
west virginia	wyoming	powellton	2.2	32.3	62.0	5.7	0.6	14510	57	8.5
west virginia	wyoming	powellton	3.1	32.9	62.5	4.6	0.6	14730	60	8.0
west virginia	wyoming	powellton	2.9	33.4	60.9	5.7	0.7	14520	62	8.0
west virginia	wyoming	powellton	3.6	34.1	58.6	7.3	0.6	14240	0	6.0
west virginia	wyoming	powellton	2.9	32.2	61.3	6.5	0.7	14460	58	8.0
west virginia	wyoming	powellton	2.7	32.2	61.2	6.6	0.6	14400	0	8.0
west virginia	wyoming	winifrede	3.0	35.1	58.3	6.6	0.7	14360	0	6.5
west virginia	wyoming	winifrede	6.2	33.1	55.4	11.5	0.8	13520	60	7.5
west virginia	wyoming	winifrede	8.0	31.3	56.4	12.3	0.7	13400	0	7.5
west virginia	wyoming	winifrede	5.9	31.4	55.5	13.1	0.8	13270	0	6.5
west virginia	wyoming	winifrede	4.7	31.2	54.1	14.7	0.8	12870	0	7.5
west virginia	wyoming	winifrede	5.2	30.8	53.7	15.5	0.8	12750	0	7.0
west virginia	wyoming	winifrede	4.4	30.3	54.9	14.8	0.7	12890	0	7.5
west virginia	wyoming	winifrede	6.1	31.0	55.4	13.6	0.7	13090	0	7.5
west virginia	wyoming	winifrede	6.7	30.9	53.1	16.0	0.8	12710	0	5.0
west virginia	wyoming	winifrede	7.1	30.5	53.0	16.5	0.8	12650	0	7.0
west virginia	wyoming	winifrede	2.1	33.8	56.1	10.1	0.9	13710	0	6.5
west virginia	wyoming	pocahontas no 4	2.5	16.4	77.3	6.3	0.8	14670	0	8.5
west virginia	wyoming	pocahontas no 3	4.0	17.8	75.7	6.5	0.7	14640	0	8.0
west virginia	wyoming	douglas	2.4	27.4	68.1	4.5	2.4	14860	0	8.5
west virginia	wyoming	lower campbell creek	3.8	32.0	64.9	3.1	0.6	14950	59	8.5
west virginia	wyoming	lower campbell creek	3.4	33.2	61.6	5.2	0.7	14510	55	8.0

WEST VIRGINIA

state	county	bed	moistur	volmat	fixedc	ash	sulfur	btu	hydro	fatlo
west virginia	wyoming	bocahontas no 3	2.1	14.0	70.6	7.4	0.6	14570	0	8.0
west virginia	wyoming	beckley	5.0	19.8	68.7	12.5	1.0	13630	0	8.5
west virginia	wyoming	beckley	6.1	18.8	70.8	10.4	0.9	13950	0	8.0
west virginia	wyoming	lower campbell creek	2.3	32.7	62.7	4.6	0.7	14740	58	7.0
west virginia	wyoming	gilbert	2.3	27.2	59.6	14.2	1.3	13260	72	6.5
west virginia	wyoming	gilbert	2.1	27.7	57.1	15.2	1.3	13050	73	8.0
west virginia	wyoming	eagle	5.1	24.3	65.1	5.6	0.6	14600	0	8.0
west virginia	wyoming	eagle	2.2	30.6	66.0	5.4	0.6	14980	0	7.5
west virginia	wyoming	lower campbell creek	5.4	31.9	64.0	4.1	1.0	14930	0	9.0
west virginia	wyoming	lower campbell creek	4.9	30.7	63.2	6.1	0.6	14470	0	8.0
west virginia	wyoming	lower campbell creek	2.7	33.0	64.6	2.4	0.6	15080	0	8.5
west virginia	wyoming	sewell	6.8	22.7	72.5	4.8	0.4	14930	0	9.0
west virginia	wyoming	alma	3.2	32.6	61.9	5.5	0.8	14180	0	2.0
west virginia	wyoming	chilton	2.1	35.2	59.0	5.8	0.9	14430	0	7.5
west virginia	wyoming	lower campbell creek	3.7	31.9	64.7	5.4	0.6	14790	59	7.5
west virginia	wyoming	lower campbell creek	3.5	33.4	61.4	5.2	0.7	14520	0	6.5
west virginia	wyoming	lower campbell creek	3.1	33.7	64.0	2.3	0.6	15110	0	8.0
west virginia	wyoming	lower campbell creek	3.6	32.3	61.7	6.0	0.6	14340	0	7.0
west virginia	wyoming	lower campbell creek	4.2	32.4	61.6	6.0	0.6	14390	0	8.0
west virginia	wyoming	lower campbell creek	3.7	31.3	64.3	4.2	0.6	14610	60	7.5
west virginia	wyoming	sewell	7.6	21.5	72.5	6.0	1.0	14710	93	8.5
west virginia	wyoming	douglas	2.8	26.3	71.0	2.7	0.8	15300	0	9.0
west virginia	wyoming	beckley & sewell	4.3	18.2	75.6	6.2	0.9	14630	44	8.0
west virginia	wyoming	beckley	5.4	17.4	75.1	7.5	1.0	14400	0	9.0
west virginia	wyoming	sewell	3.6	22.1	73.0	4.9	0.6	14920	98	9.0
west virginia	wyoming	sewell	4.5	22.8	72.6	4.6	0.5	15050	0	8.0

National Coal Resources Data System

U.S. Geological Survey

Identified coal resources in Wyoming

(In millions of short tons)

=====													
rank	measured and indicated (inches)				inferred (inches)				total (inches)				
coal bed	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	
overburden	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	14 - 28	28 - 42	over 42	total	
=====													
	carbon				county								

bit													
uncorrelated													
0-1000	6.57	9.04	30.17	45.78	1.27	3.39	15.21	19.87	7.84	12.43	45.38	65.65	
1-2000	6.04	7.45	3.62	17.11	0.00	0.15	0.00	0.15	6.04	7.60	3.62	17.26	
2-3000	9.70	7.63	0.00	17.33	0.00	0.00	0.00	0.00	9.70	7.63	0.00	17.33	
county total =	22.31	24.12	33.79	80.22	1.27	3.54	15.21	20.02	23.58	27.66	49.00	100.24	

	crook				county								

bit													
uncorrelated													
0-1000	0.00	0.56	0.59	1.15	0.00	0.00	0.00	0.00	0.00	0.56	0.59	1.15	
county total =	0.00	0.56	0.59	1.15	0.00	0.00	0.00	0.00	0.00	0.56	0.59	1.15	

	lincoln				county								

bit													
uncorrelated													
0-1000	8.06	48.99	506.90	563.95	0.00	2.04	12.39	14.43	8.06	51.03	519.29	578.38	
1-2000	8.63	47.71	498.69	555.03	0.00	0.00	4.65	4.65	8.63	47.71	503.34	559.68	
2-3000	8.21	48.66	437.16	494.03	0.00	0.00	37.98	37.98	8.21	48.66	475.14	532.01	
county total =	24.90	145.36	1442.75	1613.01	0.00	2.04	55.02	57.06	24.90	147.40	1497.77	1670.07	

	park				county								

bit													
uncorrelated													
0-1000	4.27	7.20	1.06	12.53	0.00	0.00	0.00	0.00	4.27	7.20	1.06	12.53	
1-2000	2.20	2.81	0.00	5.01	0.00	0.00	0.00	0.00	2.20	2.81	0.00	5.01	
2-3000	0.30	0.06	0.00	0.36	0.00	0.00	0.00	0.00	0.30	0.06	0.00	0.36	
county total =	6.77	10.07	1.06	17.90	0.00	0.00	0.00	0.00	6.77	10.07	1.06	17.90	

	sublette				county								

bit													
uncorrelated													
0-1000	0.00	0.00	0.00	0.00	0.23	0.64	0.73	1.60	0.23	0.64	0.73	1.60	
county total =	0.00	0.00	0.00	0.00	0.23	0.64	0.73	1.60	0.23	0.64	0.73	1.60	

sweetwater county												
bit												
uncorrelated												
0-1000	433.80	738.49	2664.31	3836.60	43.98	73.51	565.13	682.62	477.78	812.00	3229.44	4519.22
1-2000	117.90	280.49	840.60	1238.99	276.06	425.62	962.95	1664.63	393.96	706.11	1803.55	2903.62
2-3000	26.74	27.10	160.70	214.54	294.48	448.41	1497.49	2240.38	321.22	475.51	1658.19	2454.92
county total =	578.44	1046.08	3665.61	5290.13	614.52	947.54	3025.57	4587.63	1192.96	1993.62	6691.18	9877.76
teton county												
bit												
uncorrelated												
0-1000	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.26	0.26	0.00	0.00	0.26
county total =	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.26	0.26	0.00	0.00	0.26
uinta county												
bit												
uncorrelated												
0-1000	14.48	15.95	478.75	509.18	0.00	0.00	0.00	0.00	14.48	15.95	478.75	509.18
1-2000	13.68	15.40	478.58	507.66	0.00	0.00	0.00	0.00	13.68	15.40	478.58	507.66
2-3000	13.75	14.91	480.25	508.91	0.00	0.00	0.00	0.00	13.75	14.91	480.25	508.91
county total =	41.91	46.26	1437.58	1525.75	0.00	0.00	0.00	0.00	41.91	46.26	1437.58	1525.75
weston county												
bit												
uncorrelated												
0-1000	3.29	10.14	11.88	25.31	11.31	3.32	0.00	14.63	14.60	13.46	11.88	39.94
county total =	3.29	10.14	11.88	25.31	11.31	3.32	0.00	14.63	14.60	13.46	11.88	39.94
=====												
overburden												
subtotal												
0-1000	470.47	830.37	3693.66	4994.50	57.03	82.90	593.46	733.41	527.52	913.27	4287.12	5727.91
1-2000	148.45	353.86	1821.49	2323.80	276.06	425.77	967.60	1669.43	424.51	779.63	2789.09	3993.23
2-3000	58.70	98.36	1078.11	1235.17	294.48	448.41	1535.47	2278.36	353.18	546.77	2613.58	3513.53
total =	677.62	1282.59	6593.26	8553.47	627.59	957.08	3096.53	4681.20	1305.21	2239.67	9689.79	13234.67
=====												
overburden												
total												
0-1000	470.47	830.37	3693.66	4994.50	57.03	82.90	593.46	733.41	527.52	913.27	4287.12	5727.91
1-2000	148.45	353.86	1821.49	2323.80	276.06	425.77	967.60	1669.43	424.51	779.63	2789.09	3993.23
2-3000	58.70	98.36	1078.11	1235.17	294.48	448.41	1535.47	2278.36	353.18	546.77	2613.58	3513.53
grand total =	677.62	1282.59	6593.26	8553.47	627.59	957.08	3096.53	4681.20	1305.21	2239.67	9689.79	13234.67
=====												

total tonnage of identified coal resources in wyoming

13234.67

resource figures taken from:

source	year	base year of resource
usgs circ 81	1950	original

average analyses of coal in wyoming

rank	proximate analysis (percent)					ultimate analysis (percent)					sulfur (percent)	btu	ash sof temp(f)	max. no. analyses averaged
	coal bed	moistur	vol mat	fixed c	ash	hydrogn	carbon	nitrogn	oxygen					
carbon county														
bit														
uncorrelated	7.1	45.3	44.3	10.4	0.0	0.0	0.0	0.0	0.7	12433	2270	6		
county average	7.1	45.3	44.3	10.4	0.0	0.0	0.0	0.0	0.7	12433	2270	6		
lincoln county														
bit														
kemmerer	5.4	42.7	49.8	7.5	5.2	74.9	1.2	11.3	0.9	13117	2200	68		
uncorrelated	6.1	40.1	51.6	8.3	5.1	74.8	1.4	10.7	0.6	13078	2326	21		
willow creek	3.8	38.9	53.6	7.6	5.1	77.9	1.4	9.5	1.0	13485	2332	28		
county average	5.2	41.3	51.0	7.7	5.2	75.5	1.3	10.8	0.8	13198	2258	117		
sweetwater county														
bit														
rock springs no 1	7.5	41.6	51.2	7.3	0.0	0.0	0.0	0.0	1.0	13156		3		
rock springs no 3	6.2	41.6	53.4	5.0	5.4	76.5	1.6	11.2	0.9	13446	2855	46		
rock springs no 7	6.5	41.9	54.7	3.4	5.4	76.6	1.8	11.8	0.9	13665	2560	7		
rock springs nos 183	7.5	41.1	53.3	5.6	5.4	77.6	1.7	11.4	1.0	13341	2793	13		
various	6.6	41.7	53.7	4.6	5.4	77.8	1.6	11.3	1.0	13470	2470	66		
county average	6.6	41.6	53.6	4.8	5.4	76.8	1.6	11.3	1.0	13453	2703	135		
teton county														
bit														
uncorrelated	7.5	44.5	47.9	7.6	5.7	77.3	1.8	11.8	0.5	13000	2372	4		
county average	7.5	44.5	47.9	7.6	5.7	77.3	1.8	11.8	0.5	13000	2372	4		
uinta county														
bit														
uncorrelated	5.7	38.1	46.3	15.6	4.8	68.0	1.3	10.8	0.8	11952	2587	5		
county average	5.7	38.1	46.3	15.6	4.8	68.0	1.3	10.8	0.8	11952	2587	5		

WYOMING
state

	county	hed	moisture	volatile	fixed	ash	sulfur	bru	agile	fat
wyoming	lincoln	uncorrelated	7.9	42.1	50.5	7.4	0.6	13180	55	1.0
wyoming	lincoln	uncorrelated	8.0	42.5	51.1	6.4	0.7	13260	0	1.5
wyoming	lincoln	kemper	7.1	44.4	49.3	6.3	0.7	13220	0	1.0
wyoming	lincoln	uncorrelated	5.3	40.3	53.2	6.5	0.7	13310	0	1.5
wyoming	uinta	uncorrelated	5.5	38.3	46.3	15.4	0.8	11920	50	1.5

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PREFACE

Appendix A is a catalog of the bituminous coal in 29 states of the contiguous United States which contain identified bituminous coal resources.

ALABAMA

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