

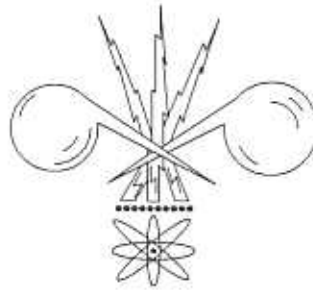
LOUISIANA CRUDE OIL REFINERY SURVEY REPORT

February 1992 Survey

By

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LOUISIANA DEPARTMENT OF NATURAL RESOURCES
Jack McClanahan
Secretary of Natural Resources

Baton Rouge
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FOREWORD

Since 1989 the Technology Assessment Division of the Louisiana Department of Natural Resources has conducted an annual telephone survey of Louisiana crude oil refineries. The last survey was taken in October 1990. The results of the survey are compiled into a technical report focusing on developments that have occurred since the previous survey. These include a 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 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 June 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 February 1992 instead of June 1991. Hopefully, subsequent surveys and reports will be published on a more regular schedule.

The Department of Natural Resources uses the information in the report to assist 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, and providing information to parties evaluating refineries for possible purchase.

EXECUTIVE SUMMARY

In February 1992 the Technology Assessment Division conducted its third telephone survey of Louisiana's crude oil refineries. Respondents report their primary near term focus is to implement strategies to cope with the November 1, 1992 deadline for producing the cleaner-burning, oxygenated gasoline mandated by the 1990 Clean Air Act Amendments (CAA). The secondary focus is to prepare for the October 1, 1993 deadline for producing low sulfur diesel fuel.

Larger refineries have already completed or are presently implementing major projects to comply with the new CAA requirements. Most small refineries, generally defined as those with an operating capacity of less than 50,000 barrels per calendar day (bcd), are concentrating on "niche" markets with a product mix that is minimally subject to the CAA mandated fuel formulation standards. Five of the ten operating small refineries do not produce any gasoline, and two presently closed 10,000 bcd refineries scheduled to be reactivated this year will not produce gasoline either. Most of the eight small refineries that produce diesel fuel are still evaluating their options as few have indicated any specific plans to reduce the sulfur content by the CAA deadline .

Since our October 1990 survey there have been several changes in name, ownership, operator, product slate, and operating capacity of individual refineries. Although there have been some major changes in product slate among individual refineries, the total weighted State product slate percentages have changed very little except for leaded gasoline, which is no longer in production.

While there have been some fairly substantial increases in individual refinery operating capacity, the total Louisiana operating capacity increased only 3% from 2,248,200 bcd to 2,315,000 bcd. Louisiana ranks second, after Texas, in refining capacity among the 50 states. The weighted State average capacity utilization rate declined from 92.0% to 89.3% mostly due to extended turnarounds at the CITGO and Murphy Oil refineries.

Nationally, refinery capacity is being reduced as a result of sluggish demand, high operating costs relative to overseas, and environmental regulations. This could result in higher operating rates and better profit margins for Louisiana refineries, but this remains to be seen as Louisiana refineries are subject to the same economic pressures as other domestic refineries and might also reduce capacity at some point.

DISCUSSION

Most respondents to our February 1992 refinery survey say their main focus is on devising and implementing strategies to cope with the impending deadlines associated with the provisions of the 1990 Clean Air Act Amendments (CAA) that apply to the formulation of gasoline and diesel fuel.

By November 1, 1992, the CAA mandates the use of cleaner-burning gasoline during the winter months in 41 cities that exceed federal ambient air standards for carbon monoxide. The gasoline must contain 2.7% oxygen by weight. According to **Chemical Engineering Magazine** (Fuel Oxygenates: Demand Outpaces Supply, October 1991, p.57), this requirement will affect 25-30% of the total U.S. gasoline pool at that time compared to only 2% at the time of publication. While no Louisiana cities are included in this list, Louisiana refineries do provide a substantial amount of gasoline in markets outside Louisiana.

By October 1, 1993, the CAA mandates that the sulfur content of diesel fuel shall not exceed 0.05% by weight. This requirement applies to all diesel fuel sold in the U.S.

Factors influencing the response to the CAA requirements by individual refineries include the existing process configuration, size, location, marketing strategy, and financial resources. Those refineries already using oxygenates for gasoline octane enhancement do not face the same magnitude of capital expenditure to meet the CAA requirements.

Generally, the larger refineries have responded to the CAA by instituting major process reconfiguration projects. These include new oxygenate production units, blending facilities, and diesel hydrotreating units. Some of these projects have already been completed and others are scheduled to be finished by the CAA deadlines.

Small refineries are another story. Some energy financial analysts, most notably Salomon Brothers, maintain that small refineries, generally defined as those with an operating capacity of less than 50,000 bcd, are too small to economically justify upgrading their process units and will go out of business.

Of the ten operating Louisiana refineries that fall into the "small refinery" category, the survey respondents were generally positive about their prospects. Many of them are reacting to the challenge by concentrating on "niche" markets with a product slate that is minimally subject to the new CAA mandated fuel formulations. Five of the ten do not produce gasoline for sale in the retail market, including the 12,000 bcd American International refinery at Lake Charles that was reactivated in 1991 and is now operated by Gold Line Refining, Ltd. under a lease agreement with American International. In fact, in a show of confidence in the financial prospects of small refineries, two presently closed 10,000 bcd refineries are scheduled to be reactivated this year, but neither one will produce gasoline. They are the Crystal Refining, Inc. refinery at Egan, purchased by Britt Processing & Refining Co., and the Sabine Gas Operators, Inc. refinery at Stonewall.

As for the five small refineries that do produce gasoline, they will continue to market it in Louisiana as they always have since the CAA does not require the use of oxygenated gasoline anywhere in Louisiana at this time.

While eight small refineries produce diesel fuel, few have divulged specific plans to make the necessary process changes that would reduce the sulfur content to the CAA

mandated level by the October 1, 1993 deadline. Since this deadline is not imminent, there is still some time to develop a strategy.

Since our October 1990 survey there have been several changes in name, ownership, operator, product slate, and operating capacity of individual refineries. These are noted in the tables that follow. We were unable to make contact with the closed refineries of Cameron Resources, CAS Refining, and Evangeline Refining Co., so any information in this report on these three refineries came from the October 1990 survey.

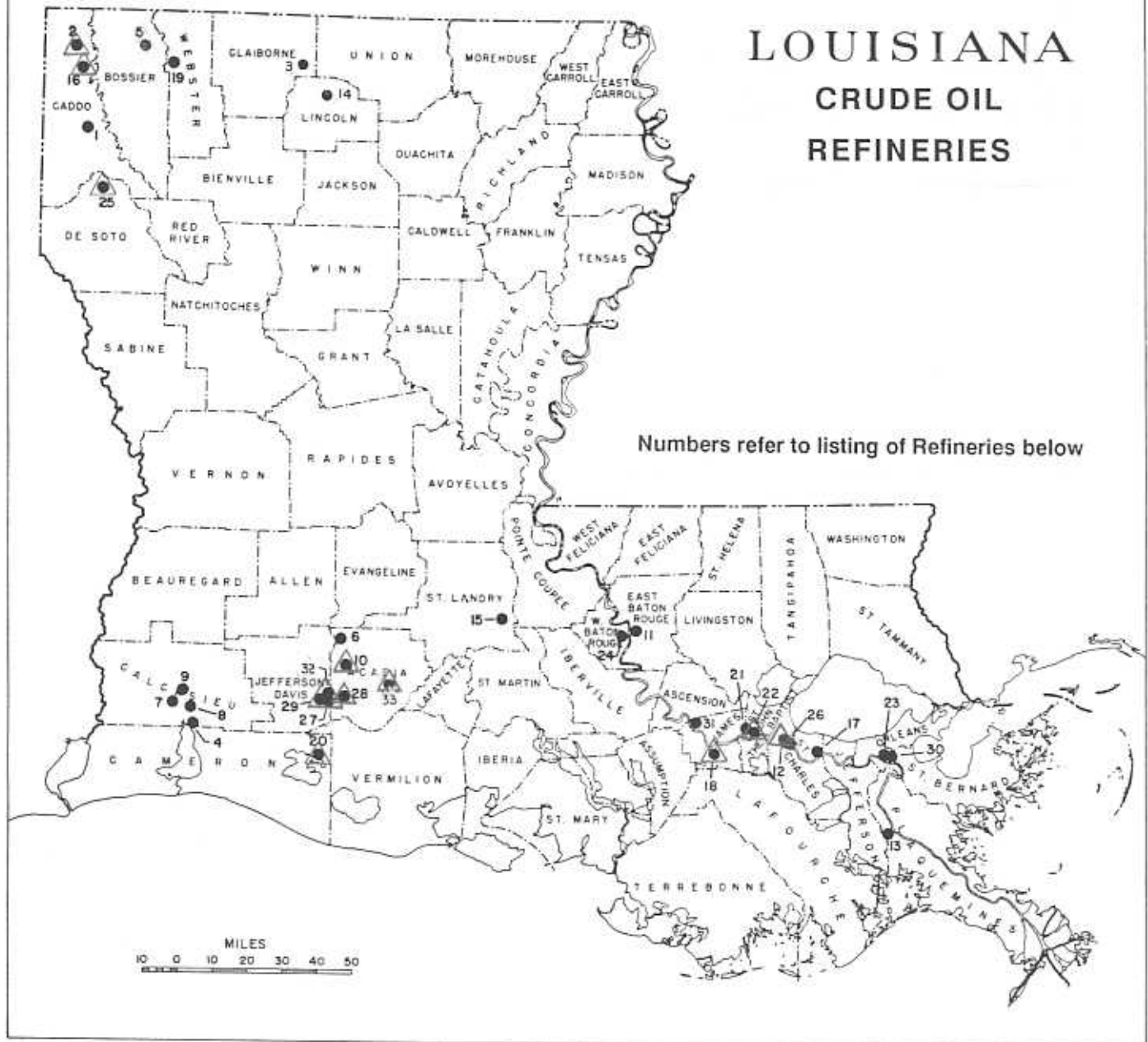
Although there have been some major changes in product slate among individual refineries, the total weighted State product slate percentages have changed very little except for leaded gasoline, which is no longer being produced.

Total Louisiana refinery operating capacity increased 3% from 2,248,200 bcd to 2,315,000 bcd. Several small refineries had much larger percentage increases. Among the 50 states Louisiana ranks second only to Texas in refinery capacity. Extended turnarounds at the CITGO and Murphy Oil refineries, two of the State's larger refineries, caused the weighted State average capacity utilization rate to decline slightly from 92.0% to 89.3%.

In closing, the overall operating statistics reported for this survey are not much different from the October 1990 survey, suggesting that the CAA and other regulations have yet to affect the day-to-day operations of Louisiana refineries. As current projects come on line and new strategies evolve, this will change. Nationally, the domestic refining industry is beset by economic and regulatory pressures that make it difficult to operate at an acceptable profitability. Refinery capacity is being reduced because of sluggish demand, high operating costs relative to overseas, and environmental regulations. This could result in higher operating rates and better profit margins for Louisiana refineries, but this remains to be seen as Louisiana refineries are subject to the same business pressures as other domestic refineries and might also reduce capacity at some point.

LOUISIANA CRUDE OIL REFINERIES

Numbers refer to listing of Refineries 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
- 11 Exxon Co. U.S.A.
- 13 B. P. Oil Co.
- 14 Dubach Gas Co./Dubach
- 15 Phibro Energy U.S.A./Krotz Springs
- 17 Phibro Energy U.S.A./St. Rose
- 19 Kerr-McGee Refining Corp.
- 21 Marathon Oil Co.
- 23 Murphy Oil U.S.A. Inc./Meraux Ref.
- 24 Placid Refining Co.
- 26 Shell Oil Co.
- 30 Mobil Oil Corp./Chalmette Refinery
- 31 Star Enterprise



▲ NON-OPERATING REFINERIES

- 2 Bayou State Oil Corp.
- 10 Evangeline Refining Co.
- 12 TransAmerican Refining Co.
- 16 Ida Gasoline Co., Inc.
- 18 Texas NAPCO, Inc.
- 20 Cameron Resources
- 22 Petroleum Fuel & Terminal Co.
- 25 Sabine Gas Operators, Inc.
- 27 Shepherd Oil Co.
- 28 Britt Processing & Refining Co.
- 29 CAS Refining
- 32 Laidlaw Environmental Services/Jennings
- 33 Laidlaw Environmental Services/Crowley

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

NAME	MAILING ADDRESS	CITY	STATE	ZIP	PRIMARY CONTACT	SECONDARY CONTACT	AREA CODE	TELEPHONE
Atlas Processing Co. - Div. Pennzoil	Box 3099	Shreveport	LA.	71133	George Thoreson, Plt. Mgr.	John Short, Accounting. Mgr.	318	636-2711
B. P. Oil Co./Alliance Refinery	Box 395	Belle Chasse	LA.	70037	Donald D. Ring, Ref. Mgr.	Roy Proctor, Opr. Mgr.	504	656-7711
Calcasieu Refining Company	Box 6026	Lake Charles	LA.	70606	Philip Nelson, Plt. Mgr.	Tom Prudhomme, Tech.Supt.	318	478-2130
Calumet Lubricants Co., L.P.	H-C 62, Box 460	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.	Bob Gillette, Plt. Engrn.	318	684-5421
CITGO Petroleum Corp.	Box 1562	Lake Charles	LA.	70601	Fred Foster, Gen. Mgr.	Joe Tallman, Engrng. Mgr.	318	491-6165
Conoco Inc./Lake Charles Refinery	Box 37	Westlake	LA.	70669	David Myers, Plt. Mgr.	Ron Armstrong, Ch. Prcs. Engrn.	318	491-5230
Dubach Gas Co./Claiborne Plant /Dubach Plant	Box 170 Rt. 2, Box 1-3EE	Lisbon Dubach	LA. LA.	70148 71235	Roy Dancy, Plt. Mgr. Jack Hall, Plt. Mgr.	Chuck Morgan, Ch. Engrn. Ron Palcuict, Mgr. LA. Opr.	318 318	353-2283 777-3416
Exxon Co. U.S.A.	Box 551	Baton Rouge	LA.	70821	Ed Galante, Plt. Mgr.	Keith Baugher, Prcs. Mgr.	504	359-7711
Gold Line Refining, Ltd.	P. O. Drawer 16866	Lake Charles	LA.	70616	Frank Delangel, Plt. Mgr.	None	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, Plt. Mgr.	Jerry Welch, Ch. Engrn.	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	James A. Gesick, Plt. Mgr.	Ernie Cagle, Mgr. Tech. Svcs.	504	271-4141
Phibro Energy U.S.A./Krotz Springs /St. Rose	Box 453 Box 630	Krotz Springs St. Rose	LA. LA.	70750 70087	Ralph Youngblood, V.P.LA Opr. Ralph Youngblood, V.P.LA Opr.	John Edmunds, Mgr. Tech. Svcs. Gary Louque, Maint. Mgr.	318 504	566-2301 465-0044
Placid Refining Co.	2940 La. Hwy. #1 North	Port Allen	LA.	70767	Dale Emanuel, Plt. Mgr.	Keith Passman, Mgr. Prcs. Engrng.	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.	Mike Ballanger, Opr. Spvsr.	504	562-7681

LOUISIANA OPERATING REFINERY LOCATIONS

February 1992 DNR Technology Assessment Division Survey

Refinery	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	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 3/4mi.
Kerr-McGee Refining Corp.	Cotton Valley, east side of La.7 South at city limits.
Marathon Oil Co.	Garyville, 2mi. 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	Krotz Springs La.105 South in town.
Phibro Energy U.S.A./St. Rose	St. Rose, 27009 River Rd. Right 2mi. 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.

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

NAME	OPERATING CAPACITY*	IDLE CAPACITY	OPER RATE %	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	85.20	8.7	1.5	1.3	24.0	14.1	0.0	0.0	5.0	7.7	20.1	8.4	1.9	7.3
B. P. Oil Co./Alliance Refinery	220,000	8,000	98.00	30.0	8.0	7.0	28.0	14.0	0.0	1.7	0.7	0.1	Lubes/Motor Oil	Cat Feed	Waxes	3.9
Calcasieu Refining Company	13,500	0	90.00	0.0	0.0	0.0	19.8	63.7	8.6	3.8	3.5	0.0	3.2	1.9	1.5	0.0
Calumet Lubricants Co., L.P.	5,800	200	70.20	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	Aromatics	Crbn Blk Fdstck	Intermediates	0.0
Canal Refining Co.	8,500	1,500	70.00	21.0	3.0	7.0	48.0	0.0	0.0	0.0	0.0	21.0	0.6	0.0	0.0	0.0
CITGO Petroleum Corp.	295,000	0	75.60	25.2	8.9	18.6	11.8	15.8	2.0	3.3	0.0	0.0	Fuel Gas			0.0
Conoco Inc./Lake Charles Refinery	173,000	0	98.50	25.2	3.1	6.4	37.7	12.4	7.1	2.7	1.3	0.4	75.0	22.0	0.0	0.0
Dubach Gas Co./Claiborne Plant	8,500	0	89.20	25.0	0.0	0.0	15.0	0.0	20.0	0.0	0.0	0.0	Lube Oil	Asphalt		0.0
Dubach Gas Co./Dubach	10,000	0	72.20	0.0	55.0	0.0	0.0	22.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
Exxon Co. U.S.A.	421,000	0	95.00	24.0	7.0	10.0	19.0	12.0	2.0	2.0	1.0	4.0	2.2	4.2	8.0	0.0
Gold Line Refining, Ltd.	12,000	8,000	60.00	0.0	0.0	0.0	23.0	58.0	5.0	0.0	0.0	0.0	Lubes	Petrochemicals	Misc.	0.1
Kerr-McGee Refining Corp.	7,800	0	85.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.0	0.0	3.0	0.6	0.0	0.0
Marathon Oil Co.	255,000	0	82.30	43.4	3.5	6.1	0.0	2.3	31.1	2.7	0.0	8.8	Minor Products	Sulfur		0.0
Mobil Oil Corp./Chalmette Refinery	160,000	0	92.00	26.4	14.2	5.4	19.3	8.8	0.0	3.1	4.3	2.5	40.0	0.0	0.0	0.0
Murphy Oil U.S.A. Inc./Meraux Ref.**	95,000	0	79.20	37.1	3.1	6.8	22.7	15.0	13.3	2.0	0.0	0.0	7 Solvents			0.0
Phibro Energy U.S.A./Krotz Springs	59,700	300	99.50	16.0	2.0	2.0	15.0	19.0	0.0	1.0	14.0	9.0	20.0	0.0	0.0	0.0
Phibro Energy U.S.A./St. Rose	37,000	3,000	92.50	0.0	0.0	0.0	11.0	8.0	0.0	0.0	11.0	33.0	Gas Oil	Lt.St. Run Gas		0.0
Placid Refining Co.	47,000	0	99.90	27.6	1.9	6.7	28.6	10.8	5.4	4.4	0.6	0.0	3.0	0.0	0.0	0.0
Shell Oil Co.	215,000	0	84.00	21.0	8.0	13.0	0.0	16.0	1.0	3.0	3.0	0.0	Gas Oil			0.0
Star Enterprise	225,000	0	97.50	35.0	1.0	2.0	20.0	10.0	14.0	3.0	0.0	0.0	6.2	6.7	0.0	1.1
WEIGHTED STATE AVERAGE %			89.30	26.1	5.9	9.8	16.4	12.9	6.7	2.4	1.8	2.9	Gasohol Blend	Subgrade Blend		0.5
TOTAL LA OPERATING CAPACITY	2,315,000												35.0	0.0	0.0	0.0
													Cat Feed			0.0
													7.0	8.0	0.0	0.0
													Fuel Gas	Misc. Feedstock		0.0

* The operating rates are for the twelve month period ending January 31, 1992. They may differ slightly from the January 1991 U.S. Department of Energy Refinery Report and operating rates reported elsewhere.
 ** Individual product percentages recomputed from percent of crude input to percent of total product slate

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

NAME	MAILING ADDRESS	CITY	STATE	ZIP	PRIMARY CONTACT	SECONDARY CONTACT	AREA CODE	TELEPHONE
Bayou State Oil Corp.	P. O. Drawer 2147	Shreveport	LA.	71166	Ellis Brown, V.P. Oper.	None	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 Resources*	2800 N. Loop West, Suite 416	Houston	TX.	77092	Danny R. Edwards	None		No listing
CAS Refining*	Box 1426	Jennings	LA.	70546	Raleigh Boudreau	Denis Gracey	318	824-7230
Evangeline Refining Co.*	Box 1277	Jennings	LA.	70546	J. B. McBurney	None		No listing
Ida Gasoline Co., Inc.	7558 Belcher-Oil City Road	Belcher	LA.	71004	Pete Skamangas, Plt. Mgr.	Gary Northen, Accountant	318	995-7167
Laidlaw Environmental/Crowley /Jennings	Box 283 Box 283	Crowley Crowley	LA. LA.	70526 70526	Mike Sanderock, Plt. Mgr. None	Leonard Dupis, Opr. Mgr. None	318 318	783-2624 824-4707
Petroleum Fuel & Terminal Co.	Box T	Garyville	LA.	70051	Claude Phelps, Plt. Mgr.	Greg Bryan, Term. Spvsr.	504	535-6256
Sabine Gas Operators, Inc.	2285 Benton Road	Bossier City	LA.	71166	Bob Simmons, Plt. Mgr.	Steve Wooley, Ch. Engrn.	318	747-7774
Shepherd Oil Co.	Box 389	Jennings	LA.	70546	Rudy Folgeman, Plt. Mgr.	Lewis Shueman, Ch. Engrn.	318	824-4180
Texas NAPCO, Inc.	228 St. Charles Ave., Suite 1435	New Orleans	LA.	70130	John Ponder, Bkrptcy Trst.	None	504	581-2024
TransAmerican Refining Co.	Box 537	Norco	LA.	70079	Gary Karr, Plt. Mgr.	John Stanley, Administrator	504	764-8611

*Information obtained from October 1990 survey.
Unable to make contact to verify for February 1992 survey.

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

NAME	PHYSICAL LOCATION (NEAREST CITY)	LAST KNOWN OPERATING CAPACITY	PREVIOUS NAME*	NEW DEVELOPMENTS
Bayou State Oil Corp.	Hosston, U.S.71 North at junction La.2 West.	3,000	SAME	No immediate plans to reopen.
Britt Processing & Refining Co.	Egan, I-10 exit 72; then 2mi. south on Old Ferry Road.	10,000	Crystal Refining, Inc.	To be reactivated by end of 1992.
Cameron Resources	Cameron Parish, La.26 South at Intercoastal Waterway.	7,400	SAME	Unable to make contact.
CAS Refining	Jennings, U.S.90 East, 1mi.	14,800	SAME	Unable to make contact.
Evangeline Refining Co.	Evangeline, La.97 North.	4,500	SAME	Unable to make contact.
Ida Gasoline Co., Inc.	Belcher, 3mi. west of Belcher on north side of La.2.	0	SAME	Operating as a gasoline blending plant. No distillation capacity.
Laidlaw Environmental Services (Recovery), Inc./Crowley	Crowley, I-10 exit to La.1111, north to La.1112, left 3/4mi.	0	SAME	Operating as a recycle oil facility and hazardous waste fuel blender. No distillation capacity.
Laidlaw Environmental Services (Recovery), Inc./Jennings	Jennings, north side of U.S. 90 East 3mi. west of Mermentau.	15,000	GSX Recovery Systems	Refinery for sale.
Petroleum Fuel & Terminal Co.	Mt. Airy, exit Gramercy on La.20 to La.44(River Rd.)jct. Left 2mi.	23,000	Clark Oil & Refining/ Mt. Airy Refinery	Terminal only in use.
Sabine Gas Operators, Inc.	Stonewall, 1/4 mi.south on west side of U.S.171.	10,000	SAME	Refinery to be reactivated by mid 1992.
Shepherd Oil Co.	Mermentau, 4mi.east of Jennings on north side of U.S.90 East.	0	BioCom USA, Ltd.	In bankruptcy. Refinery for sale. Previously produced ethanol from grains.
Texas NAPCO, Inc.	St. James, 7-1/2mi. south of Sunshine Bridge on La.18.	20,000	SAME	In bankruptcy. Refinery for sale.
TransAmerican Refining Co.	Norco, 257 Prospect Ave.	300,000	SAME	MTBE unit planned for late 1992.

* Any change in name or ownership since the last survey, October 1990

U. S. DEPARTMENT OF ENERGY
 CAPACITY OF LOUISIANA OPERABLE PETROLEUM REFINERIES
 AS OF JANUARY 1, 1991
 (Barrels per Stream Day, Except Where Noted)

Refiner/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
American International Refinery Inc./ Lake Charles*	0	27,000	0	30,000	0	0	0	0	0	0	12,000	0
BP Oil Corp./Belle Chasse(Alliance)	218,000	0	222,000	0	70,000	18,000	0	0	90,000	2,000	0	36,000
Calcasieu Refining Co./Lake Charles	13,500	0	13,500	0	0	0	0	0	0	0	0	0
Calumet Lubricants Co. L.P./ Princeton	4,207	0	4,400	0	4,400	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
CAS Refining Co./Jennings	0	13,500	0	15,000	0	0	0	0	0	0	0	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
Claiborne Gasoline Co./Lisbon	7,500	0	7,700	0	0	0	0	0	0	0	2,000	0
Conoco Inc./Westlake	159,500	0	167,000	0	63,000	60,000	0	12,000	42,500	0	12,000	16,000
Dubach Gas Co./Dubach	8,500	0	9,000	0	0	0	0	0	0	0	0	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
Hill Petroleum Co./ Krotz Springs	57,500	0	60,000	0	24,000	0	0	0	28,000	0	0	10,400
St. Rose	34,000	0	35,000	0	18,000	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	90,000	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	35,000	2,500	23,000	0
Pennzoil Products Co./Shreveport	46,200	0	50,000	0	24,300	0	0	0	0	0	0	5,000
Placid Refining Co./Port Allen	46,000	0	47,000	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	106,700	0	0	38,000	16,000
Star Enterprise/Convent	225,000	0	240,000	0	75,000	0	12,000	0	85,000	5,000	0	40,000
Trans-America 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	2,286,707	340,500	2,388,900	395,000	1,132,200	310,000	152,000	118,700	895,500	11,500	313,900	216,400

* Reported no inputs during 1990. MMcfd = Million cubic feet per day

Source: Energy Information Administration/Petroleum Supply Annual 1990, Volume 1, Table 38
 (Released for Printing May 30, 1991)

NOTE: Since the above table was published by the U. S. Department of Energy in June 1991, our February 1992 telephone survey has disclosed the following changes in name, ownership or operator:
 1. Gold Line Refining Ltd. is now operating the American International Refinery Inc. refinery at Lake Charles under a lease agreement with AIP.
 2. The Claiborne Gasoline Co. Lisbon refinery is now owned by Dubach Gas Co. and is designated as Dubach Gas Co./Claiborne Plant.
 3. The Hill Petroleum Co. refineries at Krotz Springs and St. Rose are now owned by Phibro Energy USA, Inc.

Downstream Charge Capacity (Cont.)						Production Capacity									
Catalytic Hydro-Cracking	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	12,000	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	42,000	22,000	32,000	0	28,000	0	8,000	0	0	0	40	3,500	45	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	4,400	0	0	0	0	0	910	0	0	0	3,490	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	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	0	0	0	0	0	0	0	0	2,000	0	0	0	0	
0	0	32,000	109,500	13,000	0	7,500	0	0	0	0	0	0	18,250	290	
0	0	2,000	0	0	0	0	0	0	100	120	0	1	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	561	
0	0	13,000	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	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	560	0	0	0	8,500	6	0	13	
0	0	10,000	0	0	5,000	4,000	0	0	0	0	0	0	0	8	
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	197,300	529,000	388,000	153,200	35,000	194,700	50,470	22,000	13,600	78,520	38,490	222	81,400	3,137	