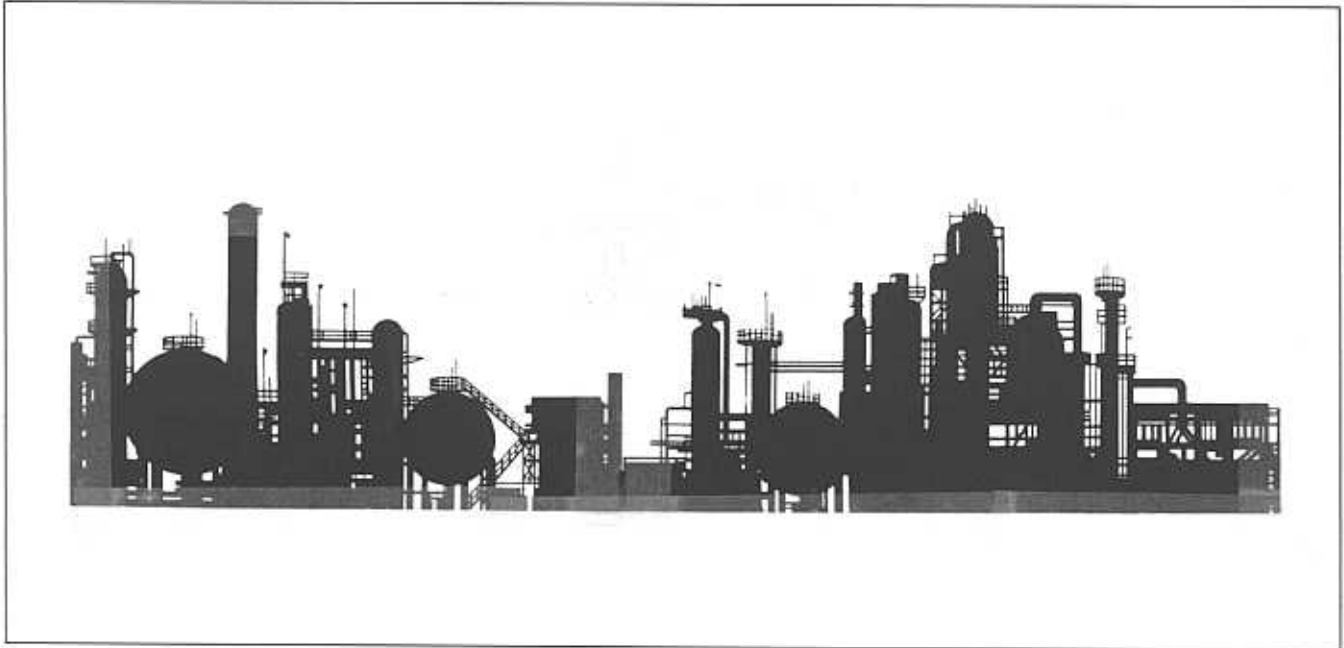


# LOUISIANA CRUDE OIL REFINERY SURVEY REPORT

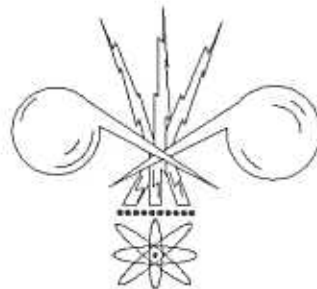
Fifth Edition

October 1993 Survey

By  
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Technology Assessment Division  
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Director



LOUISIANA DEPARTMENT OF NATURAL RESOURCES

John F. Ales  
Secretary of Natural Resources

Baton Rouge  
November 24, 1993

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## TABLE OF CONTENTS

	<u>PAGE</u>
FOREWORD .....	1
DISCUSSION .....	3
<b>FIGURES</b>	
Location Map of Louisiana Refineries .....	6
Refinery Operating Rates of Louisiana and all U.S. Refineries 1989-1992 .....	7
Louisiana Oil Production and Refinery Operable Capacity 1900-1992 .....	8
<b>TABLES</b>	
Louisiana Operating Refineries	
Mailing Addresses and Contacts .....	9
Physical Location Descriptions .....	10
Crude Capacity and Product Slate .....	11
Louisiana Non-Operating Refineries	
Mailing Addresses and Contacts .....	12
Physical Location, Last Known Capacity, Date Last Operated, Previous Name(s), and Present Status .....	13
U.S. Department of Energy Capacity of Operable Louisiana Refineries as of January 1, 1993 .....	14

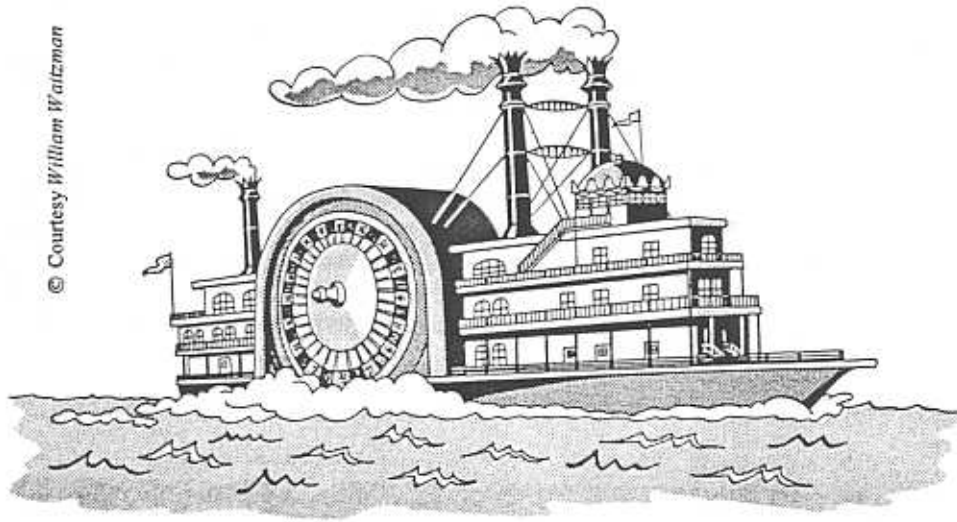
## FOREWORD

Since 1989 the Technology Assessment Division of the Louisiana Department of Natural Resources has periodically conducted a survey of Louisiana crude oil refineries. 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 capacities, operating rates, and product slate is also presented. Information on both operating and non-operating refineries that are still intact is included. The last survey was taken in December 1992, and the report was published in March 1993.

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 for the previous calendar year. The period covered is the twelve months ending June 30, so it is countercyclical to the DOE/EIA report. The operating refineries capacities, operating rates, and product slate statistics presented in the report are prepared from data supplied by survey respondents. The information on the non-operating refineries is obtained from their owners, trustees, and management personnel and is current within a few weeks of publication.

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 crude suppliers locate refining sources and 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.

© Courtesy William Waitzman



## DISCUSSION

Low profit margins and environmental and safety over-regulation were again the main concerns voiced by survey respondents. Projects relating to the 1992 and 1993 deadlines mandated by the 1990 Clean Air Act Amendments (CAAA) have been completed. Almost all new projects under way are also related to environmental or safety compliance. Some refineries have started engineering to produce the reformulated gasoline mandated by the CAAA in certain areas by January 1995. The exact formulation has yet to be set by the EPA.

Total Louisiana refinery operating capacity remained virtually unchanged. Operating rates improved slightly. While there were some changes in the product mix of individual refineries, the overall mix remained almost the same. Crude capacity, operating rates, and product slate for each operating Louisiana refinery are shown in the table on page 11.

Three owners of non-operating refineries have again, as in previous surveys, disclosed their intentions to reopen. Another will be acquired and reopened pending satisfactory conclusion of financing negotiations that have been going on for at least a year. Obtaining financing appears to be the pivotal consideration that will decide whether any of these refineries will ever actually reopen.

### Operating Refineries

The total operating capacity of 2,328,264 barrels per calendar day (bcd) reported is marginally higher than the 2,320,640 bcd reported in our December 1992 survey. Operating rates improved slightly from 90.9% to 91.2%. The graph on page 7 shows the operating rates of all Louisiana refineries taken as a whole as compared to all U.S. refineries beginning with the first DNR survey in September 1989.

Louisiana refineries continue to obtain most of their crude supply from outside the state as oil production within the state continues to decline. Only about 21% comes from Louisiana. Of the outside sources supplying crude to Louisiana refineries, foreign countries provide the most at 55%, the OCS is next at 17%, and other states at 7%. The graph on page 8 shows Louisiana refinery operable capacity and oil production since 1900.

Capital outlays are being targeted exclusively to debottlenecking, environmental, and safety projects, not expansions. The Calumet Lubricants refinery at Princeton was the only refinery to report an increase in capacity, from 6000 bcd to 7000 bcd. A previous expansion in 1991 increased capacity from 4200 bcd to 6000 bcd. None of the other refineries disclosed any plans for future expansion of capacity.

Increased automobile fuel efficiency and the poor state of the airline industry has reduced the demand for the main products of refineries. There is also a trend toward using more environmentally friendly fuels, such as natural gas. The 4.3¢/gallon increase in the federal excise tax on gasoline imposed by the *Omnibus Budget Reconciliation Act of 1993* went into effect on October 1, 1993, and could further reduce demand. These factors suggest that additional capacity will not be needed in the near term.

Most respondents representing operating refineries again felt that crude oil refining as a stand alone operation was a marginally profitable business in the U.S. with meager growth prospects. Most felt profit margins will stay squeezed as long as the price of their products remains relatively stable while the cost of complying with a steady stream of new regulations continues spiraling upwards.

No operating refineries were closed, but the owners of at least four small operating refineries indicated they would like to reduce their involvement in refinery operations by merger, partnership, or outright sale.

Kerr-McGee Corporation, which has a refinery in Cotton Valley, is actively working to divest itself of its entire refining and marketing operations. The company wants to concentrate on its core oil and gas exploration and production business.

Phibro Energy, which has refineries at Krotz Springs and St. Rose, reportedly has a letter of intent from another party to purchase the St. Rose refinery. If the deal falls through, the refinery will be operated as it had been previously. A spokesman for Phibro indicated that the company has no strategic plans to divest itself of its refineries but is always looking for better ways to employ its capital.

Endevco, the parent company of Dubach Gas Company, emerged from bankruptcy on November 2, 1993, and changed its name to Cornerstone Natural Gas Company. The Dubach refinery stopped receiving crude on July 1, 1993, but will continue operations as a gas liquids fractionating plant. A new \$3.5 million cryogenic gas processing plant is scheduled to be completed in February 1994. The crude processing equipment now at the site will remain operable, and if market conditions become favorable, crude will again be processed. The company has restructured the management of this refinery and its nearby Claiborne refinery at Lisbon to lower operating costs. A spokesman with Cornerstone indicated the company would be receptive to a merger or sale of the refineries.

### **Non-Operating Refineries**

The three closed refineries that reported intentions to reopen are the same ones that said they would be operating by now when the last survey was conducted. They 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.

According to Bob McKee, president of Sabine, financing to reopen the Stonewall refinery has been secured, and the target date for reopening it is January 15, 1994. Products will include diesel fuel, naphtha, and feed for downstream catalytic operations. He also indicated that Sabine is still in the final stages of obtaining financing to acquire the 14,800 bcd CAS refinery near Jennings and would reopen it within ninety days after the purchase is finalized. Equipment has already been installed to increase its capacity to 22,000 bcd. Sabine is also evaluating two other closed Louisiana refineries for possible purchase.

Some of the non-operating refineries that have been closed for several years have sold some of their equipment. The Bayou State Oil refinery at Hosston has sold several items, and the vacuum unit at the Texas NAPCO refinery at St. James was sold to Gold Line Refining, which has yet to install it. Laidlaw has received a deposit for all of the equipment at its refinery near Jennings. The equipment is to be removed from the site by December 31, 1993, when the option expires.

For a refinery that has not been operated since 1982, there is plenty of activity at the TransAmerican refinery at Norco. The refinery is owned by TransTexas Natural Gas Corporation of Houston, Texas. According to Jack Stanley, CEO, the refinery employs 200 people and spent \$10 million so far in 1993 and will spend another \$25 million in 1994. He says financing has been obtained to enable the refinery to reopen by the fourth quarter of 1994, about three months before an 80,000 bcd coker unit now under construction will be operational. The company is also working on a 13,000 bcd MTBE



unit to go on-line by the end of 1994. It was supposed to have been completed by December of 1993, but because of depressed market conditions for MTBE it was postponed. The initial operating capacity of the refinery will be about 200,000 bcd running heavy crude through an existing 200,000 bcd vacuum unit.

There are several prospects interested in purchasing the 20,000 bcd Texas NAPCO refinery at St. James pending a final environmental cleanup order by the Louisiana Department of Environmental Quality. 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 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 among the operating refineries. On the other hand, there is enthusiasm by those owners who want to reopen their closed refineries as well as continued interest by investors in purchasing other closed refineries in the 10,000-25,000 bcd capacity range. While many financial analysts say this size refinery cannot be operated profitably, the attitude among these investors is quite upbeat. We will continue to follow the industry and report on new developments in the next edition of this report.

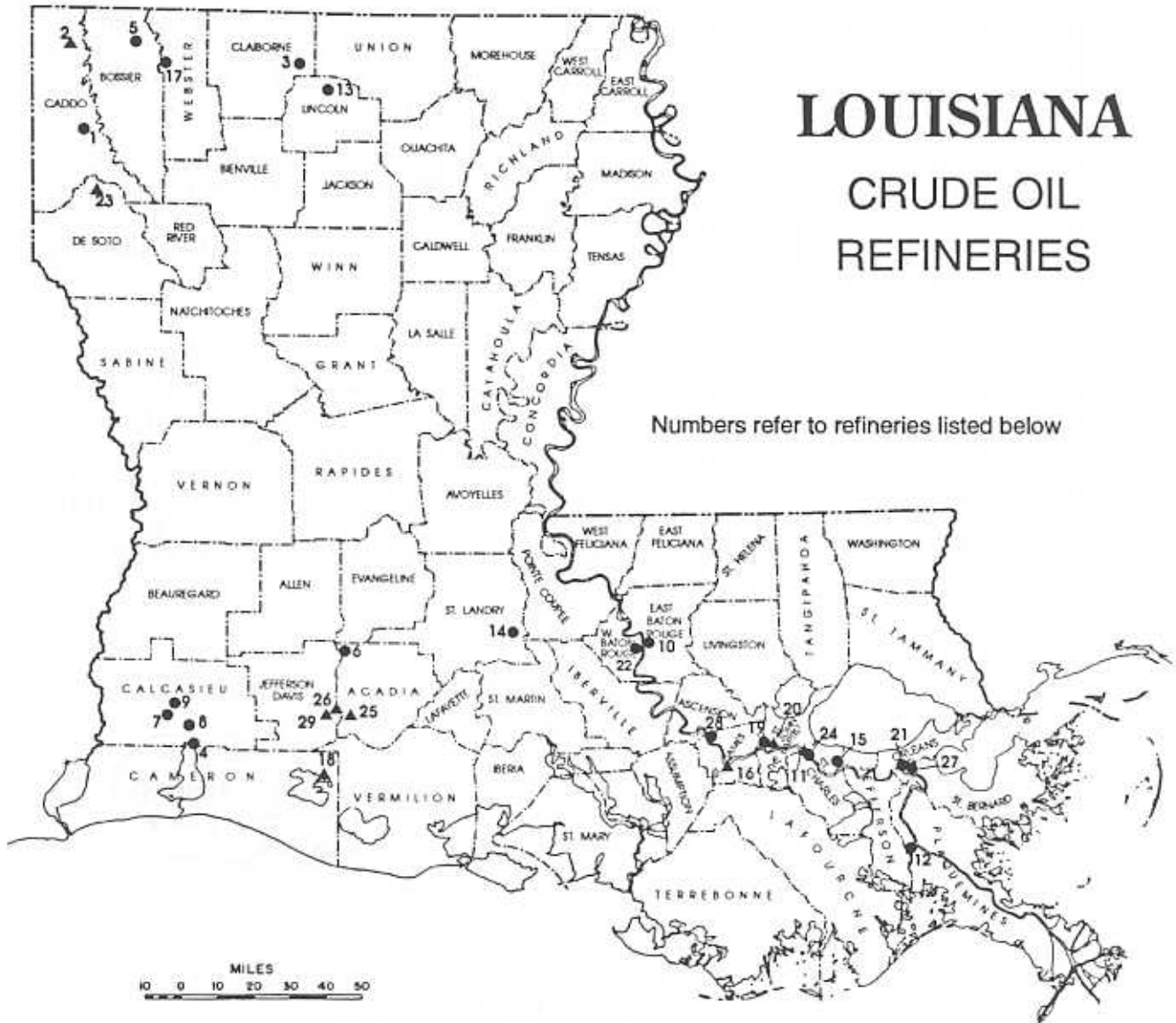




# LOUISIANA

## CRUDE OIL REFINERIES

Numbers refer to refineries listed below



Technology Assessment Division

### OPERATING REFINERIES ●

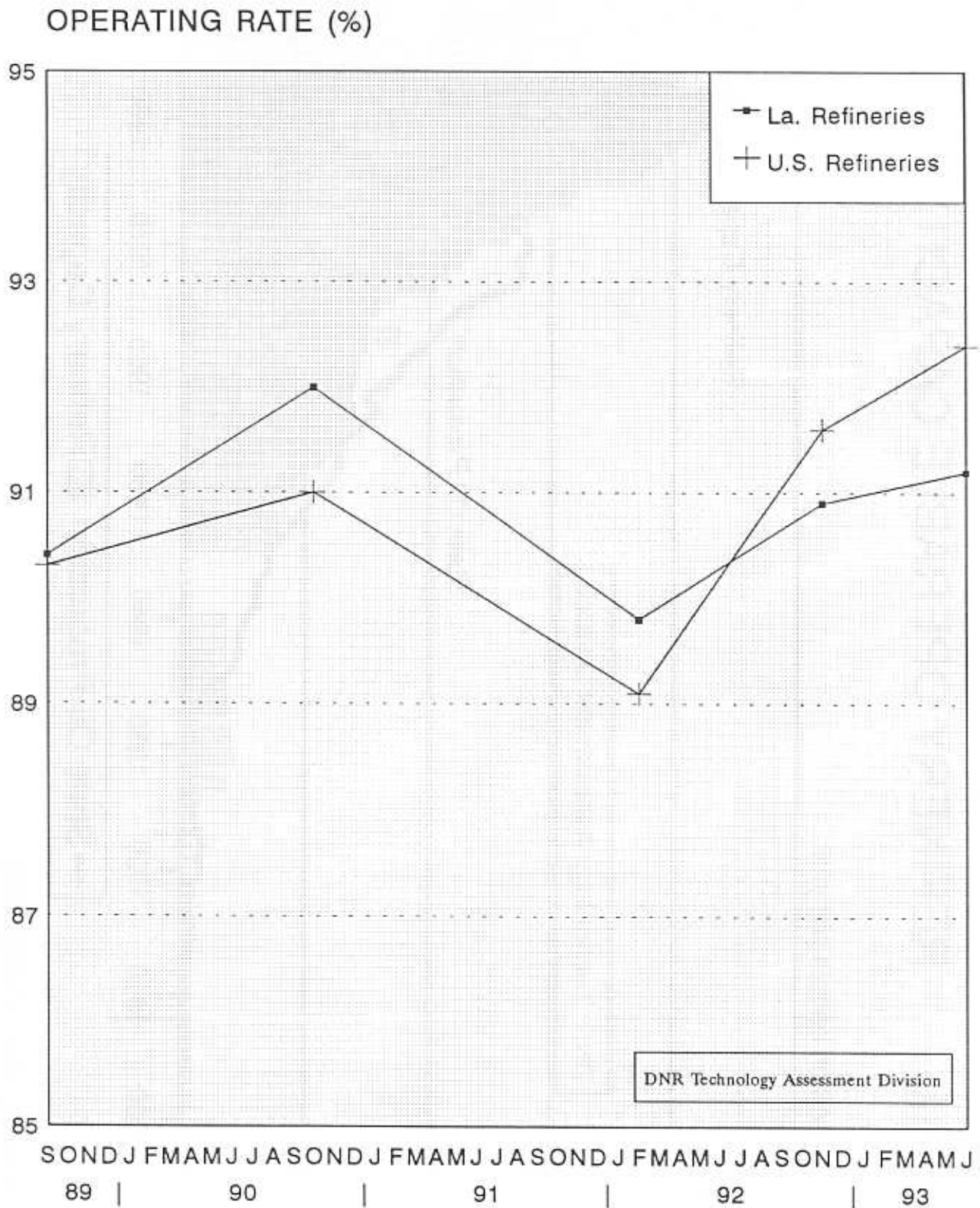
- 1 Atlas Processing Co. - Div. Pennzoil
- 3 Dubach Gas Co./Claiborne Plant
- 4 Calcasieu Refining Company
- 5 Calumet Lubricants Co., L.P.
- 6 Canal Refining Co.
- 7 Gold Line Refining, Ltd.
- 8 CITGO Petroleum Corp.
- 9 Conoco Inc./Lake Charles Refinery
- 10 Exxon Co., U.S.A.
- 12 B.P. Oil Co.
- 13 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 Tina Resources, Inc.
- 20 Petroleum Fuel & Terminal Co.
- 23 Sabine Gas Operators, Inc.
- 25 Britt Processing & Refining Co.
- 26 CAS Refining
- 29 Laidlaw Environmental Services/Jennings

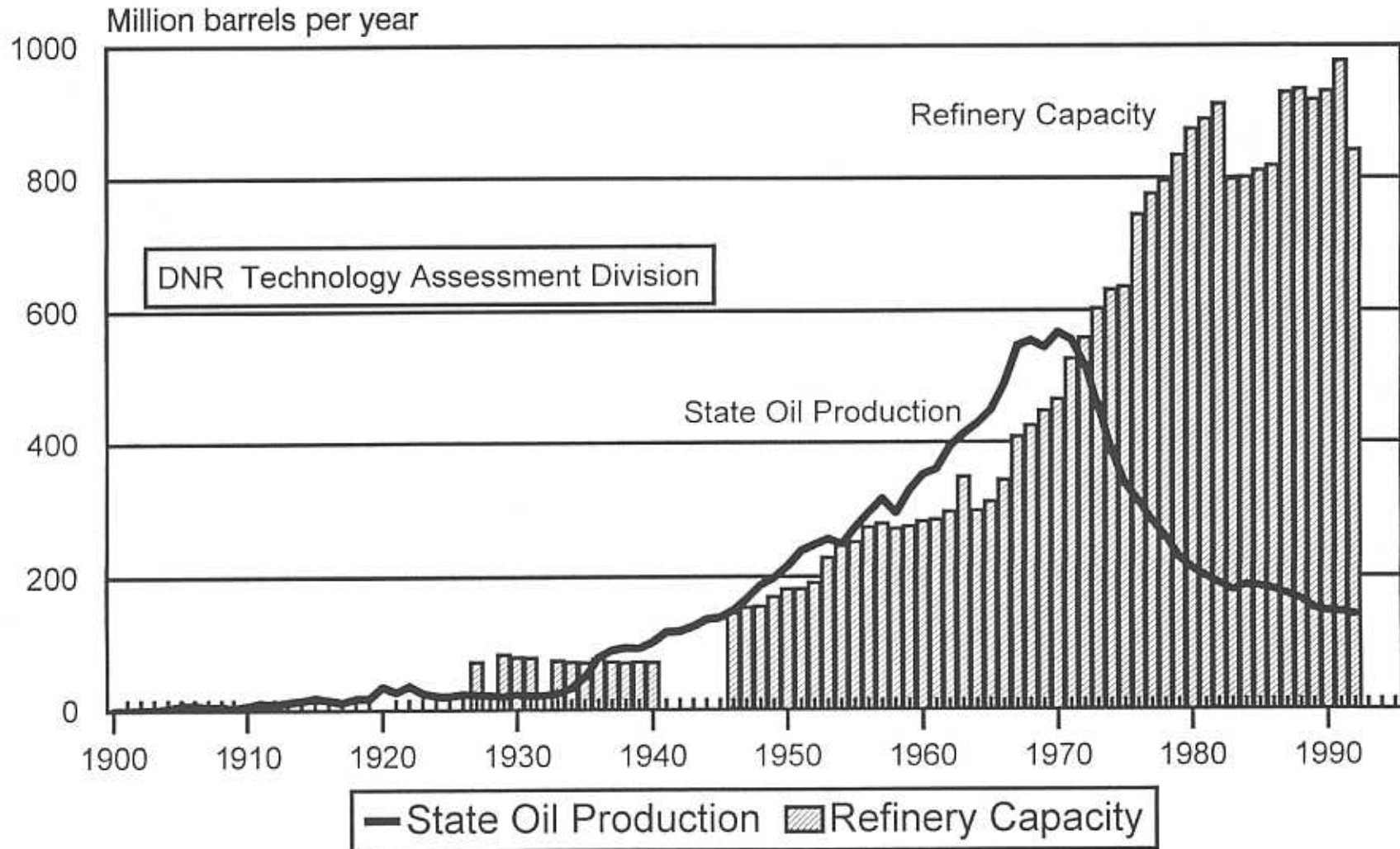
# REFINERY OPERATING RATES (%)

## 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; 9/93; Table H2

# LOUISIANA OIL PRODUCTION AND REFINERY OPERABLE CAPACITY



Source: Oil Production DNR Database  
 Refinery Capacity - Through 1989, LSU-CES Louisiana Historical Energy Database  
 1990-1992 DOE, EIA Petroleum Supply Annual, Vol 1, Table 38

**LOUISIANA OPERATING REFINERIES  
MAILING ADDRESSES & CONTACT LIST**  
October 1993 DNR Technology Assessment Division Survey

NAME	MAILING ADDRESS	CONTACTS	TELEPHONE
Atlas Processing Co. – Div. Pennzoil	Box 3099 Shreveport, LA 71113	Mike Wion, 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, Ref. Engrn.	(318) 949–2421
Canal Refining Co.	Box 8 Church Point, LA 70525	Arron Hornsby, Ref. Mgr. Hubert Vidrine, Qual. Contr. 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) 491–5211
Dubach Gas Co./Claiborne Plant	Box 170 Lisbon, LA 70148	Jack Hall, 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. Chuck Morgan, Ch. Engrn.	(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	Peyton Smith, Acting Plt. Mgr. Shane Teal, Tech. Dir.	(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. Svcs. 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 Mereaux, LA 70075	Ernie Cagle, Plt. Mgr. Thomas Johnston, Mgr. Tech. Svcs.	(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. Gary Fuller, Ref. Mgr.	(504) 387–0278
Shell Oil Co.	Box 10 Norco, LA 70079	P.B. Schwin, Plt. Mgr. T.A. Kirkley, Supt. Refng.	(504) 465–7111
Star Enterprise	Box 37 Convent, LA 70723	Ron Anderson, Plt. Mgr. Pat Rainey, Spvsnr. Opr. & Plnng.	(504) 562–7681

# LOUISIANA OPERATING REFINERY LOCATIONS

October 1993 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 PERCENT PRODUCT SLATE**  
 October 1993 DNR Technology Assessment Division Survey

NAME	OPERATING CAPACITY As of June 30, 1993	IDLE CAPACITY	OPER- ATING RATE%	% OF TOTAL PRODUCT SLATE												
				GASOLINE			OTHER FUELS			MISCELLANEOUS			OTHER PRODUCTS			
				MID- REG GRADE	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	84.8	13.8	1.6	1.7	22.9	13.7	0.0	0.0	4.9	7.4	18.4	9.7	1.9	4.0
B. P. Oil Co./Alliance Refinery	222,764	5,736	100.0	30.1	5.2	10.7	30.2	8.2	0.0	1.7	0.0	0.0	Lubes/Motor Oil 3.3	Cat Feed 3.3	Waxes 1.3	6.0
Calcasieu Refining Company	13,500	0	88.7	0.0	0.0	0.0	21.2	58.6	0.0	3.4	2.7	13.3	Coke 0.8	Aromatics 0.0	Intermediates 0.0	0.0
Calumet Lubricants Co., L.P.	6,500	500	93.1	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	Fuel Gas 75.0	22.0	0.0	0.0
Canal Refining Co.	10,000	0	71.8	20.0	3.0	7.0	50.0	0.0	0.0	0.0	0.0	20.0	Lube Oil 0.0	Asphalt 0.0	0.0	0.0
CITGO Petroleum Corp.	295,000	0	90.5	25.3	4.8	19.2	15.5	14.5	0.0	2.7	0.0	0.0	7.0	3.4	2.4	5.2
Conoco Inc./Lake Charles Refinery	178,000	0	97.4	20.0	2.2	4.4	29.7	16.9	8.9	3.2	4.3	0.0	Coke 9.1	Lubes Petrochemicals 0.0	0.0	1.3
Dubach Gas Co./Claiborne Plant	8,500	0	71.8	30.0	0.0	0.0	12.0	0.0	20.0	7.0	8.0	0.0	Coke 23.0	0.0	0.0	0.0
Dubach Gas Co./Dubach Plant	10,000	0	66.9	0.0	52.5	0.0	0.0	19.7	0.0	10.4	6.1	0.0	7 Solvents 11.3	0.0	0.0	0.0
Exxon Co. U.S.A.	421,000	0	89.4	24.1	6.4	10.4	16.0	11.4	2.3	1.9	0.8	4.1	Gas Oil 11.6	4.2	2.9	3.9
Gold Line Refining, Ltd.	15,000	5,000	94.5	0.0	0.0	0.0	23.0	55.9	5.3	1.8	0.0	0.0	Chem. Fdstck 12.0	Internal Fuels 0.0	Lube Oil 0.0	2.0
Kerr-McGee Refining Corp.	7,800	0	64.1	0.0	0.0	0.0	12.0	0.0	0.0	0.0	41.0	0.0	Lube Oil 28.0	19.0	0.0	0.0
Marathon Oil Co.	255,000	0	83.8	43.1	1.5	6.5	0.0	1.8	29.1	4.2	0.8	12.7	Gas Oil 0.3	Straight Run 0.0	0.0	0.0
Mobil Oil Corp./Chalmette Refinery	160,000	0	98.3	31.1	0.7	13.5	0.0	9.1	22.4	2.9	0.5	9.3	Sulfur 4.9	3.9	1.3	0.4
Murphy Oil U.S.A. Inc./Meraux Ref.	95,000	0	82.7	38.1	3.6	8.3	21.7	12.8	12.6	2.2	0.0	0.0	Refinery Fuel 0.5	Aromatics 0.0	Gas Oil 0.0	0.0
Phibro Energy U.S.A./Krotz Springs	60,000	0	86.3	26.8	1.4	2.8	12.9	15.2	0.0	1.2	12.1	4.2	Gas Oil 19.9	3.3	0.2	0.0
Phibro Energy U.S.A./St. Rose	37,000	3,000	83.1	0.0	0.0	0.0	14.5	11.2	0.0	0.0	15.5	20.0	Gas Oil 38.3	Lt.St. Run Gas 0.5	Fuel Gas 0.0	0.0
Placid Refining Co.	47,000	0	100.0	23.6	0.0	9.5	29.4	11.9	5.3	5.0	0.0	0.0	Gas Oil 15.3	Lt.St. Run Gas 0.0	0.0	0.0
Shell Oil Co.	215,000	0	97.0	33.1	7.7	17.8	0.0	16.6	1.0	4.2	2.0	2.1	Subgrde Gasline 15.5	0.0	0.0	0.0
Star Enterprise	225,000	0	88.9	41.8	1.1	3.2	20.4	9.5	16.8	3.0	0.9	0.0	Cat Feed 0.8	0.6	0.0	1.9
WEIGHTED STATE AVERAGE %*			91.2	29.1	3.9	10.1	15.2	11.8	8.1	2.8	1.7	3.6	Sulfur 8.2	Gas Oil 2.2	1.1	2.4
TOTAL LA OPERATING CAPACITY	2,328,264															

NOTE: All data are for the twelve month period ending June 30, 1993. It 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.  
 \* Individual product percentage components may not total 100% because of independent rounding.



**LOUISIANA NON-OPERATING REFINERIES  
MAILING ADDRESSES & CONTACT LIST**  
October 1993 DNR 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.	101 Old Ferry Road Egan, LA 70531	James Hughes, Owner George Yasmine, Owner	(318) 783-1057
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. Joey Webb, Facilities Mgr.	(318) 783-2624
Petroleum Fuel & Terminal	Box T Garyville, LA 70051	Claude Phelps, Plt. Mgr. Will Louque, Term. Spvrs.	(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. Suite 1435 New Orleans, LA 70130	John Pender, Bkrptcy. Trste.	(504) 581-2024
Tina Resources, Inc.	Box 711 Eastland, TX 76448	Leslie Vance, President	(817) 629-3662
TransAmerican Refining Co.	Box 537 Norco, LA 70079	Gary Karr, Plt. Mgr. John Stanley, Administrator	(504) 764-8611
	TransTexas Natural Gas Corp. 363 N. Sam Houston Pkwy. East Suite 1900 Houston, TX 77060	Jack Stanley, CEO	(713) 447-3111



**LOUISIANA NON-OPERATING REFINERIES**  
**PHYSICAL LOCATIONS, LAST KNOWN CRUDE CAPACITY (barrels/calendar day), LAST OPERATED, AND STATUS**  
 October 1993 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	NONE	No plans to reopen. Some process equipment has been sold.
Britt Processing & Refining Co.	Egan, I-10 exit 72; then 2mi. south on Old Ferry Road.	10,000	9/87	Crystal Refining, Inc.	Seeking financing to reopen.
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	Financing for purchase by Sabine Gas Operators still being sought. Improvements already made to increase capacity to 22,000 bcd.
Laidlaw Environmental Services (Recovery), Inc./Jennings	3-1/2mi. 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.	Potential purchaser has option to buy all equipment & remove it from site by 12/31/93.
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 can only process residual oil. DEQ* permits maintained.
Sabine Gas Operators, Inc.	Stonewall, 1/4 mi.south on west side of U.S.171.	10,000	8/85	Port Petroleum	Financing to reopen has been secured. Target date for start up is 1/15/94.
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. Vacuum unit already sold. Several prospects interested pending final environmental cleanup order by DEQ*.
Tina Resources, 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.	Being evaluated by several prospects for possible acquisition.
TransAmerican Refining Co.	Norco, 257 Prospect Ave.	300,000	7/82	GHR Energy Corp./ Good Hope Refinery	MTBE and Coker unit to be operational late 1994. Refinery to reopen 4th quarter 1994. Invested \$10 million in 1993 and will spend \$25 million more in 1994.

\* DEQ: Louisiana Department of Environmental Quality

U. S. DEPARTMENT OF ENERGY  
 CAPACITY OF LOUISIANA OPERABLE PETROLEUM REFINERIES  
 AS OF JANUARY 1, 1993  
 (Barrels per Stream Day, Except Where Noted)

Refinery/Location	Atmospheric Crude Oil Distillation Capacity				Downstream Charge Capacity							
	Barrels per Calendar Day		Barrels per Stream Day		Vacuum Distillation	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)	223,300	0	228,500	0	72,000	21,500	0	0	94,900	2,000	0	40,000
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	6,443	0	6,000	0	0	0	0	0	0	0
Canal Refining Co. Church Point	9,500	0	10,000	0	0	0	0	0	0	0	1,900	0
Citgo Petroleum Corp. Lake Charles	305,000	0	320,000	0	75,000	94,000	0	0	150,000	0	86,000	20,000
Conoco Inc. Westlake	175,000	0	179,000	0	79,000	62,000	0	12,000	44,500	0	13,000	17,000
Dubach Gas Co. Dubach	8,500	0	9,000	0	0	0	0	0	0	0	3,000	0
	8,000	0	9,000	0	0	0	0	0	0	0	2,000	0
Lisbon												
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. Lake Charles	27,600	0	30,000	0	9,500	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 Oil Co. Garyville	255,000	0	263,000	0	125,000	0	0	0	95,000	0	45,000	0
Mobil Oil Corp. Chalmette	170,000	0	177,800	0	92,500	33,000	0	0	63,000	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 Producing Co. Shreveport	48,200	0	50,000	0	0	0	0	0	0	0	6,500	0
Phibro Energy U.S.A. Inc. Krotz Springs	60,000	0	61,500	0	22,000	0	0	0	28,000	0	0	12,000
	40,000	0	45,000	0	18,000	0	0	0	0	0	0	0
Saint Rose												
Placid Refining Co. Port Allen	48,500	0	49,500	0	20,000	0	0	0	19,000	2,000	10,000	0
Shell Oil Co. Norco	215,000	0	220,000	0	78,000	21,000	0	108,000	85,000	0	38,000	16,000
Star Enterprise Convent	225,000	0	242,500	0	98,500	0	12,000	0	85,000	5,000	0	40,000
<b>1992 LOUISIANA TOTALS</b>	<b>2,358,900</b>	<b>0</b>	<b>2,461,243</b>	<b>0</b>	<b>918,500</b>	<b>321,500</b>	<b>12,000</b>	<b>120,000</b>	<b>890,400</b>	<b>11,500</b>	<b>307,400</b>	<b>203,000</b>

MMcfd = Million cubic feet per day

Source: Energy Information Administration/Petroleum Supply Annual 1992, Volume 1, Table 38  
 (Released for Printing May 26, 1993)

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	40,000	22,000	25,300	0	38,000	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	6,000	0	0	960	0	0	0	5,000	5	0	2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45,000	0	116,000	28,000	25,000	0	23,000	0	4,000	0	28,000	9,000	0	22,500	690	
0	0	33,000	110,500	12,000	0	7,500	0	0	0	0	0	0	18,250	390	
0	0	0	0	0	0	0	0	0	400	0	0	1	0	0	
0	0	0	0	0	0	0	0	0	0	2,000	0	0	0	0	
24,000	0	95,000	59,000	21,500	0	33,200	12,000	0	0	12,500	14,000	19	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	40,000	0	12,000	10,000	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	8,000	0	1,200	0	0	0	0	0	0	8,000	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	
38,000	70,000	29,000	0	28,000	0	16,000	0	0	0	0	0	70	5,000	207	
50,000	0	40,000	69,500	32,500	0	14,500	0	0	0	12,500	0	63	0	728	
175,000	192,900	507,000	368,000	151,500	35,000	191,700	84,960	19,000	13,900	65,000	36,000	228	81,400	3,465	