MASTER

END OF SURVEY REPORT
PRICE, DELIVERIES AND STOCKS
OF
HEATING OIL
STATE OF OREGON
1979 - 1980

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ROCCO R. FALOTICO
SURVEY DIRECTOR
PORTLAND STATE UNIVERSITY
16 MAY 1980

FGOL-70ET10246

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END OF SURVEY REPORT

I. Methodology

The initial step taken was to arrange a meeting with the executive director of the Oil Heat Institute of Oregon (Mr. Len Gassner, 503-231-4850). This was done to obtain his cooperation, gain background information, secure a current list of dealers and ascertain total numbers, size and affiliations of likely respondents throughout the State of Oregon. A similar service effort was offered to the allocations officers of Idaho and Washington. For various reasons, they declined the offer. Letters sent to the executive directors of those State's oil heat institutes were never answered.

Step two was the design of forms for the respondents and the persons conducting the survey. Figure 1, Appendix A, is a copy of the transparency sent to each dealer. These forms were also used by other office personnel, in the absence of the survey conductor, to insure confidentiality of the respondent if the information was called in. Figure 2, Appendix A, shows the form used to concentrate weekly data. Figure 3, Appendix A, indicates the format used to report weekly data to Mr. George Sharp.

The selection of dealers to participate in the survey was accomplished as follows: 1.- The 270 dealers were divided into two groups. The Portland Metropolitan group (142) and those outside of that area (128); 2.- Further differentiation was made of those outside the Portland area by the various regions of the State; 3.- Percentages of dealers that were affiliated with major distributors and independents were calculated. A random choice corresponding to the appropriate percentage was then selected from those dealers; 4.- Additionally, there was an attempt to reach a balance of size or volume within the previous three criteria. These methods were used, rather than a pure random sample, to insure covering the entire State and the acquisition of a representative sample of the activity within the market for heating oils. For further details see pages 8 and 9, Appendix A.

Each selected dealer was contacted personally by the survey director. Questions were answered and cooperation secured. If possible, the person actually responsible for compiling the requested information was brought into the process at this point. This insured their willing assistance, since the owner/operator made it clear that this was a project that should be done well and cooperatively. A follow-up letter was sent

along with the transparency designed for their use. See page 5, Appendix A, for a sample.

Within one week a personal phone call was made to the contact person to arrange specific day and time schedules. The exception to this procedure occurred with those dealers affiliated with the Union Oil Company. With the exception of retail prices, all information must come from their corporate offices in Chicago.

This attention to detail and assurances of confidentiality resulted in minimum time spent on the phone, simplified paperwork, and reasonably accurate results. Time spent developing a rapport with each respondent resulted in the collection of maximum intelligence about the workings, status and attitude of those people involved in the oil heat industry.

II. Specific Affecting Factors

Weather - The 1979-1980 heating season was considered to be normal to mild with the exception of two unusually cold snaps, primarily confined to the Portland Metropolitan area. This can readily be seen from the charts in Appendix B.

Price Increases - Inflation and OPEC price rises accounted for the steady increase in prices throughout the heating season. For specific prices and relations of high, low and average prices see figures 19 and 20 in Appendix C.

Availability - Despite an early fear that shortages might develop during the heating season, all dealers reported increases in their storage stocks that were far in excess of the last several years. Those respondents reporting allocation quotas were never below 85% and were at 100% from February until the close of the survey.

III. Recommendations

Department of Energy/Energy Information Administration guidelines, standardized forms, type of information desired (selling price of 400 gallons plus, 200 gallons, or 100 gallons or less), and reporting formats should all be issued to each survey conductor WELL PRIOR to commencement of the yearly heating season. There is also a need to define precisely what product is meant by the terms #1 and #2 heating oil and kerosene. Even among dealers the definitions change radically. Perhaps a national conference, or regional meetings, could be held to train personnel and coordinate the surveys so as to

produce a quality product and give early indications of substantial changes or detect the nuances of subtle shifts within the industry.

It would help if those respondents that cooperate and take part in the survey could be excused from reporting similar data on other DOE/EIA forms. Experiences throughout this past survey indicate that identical information is required on at least three other DOE/EIA forms. This was cited by 75% of the dealers who declined as the reason they would not participate in the survey.

Times and dates for reporting should be set-up and maintained throughout the survey. Two week intervals do not provide accurate enough data to make effective trend analysis and tend to destroy the working relationship, interaction and free flow of information between the dealer and the survey conductor.

Many other uses and inferences may be made of the data collected. It has been so used in Idaho, Oregon and Washington by correlation with data collected by the Pacific Northwest Regional Commission's Energy Policy Workshop. Analysis of the data has been integrated into computer models and the state allocations officers have adjusted estimates of demand, etc., from this source. To be fully utilized the survey should be done for several years and possibly on a wider scale.

APPENDIX A

SAMPLE FORMS, LETTERS, AND REPORTS

- Page 5 - Figure 1 - PSU Survey Form (Transparency)
Figure 2 - Weekly Data Form (for conductor)
- Page 6 - Figure 3 - Format for reporting weekly results
- Page 7 - Letters to the executive directors of the Idaho
and Washington Oil Heat Institutes
- Page 8 - Division of Dealers by location and affiliation
- Page 9 - Letter to Indra Kundra/Carol Kindel
- Page 10- Letters to Dealers (Follow-up to phone contact)
- Pages 11, 12, 13, 14 and 15 - Figures 4a, 4b, 4c, 4d, 4e,
5a, 5b, 5c, 5d, and 5e - Weekly reports of 26 Novem-
ber 1979 and 3 December 1979

<u>DEALER'S</u> <u>CODE:</u> _____	<u>DISTILLATE FUEL OILS</u>		<u>KEROSENE</u>
	<u>NUMBER ONE</u>	<u>NUMBER TWO</u>	
<u>"GALLONS"</u> <u>PRESENTLY IN STOCK</u>			
<u>CURRENT</u> <u>"DELIVERED PRICE"</u> <u>PER GALLON</u> →			
<u>CURRENT</u> <u>"SHORT FALL"</u> <u>IN GALLONS</u> →			
<u>STOCK LEVELS</u> <u>"1 YEAR AGO"</u> <u>IN GALLONS</u> →			
<u>THIS WEEK'S</u> <u>"DELIVERIES"</u> <u>IN GALLONS</u> →			
<u>(IN GALLONS)</u> <u>CAPACITY</u> <u>STORAGE</u>			
<u>PER CENT</u> <u>(%) FILLED</u>			
<u>CHANGES AND</u> <u>COMMENTS ON</u> <u>COMPANY POLICIES</u>	_____ _____ _____		

PSU SURVEY

WEEK OF _____		# 1	# 2	KEROSENE	CODE #
FL	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				
	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				
	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				
	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				
	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				
	GAL				
	DP				
	SF				
	LYA				
	DEL				
	STOR				
	CON				

10% SAMPLE		18 FEBRUARY 1980		"OREGON"	
		HIGH	LOW	AVG	
DELIVERED PRICE	#1	105.9 →	98.9 →	99.8 /	.27
	#2	101.9 /	98.9 →	91.3 /	.37
RACK PRICE	#1	90.9 →	79.2 →	86.5 /	1.3
	#2	89.5 →	74.2 /	84.0 /	.9
NO OTHER DATA COLLECTED THIS WEEK					
<p>INCLUDED IN NEWSLETTER OF <u>Feb 22 or 25</u></p> <p>(NOTE FOR GEORGE: DEALERS HAVE RECEIVED INCREASES OF .02 TO .03 / GALLON BUT IN THE NON-METROPOLITAN AREAS THEY ARE NOT PASSING THEM ON AND END OF FEB. - THIS WILL HOLD UNLESS THEY GET ANOTHER PRICE Hike. - PRICE INCREASES ONLY FOR TEXACO, ARCO, SHELL AND SOME INDEPENDENTS. CHEVRON (SOMEWHERE)</p> <p>Reported to George <u>9:30am 2-26-80</u></p>					

Figure -3-

10% SAMPLE		25 FEBRUARY 1980		"OREGON"	
		HIGH	LOW	AVG	
DELIVERED PRICE	#1	105.9 →	95.4 /	100.1 /	.3
	#2	101.9 →	92.0 /	97.6 /	.3
RACK PRICE	#1	90.9 →	81.9 /	86.9 /	.4
	#2	82.5 →	77.9 /	85.1 /	1.1
PRESSURE, IN STOCK	#1	84,919 / 16.4%	45.0 % OF CAPACITY	13.8 %	
	#2	1,080,675 / 1.6%	55.9 % OF CAPACITY	2.3 %	
DELIVERIES	#1	66,469 / 24.8%	#2	2,812,557 / 9.4%	
	#1	(188,714) →	#2	(1,932,975) /	
1-YEAR DEL.	#1	106,273 / 13.1%	56.3 % OF CAPACITY	6.5 %	
	#2	408,123 /	21.1 % OF CAPACITY	5.8 %	
<p>NOTE: COMPARED WITH LAST REPORTED DATA (UP /), (DOWN /), (UNKNOWN -)</p> <p>* ESTIMATES ONLY /</p> <p>NO SHORTFALL!</p> <p>DELIVERY DATA IS FOR THE PERIOD 11 FEB 80 THROUGH 25 FEB 80</p> <p>Reported to George S. at <u>0911 4 MAR 80</u></p> <p>INCLUDED IN NEWSLETTER OF <u>29 FEB 80</u></p>					

Figure -3-

Mr. Ed Bishop, Executive Director
Oil Heat Institute of Washington
400 Dexter Ave. North
Seattle, Washington 98109

16 October 1979

Dear Mr. Bishop:

Commencing this week Portland State University is conducting a survey of the availability and price of heating oil and related data in the state of Oregon. Approximately 30 dealers throughout the state are participating, with the blessing of Len Cassner, Executive Director of the Oil Heat Institute of Oregon, which should produce a statistically reliable balance for the entire state.

Within a month the survey is to be expanded into the states of Washington and Idaho. To efficiently conduct the survey in Washington we need your support and expertise. Your support in asking the members of your organization to cooperate with us and your insightful expertise in helping us choose which dealers to contact in order to achieve a balanced and accurate picture of the heating oil situation in your state. If possible, would you please send us a list of your membership with comments as to who the main dealers are, their major oil company affiliations (if any), and the likelihood of their cooperation with the survey. Len Cassner did so for the Oregon dealers and would welcome your contacting him for verification (and story swapping). In addition, please be assured that NO release of individual data will be made nor will it be associated with a specific name. Only aggregate figures will be released. If they wish, copies of the survey reports can be forwarded to the participating individuals directly, or through your office.

A copy of the letter and attachment sent to each Oregon participant is enclosed. If you have any suggestions for improvement, please forward them. We want to be fair to the dealers and the public while simultaneously maintaining the integrity of Portland State University.

Thank you for your cooperation and please contact me if you have any questions or need further information about the survey.

Yours truly,

Rocco R. Falotico

Rocco R. Falotico, Survey Coordinator
Systems Science - PSU
P.O.Box 751
Portland, Oregon 97207

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-7-

Mr. Frank Sattler, Executive Director
Oil Heat Institute of Idaho
P.O. Box 172
Boise, Idaho 83701

16 October 1979

Dear Mr. Sattler:

Commencing this week Portland State University is conducting a survey of the availability and price of heating oil and related data in the state of Oregon. Approximately 30 dealers throughout the state are participating, with the blessing of Len Cassner, Executive Director of the Oil Heat Institute of Oregon, which should produce a statistically reliable balance for the entire state.

Within a month the survey is to be expanded into the states of Idaho and Washington. To adequately conduct the survey in Idaho and insure fairness to the members of your organization, we need your insight and support. Your insight in advising us as to which dealers to contact in order to achieve a balanced and accurate picture of the heating oil situation in your state. Your support in asking the members so chosen to give us their cooperation and assistance. If possible, would you please send us a list of your membership with comments as to who the main dealers are, their major oil company affiliations (if any), and the likelihood of their cooperation with the survey. Len Cassner did so for the Oregon dealers and would welcome your contacting him for verification (and tall tale swapping). In addition, please be assured that NO release of individual data will be made nor will it be associated with a specific name. Only aggregate figures will be released. If they wish, copies of the survey reports can be forwarded to the participating individuals directly, or through your office.

A copy of the letter and attachment sent to each Oregon participant is enclosed. If you have any suggestions for improvement, please forward them. We want to be fair to the dealers and the public while simultaneously maintaining the integrity of Portland State University.

Thank you for your cooperation and please contact me if you have any questions or need further information about the survey.

Yours truly,

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CITY REGION MAJOR AFFILIATION	PORTLAND	SALEM	EUGENE	ASTORIA	COOS BAY	MEDFORD	ASHLAND	KLAMATH FALLS	BEND	PENDELTON	TOTAL
	METRO AREA	W. VALLEY	W. VALLEY	N. COAST	S. COAST	S. CTR. OR.	S. OREGON	S. OREGON	E. CTR. OR.	E. OREGON	
ARCO ▽	4	2	0	0	0	0	0	0	0	0	6
CHEVRON	3	0	1	1	1	2	0	1	0	1	10
EXXON	1	0	1	0	0	0	0	0	0	0	2
INDEPENDENT*	0	0	0	0	0	1	1	0	0	1	3
MOBIL ▽	2	2	0	0	0	0	0	0	0	0	4
SHELL	1	0	0	0	0	0	0	0	1	0	2
TEXACO	1	1	0	0	0	0	0	0	0	0	2
UNION**	1	0	1	0	0	0	0	0	0	0	2
TOTALS	13	5	3	1	1	3	1	1	1	2	31

Total For State = 270 DEALERS $\times .10 = 27$
 METROPOLITAN PORTLAND = 142 (13)
 REMAINDER OF STATE = 128 (14)

DUE TO DEALER PERCENTAGES IT WAS DECIDED TO GO WITH 13 DEALERS IN THE METRO AREA.

*INDEPENDENTS INCLUDED CENEX / TIME / HUSKY / ARMO-ACME

**UNION OIL DEALERS WITHDREW EXCEPT FOR PRICE REPORTS DUE TO REQUIREMENT OF CORPORATE OFFICES FOR ALL DATA TO BE CLEARED THROUGH THE CHICAGO OFFICES. (INCLUDES ONTARIO)

▽ TWO DEALERS ARE INTERAFFILIATED BETWEEN ARCO AND MOBIL.

WITH REPLACEMENTS THE FINAL TOTAL = 27

DIVISION OF DEALERS BY LOCATION AND AFFILIATION — FIGURE 4

Mr. Indra Kundra/Ms. Carol Kindel
Fed.Bldg./ New Post Office Building
12th St. and Pennsylvania N.W. Room 4146
Washington, D.C. 20461

5 November 1979

1. Enclosed you will find the following - (A) PSU SURVEY FORM - This was sent, as a transparency to each participating dealer, as stated in the cover letter. (B) A copy of a sample letter that was sent to each participating dealer. (C) A copy of the form used by the Survey office to record dealer information. (D) A copy of the verbal report made to Mr. George Sharp on wednesday of each week.

2. Having NO examples or other criteria from D.O.E., the survey was initiated, using the criteria listed below, so as to begin producing results as soon as possible. (A) Contact was made with Mr. Len Gassner, the Executive Director of the Oil Heat Institute of Oregon, to obtain a list of the retail Oil Heat Dealers of the State. Use was made of his expertise and his position to achieve the voluntary cooperation of the chosen dealers. (B) The list was divided into two groups, I = Metropolitan i.e. the greater Portland area, (142), II = Non metropolitan (128). It was further divided by Major Oil Company affiliation (Percentages were then calculated) and a random ten percent sample was chosen. (C) A cross check was made to insure statewide participation, i.e. that all the category II dealers were not on the Coast, and that there was a divergence of size of dealer, i.e. those that delivered/stored 4,000 or less gallons per week up to those that were in the 250,000 plus bracket. (D) Where chosen dealers were unwilling to cooperate, an alternate was chosen by trying to match it to the one replaced. (E) Letters and transparencies were sent and the survey commenced.

3. Hopefully the above explanation and the enclosed items will answer your questions. If not, please feel free to contact us at any time. We are looking forward to an answer to this letter and the items you said would be forthcoming from your office at the earliest date.

Yours truly,

A handwritten signature in cursive script, reading 'Rocco R. Falotico', is written over the typed name.

Rocco R. Falotico, Survey Director
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503/229-4092

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Mrs. Louise Kane

PORTLAND
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UNIVERSITY
p.o. box 751
portland, oregon
97207
503/229-4961

Portland, Oregon 97219

19 October 1979

Dear Mrs. Kane:

systems science
ph.d. program

This is to confirm our conversation of the 16th of October 1979, concerning the survey being conducted by Portland State University for the Energy Information Administration (EIA) of the U. S. Department of Energy.

As agreed, I will contact you on Monday or Tuesday of each week for the information shown on the enclosed transparency, which is for your use and convenience. Note: If there is no change in any of the items from the previous week, please feel free to say so, it will save us both a lot of time.. If you have not been contacted by Tuesday, of each week, would you please call in the information to our office using your code number as the only identification. Your answers are only identified by that assigned code number which is known only to you and me, to insure their confidentiality, even within the survey staff. Your code number is

The information you give us will not be released except as included in the aggregate figures which are reported weekly to EIA.

Thank you for your cooperation and please contact me if you have any questions about the survey or if I can be of help to you in any way.

Yours truly,

Rocco R. Palotico, Survey Coordinator
Systems Science - PSU
P.O.Box 751
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503/229-4960

Mr. Ed Verdurmen

PORTLAND
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p.o. box 751
portland, oregon
97207
503/229-4961

Portland, OR 97219

19 October 1979

Dear Mr. Verdurmen:

systems science
ph.d. program

This is to confirm our conversation of the 16th of October 1979, concerning the survey being conducted by Portland State University for the Energy Information Administration (EIA) of the U.S. Department of Energy.

As agreed, I will contact you on Monday or Tuesday of each week for the information shown on the enclosed transparency, which is for your use and convenience. Note: If there is no change in any of the items from the previous week, please feel free to say so, it will save us both a lot of time.. If you have not been contacted by Tuesday, of each week, would you please call in the information to our office using your code number as the only identification. Your answers are only identified by that assigned code number which is known only to you and me, to insure their confidentiality, even within the survey staff. Your code number is

The information you give us will not be released except as included in the aggregate figures which are reported weekly to EIA.

Thank you for your cooperation and please contact me if you have any questions about the survey or if I can be of help to you in any way.

Yours truly,

Rocco R. Palotico, Survey Coordinator
Systems Science - PSU
P.O.Box 751
Portland, OR 97207
503/229-4960

WEEK OF 26 November 89

FUEL	#1	#2	KEROSENE	CODE
GAL	9,000	24,000	N/A	241
DP	86.9	82.0	↓	
SF	NONE	NONE		
STA	N/A	N/A		
DEL	800	27,000		
STOR	25,000 36%	50,000 48%	↓	1
COM				
GAL	N/A	19,153	N/A	732
DP		84.0	↓	
SF		NONE		
STA		28,432		
DEL		17,141		
STOR		38,000 50.4%	↓	2
COM				
GAL	N/A	20,000	N/A	638
DP		85.9	↓	
SF		NONE		
STA		N/A		
DEL		20,000		
STOR		140,000 50%	↓	1
COM				
GAL	N/A	9,269	N/A	741
DP		82.9	↓	
SF		NONE		
STA		17,294		
DEL		20,199		
STOR		16,000 57.9%	↓	1
COM				
GAL	N/A	2,480	N/A	730
DP		84.4	↓	
SF		NONE		
STA		42,600		
DEL		14,300		
STOR		60,000 12.5%	↓	0
COM				
GAL	N/A	7,241	N/A	857
DP		83.9	↓	
SF		NONE - ALLOCATION		
STA		4,300		
DEL		3,500		
STOR		20,000 36.2%	↓	
COM				

Figure -5a-

WEEK OF 26 November 99

FUEL	#1	#2	KEROSENE	CODE #
GAL	12,000	137,242	N/A	738
DP	86.0	84.0	↓	
SF	NONE	NONE		
STA	N/A	N/A		
DEL	500	73,242		
STOR	15,000 80%	180,000 76.2%	↓	
COM				
GAL	N/A		N/A	631
DP	↓	83.4 - 85.4 - 87.5	↓	
SF		NONE		
STA		N/A		
DEL		9,150		
STOR	↓		↓	
COM				
GAL	N/A	31,100	N/A	431
DP	↓	82.9	↓	
SF		NONE		
STA		N/A		
DEL		19,800		
STOR	↓	60,000 51.8%	↓	
COM				
GAL	N/A	49,500	N/A	634
DP	↓	84.9	↓	
SF		NONE		
STA		N/A		
DEL		42,642		
STOR	↓	50,000 99%	↓	
COM				
GAL	N/A	126,202	N/A	630
DP	↓	83.9	↓	
SF		NONE		
STA		N/A		
DEL		83,642		
STOR	↓	210,000 60.1%	↓	
COM				
GAL	632	81,309	2,642	740
DP	90.9	86.9	1.00	
SF	NONE	NONE	NONE	
STA	N/A	N/A	N/A	
DEL	1596	40,467	↑	
STOR	4,000 16%	106,000 77%	3,000 98%	0
COM				

Figure -5b-

WEEK OF 26 NOVEMBER 1979

I E A	#1		#2		KEROSENE	CODE #
	GAL	DP	GAL	DP		
W E E K O F 2 6 N O V E M B E R 1 9 7 9	10,644	89.9	27,533	86.9	N/A	4
	SF NONE		NONE			4
	STA 5,548		23,409			7
	DEL 1,822		13,557			
	STOR 16,000	66.5%	50,000	55%		
	COM					
	5,200	84.4	16,000	82.9	N/A	4
	SF NONE		NONE			5
	STA N/A		N/A			4
	DEL 1,250		25,000			
	STOR 15,000	34.6%	21,000	76%		
	COM					
	N/A		22,570	89.9	N/A	6
	SF		NONE			3
	STA		N/A			6
	DEL		22,502			
	STOR		120,000	69%		
	COM					
	N/A		82.6		N/A	5
	SF NONE		NONE			3
	STA N/A		N/A			4
	DEL 1,352		3,864			
	STOR					
	COM					
	4,000	86.8	56,000	83.8	N/A	6
	SF NONE		NONE			5
	STA 8,000		29,100			6
	DEL 2,800		11,200			
	STOR 20,000	20%	28,000	64%		
	COM					
	11,677	89.9	19,168	86.9	N/A	7
	SF NONE		NONE			5
	STA N/A		N/A			5
	DEL 2,912		5,348			
	STOR 12,500	93%	131,750	12.9%		5
	COM					

Figure -5c-

WEEK OF 26 NOVEMBER 79

I E A	#1		#2		KEROSENE	CODE #
	GAL	DP	GAL	DP		
W E E K O F 2 6 N O V E M B E R 7 9	N/A		43,102	87.9	N/A	6
	SF		NONE			3
	STA		N/A			3
	DEL		21,850			
	STOR		110,000	39%		
	COM					
	N/A		48,375	87.2	N/A	7
	SF		NONE			5
	STA		N/A			1
	DEL		26,450			
	STOR		90,000	53.8%		
	COM					
	2,390	87.5	28,475	83.4	N/A	9
	SF NONE		NONE			4
	STA N/A		N/A			1
	DEL 205		23,100			
	STOR 5,000		50,049	56.9%		
	COM					
	4,045	86.2	21,900	82.5	N/A	7
	SF NONE		NONE			3
	STA 5,279		9,665			5
	DEL 1,200		14,500			
	STOR 10,680		32,000	68.4%		
	COM					
	10,350	86.8	47,550	81.2	600	4
	SF NONE		NONE		NONE	2
	STA 11,000		29,020		N/A	1
	DEL 4,809		53,211			
	STOR 19,267		65,000	73%	682	
	COM				88%	
	9,200	92.7	14,300	91.4	N/A	7
	SF NONE		NONE			5
	STA 13,265		10,108			2
	DEL 3,630		6,366			
	STOR 19,267	47.5%	19,267	74.2%		
	COM					

Figure -5d-

WEEK OF 3 DECEMBER 1979

F _{EM}	#1	#2	KEROSENE	CODE #
GAL	3,400	21,000	N/A	241
DP	89.9	84.0		
SF	NONE	NONE		
STA	N/A	N/A		
DEL	350	24,400		
STOR	25,000	50,000	42%	732
COM				
GAL	N/A	35,378	N/A	
DP		84.0		
SF		NONE		
STA		13,606		
DEL		34,658		
STOR		38,000	98%	638
COM				
GAL	N/A	70,000	N/A	
DP		85.9		
SF		NONE		
STA		N/A		
DEL		70,000		
STOR		140,000		741
COM				
GAL	N/A	12,302	N/A	
DP		82.9		
SF		NONE		
STA		12,751		
DEL		23,970		
STOR		16,000	77%	730
COM				
GAL	N/A	7,480	N/A	
DP		84.4		
SF		NONE		
STA		42,600		
DEL		14,300		
STOR		60,000	12.5%	857
COM				
GAL	N/A	2,450	N/A	
DP		83.9		
SF		NONE - ALLOCATION		
STA		3,200		
DEL		14,886		
STOR		20,000	12%	
COM				

Figure -6a-

WEEK OF 3 DECEMBER 1979

F _{EM}	#1	#2	KEROSENE	CODE #
GAL	12,000	154,389	N/A	738
DP	86.0	84.9		
SF	NONE	NONE		
STA	N/A	N/A		
DEL	500	141,971		
STOR	15,000	180,000	86%	631
COM				
GAL	N/A		N/A	
DP		83.4 85.4 87.5		
SF		NONE		
STA		N/A		
DEL		19,072		
STOR				431
COM				
GAL	N/A	15,250	N/A	
DP		84.9		
SF		NONE		
STA		N/A		
DEL		31,100		
STOR		60,000	25.4%	634
COM				
GAL	N/A	23,390	N/A	
DP		84.9		
SF		NONE		
STA		N/A		
DEL		69,276		
STOR		50,000	47%	630
COM				
GAL	N/A	129,141	N/A	
DP		84.9		
SF		NONE		
STA		N/A		
DEL		103,124		
STOR		210,000	61.5%	740
COM				
GAL	632	81,309	2,642	
DP	90.9	86.9	1.00	
SF	NONE	NONE	NONE	
STA	N/A	N/A	N/A	
DEL	1,596	40,467	5	
STOR	4,000	106,000	77%	0
COM			3,000 88%	

Figure -6b-

WEEK OF 3 December 1977

	#1	#2	KEROSENE	CODE
GAL	8,651	34,776	N/A	
DP	89.9	86.9		4
SF	NONE	NONE		4
STA	8898	9,169		7
DEL	7,639	20,118		
STOR	16,000 54%	50,000 70%		
COM				
GAL	12,086	11,993	N/A	
DP	86.4	82.9		4
SF	NONE	NONE		5
STA	N/A	N/A		4
DEL	1,000	30,476		
STOR	15,000 80.6%	21,000 57.1%		
COM				
GAL	N/A	85,024	N/A	
DP		89.9		6
SF		NONE		3
STA		N/A		6
DEL		42,295		
STOR		120,000 71%		
COM				
GAL			N/A	
DP	86.2	82.6		5
SF	NONE	NONE		3
STA	N/A	N/A		4
DEL	1,652	6,276		
STOR				
COM				
GAL	2,200	23,300	N/A	
DP	86.8	83.8		6
SF	NONE	NONE		5
STA	10,000	23,800		
DEL	7,000	23,800		
STOR	20,000 11%	88,000 26.5%		6
COM				
GAL	11,800	14,760	N/A	
DP	89.9	86.9		7
SF	NONE	NONE		5
STA	N/A	N/A		
DEL	800	6,149		5
STOR	12,500 94%	137,750 11%		
COM				

Figure -6c-

WEEK OF 3 December 1979

	#1	#2	KEROSENE	CODE
GAL	N/A	49,410	N/A	
DP		87.9		6
SF		NONE		3
STA		N/A		3
DEL		47,816		
STOR		110,000 44.9%		
COM				
GAL	N/A	43,351	N/A	
DP		89.5		7
SF		NONE		5
STA		N/A		1
DEL		27,460		
STOR		90,000 48.2%		
COM				
GAL	2,548	23,850	N/A	
DP	87.5	83.4		9
SF	NONE	NONE		4
STA		N/A		1
DEL	610	38,000		
STOR	5,000 51%	50,049 47.7%		
COM				
GAL	2,750	13,427	N/A	
DP	87.5	82.5		7
SF	NONE	NONE		3
STA	6,062	8,120		
DEL	1,300	21,450		
STOR	10,680 35%	32,000 42%		5
COM				
GAL	9,450	42,767	600	
DP	86.8	81.2	1.00	4
SF	NONE	NONE	NONE	2
STA	12,693	11,000	N/A	
DEL	8,033	52,780		
STOR	19,267 49%	65,000 65.8%	682 88%	1
COM				
GAL	11,000	14,400	N/A	
DP	92.7	91.4		7
SF	NONE	NONE		5
STA	9,896	11,982		
DEL	16,369	12,000		
STOR	19,267 67%	19,267 75%		2
COM				

Figure -6d-

APPENDIX B

CHARTS OF TEN

REPRESENTATIVE RESPONDENTS

Page 17 - Figure -7-Respondent #241-Portland-Chevron
 Figure -8-Respondent #447-W.Valley-Mobil/Arco
Page 18 - Figure -9-Respondent #630-Portland-Arco/Mobil
 Figure-10-Respondent #637-E.Oregon-Shell
Page 19 - Figure-11-Respondent #656-S.Oregon-Chevron
 Figure-12-Respondent #730-Portland-Texaco
Page 20 - Figure-13-Respondent #732-Portland-Arco
 Figure-14-Respondent #738-Portland-Chevron
Page 21 - Figure-15-Respondent #752-S.Oregon-Independent
 Figure-16-Respondent #839-OR.Coast-Chevron

LEGEND: — - — Gallons Delivered 79/80
 - - - - - Gallons in Stock 79/80
 — — — — — Storage Capacity 79/80
 Gallons in Stock 78/79

Figure -7-

Figure -8-

Figure -9-

Figure -10-

Figure -11-

Figure -12-

Figure -13-

Figure -14-

Figure -15-

Figure -16-

APPENDIX C

STATE TOTAL CHARTS

COSTS TRACK CHARTS

Page 23 - Figure 17 - State Totals for #1 Heating Oil
Figure 18 - State Totals for #2 Heating Oil

LEGEND: ——— - ——— Gallons Delivered 79/80
 - - - - - Gallons in Stock 79/80
 ————— Storage Capacity 79/80
 Gallons in Stock 78/79

Page 24 - Figure 19 - Actual Reported Costs for Products

LEGEND: ▲————▲ Highest Delivered Price #1 Heating Oil
 ▲—— - ———▲ Average Delivered Price #1 Heating Oil
 ▲ - - - - -▲ Lowest Delivered Price #1 Heating Oil
 ⊖————⊖ Highest Delivered Price #2 Heating Oil
 ⊖—— - ———⊖ Average Delivered Price #2 Heating Oil
 ⊖ - - - - -⊖ Lowest Delivered Price #2 Heating Oil

 ————— Highest Rack Price #1 Heating Oil
 ——— - ——— Average Rack Price #1 Heating Oil
 - - - - - Lowest Rack Price #1 Heating Oil
 ⊠————⊠ Highest Rack Price #2 Heating Oil
 ⊠—— - ———⊠ Average Rack Price #2 Heating Oil
 ⊠ - - - - -⊠ Lowest Rack Price #2 Heating Oil

Figure 20 - Difference Between High and Low Prices
Charged for Products

LEGEND: ——— - ——— Delivered Price Difference
 - - - - - Rack Price Difference

Figure -17-

Figure -18-

Figure -19-

Figure -20-