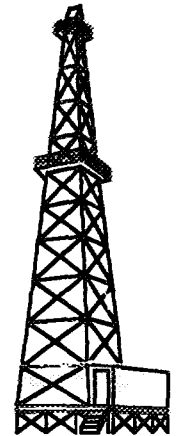
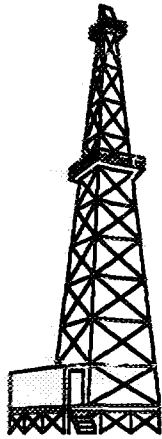




THE ENERGY OF OUR RESOURCES

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CRUDE OIL PRICING REPORT

December 1992

Issue 89

General Information

This report is prepared by the Canadian Oil Markets and Emergency Planning Division (COMEP), Energy, Mines and Resources Canada. It provides a reference for domestic and imported crude oil prices in Canadian markets and illustrates the competitive position of Canadian crude in the U.S. market.

The information in this report is in part based on the Crude Oil Pricing Survey (COPS), conducted by COMEP, of Canadian refiners' domestic crude oil purchases, refinery receipts, imports and data from trade publications as well as industry pricing bulletins. All prices quoted in this report are in Canadian dollars (per m³ at 15°C or per barrel at 60°F), unless otherwise specified.

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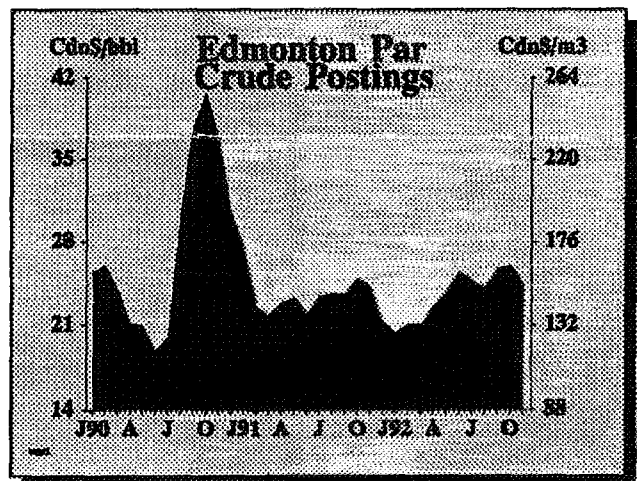
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SECTION 1 Canadian Crude Oil Postings

The average price for November of Edmonton Par crude (40°API, 0.5% sulphur), as posted by four refiners, was \$24.46/bbl (\$153.95/m³).

Par crude prices, as posted by the Canadian refiners, are illustrated on the graph below.



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**SECTION 2
Domestic vs Foreign Crude Oil Prices**

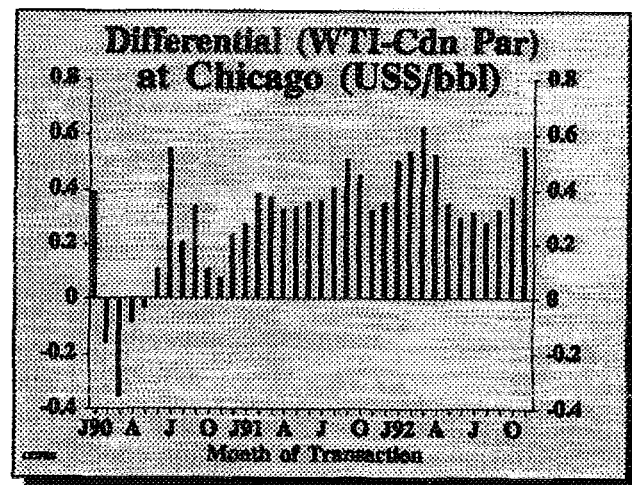
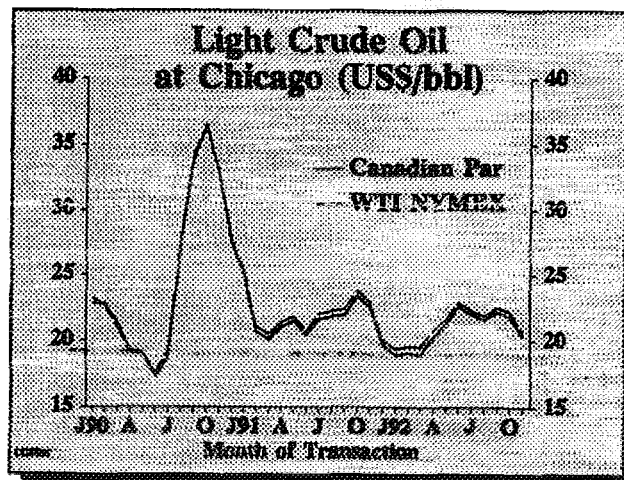
The following table represents monthly average crude oil prices calculated at the point of sale. Deliveries to the LOOP were assumed to have been made with VLCCs. For deliveries to Portland, a 90,000 dwt vessel for Brent and an LR1 for Maya were used. Ocean freight costs were derived using spot tanker rates for the month of October. The average exchange rate for the month was used.

November 1992
(Cdn\$/bbl)

<u>Light Crude</u>		<u>Heavy Crude</u>	
Canadian Par (40°API, 0.5%S)		Alberta Heavy (25.2°API, 2.10%S)	
Edmonton	\$24.46	Hardisty	\$17.54
Montreal	\$26.04	Montreal	\$19.17
Chicago	\$25.83	Chicago	\$18.97
WTI NYMEX (40°API, 0.4%S)		Maya (est) (22.5°API, 2.8%S)	
Cushing	\$25.78	Mexico	\$18.27
	(US\$20.36)		(US\$14.41)
Chicago	\$26.54		
Brent (37.4°API, 0.4%S)		Portland	
North Sea	\$24.37	Portland	\$19.15
	(US\$19.22)	Montreal	\$19.92
Portland	\$25.29	LOOP	\$18.71
Montreal	\$26.06	St.James	\$19.23
LOOP	\$25.28	Chicago	\$19.86
St.James	\$25.83		
Chicago	\$26.47		

Light Crude Oil Prices at Chicago

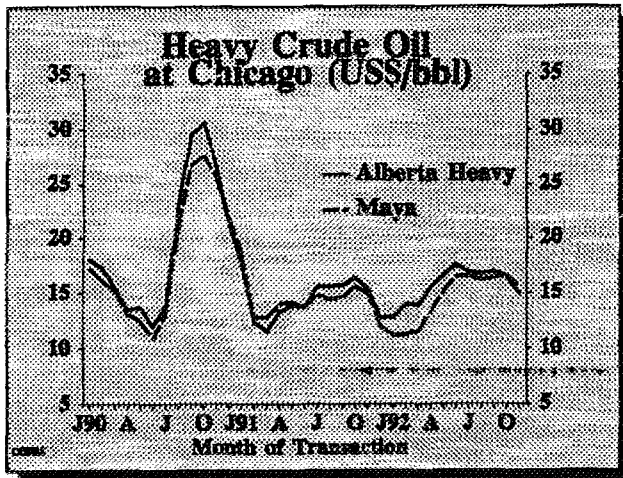
The following graphs compare the prices of domestic light crude oil to foreign crude oil prices in Chicago. All prices are presented on a monthly average calendar basis. Table 1, in Section 4 of the report, provides the data used in the preparation of the graphs.



The price differential between Canadian Par and WTI NYMEX in November is estimated at \$US0.57/bbl (\$US3.59/m³), compared to an average of \$US0.36/bbl (\$US2.29/m³) over the last six months.

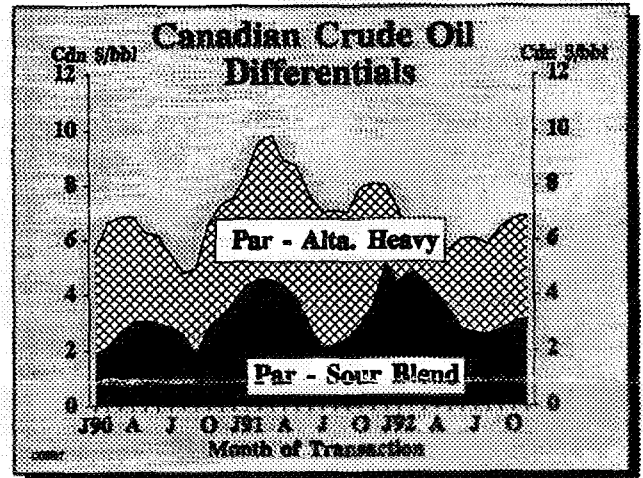
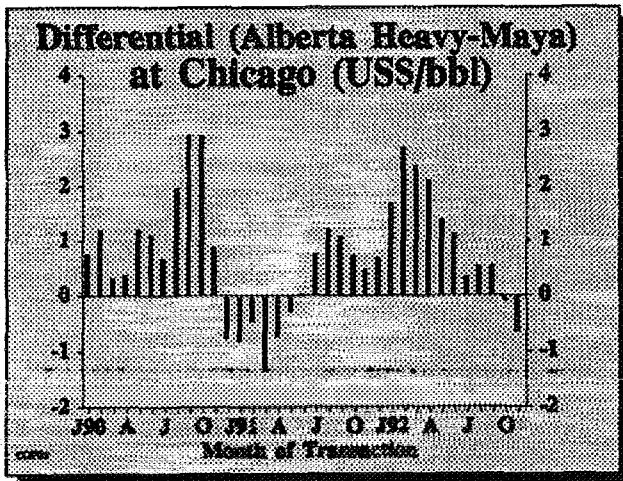
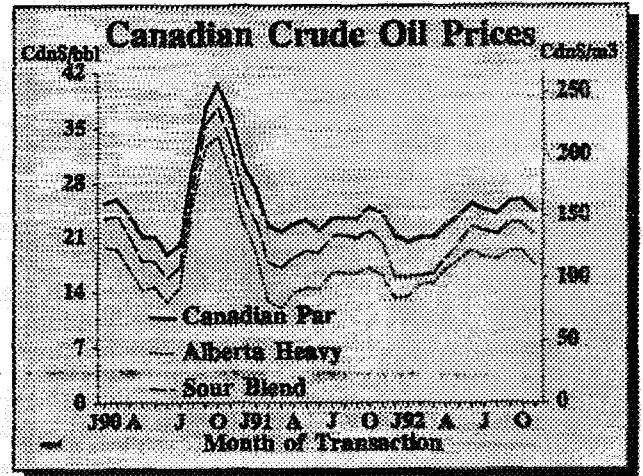
Heavy Crude Oil Prices at Chicago

The following graphs compare the prices of domestic heavy crude oil to foreign crude oil prices in Chicago. All prices are presented on a monthly average posted price basis. Table 1, in Section 4 of the report, provides the data used in the preparation of the graphs.



Domestic Differentials

Domestic light, mixed sour and heavy crude oil are presented on a monthly average posted price basis. Light sweet and sour crude oils are priced at Edmonton and heavy at Hardisty. Sour and heavy price differentials are calculated in relation to the price of Par.



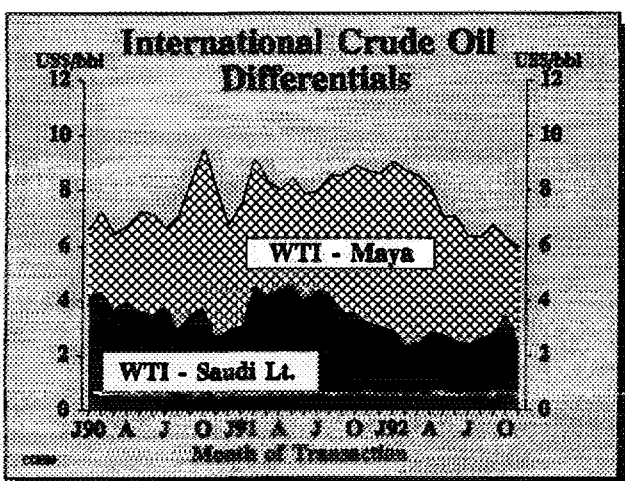
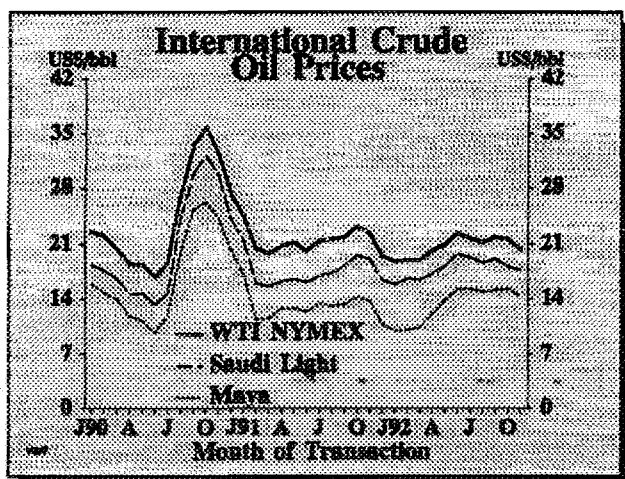
The price differential between Alberta Heavy and Maya in November is estimated at \$US0.64/bbl (\$US4.03/m³) in favor of Maya, compared to an average \$US0.31/bbl (US\$1.95/m³) in favor of Alberta Heavy, over the last six months.

The light sour crude differential (Par - Sour Blend) is estimated to be \$3.16/bbl (\$19.89/m³) for the month of November, a decrease of \$0.64/bbl (\$4.03/m³) over the same month a year earlier.

The heavy crude differential (Par - Alberta Heavy) is estimated to be \$6.92/bbl (\$43.54/m³) for the month of November, a decrease of \$1.16/bbl (\$7.30/m³) over the same month a year earlier.

Foreign Differentials

Foreign crude oil prices are presented as calendar month averages, at source. That is, WTI NYMEX at Cushing and Saudi Light and Maya on an FOB basis. Sour and heavy price differentials are calculated in relation to WTI NYMEX. As such, these differentials illustrate trends rather than absolute values.



The sour crude differential (WTI NYMEX - Saudi Light) is estimated to be US\$2.58/bbl (US\$16.23/m³) for the month of November, a decrease of US\$0.65/bbl (US\$4.09/m³) over the same month a year earlier.

The heavy crude differential (WTI NYMEX - Maya) is estimated to be US\$5.95/bbl (US\$37.44/m³) for the month of November, a decrease of US\$2.73/bbl (US\$17.18/m³) over the same month a year earlier.

SECTION 3 Crude Oil Pricing Survey Data

The average price for all crude and equivalent, purchased in Alberta, for use in Canada by domestic refiners, during the month of October, at the main trunk line inlets (Edmonton or Hardisty), was as follows:

October	°API	% Sul	\$/bbl	\$/m ³
Condensate	59.1	0.18	25.39	159.76
Synthetic	32.7	0.25	25.22	158.71
Light	38.2	0.53	24.79	156.02
Heavy	23.4	2.70	19.32	121.58
Average	35.1	0.77	24.11	151.70

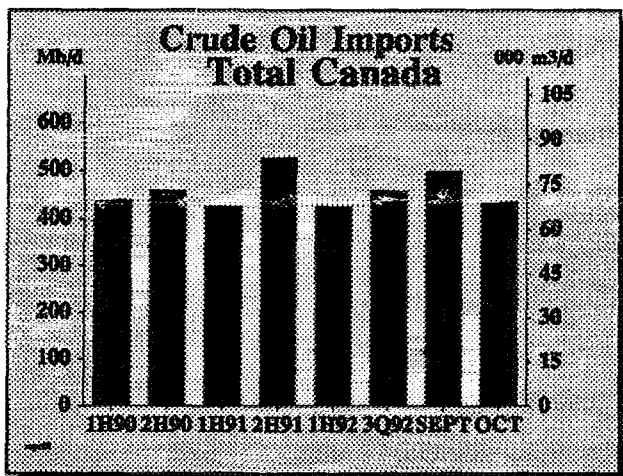
Regional Refinery Acquisition Costs

Regional receipts and refinery acquisition costs of crude oil in Canada for the month of October, as reported by respondents of the Oil Pricing Survey, are summarized below. This table should be used for pricing purposes only; for volumetric information, refer to Table 7 in section 4.

	Vol(Mb/d)	°API/%SUL	\$/bbl	\$/m ³
Domestic				
B.C.	139.1	36.0/0.61	25.45	160.13
Prairies	355.4	33.0/0.84	24.31	152.97
Ontario	384.0	37.3/0.69	25.47	160.28
Total Domestic	878.5	35.4/0.74	24.99	157.28
Foreign				
Quebec	260.3	33.0/1.15		
Maritimes	192.5	34.9/0.69		
Total Foreign	452.8	33.8/0.95	25.67	161.52
Total Canada	1331.3	34.9/0.79	25.22	158.73

Crude Oil Imports

Crude imports, reported by Canadian refiners, were 436.9 Mb/d (69,430 m³/d) in October. These volumes exclude crude oil received under processing arrangements, and not intended for domestic consumption. For statistics on total Canadian crude oil imports and breakdown by source, refer to Table 5. The following graph depicts only those volumes reported in the Survey.



The information contained in this report is believed to be accurate and reliable. However, because of the possibility of human or mechanical error, we do not guarantee the accuracy, adequacy or completeness of the information and are not responsible for the consequences of its use.

SECTION 4
Other Reference Material

Table 1: Monthly Averages

	Prices at Source				
	CDN Par Edm.	Brent FOB	Saudi Lt FOB	WTI Cushing	Maya FOB
	Cdn\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl
June	25.44	21.19	19.79	22.36	15.28
July	24.63	20.23	19.29	21.74	15.37
Aug.	24.09	19.79	18.63	21.29	14.94
Sept.	25.72	20.21	19.10	21.92	15.15
Oct.	25.95	20.34	18.15	21.71	15.38
Nov.	24.46	19.22	17.78	20.36	14.41

	Prices at Chicago					
	CDN Par	WTI	Diff.	*Alta.Hvy	Maya	Diff.
	Cdn\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl
June	22.66	22.96	-0.30	17.65	16.51	1.14
July	22.02	22.34	-0.32	16.97	16.62	0.35
Aug.	21.60	21.88	-0.28	16.74	16.19	0.55
Sept.	22.18	22.51	-0.33	16.95	16.40	0.55
Oct.	21.92	22.30	-0.38	16.55	16.64	-0.09
Nov.	20.39	20.96	-0.57	14.97	15.61	-0.64

	Other Prices			
	Brent Mont.	Maya Mont.	Sour Blend Edm.	*Alta.Hvy Hard.
	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/bbl
June	26.95	19.81	22.61	19.41
July	25.75	19.89	21.97	18.55
Aug.	25.18	19.35	21.48	18.23
Sept.	26.32	20.10	22.92	19.25
Oct.	27.04	20.78	22.89	19.19
Nov.	26.11	19.92	21.30	17.54

Table 2: Conversion factors

The following conversion factors have been used in preparing the Crude Oil Pricing Report:

At the same temperature:

1 barrel = 0.1589873 m³

1 barrel = 42 US gallons

1 barrel = 34.9722 imperial gallons

From 60°F to 15°C:

1 barrel @ 60°F equals

0.15891 m³ @ 15°C for crude ≥ 30°API

0.1589237 m³ @ 15°C for crude < 30°API

* All Canadian heavy crude prices have been revised.

Table 3: U.S. Import duties

The following import duties have been added to the price of Canadian crude oil imported into the United States.

	(\$US/bbl)	
	Light Crude	Heavy Crude
Customs User Fee (0.068% of crude value)	0.0141(e)	0.0113(e)
Import Duty	0.0210	0.0105
Superfund & Spill Fund	0.1470	0.1470
Total	0.1821	0.1688

Table 4: Exchange Rates

December	1.1457	June	1.1959
January 1992	1.1565	July	1.1917
February	1.1825	August	1.1909
March	1.1926	September	1.2223
April	1.1875	October	1.2450
May	1.1990	November	1.2680

Table 5: Canadian Crude Oil Imports

The following Canadian crude oil imports include crude oil received under processing arrangements. Note that this table is subject to revision. All volumes are in 1000 m³/d.

	October		January to October	
	1991	1992	1991	1992
Africa	10.6	11.4	9.4	6.3
Venezuela	9.5	2.5	6.6	5.4
Iran	4.4	0.0	0.8	2.0
Saudi Arabia	17.1	0.0	11.1	9.6
Other Mid-East	0.0	3.2	1.0	1.1
Mexico	0.8	2.7	1.2	3.8
North Sea	56.8	51.5	53.8	52.4
U.S.A.	0.1	2.8	0.3	0.6
Other	3.3	5.5	5.9	5.2
Total	102.6	79.6	90.1	86.4

Table 6: Available supply of Western Canadian crude oil and equivalent.

Table 7: Domestic crude oil disposition.

Table 8: Pipeline cost reference grids.

AVAILABLE SUPPLY AND DISPOSITION OF CANADIAN CRUDE OIL AND EQUIVALENT

(000 m3/d)

12/10/1992

SUPPLY	Table 6						DISPOSITION	Table 7					
	October		% Change	January to October		% Change		October		% Change	January to October		% Change
	1991	1992	1991/92	1991	1992	1991/92		1991	1992	1991/92	1991	1992	1991/92
PRODUCTION							Light/Medium & Equiv.						
-----							-----						
Light & Equivalent							Supply						
-----							Production	173.6	176.7	1.8	176.4	181.6	2.9
Alberta	108.7	109.0	0.3	111.3	111.6	0.3	Newgrade	3.0	3.0	0.0	1.8	2.2	22.2
British-Columbia	5.7	5.5	-3.5	5.5	5.5	0.0	Draw/(build)	12.9	0.0	-100.0	8.5	9.7	14.1
Saskatchewan	11.3	11.0	-2.7	11.0	11.3	2.7	-----	-----	-----	-----	-----	-----	-----
Manitoba	1.9	1.9	0.0	1.9	1.8	-5.3	Net supply	189.5	179.7	-5.2	186.7	193.4	3.6
Ontario	0.6	0.6	0.0	0.6	0.6	0.0	Demand						
Other	5.3	8.7	64.2	5.2	6.9	32.7	Atlantic	0.0	2.5	N/A	0.0	0.3	N/A
-----	-----	-----	-----	-----	-----	-----	Quebec	0.0	0.0	N/A	3.2	0.4	-87.5
Sub-total	133.5	136.7	2.4	135.5	137.7	1.6	Ontario	63.8	61.2	-4.1	57.9	57.4	-0.9
Synthetic							Prairies	47.6	45.9	-3.6	46.3	43.7	-5.6
Suncor	8.5	9.7	14.1	9.6	8.9	-7.3	British-Columbia	19.8	21.4	8.1	18.4	20.9	13.6
Syncrude	24.0	22.2	-7.5	25.0	26.5	6.0	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	Domestic demand	131.2	131.0	-0.2	125.8	122.6	-2.5
Sub-total	32.5	31.9	-1.8	34.6	35.5	2.6	Exports Derived	58.3	48.7*	-16.5	60.9	70.8*	16.3
Pentane Plus (excl. dil.)	7.6	8.1	6.6	6.3	8.4	33.3	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	Total demand	189.5	179.7	-5.2	186.7	193.4	3.6
Total Light (excl. dil.)	173.6	176.7	1.8	176.4	181.6	2.9	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	Heavy Crude Oil (Blended)						
Heavy Crude Oil							-----	-----	-----	-----	-----	-----	-----
-----							Supply						
Alberta							Production	82.7	94.7	14.5	84.3	90.5	7.4
Conventional	30.4	34.0	11.8	29.9	33.0	10.4	Recycled	0.8	1.8	125.0	1.1	1.7	54.5
Bitumen	17.1	22.0	28.7	20.1	20.4	1.5	Draw/(build)	-10.4	0.0	-100.0	-5.3	-8.9	67.9
Diluent (excl. recy.)	8.8	10.2	15.9	9.3	9.4	1.1	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	Net supply	73.1	96.5	32.0	80.2	83.2	3.7
Sub-total	56.3	66.2	17.6	59.4	62.8	5.7	Demand						
Saskatchewan							Atlantic	0.0	0.0	N/A	0.0	0.0	N/A
Crude	23.3	25.0	7.3	21.9	24.2	10.5	Quebec	0.0	0.0	N/A	0.0	0.0	N/A
Diluent	3.1	3.5	12.9	3.0	3.4	13.3	Ontario	8.7	5.8	-33.3	10.3	9.7	-5.8
-----	-----	-----	-----	-----	-----	-----	Prairies	11.3	11.2	-0.9	10.2	11.4	11.8
Sub-total	26.4	28.5	8.0	25.0	27.7	10.8	British-Columbia	0.7	1.1	57.1	0.6	0.7	16.7
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total heavy (blended)	82.7	94.7	14.5	84.3	90.5	7.4	Domestic demand	20.7	18.1	-12.6	21.0	21.8	3.8
Total production	256.3	271.4	5.9	260.8	272.0	4.3	Exports Derived	52.4	78.4*	49.6	59.2	61.4*	3.7
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Shut-In							Total demand	73.1	96.5	32.0	80.2	83.2	3.7
Light	6.3	0.0		4.0	0.0		-----	-----	-----	-----	-----	-----	-----
Heavy	0.0	0.0		0.0	0.5								
-----	-----	-----	-----	-----	-----	-----							
Total	6.3	0.0		4.0	0.5								
-----	-----	-----	-----	-----	-----	-----							
PRODUCTIVE CAPACITY	262.6	271.4		264.8	272.5								

N/A --> Not Applicable.

TABLE 8
PIPELINE REFERENCE GRID
(CDN \$/bbl @ 60°F)

November 1992

December 1992 (est.)

Light Crudes (>30°API)

Light Crudes (>30°API)

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.10							
Kerrobert	0.17	0.10						
Regina	0.31	0.24	0.18					
Boundary	0.47	0.41	0.35	0.23	0.14			
Sarnia	1.32	1.25	1.19	1.07	0.98			
Oakville	1.40	1.34	1.28	1.16	1.07	0.15		
Nanticoke	1.41	1.35	1.29	1.16	1.07	0.15		
Montreal	1.63	1.57	1.50	1.38	1.29	0.37	0.77	
Vancouver	1.41							
Billings(2)	1.60							
Twin Cities	1.12	1.06	1.00	0.87	0.78			1.18
Chicago	1.17	1.11	1.05	0.93	0.84			0.64

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.10							
Kerrobert	0.17	0.10						
Regina	0.31	0.24	0.18					
Boundary	0.47	0.41	0.35	0.23	0.14			
Sarnia	1.32	1.26	1.19	1.07	0.98			
Oakville	1.40	1.34	1.28	1.16	1.07	0.15		
Nanticoke	1.41	1.35	1.29	1.16	1.08	0.15		
Montreal	1.63	1.57	1.50	1.38	1.29	0.37	0.78	
Vancouver	1.41							
Billings(2)	1.60							
Twin Cities	1.12	1.06	1.00	0.87	0.78			1.18
Chicago	1.18	1.11	1.05	0.93	0.84			0.65

Medium Crudes (25-30°API)

Medium Crudes (25-30°API)

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.11							
Kerrobert	0.18	0.11						
Regina	0.33	0.26	0.20					
Boundary	0.51	0.45	0.38	0.25	0.15			
Sarnia	1.42	1.35	1.28	1.15	1.05			
Oakville	1.51	1.44	1.38	1.24	1.15	0.16		
Nanticoke	1.52	1.45	1.38	1.25	1.15	0.17		
Montreal	1.75	1.68	1.62	1.48	1.39	0.40	0.77	
Vancouver	1.41							
Billings(2)	1.60							
Twin Cities	1.17	1.10	1.03	0.90	0.80			1.18
Chicago	1.26	1.20	1.13	1.00	0.90			0.64

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.11							
Kerrobert	0.18	0.11						
Regina	0.33	0.26	0.20					
Boundary	0.51	0.45	0.38	0.25	0.15			
Sarnia	1.42	1.35	1.28	1.15	1.05			
Oakville	1.51	1.44	1.38	1.24	1.15	0.16		
Nanticoke	1.52	1.45	1.39	1.25	1.16	0.17		
Montreal	1.75	1.68	1.62	1.48	1.39	0.40	0.78	
Vancouver	1.41							
Billings(2)	1.60							
Twin Cities	1.17	1.10	1.03	0.90	0.80			1.18
Chicago	1.26	1.20	1.13	1.00	0.90			0.65

Heavy Crudes (<25°API)

Heavy Crudes (<25°API)

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.12							
Kerrobert	0.20	0.13						
Regina	0.37	0.29	0.22					
Boundary	0.57	0.50	0.42	0.27	0.17			
Sarnia	1.57	1.49	1.42	1.27	1.16			
Oakville	1.67	1.59	1.52	1.37	1.27	0.17		
Nanticoke	1.68	1.60	1.53	1.38	1.28	0.18		
Montreal	1.93	1.86	1.78	1.63	1.53	0.44	0.77	
Vancouver	1.69							
Billings(2)	1.60							
Twin Cities	1.24	1.17	1.09	0.95	0.84			1.18
Chicago	1.39	1.32	1.24	1.10	0.99			0.64

to \ from	Edm.	Hard.	Kerro	Regina	Cromer	Sarnia	Portl.	St.James
Hardisty	0.12							
Kerrobert	0.20	0.13						
Regina	0.37	0.29	0.22					
Boundary	0.57	0.50	0.42	0.27	0.17			
Sarnia	1.57	1.49	1.42	1.27	1.16			
Oakville	1.67	1.60	1.52	1.37	1.27	0.17		
Nanticoke	1.68	1.61	1.53	1.38	1.28	0.18		
Montreal	1.93	1.86	1.78	1.64	1.53	0.44	0.78	
Vancouver	1.69							
Billings(2)	1.60							
Twin Cities	1.24	1.17	1.09	0.95	0.84			1.18
Chicago	1.39	1.32	1.25	1.10	0.99			0.65

(1) Exchange rate: November - 1.2680, December - 1.2700(e)

(2) Injection point - Sundre

(3) Rates include loss factors and terminalling fees

(4) Interprovincial Pipe Line tariffs were revised effective September 1, 1992.

COMPEM EMR