

# HIGHLIGHTS OF THE 16<sup>TH</sup> EDITION OF THE LOUISIANA CRUDE OIL REFINERY SURVEY REPORT

by  
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The 16<sup>th</sup> edition of DNR's *Louisiana Crude Oil Refinery Survey Report* covers the 12-month period from July 1, 2006 to June 30, 2007. The survey shows that Louisiana refineries have recovered from the effects of Hurricanes Katrina and Rita; capacity, throughput, and operating rate numbers are up from pre-hurricane levels. Louisiana has 17 operating refineries with a combined capacity of 2,975,152 barrels per calendar day (bcd). The throughput for the 12-month period was 1,041,781,623 barrels, and the operating rate was 95.9%, up from 84.5% for last year's survey. See Table 1 for details. ExxonMobil has the most refining capacity in Louisiana as well as the largest single refinery.

Gasoline by far makes up the largest percentage of the product slate of Louisiana refineries. For this survey, even more so than usual; the percentage of regular gasoline in the combined product slate, typically in the upper 40s, increased to almost 70. See Table 2 for other top product percentages.

The phase-in of ultra low sulfur diesel (ULSD) continued without any major issues. There had been concerns over refineries abilities to meet the deadlines. As of June 1, 2006, 80% of refined on-highway diesel was required to be ULSD. ULSD was required to be available at retail outlets by October 15, 2006. By December 1, 2010, all refined diesel for on-highway use will be required to be ULSD.

Placid is going to expand its Port Allen refinery. The \$300 million investment will bring the facility's crude capacity up to 80,000 bcd, allow the processing of lower quality crudes, and increase its gasoline and diesel production capacity. Valero is planning a \$1.4 billion expansion of its Norco facility. The expansion includes a 50,000 bcd hydrocracker and an increase in the capacity of its crude and coker units. The project will result in an increase of gasoline and diesel production. Marathon's Garyville facility is about midway through its 180,000 bcd expansion with completion set for late 2009.

For comparison, data is also presented in the report from the *Oil and Gas Journal* 2007 Worldwide Refinery Report, and the Energy Information Administration Refinery Capacity Report. The data in these reports complement each other as well as the data from DNR's survey.

According to *Oil and Gas Journal* data, Louisiana maintains its second place ranking among the states in number and capacity of refineries. Texas is first and California is third. Louisiana refineries make up 16.7% of U.S. refining capacity. The ExxonMobil refinery in Baton Rouge is the second largest refinery in the U.S. and tenth largest in the world. Valero Energy, which owns two refineries in Louisiana, has the most refining capacity in the U.S.

The full report will be published in June, 2008, and will be available in hard copy and online in PDF format on the Department of Natural Resources Technology Assessment Division website ([http://dnr.louisiana.gov/sec/execdiv/techasmt/oil\\_gas/refineries/](http://dnr.louisiana.gov/sec/execdiv/techasmt/oil_gas/refineries/)). If you are currently on our mailing list as a subscriber to the report, a hard copy will be mailed to you automatically. If you would like your name added to our subscriber mailing list to receive a free copy of the current, as well as future editions, submit an email request to [techasmt@la.gov](mailto:techasmt@la.gov) (include your name and address, and specify which publication you are requesting), or contact Jan Janney at 225-342-1270.

Table 1. Louisiana Operating Refinery Capacity and Throughput

Refinery	Operating Capacity as of 6/30/07 (bcd)	Operating Capacity Change <sup>1</sup> (%)	Throughput 7/1/06 - 6/30/07 (barrels)	Throughput Change <sup>2</sup> (%)
Calcasieu Refining Co - Lake Charles	78,000	41.82	25,021,052	84.69
Calumet Lubricants Co LP - Cotton Valley	12,158	0.00	2,849,661	-5.60
Calumet Lubricants Co LP - Princeton	7,294	-11.95	2,585,295	-9.36
Calumet Shreveport LLC - Shreveport	40,000	-2.44	12,702,606	-15.13
Chalmette Refining LLC - Chalmette	196,000	0.00	62,353,600	18.64
Citgo Petroleum Corp - Lake Charles	429,500	-1.94	141,083,299	-4.53
ConocoPhillips - Belle Chasse	247,000	0.00	89,316,000	90.08
ConocoPhillips - West Lake	239,000	0.00	87,999,331	38.47
ExxonMobil Refining & Supply Co - Baton Rouge	503,000	0.40	182,390,500	8.16
Marathon Petroleum Co LLC - Garyville	255,000	0.00	93,067,210	7.08
Motiva Enterprises LLC - Convent	230,000	2.22	81,780,000	-0.42
Motiva Enterprises LLC - Norco	242,200	0.92	70,818,334	-2.91
Murphy Oil USA Inc - Meraux	120,000	0.00	38,656,055	356.42
Placid Refining Co - Port Allen	56,000	0.00	19,477,226	-0.04
Shell Chemical Co - St. Rose	55,000	0.00	17,983,390	0.22
Valero Refining Co - Krotz Spings	80,000	0.00	28,364,866	16.99
Valero Refining Co - Norco	185,000	0.00	85,332,803	-0.01
Totals	2,975,152	0.74	1,041,781,228	14.31

1. Change from end date (6/30/2006) of previous DNR survey to end date (6/30/2007) of current DNR survey.

2. Change from previous DNR survey throughput (7/2005 - 6/2006) to current DNR survey throughput (7/2006 - 6/2007).

Table 2. Top Products from LA Refineries by % of Product Slate

Product	Total Product Slate (%)
Regular gasoline	69.59
Diesel	9.07
Jet fuel/Kerosene	4.23
Fuel oil	2.33
Residual/Coke	2.42
Premium gasoline	1.42