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MASTER

STATE OF MAINE OFFICE OF ENERGY RESOURCES

WEEKLY PRICE MONITORING SYSTEM

END OF SURVEY REPORT

2ND ANNUAL REPORT TO REGION I DOE

Prepared for

Maine Office of Energy Resources

John Joseph, Director

By R. E. Dow

DISCLAIMER

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NOTE TO THE READER

This End of Survey Report is submitted as per the requirements of Agreement No. DE-FC01-79EI10157, Cooperative Agreement for Reimbursement By the Department of Energy to the State of Maine.

ABSTRACT

The OPEC oil embargo of 1973-1974 brought the nation to a realization of the importance and necessity for collection and analysis of energy data. The Maine Office of Energy Resources, (OER), has the responsibility to establish and implement energy policies in Maine. The Weekly Price Monitoring System, (PMS), has been developed and implemented to assist energy planners in Maine.

This survey is used to analyze home heating oil price trends and as a public relations tool in response to inquiries from citizens, other federal, state and local agencies and the Governor's Office.

This report will describe the PMS and results obtained from this system during the period starting December 12, 1978 and ending June 4, 1979, (26 weeks). Also the price of home heating oil on November 1, 1978 is given as required in agreement number DE-FC01-79EI10157 between the U. S. Department of Energy and the Maine Office of Energy Resources.

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INTRODUCTION

The State of Maine Office of Energy Resources, OER, planned, designed, and implemented the Price Monitoring System, PMS, in May and June 1977. OER staff tested PMS program results to insure reliability. In December of 1977 OER expressed its desire to participate in a pilot program for collecting home heating oil data designed to complement the Department of Energy's data gathering effort.

The current version of PMS is written in APL, resides on the New England Energy Management Information System, NEEMIS, and is used as an indicator of home heating oil fuel prices throughout the State.

Each week a sample of 32 dealers, selected from a total population of 475, is called to determine the current price of heating fuel. Sample point selection is based on population density with at least one selection made from each of 16 counties.

The following is an example of the report which is generated each week and sent to Regional DOE.

MONTHLY PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF JUNE 4, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	732	675	
ARDOSTOCK	739	699	
CUMBERLAND	716	661	
FRANKLIN	709	659	
HANCOCK	714	659	
KENNEBEC	699	659	
KNOX	709	669	
LINCOLN	712	662	
OXFORD	690	645	
PENOBSCOT	712	665	
PISCATAQUIS	705	655	
SAGadahoc	730	680	
SOMERSET	709	659	
WALDO	709	679	
WASHINGTON	714	669	
YORK	726	662	

STATE AVG.	717	667	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

TABULATION OF RESULTS

<u>Date</u>	<u>Price of Number Two Heating Oil (Cents)</u>	<u>Percent Change</u>	<u>High Price Reported (cents)</u>	<u>Low Price Reported (cents)</u>
11/1/78	52.9		54.9	50.7
12/12/78	53.6	1.3	55.9	50.7
12/18/78	54.1	.93	56.9	50.7
12/26/78	54.0	- .18	56.9	51.5
1/1/79	54.3	.55	56.9	51.6
1/8/79	54.4	.18	56.9	51.6
1/15/79	54.5	.18	56.9	51.6
1/22/79	54.9	.73	57.9	51.5
1/29/79	55.3	.73	57.9	51.9
2/5/79	55.6	.54	58.0	51.9
2/12/79	56.6	1.80	58.9	52.4
2/19/79	57.4	1.41	58.9	54.8
2/26/79	58.2	1.39	60.1	55.6
3/5/79	59.0	1.37	60.9	56.4
3/12/79	59.5	.85	61.9	56.4
3/19/79	60.3	1.34	61.9	57.9
3/26/79	60.4	.17	62.0	57.9
4/2/79	60.7	.50	65.0	58.4
4/9/79	61.3	.99	63.5	59.5
4/16/79	62.0	1.14	63.9	60.5

<u>Date</u>	<u>Price of Number Two Heating Oil (cents)</u>	<u>Percent Change</u>	<u>High Price Reported (cents)</u>	<u>Low Price Reported (cents)</u>
4/23/79	62.2	.32	64.0	60.5
4/30/79	63.3	1.77	64.9	60.5
5/7/79	63.5	.32	64.9	61.9
5/14/79	64.8	2.05	67.9	62.5
5/21/79	65.0	.31	67.9	62.5
5/28/79	66.7	2.61	69.9	63.0
6/4/79	66.7	0.0	69.9	63.0

GRAPH OF RESULTS

Price vs Time

Price in Cents

ABSCISSA = TIME STARTING FROM December 12, 1978
O = PRICE

Total Period Percent Change (Growth Rate) = 24.4%

RECOMMENDATIONS

1. This program should be continued. Data obtained from this survey is both necessary and useful to energy managers.
2. The program should start earlier in the heating season, (November 1), and end sooner (May 1). Data from November is more useful than data collected in the Spring.

CONCLUSION

The Price Monitoring System has been and will continue to be a useful component of the Maine OER's analytic capability. Energy planners as well as information services use this data frequently. The price of home heating oil is important in calculating paybacks for various conservation measures taken by homeowners. In light of the usefulness of this data we will continue this data collection and analysis effort.

PROGRAM COSTS

	<u>Costs</u>
1. <u>Salaries and Wages</u>	
a. Professional	\$2,200.00
b. clerical	800.00
Total Salary and Wages	<hr/> \$3,000.00
2. <u>Materials and Supplies</u>	650.00
3. <u>Telephone</u>	250.00
4. <u>Printing</u>	100.00
	<hr/>
Total	\$4,000.00

* Federal share 90% of State Total = \$3,600.00

APPENDIX A.

Reports Submitted to Region I DOE

During 1978/79 Heating Season

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF JUNE 4, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	732	675	
ARDOSTOOK	739	699	
CUMBERLAND	716	661	
FRANKLIN	709	659	
HANCOCK	714	659	
KENNEBEC	677	637	
KNOX	709	669	
LINCOLN	712	662	
OXFORD	690	645	
PENOBSCOT	712	665	
PISCATAQUIS	705	655	
SAGADAHOE	730	680	
SOMERSET	709	659	
WALDO	709	679	
WASHINGTON	714	669	
YORK	726	662	

STATE AVG.	717	667	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

| MAINE OFFICE OF ENERGY RESOURCES |
| MONTHLY PRICE MONITORING SURVEY |
| *****WEEK OF MAY 28, 1979***** |
| ***** |

	AVERAGE	AVERAGE
COUNTY	PRICE OF	PRICE OF
	KEROSENE	NUMBER 2

ANDROSCOGGIN	732	675
AROOSTOOK	739	699
FRANKLIN	709	659
HANCOCK	714	659
KENNEBEC	699	659
KNOX	709	669
LINCOLN	712	662
OXFORD	690	645
PENOBSCOT	712	665
PISCATAQUIS	705	655
SAGadahoc	730	680
SOMERSET	709	659
WALDO	709	679
WASHINGTON	714	669
YORK	726	662

| STATE AVG. | 717 | 667 |

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF MAY 21, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	700	545	
ARDOSTOOK	719	679	
CUMBERLAND	701	652	
FRANKLIN	687	640	
HANCOCK	714	659	
KENNEBEC	689	649	
KNOX	679	639	
LINCOLN	692	642	
OXFORD	690	645	
PENOBSCOT	702	655	
PISCATAQUIS	680	630	
SAGadahoc	690	640	
SOMERSET	688	644	
WALDO	689	659	
WASHINGTON	687	647	
YORK	687	637	

STATE AVG.	696	650	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF MAY 14, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	700	645	
ARDOSTOOK	719	679	
CUMBERLAND	691	649	
FRANKLIN	689	649	
HANCOCK	714	659	
KENNEBEC	689	649	
KNOX	679	639	
	672	642	
OXFORD	690	645	
PENOBSCOT	695	647	
PISCATAQUIS	680	630	
SAGadahoc	690	640	
SOMERSET	690	640	
WALDO	689	659	
WASHINGTON	672	632	
YORK	687	637	

STATE AVG.	693	648	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES		
MONTHLY PRICE MONITORING SURVEY		
*****WEEK OF MAY 7, 1979*****		

	AVERAGE	AVERAGE
COUNTY	PRICE OF	PRICE OF
	KEROSENE	NUMBER 2

ANDROSCOGGIN	693	638
AROOSTOOK	689	649
CUMBERLAND	684	636
FRANKLIN	679	639
HANCOCK	694	679
KENNEBEC	669	629
KNOX	679	639
LINCOLN	682	632
OXFORD	670	635
PENOBSCOT	685	637
PISCATAQUIS	680	630
SAGADAHOE	680	630
SOMERSET	674	630
WALDO	659	629
WASHINGTON	654	629
YORK	675	626

STATE AVG.	679	635

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

 | MAINE OFFICE OF ENERGY RESOURCES |
 | MONTHLY PRICE MONITORING SURVEY |
 | *****WEEK OF APRIL 30, 1979***** |
 | ***** |
 | | AVERAGE | AVERAGE |
 | COUNTY | PRICE OF | PRICE OF |
	KEROSENE	NUMBER 2

ANDROSCOGGIN	690		635	
AROOSTOOK	689		649	
CUMBERLAND	684		636	
FRANKLIN	679		639	
HANCOCK	694		639	
KENNEBEC	669		629	
KNOX	679		639	
LINCOLN	682		632	
OXFORD	670		635	
PENOBSCOT	685		637	
PISCATAQUIS	670		620	
SAGadahoc	680		630	
SOMERSET	674		630	
WALDO	659		629	
WASHINGTON	654		629	
YORK	670		621	

STATE AVG,	678		633	
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PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

| MAINE OFFICE OF ENERGY RESOURCES |
| MONTHLY PRICE MONITORING SURVEY |
| *****WEEK OF APRIL 23, 1979***** |
| ***** |
| | AVERAGE | AVERAGE |
| COUNTY | PRICE OF | PRICE OF |
	KEROSENE	NUMBER 2

ANDROSCOGGIN	690		635	
ARDOSTOCK	672		632	
CUMBERLAND	679		627	
FRANKLIN	689		639	
HANCOCK	664		619	
KENNEBEC	649		609	
LINCOLN	682		632	
OXFORD	652		607	
PENOBSCOT	669		622	
PISCATAQUIS	655		605	
SAGadahoc	680		630	
SOMERSET	665		621	
WALDO	639		609	
WASHINGTON	639		614	
YORK	670		621	

STATE AVG.	667	622

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

 | MAINE OFFICE OF ENERGY RESOURCES |
 | MONTHLY PRICE MONITORING SURVEY |
 | *****WEEK OF APRIL 16, 1979*****
 | *****
 | | AVERAGE | AVERAGE |
 | COUNTY | PRICE OF | PRICE OF |
	KEROSENE	NUMBER 2

ANDROSCOGGIN	690		635	
ARDOSTOCK	672		632	
CUMBERLAND	679		627	
FRANKLIN	638		597	
HANCOCK	664		619	
KENNEBEC	649		609	
LINCOLN	682		632	
OXFORD	652		607	
PENOBSCOT	669		622	
PISCATAQUIS	655		605	
SAGADAHOC	680		630	
SOMERSET	665		621	
WALDO	639		609	
WASHINGTON	639		614	
YORK	670		621	

STATE AVG.	664	620

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

 | MAINE OFFICE OF ENERGY RESOURCES |
 | MONTHLY PRICE MONITORING SURVEY |
 | *****WEEK OF APRIL 9, 1979***** |
 | ***** |

COUNTY	AVERAGE PRICE OF KEROSENE	AVERAGE PRICE OF NUMBER 2
--------	---------------------------------	---------------------------------

ANDROSCOGGIN	678	630
AROOSTOOK	662	625
CUMBERLAND	666	619
FRANKLIN	630	589
HANCOCK	654	614
KENNEBEC	639	604
KNOX	659	619
LINCOLN	672	622
OXFORD	648	603
PENOBSCOT	659	614
PISCATAQUIS	652	602
SAGADAHOC	670	620
SOMERSET	655	613
WALDO	629	604
WASHINGTON	634	612
YORK	659	608

STATE AVG.	655	613
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PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF APRIL 2, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	665	633	
ARDOOSTOOK	652	619	
CUMBERLAND	656	606	
FRANKLIN	620	579	
HANCOCK	654	609	
KNOX	659	619	
LINCOLN	662	612	
OXFORD	645	600	
PENOBSCOT	654	612	
PISCATAQUIS	650	599	
SAGadahoc	660	610	
SOMERSET	649	605	
WALDO	629	599	
WASHINGTON	634	609	
YORK	644	601	
STATE AVG.	648	607	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF MARCH 26, 1977*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	658	615	
AROCSTOCK	652	619	
CUMBERLAND	651	602	
FRANKLIN	616	577	
HANCOCK	654	609	
KENNEBEC	634	594	
LINCOLN	657	617	
OXFORD	640	600	
PENOBSCOT	654	612	
PISCATAQUIS	650	599	
SAGADAHOC	655	605	
SOMERSET	646	603	
WALDO	629	599	
WASHINGTON	629	607	
YORK	638	595	
STATE AVG.	645	604	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF MARCH 19, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	655	595	
ARDOSTOCK	652	617	
CUMBERLAND	649	599	
FRANKLIN	611	574	
HANCOCK	654	609	
KENNEBEC	629	589	
KNOX	649	609	
LINCOLN	652	602	
OXFORD	640	595	
PENOBSCOT	654	612	
PISCATAQUIS	650	640	
SAGadahoc	650	600	
SOMERSET	646	603	
WALDO	629	599	
WASHINGTON	624	604	
YORK	635	592	

STATE AVG.	643	603	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

****Revised Data for March 12, 1979****

A computer input error was discovered and corrected.

**MONTHLY
PRICE MONITORING SURVEY**

 | MAINE OFFICE OF ENERGY RESOURCES |
 | MONTHLY PRICE MONITORING SURVEY |
 | *****WEEK OF MARCH 12, 1979*****
 | *****
 |

COUNTY	AVERAGE PRICE OF KEROSENE	AVERAGE PRICE OF NUMBER 2
--------	---------------------------------	---------------------------------

ANDROSCOGGIN	653	595
ARROOSTOOK	649	612
CUMBERLAND	647	577
FRANKLIN	611	574
HANCOCK	649	599
KENNEBEC	619	579
KNOX	639	599
LINCOLN	652	620
OXFORD	640	595
PENOBSCOT	643	595
PISCATAQUIS	635	589
SAGADAHOE	650	600
SOMERSET	636	593
WALDO	614	589
WASHINGTON	617	597
YORK	627	588

STATE AVG.	637	595
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PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF MARCH 5, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	641	592	
ARDOSTOCK	647	599	
CUMBERLAND	642	592	

HANCOCK	644	599	
KENNEBEC	619	579	
KNOX	639	599	
LINCOLN	642	592	
OXFORD	635	590	
PENOBSCOT	643	585	
PISCATAQUIS	635	589	
SAGADAHOC	640	590	
SOMERSET	631	588	
WALDO	614	589	
WASHINGTON	615	595	
YORK	624	584	

STATE AVG.	633	590	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
****WEEK OF FEBRUARY 26, 1979****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	633	584	
ARDOSTOOK	639	591	
CUMBERLAND	634	584	
FRANKLIN	604	581	
HANCOCK	636	591	
KENNEBEC	611	571	
KNOX	631	591	
LINCOLN	634	584	
OXFORD	627	582	
PENOBSCOT	635	577	
PISCATAQUIS	627	581	
SAGADAHOE	632	582	
SOMERSET	623	580	
WALDO	606	581	
WASHINGTON	607	587	
YORK	616	576	

STATE AVG.	625	582	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF FEBRUARY 19, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	625	576	
AROSTOOK	631	583	
FRANKLIN	596	553	
HANCOCK	628	583	
KENNEBEC	603	563	
KNOX	623	583	
LINCOLN	626	576	
OXFORD	619	574	
PENOBSCOT	627	569	
PISCATAQUIS	619	573	
SAGADAHOE	624	574	
SOMERSET	615	572	
WALDO	598	573	
WASHINGTON	599	579	
YORK	608	568	
STATE AVG.	617	574	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF FEBRUARY 12, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	0	568	
AROOSTOOK	0	584	
CUMBERLAND	0	562	
FRANKLIN	0	552	
HANCOCK	0	574	

KNOX	0	565	
LINCOLN	0	560	
OXFORD	0	555	
PENOBSCOT	0	570	
PISCATAQUIS	0	562	
SAGadahoc	0	559	
SOMERSET	0	565	
WALDO	0	569	
WASHINGTON	0	579	
YORK	0	552	

STATE AVG.	0	566	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF FEBRUARY 5, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	0	556	
AROOSTOOK	0	574	
CUMBERLAND	0	552	
FRANKLIN	0	542	
KENNEBEC	0	559	
KNOX	0	555	
LINCOLN	0	549	
OXFORD	0	555	
PENOBSCOT	0	560	
PISCATAQUIS	0	552	
SAGADAHOE	0	548	
SOMERSET	0	555	
WALDO	0	559	
WASHINGTON	0	569	
YORK	0	541	

STATE AVG.	0	556	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF JANUARY 29, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	0	551	
AROSTOOK	0	573	
CUMBERLAND	0	549	
FRANKLIN	0	533	
HANCOCK	0	557	
KENNEBEC	0	559	
KNOX	0	555	
LINCOLN	0	549	
OXFORD	0	555	
PENOBSCOT	0	558	
PISCATAQUIS	0	547	
SAGadahoc	0	548	
SOMERSET	0	550	
WALDO	0	549	
WASHINGTON	0	569	
YORK	0	536	

STATE AVG.	0	553	

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY PRICE MONITORING SURVEY			
MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****WEEK OF JANUARY 22, 1979*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	0	547	
ARODSTOOK	0	571	
CUMBERLAND	0	546	
FRANKLIN	0	531	
HANCOCK	0	550	
KENNEBEC	0	555	
KNOX	0	545	
LINCOLN	0	545	
OXFORD	0	552	
PENOBSCOT	0	556	
PISCATAQUIS	0	545	
SAGADAHOC	0	545	
SOMERSET	0	545	
WALDO	0	545	
WASHINGTON	0	565	
YORK	0	533	
STATE AVG.	0	549	
PRICES ARE REPORTED IN THOUSANDTHS OF A DOLLAR			

MONTHLY PRICE MONITORING SURVEY				
MAINE OFFICE OF ENERGY RESOURCES				
MONTHLY PRICE MONITORING SURVEY				
PRICE OF NO 2 FOR WEEK 1/15/79				

	AVERAGE		AVERAGE	
COUNTY	PRICE OF		PRICE OF	
	KEROSENE		NUMBER 2	
ANDROSCOGGIN	0		542	
ARROOSTOOK	0		564	
CUMBERLAND	0		541	
FRANKLIN	0		526	
HANCOCK	0		549	
			547	
KNOX	0		545	
LINCOLN	0		540	
OXFORD	0		547	
PENOBSCOT	0		550	
PISCATAQUIS	0		542	
SAGadahoc	0		539	
SOMERSET	0		545	
WALDO	0		549	
WASHINGTON	0		559	
YORK	0		533	
STATE AVG.	0		545	
PRICES ARE REPORTED IN THOUSANDTHS OF A DOLLAR				

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES
MONTHLY PRICE MONITORING SURVEY
PRICE OF NO 2 FOR WEEK OF 1/8/79

COUNTY	AVERAGE PRICE OF KEROSENE	AVERAGE PRICE OF NUMBER 2
--------	---------------------------------	---------------------------------

AREOSTOOK	0	542
CUMBERLAND	0	537
FRANKLIN	0	526
HANCOCK	0	549
KENNEBEC	0	549
KNOX	0	545
LINCOLN	0	540
OXFORD	0	542
PENOBSCOT	0	550
PISCATAQUIS	0	542
SAGADAHOC	0	539
SOMERSET	0	545
WALDO	0	549
WASHINGTON	0	557
YORK	0	532

STATE AVG.	0	544
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PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

| MAINE OFFICE OF ENERGY RESOURCES |

| MONTHLY PRICE MONITORING SURVEY |

*****JANUARY 1, 1979*****

| | AVERAGE | AVERAGE |

| COUNTY | PRICE OF | PRICE OF |

| | KEROSENE | NUMBER 2 |

| ANDROSCOGGIN | 0 | 539 |

| ARDOSTOOK | 0 | 564 |

| CUMBERLAND | 0 | 537 |

| FRANKLIN | 0 | 523 |

| HANCOCK | 0 | 549 |

| KENNEBEC | 0 | 549 |

| KNOX | 0 | 545 |

| | 0 | 555 |

| OXFORD | 0 | 545 |

| PENOBSCOT | 0 | 548 |

| PISCATAQUIS | 0 | 537 |

| SAGADAHOE | 0 | 534 |

| SOMERSET | 0 | 542 |

| WALDO | 0 | 549 |

| WASHINGTON | 0 | 559 |

| YORK | 0 | 526 |

| STATE AVG. | 0 | 543 |

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****DECEMBER 26, 1978*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	

ANDROSCOGGIN	0	529	
ARDOSTOCK	0	559	
CUMBERLAND	0	537	
FRANKLIN	0	523	
HANCOCK	0	549	

KNOX	0	535	
LINCOLN	0	530	
OXFORD	0	543	
PENOBSCOT	0	545	
PISCATAQUIS	0	537	
SAGadahoc	0	529	
SOMERSET	0	537	
WALDO	0	549	
WASHINGTON	0	559	
YORK	0	526	

STATE AVG.	0	540	

PRICES ARE REPORTED IN THOUSANDTHS			
OF A DOLLAR			

MONTHLY
PRICE MONITORING SURVEY

MAINE OFFICE OF ENERGY RESOURCES
MONTHLY PRICE MONITORING SURVEY
****WEEK OF DECEMBER 18, 1978****

COUNTY	AVERAGE PRICE OF KEROSENE	AVERAGE PRICE OF NUMBER 2
ANDROSCOGGIN	0	526
AROSTOOK	0	559
CUMBERLAND	0	536
FRANKLIN	0	523
HANCOCK	0	549
KENNEBEC	0	549
KNOX		555
LINCOLN	0	590
OXFORD	0	541
PENOBSCOT	0	545
PISCATAQUIS	0	537
SAGadahoc	0	529
SOMERSET	0	535
WALDO	0	549
WASHINGTON	0	559
YORK	0	524
STATE AVG.	0	541

PRICES ARE REPORTED IN THOUSANDTHS
OF A DOLLAR

MONTHLY PRICE MONITORING SURVEY			
MAINE OFFICE OF ENERGY RESOURCES			
MONTHLY PRICE MONITORING SURVEY			
*****DECEMBER 12, 1978*****			

	AVERAGE	AVERAGE	
COUNTY	PRICE OF	PRICE OF	
	KEROSENE	NUMBER 2	
ANDROSCOGGIN	0	526	
ARDOOSTOOK	0	554	
CUMBERLAND	0	529	
FRANKLIN	0	516	
HANCOCK	0	542	
KENNEBEC	0	549	
KNOX	0	535	
LINCOLN	0	530	
OXFORD	0	536	
PENOBSCOT	0	540	
PISCATAQUIS	0	532	
SAGadahoc	0	529	
SOMERSET	0	535	
WALDO	0	549	
WASHINGTON	0	559	
YORK	0	520	

STATE AVG,	0	536	

PRICES ARE REPORTED IN THOUSANDTHS OF A DOLLAR			

*NOTE: Kerosene price monitoring has been discontinued since this value is
is a computable amount above the price of number 2.

APPENDIX B

Program Listing

✓ MONITOR1

```
[1] ' '
[2] ' '
[3] ' '
[4] '**** HOME ** HEAT ** PRICE ** MONITORING ** PROGRAM ****'
[5] ' '
[6] 'DO YOU NEED INSTRUCTIONS? (Y/N);' ASKID 'YESNO'
[7] →(YESNO='N')/HERE
[8] ' '
[9] 'WHEN ASKED FOR THE COUNTY VECTOR ENTER A LINE OF NUMBERS'
[10] 'GIVING THE COUNTY NUMBER (1-16) WHICH CORRESPONDS TO THE'
[11] 'COUNTY COLUMN ON THE SURVEY FORM'
[12] ' '
[13] ' '
[14] 'WHEN ASKED FOR NO. 1 AND NO. 2 PRICES, ENTER AS THOUSANDTHS'
[15] 'OF A DOLLAR IE, 0.59 DOLLARS = 590 '
[16] ' '
[17] 'ENTER A VALUE FOR EACH CORRESPONDING DEALER'
[18] HERE; ' '
[19] CNTIES←'ANDROSCOGGINAROSTOCK CUMBERLAND FRANKLIN HANCOCK KENNEBEC KNOX LINCOLN
OXFORD PENOBSCOT PISCATAQUIS SAGadahoc SOMERSET WALDO WASHINGTON YORK '
[20] COUNTIES← 16 12 PCNTIES
[21] 'ENTER THE DATE WHICH IS TO APPEAR ON THE REPORT; A MAXIMUM OF 34 CHARACTERS ARE ALLOWED'
[22] DATE←[]
[23] LN1←0
[24] FLAG←0
[25] 'IS THE DATA ALREADY ENTERED? (Y/N);' ASKID 'YESNO'
[26] →(YESNO='Y')/FLAGGER
[27] →NOFLAG
[28] FLAGGER;FLAG←1
[29] LN1←LN1+1
[30] NOFLAG;→(YESNO='Y')/CH1
[31] LP1;LN1←LN1+1
[32] RTR4; 'ENTER THE COUNTY VECTOR'
[33] RTR1;COUNTY←[]
[34] Q1; 'DO YOU HAVE MORE COUNTY DATA TO ENTER? (Y|N)'
[35] YESNO←[]
[36] →(YESNO='N')/CH1
[37] 'O.K. ENTER AWAY'
[38] COUNTY←COUNTY;[]
[39] →Q1
[40] CH1; 'DO YOU WANT TO CHANGE THE COUNTY VECTOR? (Y|N)'
[41] YESNO←[]
[42] →((YESNO='N')^(LN1=1))/PRICEONE
[43] →((YESNO='N')^(LN1>1))/CALC
[44] 'RE-ENTER THE COUNTY VECTOR'
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[46] PRICEONE;LN2+0
[47] LP2;LN2+LN2+1
[48] →(FLAG=1)/CH2
[49] 'ENTER THE PRICE OF NUMBER ONE VECTOR'
[50] RTN2;PRICE1+0
[51] Q2;'DO YOU HAVE MORE NUMBER ONE DATA TO ENTER? (Y|N)'
[52] YESNO+0
[53] →(YESNO='N')/CH2
[54] 'GO AHEAD'
[55] PRICE1+PRICE1,0
[56] →Q2
[57] CH2;'DO YOU WANT TO CHANGE THE NUMBER ONE VECTOR? (Y|N)'
[58] YESNO+0
[59] →((YESNO='N')^(LN2=1))/PRICETWO
[60] →((YESNO='N')^(LN2>1))/CALC
[61] 'RE-ENTER THE NUMBER ONE VECTOR'
[62] →RTN2
[63] PRICETWO;LN3+0
[64] LP3;LN3+LN3+1
[65] →(FLAG=1)/CH3
[66] 'ENTER THE PRICE OF NUMBER TWO VECTOR'
[67] RTN3;PRICE2+0
[68] Q3;'DO YOU HAVE MORE NUMBER TWO DATA TO ENTER? (Y|N)'
[69] YESNO+0
[70] →(YESNO='N')/CH3
[71] 'O.K. ENTER IT'
[72] PRICE2+PRICE2,0
[73] →Q3
[74] CH3;'DO YOU WANT TO CHANGE THE NUMBER TWO VECTOR? (Y|N)'
[75] YESNO+0
[76] →(YESNO='N')/CALC
[77] 'RE-ENTER THE NUMBER TWO VECTOR'
[78] →RTN3
[79] CALC;P1+(PPRICE1)
[80] P2+(PPRICE2)
[81] C1+(PCOUNTY)
[82] →((P1=P2)^(P1=C1))/OK
[83] 'CHECK YOUR DATA VECTOR LENGTHS ARE NOT EQUAL'
[84] 'THE COUNTY VECTOR CONTAINS',(2 0 FMI C1),' ELEMENTS'
[85] 'THE PRICE OF NUMBER ONE VECTOR CONTAINS',(2 0 FMI P1),' ELEMENTS'
[86] 'THE PRICE OF NUMBER TWO VECTOR CONTAINS',(2 0 FMI P2),' ELEMENTS'
[87] 2 1 P'
[88] 'DO YOU WANT TO CHANGE ANY OF THE DATA VECTORS? (Y|N)'
[89] 'IF YOUR ANSWER IS 'N' THE PROGRAM WILL TERMINATE AND YOU WILL HAVE TO RESTART'
[90] YESNO+0

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21]  →(YESNO='N')/0
22] CHOOSE1;'WHICH VECTOR WOULD YOU LIKE TO CHANGE? 1=COUNTRY, 2=PRICE OF NUMBER ONE, 3=PRICE OF NUMBER TWO
23]  CHNGE←[]
24]  →(CHNGE=1)/LF1
25]  →(CHNGE=2)/LF2
26]  →(CHNGE=3)/LF3
27] OK;'THE DATA HAS BEEN ACCEPTED; DO YOU WISH TO MAKE ANY CHANGES? (Y|N)'
28]  'IF YOUR ANSWER IS 'N' PROCESSING WILL CONTINUE AND THE REPORT WILL BE GENERATED.'
29]  YESNO←[]
100]  →(YESNO='Y')/CHOOSE1
101] ROW;ROWS←(PPRICE1)
102]  MATRIX1← 50 3 P0
103]  MATRIX1[;1]←COUNTRY,((50-(P COUNTRY))P0)
104]  MATRIX1[;2]←PRICE1,((50-(P PRICE1))P0)
105]  MATRIX1[;3]←PRICE2,((50-(P PRICE2))P0)
106]  'DO YOU WANT A COPY OF THE INPUT DATA? (Y|N)'
107]  YESNO←[]
108]  →(YESNO='N')/CALC2
109]  MATRIX1[;P2;]
110]  3 1 P'
111]  '
112]  '
113]  'ADVANCE PAPER TO TOP OF NEXT PAGE'
114]  YESNO←[]
115]  CALC2;LFT←P2
116]  MAT2← 17 3 P0
117]  LI←0
118]  LOOP1;→(LFT<LI+LI+1)/NXT1
119]  RI←MATRIX1[LI;1]
120]  MAT2[RI;1]←MAT2[RI;1]+MATRIX1[LI;2]
121]  MAT2[RI;2]←MAT2[RI;2]+MATRIX1[LI;3]
122]  MAT2[RI;3]←MAT2[RI;3]+1
123]  MAT2[17;1]←MAT2[17;1]+MATRIX1[LI;2]
124]  MAT2[17;2]←MAT2[17;2]+MATRIX1[LI;3]
125]  MAT2[17;3]←MAT2[17;3]+1
126]  →LOOP1
127]  NXT1;RI←0
128]  LOOP2;→(17<RI+RI+1)/NXT2
129]  MAT2[RI;1]←MAT2[RI;1]+MAT2[RI;3]
130]  MAT2[RI;2]←MAT2[RI;2]+MAT2[RI;3]
131]  →LOOP2
132]  NXT2;LI←0
133]  LOOP3;→(2<LI+LI+1)/NXT3
134]  RI←0
135]  LOOP4;→(17<RI+RI+1)/LOOP3

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```

[136] COMP1=MAT2[RI;LI]
[137] COMP2=COMP1-MAT2[RI;LI]
[138] =(COMP2>0.5)/LOW
[139] MAT2[RI;LI]=COMP1
[140] +LOOP4
[141] LOW;MAT2[RI;LI]=MAT2[RI;LI]
[142] +LOOP4
[143] NXT3;LI+0
[144] 5 1 F' '
[145] LN1=34F' '
[146] LN2= ' | AVERAGE | AVERAGE | '
[147] LN3= ' COUNTY | PRICE OF | PRICE OF | '
[148] LN4= ' | KEROSENE | NUMBER 2 | '
[149] (13F' '), 'MONTHLY'
[150] ' PRICE MONITORING SURVEY'
[151] LN1
[152] ' |MAINE OFFICE OF ENERGY RESOURCES| '
[153] ' |MONTHLY PRICE MONITORING SURVEY | '
[154] STARS1=((34-(FDATE))+2)
[155] STARS2=LSTARS1
[156] =(STARS1=STARS2)/EQUAL
[157] STARS3=STARS2+1
[158] (STARS2F'x'), DATE, (STARS3F'x')
[159] +ALLSTARS
[160] EQUAL;(STARS1F'x'), DATE, (STARS1F'x')
[161] ALLSTARS;34F'x'
[162] LN2
[163] LN3
[164] LN4
[165] LN1
[166] LODPS;=(16<(LI+LI+1))/END
[167] PRINT ' ', COUNTIES[LI;], ' ', (3 0 FMI MAT2[LI;1]), ' ', (3 0 FMI MAT2[LI;2]), ' '
[168] PRINT
[169] +LOOP5
[170] END;LN1
[171] LN1
[172] ' STATE AVG, ' ', (3 0 FMI MAT2[17;1]), ' ', (3 0 FMI MAT2[17;2]), ' '
[173] LN1
[174] ' '
[175] 'PRICES ARE REPORTED IN THOUSANDTHS'
[176] (11F' '), 'OF A DOLLAR'

```