

LOUISIANA CRUDE OIL REFINERY SURVEY REPORT

Fourth Edition

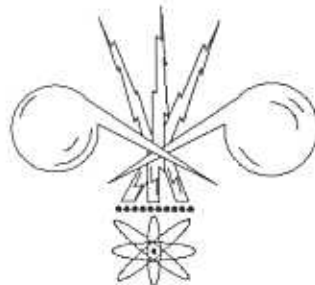
December 1992 Survey

By

Alan A. Troy, P.E.
Senior Energy Engineer

Technology Assessment Division

T. Michael French, P.E.
Director



LOUISIANA DEPARTMENT OF NATURAL RESOURCES

John F. Ales
Secretary of Natural Resources

Baton Rouge
March 17, 1993

This public document was published at a total cost of \$174.65. 175 copies of this public document were published in this first printing at a total cost of \$174.65. The total cost of all printings of this document, including reprints, is \$174.65. This document was published by the Department of Natural Resources, P.O. Box 94396, Baton Rouge, LA 70804-9396, to promulgate the State Energy Conservation Plan developed under authority of P.L. 94-163. This material was printed in accordance with the standards for printing by State agencies established pursuant to R.S. 43:31.

TABLE OF CONTENTS

	<u>PAGE</u>
FOREWORD	1
DISCUSSION	3
LOCATION MAP OF LOUISIANA REFINERIES	5
REFINERY OPERATING RATES (%)	
Line graph of Louisiana and All U.S. Refineries 1989-1992	6
LOUISIANA OPERATING REFINERIES	
Mailing Addresses and Contacts	7
Physical Location Descriptions	8
Crude Capacity and Product Slate	9
LOUISIANA NON-OPERATING REFINERIES	
Mailing Addresses and Contacts	10
Physical Location, Last Known Capacity, Last Operated, Previous Name(s), and Present Status	11
U.S. DEPARTMENT OF ENERGY CAPACITY OF OPERABLE LOUISIANA REFINERIES AS OF JANUARY 1, 1992	12

FOREWORD

Since 1989 the Technology Assessment Division of the Louisiana Department of Natural Resources has conducted a telephone survey of Louisiana crude oil refineries. The last survey was taken in February 1992. The results of the survey are compiled into a technical report focusing on developments that have occurred since the previous survey. These include an overview of the general direction of the industry and updated information on the current status of refinery ownership, mailing addresses, operating status and key personnel. Statistical data relating to operating capacities, utilization rates, and product slate is also presented. The last report was published in May of 1992.

The information contained in the annual Technology Assessment Division report is designed to complement the information presented in the refinery section of the Department of Energy/Energy Information Administration (DOE/EIA) Petroleum Supply Annual published in late May or early June of each year. The telephone survey is normally conducted in July and the report published in October so it is countercyclical to the DOE/EIA report.

The report just completed is off-schedule in that the survey was taken in December 1992 instead of July 1992. The next scheduled survey will be in July 1993 and the report published the following October.

The Department of Natural Resources uses the information in the report to enhance the economic development efforts of the State by developing information on State and Federal energy policies that affect the oil and gas production and refining industries located in the State, helping refined petroleum product buyers locate sources of supply, assisting new industries desiring to site facilities near refineries, and providing information to parties evaluating refineries for possible purchase.

THIS PAGE LEFT INTENTIONALLY BLANK

DISCUSSION

Environmental and safety over-regulation, low profit margins, and an uncertain tax structure were the main concerns voiced by survey respondents. Most projects relating to the 1992 and 1993 deadlines mandated by the 1990 Clean Air Act Amendments (CAA) are complete, or nearly so. The few new projects planned are also related to environmental compliance. Total Louisiana refinery operating capacity and product mix remain virtually unchanged. Operating rates have improved slightly. A small lube oil refinery plans to increase capacity this year, but no other expansions were disclosed.

Three owners of non-operating refineries disclosed their intentions to reopen this year. Another could reopen pending the satisfactory conclusion of purchase negotiations now in the final stage. Several investors are looking for small, closed refineries to purchase.

The total operating capacity of Louisiana refineries in December was 2,320,640 barrels per calendar day (bcd) as compared to 2,314,000 bcd reported in February 1992. Operating rates improved 1.1%. Since September of 1989, when our first survey was conducted, the operating rate of all Louisiana refineries combined has been slightly higher than U.S. refineries as a whole except for 1992 (See graph on page 6). The lower rate in 1992 might have been at least partially due to disruptions caused by Hurricane Andrew.

Capital outlays are being targeted to efficiency and environmental projects, not expansions. Increased automobile fuel efficiency and the decline of the airline industry has reduced the demand for the main products of refineries. There is also a trend toward natural gas as the "environmentally correct" fuel. These factors suggest that additional capacity will not be needed in the near term. New State and national energy taxes now under consideration could further reduce demand by making gasoline considerably more expensive.

Calumet Lubricants Co., L.P., a 6000 bcd lube oil refinery in Princeton, was the only refinery planning to expand this year. They plan to increase to 7000 bcd by the end of the year. A previous expansion in 1991 increased capacity from 4200 bcd to 6000 bcd.

Most respondents felt making a profit in the refining business was becoming increasingly difficult. They cited the sheer volume of new regulations as a major component in the cost of doing business without providing any return. A typical comment was that environmental regulations were important, but without profits there will be no industry to regulate.

Four closed refineries have been removed from the list of non-operating refineries in the last survey report. A field trip verified that they no longer existed or had been converted to another use. They are as follows:

1. Evangeline Refining Co., Crowley.
2. Ida Gasoline Co., Inc., Belcher.
3. Laidlaw Environmental Services (Recovery), Inc., Crowley.
4. Shepherd Oil Co., Jennings.

The three closed refineries with intentions to reopen this year are the 300,000 bcd TransAmerican refinery at Norco, the 10,000 bcd refinery of Britt Processing & Refining Co. at Egan, and the 10,000 bcd refinery of Sabine Gas Operators at Stonewall. Sabine is also in the final stages of purchasing the 14,800 bcd CAS refinery

near Jennings and intends to reopen it within sixty days after purchase. The owners of the TransAmerican and Britt refineries indicated that outside financing would probably be necessary to reopen but were optimistic they could get it. It should be noted that in the past the owners of several closed refineries have declared their intention to reopen without actually doing so.

TransAmerican is presently working on a 13,000 bcd MTBE unit to go on-line by the end of 1992. An additional 10,000 bcd MTBE capacity is planned for 1994. Assuming financing is obtained, the crude refinery will start up when a coker unit is finished. The initial operating capacity of the refinery will be about 200,000 bcd running heavy crude through an existing 200,000 bcd vacuum unit. This refinery has not operated since 1982.

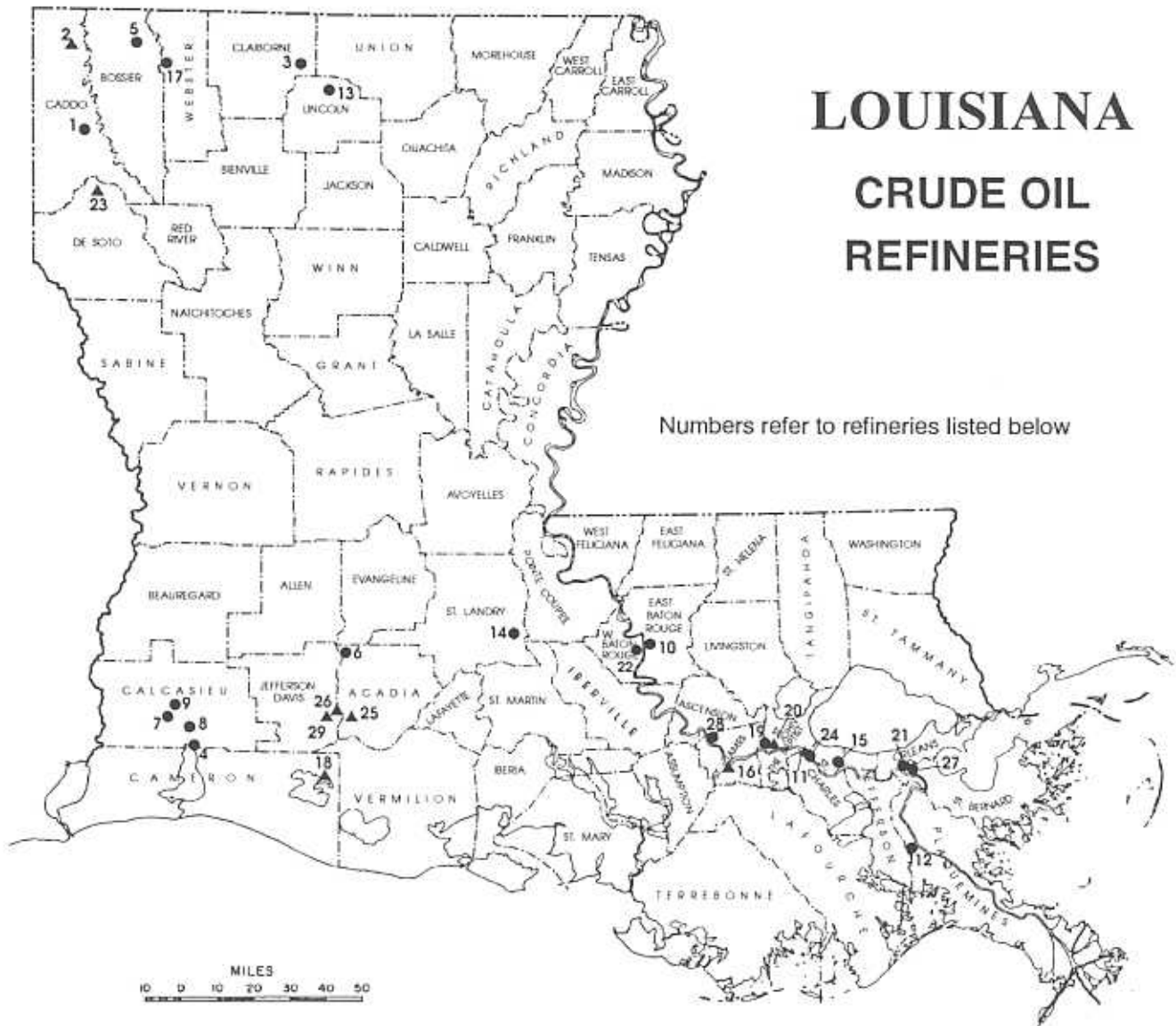
There are at least two prospects to purchase the 20,000 bcd Texas NAPCO refinery at St. James. The location on the Mississippi River near Texaco and Shell and its proximity to a pipeline right-of-way and terminal makes the site attractive to investors.

The next CAA deadline is October 1, 1993. By then the sulfur content of diesel fuel cannot exceed 0.05% by weight. This requirement applies to all diesel fuel sold in the U.S. Seventeen of Louisiana's twenty refineries produce diesel fuel, but not all of them intend to meet this requirement by installing process equipment to remove the sulfur. Some will use only low sulfur Louisiana "sweet" crude, which they say is already low enough in sulfur content. The opposing view is that even Louisiana crude is not low enough in sulfur content to meet the requirement.

In conclusion, the overall operating statistics reported were about the same as the February 1992 survey. Many respondents feel the economic health of the refining industry is threatened by an overbearing government and low, or non-existent, profitability. However, the industry is sending conflicting signals on the state of its economic health. On the one hand, there is much despair over depressed profits and onerous regulatory costs. On the other hand, several closed refineries are scheduled to reopen, and there is considerable interest by investors in purchasing other closed refineries in the 10,000-25,000 bcd capacity range. Undaunted by the many financial analysts who say this size refinery cannot be operated profitably, the attitude among these investors is quite upbeat. It could be said that this is what the free market system is all about. One person views the glass as half empty and another sees it as half full.

LOUISIANA CRUDE OIL REFINERIES

Numbers refer to refineries listed below



Technology Assessment Division

OPERATING REFINERIES ●

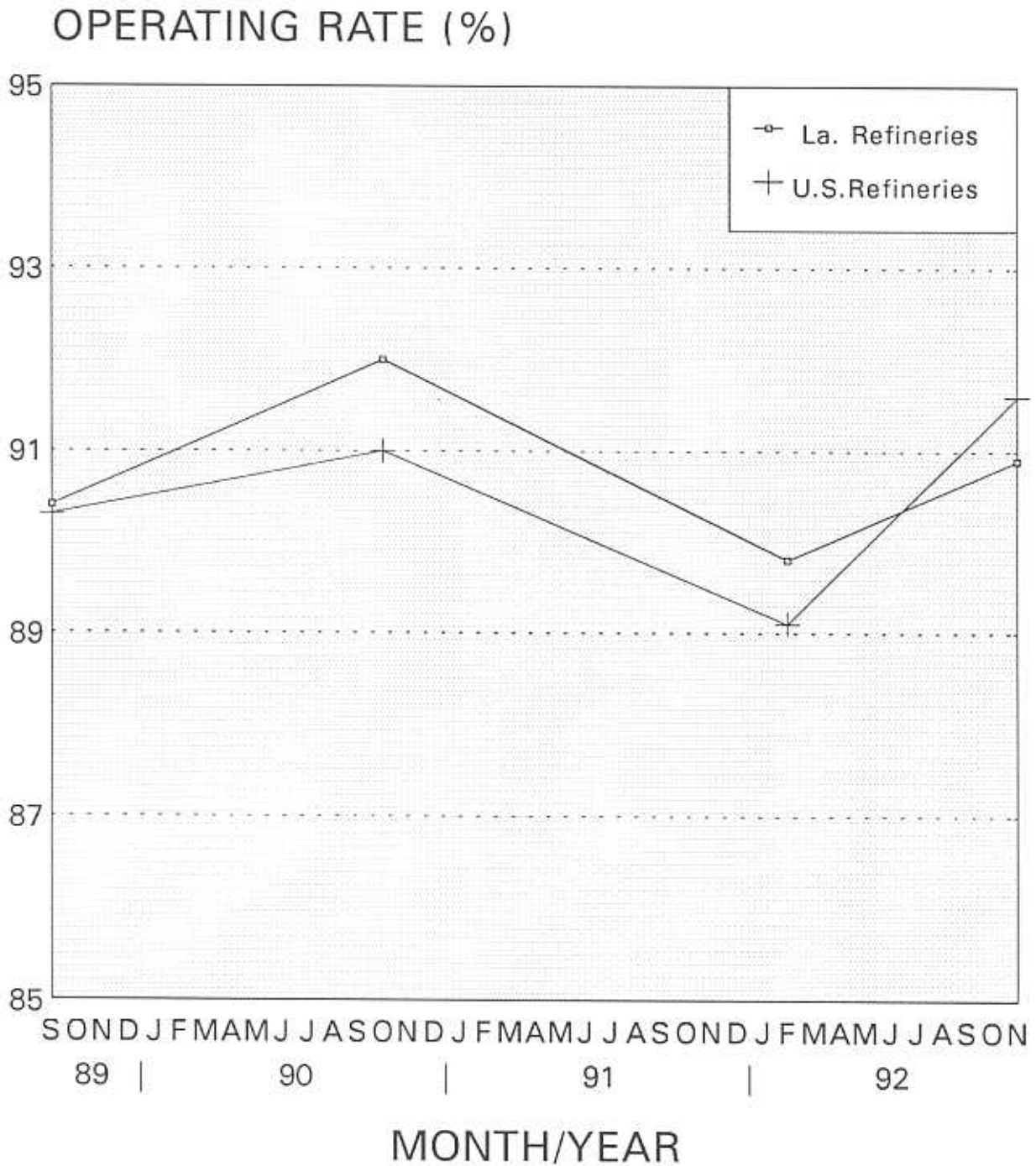
- 1 Atlas Processing Co. - Div. Pennzoil
- 3 Dubach Gas Co./Claiborne Plant
- 4 Calcasieu Refining Company
- 5 Calumet Lubricants Co., L.P.
- 6 Canal Refining Co.
- 7 Gold Line Refining, Ltd.
- 8 CITGO Petroleum Corp.
- 9 Conoco Inc./Lake Charles Refinery
- 10 Exxon Co., U.S.A.
- 12 B.P. Oil Co.
- 13 Dubach Gas Co./Dubach
- 14 Phibro Energy U.S.A./Krotz Springs
- 15 Phibro Energy U.S.A./St. Rose
- 17 Kerr-McGee Refining Corp.
- 19 Marathon Oil Co.
- 21 Murphy Oil U.S.A., Inc./Meraux Ref.
- 22 Placid Refining Co.
- 24 Shell Oil Co.
- 27 Mobil Oil Corp./Chalmette Refinery
- 28 Star Enterprise

NON-OPERATING REFINERIES ▲

- 2 Bayou State Oil Corp.
- 11 TransAmerican Refining Co.
- 16 Texas NAPCO, Inc.
- 18 Cameron Oil Refining Co., Inc.
- 20 Petroleum Fuel & Terminal Co.
- 23 Sabine Gas Operators, Inc.
- 25 Britt Processing & Refining Co.
- 26 CAS Refining
- 29 Laidlaw Environmental Services/Jennings

REFINERY OPERATING RATES (%)

LOUISIANA AND ALL U.S. REFINERIES



Source: La. Refineries-DNR Refinery Survey Reports
 U.S. Refineries-EIA Petroleum Supply Monthly,
 12/89, 12/91, 1/93; Table H2

**LOUISIANA OPERATING REFINERIES
MAILING ADDRESS & CONTACT LIST**
December 1992 Technology Assessment Division Survey

NAME	MAILING ADDRESS	CONTACTS	TELEPHONE
Atlas Processing Co.— Div. Pennzoil	Box 3099 Shreveport, LA 71113	George Thoreson, Plt. Mgr. John Short, Accounting Mgr.	(318) 636-2711
B. P. Oil Co./Alliance Refinery	Box 395 Belle Chasse, LA 70037	Susan Caito, Ref. Mgr. Roy Proctor, Opr. Mgr.	(504) 656-7711
Calcasieu Refining Company	Box 6028 Lake Charles, LA 70606	Philip Nelson, Plt. Mgr. Tom Prudhomme, Tech. Supt.	(318) 478-2130
Calumet Lubricants Co., L.P.	10234 La. Hwy. 157 Princeton, LA 71067	Jerry Arnold, V.P. Grady Lee, Ch. Engrn.	(318) 949-2421
Canal Refining Co.	Box 8 Church Point, LA 70525	Arron Hornsby, Ref. Mgr.	(318) 684-5421
CITGO Petroleum Corp.	Box 1562 Lake Charles, LA 70601	Fred Foster, V.P. Charles Shumate, Engrng. Mgr.	(318) 491-6165
Conoco Inc./Lake Charles Refinery	Box 37 Westlake, LA 70669	Jim Leigh, Plt. Mgr. Dennis Stephen, Optim. Mgr.	(318) 491-5230
Dubach Gas Co./Claiborne Plant	Box 170 Lisbon, LA 70148	David Hockey, Plt. Mgr. Chuck Morgan, Ch. Engrn.	(318) 353-2283
Dubach Gas Co./Dubach Plant	Rt. 2, Box 1-3EE Dubach, LA 71235	Jack Hall, Plt. Mgr. Bruce Simpson, Asst. Mgr.	(318) 777-3416
Exxon Co. U.S.A.	Box 551 Baton Rouge, LA 70821	William B. Rainey, Plt. Mgr. Keith Baugher, Process Mgr.	(504) 359-7711
Gold Line Refining, Ltd.	P. O. Drawer 18190 Lake Charles, LA 70616	Fred Marshall, Plt. Mgr.	(318) 436-4185
Kerr—McGee Refining Corp.	Box 97 Cotton Valley, LA 71018	M.R. Sheets, Mgr. LA Opr. D.D. Parker, Mgr. Plt. Opr.	(318) 832-4236
Marathon Oil Co.	Box AC Garyville, LA 70051	George Lowe, Div. Mgr. John Swearingen, Tech. Svs. Mgr.	(504) 535-2241
Mobil Oil Corp./Chalmette Refinery	Box 1007 Chalmette, LA 70044	Donald J. Michael, Ref. Mgr. Tim Davis, Ch. Engrn.	(504) 279-9481
Murphy Oil U.S.A. Inc./Meraux Ref.	Box 100 Meraux, LA 70075	Ernie Cagle, Plt. Mgr. Thomas Johnston, Mgr. Tech. Svs.	(504) 271-4141
Phibro Energy U.S.A./Krotz Springs	Box 453 Krotz Springs, LA 70750	Ralph Youngblood, V.P. Opr. John Edmunds, Mgr. Tech. Svcs.	(318) 566-2301
Phibro Energy U.S.A./St. Rose	Box 630 St. Rose, LA 70087	Gary Louque, Plt. Mgr.	(504) 465-0044
Placid Refining Co.	1940 La. Hwy. #1 N. Port Allen, LA 70767	Larry Doty, Gen. Mgr. Dale Emanuel, Plt. Mgr.	(504) 387-0278
Shell Oil Co.	Box 10 Norco, LA 70079	P.B. Schwin, Plt. Mgr. R.L. Chew, Tech. Supt.	(504) 465-7111
Star Enterprise	Box 37 Convent, LA 70723	Ron Anderson, Plt. Mgr. Pat Rainey, Spvsr. Opr. & Plnng.	(504) 562-7681

LOUISIANA OPERATING REFINERY LOCATIONS

December 1992 DNR Technology Assessment Division Survey

NAME	PHYSICAL LOCATION
Atlas Processing Co. – Div. Pennzoil	Shreveport, 3333 Midway Ave., Across I–20 from State fairgrounds.
B. P. Oil Co./Alliance Refinery	Belle Chasse, 12mi. south on east side of La.23.
Calcasieu Refining Company	Lake Charles, 3mi. south at west end of Old Tank Farm Road on Ship Canal.
Calumet Lubricants Co., L.P.	Princeton, 5mi. north of I–20 on east side of La. 157.
Canal Refining Co.	Church Point, 2mi. north on left side of La. 178.
CITGO Petroleum Corp.	Lake Charles, I–10 exit 23, then 2mi. south on La. 108.
Conoco Inc./Lake Charles Refinery	Westlake, I–10 Sampson Rd. exit; north to Old Spanish Trail.
Dubach Gas Co./Claiborne Plant	Lisbon, 3mi. east on south side of La. 2.
Dubach Gas Co./Dubach Plant	Dubach, 1/4 mi. west of U.S. 167 at south city limits.
Exxon Co. U.S.A.	Baton Rouge, 4045 Scenic Hwy.
Gold Line Refining, Ltd.	Lake Charles, I–10 exit 36, north to La. 3059, left 3/4 mi.
Kerr–McGee Refining Corp.	Cotton Valley, east side of La. 7 South at city limits.
Marathon Oil Co.	Garyville, 2 mi. toward Reserve off of U.S. 61.
Mobil Oil Corp./Chalmette Refinery	Chalmette 500 W. St. Bernard Hwy.
Murphy Oil U.S.A. Inc./Meraux Refinery	Meraux 2500 St. Bernard Hwy.
Phibro Energy U.S.A./Krotz Springs Refinery	Krotz Springs La. 105 South in town.
Phibro Energy U.S.A./St. Rose Refinery	St. Rose, 27009 River Rd. Right 2 mi. at La. 626/River Rd. jct.
Placid Refining Co.	Port Allen 1940 La. 1 North.
Shell Oil Co.	Norco River Road in Norco.
Star Enterprise	Convent, on La. 44 at east bank foot of Sunshine bridge.

LOUISIANA OPERATING REFINERIES
CRUDE CAPACITY (barrels/calendar day) AND PRODUCT SLATE (%)
 December 1992 DNR Technology Assessment Division Survey

NAME	OPERATING CAPACITY	IDLE CAPACITY	OPERATING RATE%	PRODUCT SLATE (%)												
				GASOLINE			OTHER FUELS			MISCELLANEOUS			OTHER PRODUCTS			
				REG	MID-	PREM	DIESEL	JET/ KERO	FUEL OIL	LPG's	NAPTH	RESID	PRODUCT 1	PRODUCT 2	PRODUCT 3	UNSPECIFIED
Atlas Processing Co. - Div. Pennzoil	46,200	0	79.5	10.4	1.6	1.7	22.9	12.7	0.0	0.0	4.9	7.4	18.9	10.7	2.1	6.7
B. P. Oil Co./Alliance Refinery	220,000	4,000	98.2	28.8	7.3	9.4	27.7	11.1	0.0	1.7	0.0	0.0	Lubes/Motor Oil	Cat Feed	Waxes	6.0
Calcasieu Refining Company	13,500	0	92.8	0.0	0.0	0.0	22.9	54.7	0.0	3.7	5.1	12.9	1.4	5.0	1.6	6.0
Calumet Lubricants Co., L.P.	5,440	560	99.7	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	Coke	Aromatics	Intermediates	0.0
Canal Refining Co.	10,000	0	78.5	20.0	3.0	7.0	50.0	0.0	0.0	0.0	0.0	20.0	0.7	0.0	0.0	0.0
CITGO Petroleum Corp.	295,000	0	90.4	24.3	7.1	23.2	13.7	15.8	0.0	3.1	0.0	0.0	Fuel Gas			0.0
Conoco Inc./Lake Charles Refinery	178,000	0	96.6	28.0	2.9	5.7	38.2	9.4	1.8	2.5	3.4	0.0	75.0	22.0	0.0	0.0
Dubach Gas Co./Claiborne Plant	8,000	0	80.5	30.0	0.0	0.0	12.0	0.0	20.0	7.0	8.0	0.0	Lube Oil	Asphalt		0.0
Dubach Gas Co./Dubach Plant	10,000	0	62.1	0.0	52.5	0.0	0.0	19.7	0.0	10.4	6.1	0.0	0.0	0.0	0.0	0.0
Exxon Co. U.S.A.	421,000	0	95.5	23.8	7.2	10.7	17.5	10.6	2.0	2.5	1.4	4.2	2.4	2.5	7.7	0.2
Gold Line Refining, Ltd.	12,000	8,000	81.1	0.0	0.0	0.0	24.0	57.0	5.0	2.0	0.0	0.0	Lubes	Petrochemicals	Misc.	2.7
Kerr-McGee Refining Corp.	7,800	0	62.5	0.0	0.0	0.0	11.2	0.0	0.0	0.0	36.7	0.0	5.4	0.0	0.0	0.0
Marathon Oil Co.	255,000	0	84.8	41.0	1.7	7.8	0.0	1.7	29.4	4.3	0.6	12.8	Minor Products			0.0
Mobil Oil Corp./Chalmette Refinery	160,000	0	93.9	30.8	4.1	8.9	21.5	9.8	3.0	3.0	0.0	9.4	23.0	0.0	0.0	0.0
Murphy Oil U.S.A. Inc./Meraux Ref.	95,000	0	84.8	39.0	3.0	8.8	21.7	11.2	13.6	2.2	0.3	0.1	7 Solvents			0.0
Phibro Energy U.S.A./Krotz Springs	59,700	300	87.0	13.3	1.5	1.2	16.1	19.2	0.0	1.5	15.0	6.5	11.3	0.0	0.0	0.0
Phibro Energy U.S.A./St. Rose	37,000	3,000	85.4	0.0	0.0	0.0	12.8	0.2	0.0	0.0	15.0	24.9	Gas Oil			0.0
Placid Refining Co.	47,000	0	96.0	22.6	1.7	7.3	28.3	11.1	5.6	4.7	0.6	0.0	2.9	12.9	4.0	0.3
Shell Oil Co.	215,000	0	85.1	21.8	8.3	13.2	0.0	14.8	1.6	5.6	2.4	0.0	Lube Oil	Exxon Chemical	Internal Fuels	0.0
Star Enterprise	225,000	0	91.0	42.0	1.0	3.0	19.0	11.0	15.0	4.0	1.0	0.0	12.0	0.0	0.0	0.0
WEIGHTED STATE AVERAGE %			90.9	27.8	4.9	9.8	17.3	11.3	6.1	3.1	1.8	3.6	Vac. Gas Oil			0.1
TOTAL LA OPERATING CAPACITY	2,320,640												32.0	20.0	0.0	0.1
													Gas Oil	Straight Run		0.0
													0.4	0.3	0.0	0.0
													Blend Grd. Gsln	Sulfur		0.1
													4.2	5.2	0.0	0.1
													Aromatics	Refinery Fuel		0.0
													0.1	0.0	0.0	0.0
													Gas Oil			0.0
													21.8	3.9	0.0	0.0
													Gas Oil	Lt. St. Run Gas		0.0
													38.1	0.0	0.0	0.0
													Gas Oil			0.0
													11.1	5.1	0.0	1.9
													Gasohol Blend	Subgrade Blend		0.0
													32.3	0.0	0.0	0.0
													Cat Feed			2.0
													1.0	1.0	0.0	0.0
													Gas Oil	Sulfur		0.0

NOTE: All data are for the twelve month period ending November 30, 1992. They may differ slightly from data reported elsewhere for a different time frame. Operating rates are computed by dividing the daily average crude input by the operating capacity provided by survey respondents.

**LOUISIANA NON-OPERATING REFINERIES
MAILING ADDRESS & CONTACT LIST**
December 1992 Technology Assessment Division Survey

NAME	MAILING ADDRESS	CONTACTS	TELEPHONE
Bayou State Oil Corp.	Box 7886 Shreveport, LA 71137	Ellis Brown, V.P. Oper.	(318) 222-0737
Britt Processing & Refining Co.	Route 1 Box 51-A Egan, LA 70531	James Hughes, Owner George Yasmine, Owner	(318) 783-1057
Cameron Oil Refining Co., Inc.	6101-D Forest Hills Drive Austin, TX 78746	Rick Michael, Owner's Atty.	(512) 329-5947
CAS Refining	Box 80829 Lafayette, LA 70598	Max Menard, President	(318) 237-2278
Laidlaw Environmental/Jennings	Box 283 Crowley, LA 70527	Charles Benoit, Opr. Mgr.	(318) 783-2624
Petroleum Fuel & Terminal	Box T Garyville, LA 70051	Claude Phelps, Plt. Mgr. Will Louque, Term. Spvsr.	(504) 535-6256
Sabine Gas Operators, Inc.	2285 Benton Road Bossier City, LA 71111	Bob McKee, President Bob Simmons, Plt. Mgr.	(318) 747-7774
Texas NAPCO, Inc.	228 St. Charles Ave., Ste. 1435 New Orleans, LA 70130	John Pender, Bkrptcy. Trste.	(504) 581-2024
TransAmerican Refining Co.	Box 537 Norco, LA 70079	Gary Karr, Plt. Mgr. John Stanley, Administrator	(504) 764-8611

LOUISIANA NON-OPERATING REFINERIES
PHYSICAL LOCATION, LAST KNOWN CRUDE CAPACITY (barrels/calendar day), LAST OPERATED, AND STATUS
 December 1992 DNR Technology Assessment Division Survey

NAME	PHYSICAL LOCATION	LAST KNOWN OPERATING CAPACITY	LAST OPERATED	PREVIOUS NAME(S)	STATUS
Bayou State Oil Corp.	Hosston, U.S.71 North at jct. La.2 West.	3,000	2/87	SAME	No immediate plans to reopen.
Britt Processing & Refining Co.	Egan, I-10 exit 72; then 2mi. south on Old Ferry Road.	10,000	9/87	Crystal Refining, Inc.	To be reactivated by mid-1993.
Cameron Oil Refining Co., Inc.	Cameron Parish. Talen's landing on Intercoastal Waterway 9mi. south of jct. La. 14 & 26 in Lake Arthur via La. 14 & Parish roads 104 & 109.	7,400	2/86	Cameron Resources, Inc., Mallard Resources, Inc.	Owner's attorney says that company, a Nevada corporation, is reorganizing.
CAS Refining	3-1/2 mi. east of jct. U.S. 90E & La. 102 in Jennings. On Mermentau River 1mi. north of U.S. 90E at end of gravel road.	14,800	8/90	Celeron; Slapco	Purchase by Sabine Gas Operators imminent. After purchase refinery will be reactivated within 60 days.
Laidlaw Environmental Services (Recovery), Inc./Jennings	3-12mi. east of jct. U.S. 90E & La. 102 in Jennings. On gravel road 1/2 mi. north of U.S. 90E.	15,000	8/81	GSX Recovery Systems; T & S Refining Co.	Refinery for sale.
Petroleum Fuel & Terminal Co.	Mt. Airy, exit Gramercy on La.20 to La.44(River Rd.)jct. Left 2mi.	23,000	12/86	Clark Oil & Refining/ Mt. Airy Refinery	Terminal only in use. Refinery for sale.
Sabine Gas Operators, Inc.	Stonewall, 1/4 mi. south on west side of U.S.171.	10,000	8/85	Port Petroleum	Refinery to be reactivated by mid-1993.
Texas NAPCO, Inc.	St. James, 7-1/2mi. south of Sunshine Bridge on La.18.	20,000	8/83	LaJet; McTan Refining Co.	In bankruptcy. Refinery for sale. Several prospects interested.
TransAmerican Refining Co.	Norco, 257 Prospect Ave.	300,000	7/82	GHR Energy Corp.	MTBE unit planned for late 1993. Depending on financing refinery may be reactivated in 1993.

U. S. DEPARTMENT OF ENERGY
 CAPACITY OF LOUISIANA OPERABLE PETROLEUM REFINERIES
 AS OF JANUARY 1, 1992
 (Barrels per Stream Day, Except Where Noted)

Refiner/Location	Atmospheric Crude Oil Distillation Capacity				Vacuum Distillation	Downstream Charge Capacity						
	Barrels per Calendar Day		Barrels per Stream Day			Thermal Cracking			Catalytic Cracking		Catalytic Reforming	
	Operating	Idle	Operating	Idle		Delayed Coking	Visi-Breaking	Other/Gas Oil	Fresh	Recycled	Low Pressure	High Pressure
BP Oil Corp./Belle Chasse(Alliance)	218,000	0	222,000	0	72,000	19,000	0	0	89,000	2,000	0	37,500
Calcasieu Refining Co./Lake Charles	12,500	0	13,500	0	0	0	0	0	0	0	0	0
Calumet Lubricants Co. L.P. Princeton	6,000	0	6,450	0	6,000	0	0	0	0	0	0	0
Canal Refining Co./Church Point	8,000	0	8,800	0	0	0	0	0	0	0	1,900	0
Citgo Petroleum Corp./Lake Charles	305,000	0	320,000	0	75,000	88,000	0	0	150,000	0	88,000	20,000
Conoco Inc./Westlake	165,000	0	175,000	0	78,000	62,000	0	12,000	44,500	0	13,000	17,000
CAS Refining Co./Jennings*	0	13,500	0	15,000	0	0	0	0	0	0	0	0
Dubach Gas Co./Dubach Plant Dubach	8,500	0	9,000	0	0	0	0	0	0	0	3,000	0
Dubach Gas Co./Claiborne Plant Lisbon	7,500	0	7,700	0	0	0	0	0	0	0	2,000	0
Exxon Co. U.S.A./Baton Rouge	421,000	0	438,000	0	183,000	90,000	0	0	188,000	0	60,000	30,000
Gold Line Refining, Ltd. (Leased from American Intl. Refinery, Inc.) Lake Charles	9,600	18,000	11,000	19,000	0	0	0	0	0	0	0	0
Kerr-McGee Refining Corp. Cotton Valley	7,800	0	8,500	0	0	0	0	0	0	0	0	0
Marathon Petroleum Co./Garyville	255,000	0	263,000	0	125,000	0	0	0	88,000	0	50,000	0
Mobil Oil Corp./Chalmette	160,000	0	175,000	0	92,500	33,000	0	0	58,000	0	19,000	28,000
Murphy Oil U.S.A. Inc./Meraux	95,000	0	100,000	0	40,000	0	0	0	38,000	2,500	23,000	0
Pennzoil Products Co./Shreveport	46,200	0	50,000	0	24,300	0	0	0	0	0	6,500	0
Phibro Refining Inc. Krotz Springs St. Rose	60,000 40,000	0 0	61,500 45,000	0 0	22,000 18,000	0 0	0 0	0 0	28,000 0	0 0	0 0	12,000 0
Placid Refining Co./Port Allen	48,500	0	49,500	0	20,000	0	0	0	19,000	2,000	10,000	0
Sabine Resources Group Stonewall*	0	12,000	0	16,000	0	0	0	0	0	0	0	0
Shell Oil Co./Norco	215,000	0	220,000	0	78,000	21,000	0	106,700	0	0	38,000	16,000
Star Enterprise/Convent	225,000	0	242,500	0	91,500	0	12,000	0	85,000	5,000	0	40,000
Trans-American Refining Co. Norco(Good Hope)*	0	300,000	0	350,000	240,000	0	140,000	0	110,000	0	0	15,000
LOUISIANA TOTALS	2,313,600	343,500	2,426,450	400,000	1,185,300	313,000	152,000	118,700	697,500	11,500	312,400	215,500

* Reported no inputs during 1991. MMcfd = Million cubic feet per day

Source: Energy Information Administration/Petroleum Supply Annual 1991, Volume 1, Table 38
 (Released for Printing June 4, 1992)

Catalytic Hydro-Cracking	Downstream Charge Capacity (Cont.)					Production Capacity									
	Catalytic Hydrotreating				Fuel Solvent Deasphltg	Alkylates	Asphalt	Aromatics	Isomers		Lubricants	Hydrogen (MMcfd)	Marketable Petroleum Coke	Sulfur (short tons per day)	
	Heavy Gas Oil	Naptha/ Ref. Feeds	Distillate	Other/ Residual					C4	C5 & C6					
0	0	43,000	22,000	25,300	0	35,000	0	8,000	0	0	0	40	3,500	50	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	960	0	0	0	4,800	5	0	2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45,000	0	105,000	28,000	25,000	0	23,000	0	4,000	0	22,400	10,000	0	22,500	405	
0	0	33,000	110,500	13,000	0	7,500	0	0	0	0	0	0	18,250	290	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	400	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	2,000	0	0	0	0	
24,000	0	95,000	55,000	21,500	0	33,200	12,000	0	0	12,500	16,500	18	24,400	661	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	71,000	50,000	40,000	0	30,000	27,000	25,000	0	7,000	9,000	0	0	0	504	
18,000	43,000	45,000	24,000	0	0	19,000	0	7,000	0	0	0	24	7,750	198	
0	0	29,000	15,000	0	0	9,500	12,000	0	0	0	0	0	0	24	
0	8,900	10,000	0	1,200	0	0	600	0	0	0	8,500	6	0	13	
0	0	12,000	0	0	0	0	0	0	1,500	0	0	0	0	10	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	10,000	0	0	5,000	4,000	0	0	0	0	0	0	0	8	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35,000	70,000	29,000	0	28,000	0	15,000	0	0	0	0	0	70	5,000	111	
50,000	0	40,000	69,500	32,500	0	14,500	0	0	0	12,500	0	63	0	728	
0	0	15,000	25,000	0	0	14,000	0	3,000	5,000	20,000	0	0	0	140	
172,000	192,900	516,000	389,000	146,500	35,000	201,700	50,560	22,000	13,900	78,400	39,800	227	81,400	3,144	