



# LOUISIANA ENERGY FACTS ANNUAL



2022



Department of  
Natural Resources  
State Energy Office  
March 17, 2023



This issue of **Louisiana Energy Facts Annual - 2022** is funded 100% (\$XXXX) with Petroleum Violation Escrow funds as part of the State Energy Conservation Program as approved by the U.S. Department of Energy and the Department of Natural Resources.

This public document was published at a total cost of \$XXXX. XXX copies of this public document were published in this first printing at a total cost of \$XXXX. The total cost of all printings of this document, including reprints is \$XXXX. 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 pursuant to R.S. 43:31.

# LOUISIANA ENERGY FACTS

## ANNUAL 2022

Department of Natural Resources  
Thomas Harris  
Secretary of Natural Resources



Prepared by  
Edward L. O'Brien, III,  
Senior Economist

Technology Assessment Division/State Energy Office

P.O. Box 94396  
Baton Rouge, LA 70804-9396  
[E-mail: TECHASMT@la.gov](mailto:TECHASMT@la.gov)  
WEB: [www.dnr.louisiana.gov/tad](http://www.dnr.louisiana.gov/tad)

March 17, 2023

## General Questions and Comments

The **Louisiana Energy Facts Annual - 2022 (Annual)** was published by the Technology Assessment Division of the Louisiana Department of Natural Resources under the direction of Edward O'Brien. The division director is Jason Lanclos.

General questions and comments regarding the **Annual** may be referred to Technology Assessment Division staff at (225) 342-1270. Questions concerning specific areas of the **Annual** may be directed to the Technology Assessment Division staff members listed below.

Oil & gas production, drilling, revenue, reserves, prices, electric utilities, coal and lignite, and general energy statistics:

Edward O'Brien.  
Senior Economist  
(225) 342-8573  
E-mail: [Edward.OBrien@la.gov](mailto:Edward.OBrien@la.gov)

Additional copies of this document may be obtained by contacting:

Department of Natural Resources  
Technology Assessment Division  
P.O. Box 94396  
Baton Rouge, LA 70804-9396  
Phone: (225) 342-1270 FAX: (225) 342-1397  
E-mail: [TECHASMT@la.gov](mailto:TECHASMT@la.gov)  
Web: [www.dnr.louisiana.gov/tad](http://www.dnr.louisiana.gov/tad)

# Table of Contents

		Page
	Introduction	1
	2022 Highlights	3
<b>Table</b>		<b>Page</b>
	<b>PRODUCTION</b>	
<b>1</b>	Louisiana State Crude Oil Production (Excluding OCS)	<b>6</b>
<b>2</b>	Louisiana State Condensate Production (Excluding OCS)	<b>7</b>
<b>3</b>	Louisiana State Crude Oil and Condensate Production (Excluding OCS)	<b>8</b>
<b>4</b>	Louisiana and GOM Central Crude Oil and Condensate Production	<b>10</b>
<b>5</b>	Louisiana State Oil Production by Tax Rates as Published in Severance Tax Reports	<b>12</b>
<b>6</b>	United States OCS Crude Oil and Condensate Production	<b>13</b>
<b>7</b>	United States Crude Oil and Condensate Production and Imports	<b>14</b>
<b>8</b>	Louisiana State Royalty Oil, Gas and Plant Products Calculated Volumes (Excluding OCS)	<b>15</b>
<b>9</b>	Louisiana State Natural Gas Production, Wet After Lease Separation (Excluding OCS & Casinghead Gas)	<b>16</b>
<b>10</b>	Louisiana State Casinghead Gas Production, Wet After Lease Separation (Excluding OCS)	<b>17</b>
<b>11</b>	Louisiana State Gas Production, Wet After Lease Separation Natural Gas and Casinghead Gas (Excluding OCS)	<b>19</b>
<b>12</b>	Louisiana and GOM Central Gas Production, Wet After Lease Separation Natural Gas and Casinghead Gas	<b>20</b>
<b>13</b>	Gulf of Mexico Marketed Gas Production	<b>22</b>
<b>14</b>	Louisiana State Gas Production by Tax Rates as Published in Severance Tax Reports	<b>23</b>
<b>15</b>	United States OCS Gas Production Natural Gas and Casinghead Gas	<b>24</b>
<b>16</b>	United States Natural Gas and Casinghead Gas Production	<b>26</b>
	<b>PRICES</b>	
<b>17</b>	Louisiana Average Crude Oil Prices	<b>27</b>
<b>18</b>	United States Average Crude Oil Prices	<b>29</b>
<b>19</b>	Louisiana Natural Gas Wellhead Prices (MCF)	<b>30</b>
<b>19A</b>	Louisiana Natural Gas Wellhead Prices (MMBTU)	<b>31</b>
<b>20</b>	Louisiana Average Natural Gas Prices Delivered to Consumer (MCF)	
<b>20A</b>	Louisiana Average Natural Gas Prices Delivered to Consumer (MMBTU)	<b>33</b>
<b>21</b>	United States Average Natural Gas Prices (MCF)	<b>34</b>
<b>21A</b>	United States Average Natural Gas Prices (MMBTU)	<b>35</b>
	<b>DRILLING</b>	
<b>22</b>	Louisiana State Oil and Gas Drilling Permits Issued by Type (Excluding OCS)	<b>36</b>
<b>23</b>	Louisiana Average Rigs Running	<b>38</b>
<b>24</b>	Louisiana State Producing Crude Oil Wells (Excluding OCS)	<b>39</b>
<b>25</b>	Louisiana State Producing Natural Gas Wells (Excluding OCS)	<b>41</b>
<b>26</b>	Louisiana State Well Completion by Type and by Region (Excluding OCS)	<b>42</b>

<b>Table</b>		<b>Page</b>
	<b>REVENUE</b>	
<b>27</b>	Louisiana State Mineral Bonus, Rental and Royalty Override Revenues (Excluding OCS)	<b>43</b>
<b>28</b>	Louisiana State Mineral Royalty Revenue (Excluding OCS)	<b>44</b>
<b>29</b>	Louisiana State Mineral Severance Tax Revenue (Excluding OCS)	<b>45</b>
<b>30</b>	State Revenue from Louisiana's Outer Continental Shelf	<b>46</b>
<b>31</b>	Louisiana State Total Mineral Revenue	<b>47</b>
<b>32</b>	Revenue to Federal Government Collected from Oil and Gas Leases in the Louisiana Outer Continental Shelf	<b>48</b>
	<b>RESERVES</b>	
<b>33</b>	Louisiana Estimated Crude Oil Proved Reserves, (Excluding Lease Condensate)	<b>49</b>
<b>34</b>	Louisiana Estimated Lease Condensate Proved Reserves	<b>50</b>
<b>35</b>	Louisiana Estimated Dry Natural Gas Proved Reserves	<b>51</b>
<b>36</b>	Louisiana Estimated Natural Gas Liquids Proved Reserves	<b>52</b>
	<b>OTHER</b>	
<b>37</b>	Louisiana Nonagricultural Employment	<b>53</b>
<b>38</b>	Louisiana Energy Consumption Estimates by Source	<b>55</b>
<b>39</b>	Louisiana Refinery Crude Oil Statistics	<b>56</b>
<b>40</b>	Louisiana Electric Utilities Net Electricity Generation by Fuel Type	<b>58</b>

## List of Figures

<b>MAP</b>		<b>Page</b>
	Subdivisions of Louisiana	<b>4</b>
 <b>Figure</b>		
<b>1</b>	Louisiana State Oil Production, Actual and Forecasted Through Year 2030	<b>9</b>
<b>2</b>	2022 United States Oil Production by State	<b>9</b>
<b>3</b>	2022 Louisiana Petroleum Flow	<b>11</b>
<b>4</b>	Louisiana State Gas Production, Actual and Forecasted Through Year 2030	<b>18</b>
<b>5</b>	2022 United States Marketed Gas Production by State	<b>18</b>
<b>6</b>	2021 Louisiana Natural Gas Flow	<b>21</b>
<b>7</b>	Louisiana Oil Production and Price	<b>25</b>
<b>8</b>	Louisiana Gas Production and Price	<b>25</b>
<b>9</b>	Crude Oil Average Prices	<b>28</b>
<b>10</b>	Natural Gas Average Prices	<b>28</b>
<b>11</b>	Louisiana State Drilling Permits Issued, Federal OCS Excluded	<b>37</b>
<b>12</b>	Louisiana Average Active Rigs	<b>37</b>
<b>13</b>	2021 Percentage of Louisiana Oil Wells by Production Rates	<b>40</b>
<b>14</b>	2021 Percentage of Louisiana Gas Wells by Production Rates	<b>40</b>
<b>15</b>	United States Crude Oil Reserves - December 31, 2021, (Excluding Lease Condensate)	<b>49</b>
<b>16</b>	Louisiana Crude Oil Reserves - December 31, 2021	<b>50</b>
<b>17</b>	United States Natural Gas Reserves - December 31, 2021	<b>51</b>
<b>18</b>	Louisiana Natural Gas Reserves - December 31, 2021	<b>52</b>
<b>19</b>	Louisiana Energy Consumption by Source	<b>54</b>
<b>20</b>	Louisiana Refinery Crude Oil Input by Source	<b>54</b>
<b>21</b>	Louisiana Lignite Production by Mine Source	<b>57</b>

# Louisiana Energy Facts Annual 2022

## INTRODUCTION

### ABOUT THIS PUBLICATION

The **Louisiana Energy Facts Annual (Annual)** is published to provide a comprehensive compendium of Louisiana related energy production and use statistics on a yearly basis. The data tables are supplemented with numerous graphs and charts to aid in the interpretation of the data and the discernment of trends. The **Annual** is published as soon as sufficient data for the previous calendar year is available. Due to time lags in the availability of some of the data, there is approximately a six month lag before the current **Annual** can be published. Some changes have been introduced in order to incorporate the latest available data.

If you read our monthly **Louisiana Energy Facts** newsletter, you may find that some of the previously published data has been revised in the **Annual**. This data, by its nature, continues to be revised, sometimes years after its initial publication. We try to bring attention to these changes by marking them as revisions.

The most recent **Louisiana Energy Facts** monthly newsletter may contain even more updates. Please refer to the recent monthlies for the very latest data. The **Louisiana Energy Facts** monthly newsletter is available online at our website:

<http://www.dnr.louisiana.gov/tad>

- For newsletters, select:

Newsletter then Louisiana Energy Facts

- For Louisiana Energy Facts Annual Reports in PDF format, select:

Reports then Energy Facts Annuals

- For tables covering longer time periods than in the Louisiana Energy Facts Reports, select:

Facts & Figures

Note: the data in these tables will be updated throughout the year. The data files are not audited and will change as more reliable data becomes available.



The Technology Assessment Division is not the source of the data, but merely reports data provided to us by the responsible agency. We understand that users of our time series data need consistency and, for that reason, our time series have been adjusted backward to reflect these new modifications.

Additional comments or suggestions about this publication can be directed to the Technology Assessment Division staff members listed on the General Questions and Comments page.

We hope you find this document useful, and we appreciate your feedback. Please fill in, detach and return the survey form at the back of this report.

## 2022 HIGHLIGHTS

The data in the 2022 **Louisiana Energy Facts Annual** contains some recent trends.

### **Crude Oil and Natural Gas Prices**

Gas spot price average was \$4.04 per MCF in 2021, and it was \$6.64 per MCF in 2022; which is 64.4% higher than in 2021. The Louisiana natural gas spot market average in January 2022 was \$4.51 per MCF and increased to \$5.74 per MCF in December 2022. The January price was attributed to a smaller supply compared to the 5 year average and the price at the end of 2022 was caused by excess demand coming from LNG exports to Europe. The average price for gas for 2023 is expected to be in \$3.00 per MCF.

Light Louisiana Sweet (LLS) average spot crude oil price was \$69.46 per barrel in 2021 and it was \$96.62 per barrel in 2022, a 39.1% increase. The LLS crude oil spot price average was \$85.29 per barrel in January 2022 and fell by the end of the year to \$77.87 per barrel in December 2021. The oil price increase during the middle part of the year was caused by repressed levels of exportation from Russia due to sanctions put in place after the Ukrainian incursion took place. The 2023LLS average spot price is expected to be around \$75 per barrel.

### **Oil and Gas Production**

Louisiana state oil production was higher in 2022 than in 2021, while the federal Outer Continental Shelf (OCS) in the Gulf of Mexico (GOM) fell in production. The Louisiana state crude oil and condensate production, excluding the federal OCS, was 34.8 million barrels (MMB) in 2021 and it was 36.3 MMB in 2022. The 2022 oil production was 1.4 MMB or 4.1% higher than 2021. The preliminary Central GOM oil production in 2022 is 569.1 MMB and it was 21.6 MMB or 3.7% lower than 2021 oil production. The decrease in Central GOM oil was greatly impacted by the hurricanes which impacted the Louisiana coast in 2020 and 2021.

Louisiana gas production was higher in 2022 than in 2021. The Louisiana state natural gas and casinghead, excluding OCS production, was 3.75 TCF in 2022, 15.0% higher than 2021. The increase in gas production was driven by an increase in global demand due to geopolitical situations effecting natural gas availability and the efficiency which Louisiana holds for exporting liquefied natural gas.

The Haynesville shale is producing around 87.5% of the state total gas production. The preliminary Central GOM gas production in 2022 is about 0.5 TCF, and expected to maintain production in 2023. The Central GOM gas production has decreased over the years due to shifting priorities from gas fields to oil fields offshore.

# SUBDIVISIONS OF LOUISIANA



## **Drilling**

Louisiana rig count, including the OCS area, averaged 66 active rigs in 2021, 37% higher than in 2022. In state areas, state offshore region drilling rigs was almost non-existent in 2022, South LA Inland water averaged 1 per month in 2022, and South LA inland land averaged 5 per month in 2022. North LA region increased by 9 rigs in 2022, and LA Federal OCS average showed a 2 rig increase in 2022 from 2021.

## **Other significant items**

Louisiana refineries 2022 daily crude oil average runs to stills were 3.62 million barrels per day, increasing from the 2021 daily production due to more favorable weather conditions, as compared to 2020 and 2021.

Average employment in the oil and gas extraction industries was 27,512 in 2021; an increase from 2020, due to increases in both domestic and global demand rebounding from the pandemic.

Louisiana proved oil reserves were higher in 2021 than in 2020, due to increases in estimated reserves in the region and lack of production during 2020. The decrease in oil reserve was due to reservoir adjustments in accordance as a reflection on recoverable resources. Louisiana proved gas reserves were higher in 2021 than in 2020 in Louisiana. The increase in gas reserves were the result of increasing gas exploration activities in Louisiana regions due to the pandemic.

**Table 1**

**LOUISIANA STATE CRUDE OIL PRODUCTION**  
**Excluding OCS**  
**(Barrels)**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	9,734,754	43,151,661	7,630,661	60,517,076
2003	9,179,787	41,803,886	8,453,966	59,437,639
2004	8,697,903	41,289,067	7,015,580	57,002,550
2005	8,585,924	36,628,208	5,587,547	50,801,679
2006	8,327,465	36,416,376	4,639,216	49,383,057
2007	8,091,774	39,053,879	5,480,658	52,626,311
2008	8,010,562	36,313,404	4,124,198	48,448,164
2009	7,955,097	35,621,149	3,858,277	47,434,523
2010	7,915,495	36,270,826	4,671,151	48,857,472
2011	9,136,216	37,563,060	5,064,106	51,763,382
2012	9,961,475	39,816,038	5,036,472	54,813,985
2013	10,478,346	40,421,255	5,584,262	56,483,863
2014	10,093,552	39,265,997	5,551,263	54,910,812
2015	9,722,891	35,478,795	5,246,298	50,447,984
2016	9,153,106	31,529,224	4,952,102	45,634,432
2017	9,158,814	27,397,686	3,856,590	40,413,090
2018	8,534,525	25,101,699	3,767,963	37,404,187
2019	8,150,551	23,271,315	4,057,659	35,479,525
2020	6,887,478	19,007,798	3,115,584	29,010,860
January	603,765	1,640,308	295,075	2,539,148
February	413,206	1,419,919	245,243	2,078,368
March	579,010	1,680,459	280,923	2,540,392
April	567,629	1,585,963	295,536	2,449,128
May	571,880	1,696,662	260,529	2,529,071
June	554,487	1,602,761	258,076	2,415,324
July	586,031	1,663,793	269,884	2,519,708
August	574,590	1,491,639	228,208	2,294,437
September	557,782	1,500,268	75,561	2,133,611
October	580,105	1,142,383	126,043	1,848,531
November	559,599	1,509,795	137,016	2,206,410
December	580,644	1,573,216	183,010	2,336,870
<b>2021 Total</b>	<b>6,728,728</b>	<b>18,507,166</b>	<b>2,655,104</b>	<b>27,890,998</b>
January	531,501	1,563,260	190,326	2,285,087
February	496,571	1,407,858	197,796	2,102,225
March	549,047	1,639,523	242,601	2,431,171
April	528,822	1,701,607	318,757	2,549,186
May	533,153	1,760,630	317,521	2,611,304
June	514,750	1,729,824	277,790	2,522,364
July	528,313	1,760,731	308,503	2,597,547
August	517,035	1,699,276	308,288	2,524,599
September	511,025	1,663,472	273,462	2,447,959
October	511,865 p	1,682,283 p	305,205 p	2,499,353 p
November	505,915 p	1,646,837 p	270,727 p	2,423,479 p
December	506,746 p	1,665,460 p	302,153 p	2,474,359 p
<b>2022 Total</b>	<b>6,234,742 p</b>	<b>19,920,762 p</b>	<b>3,313,130 p</b>	<b>29,468,634 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 2**

**LOUISIANA STATE CONDENSATE PRODUCTION**  
**Excluding OCS**  
**(Barrels)**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	2,926,737	27,980,334	1,761,536	33,173,039
2003	2,789,398	25,616,633	1,850,882	30,936,684
2004	2,926,460	21,468,353	1,684,363	26,689,554
2005	3,323,446	20,365,449	1,195,413	24,884,308
2006	3,773,415	18,735,542	2,078,103	24,587,060
2007	4,335,873	18,299,586	2,114,728	24,750,187
2008	5,107,407	16,897,961	2,157,717	24,163,085
2009	4,254,544	15,004,194	2,131,896	21,390,634
2010	3,269,391	13,240,103	1,911,052	18,420,546
2011	3,148,207	12,601,089	1,452,156	17,201,452
2012	2,797,876	11,878,591	1,559,822	16,236,289
2013	3,203,023	11,356,408	1,186,810	15,746,241
2014	3,377,301	9,989,651	787,171	14,154,123
2015	3,065,275	9,016,891	586,438	12,668,604
2016	3,087,657	7,533,945	376,512	10,998,114
2017	4,351,523	6,859,543	309,934	10,524,674
2018	4,168,184	7,087,969	236,138	11,492,291
2019	3,121,192	7,027,690	185,062	10,333,944
2020	2,490,803	4,891,932	145,374	7,528,109
January	248,994	410,642	12,917	672,553 r
February	189,414	332,259	10,781	532,454 r
March	230,948	399,062	11,741	641,751 r
April	249,513	415,283	12,878	677,674 r
May	202,349	367,351	13,214	582,914 r
June	191,455	369,055	11,126	571,636 r
July	188,303	382,721	10,514	581,538 r
August	173,356	364,526	8,495	546,377 r
September	163,569	296,163	3,842	463,574 r
October	194,822	336,008	7,324	538,154 r
November	208,954	348,943	6,790	564,687 r
December	203,354	385,019	7,948	596,321 r
<b>2021 Total</b>	<b>2,445,031</b>	<b>4,407,032</b>	<b>117,570</b>	<b>6,969,633 r</b>
January	202,758	382,623	8,202	593,583
February	197,763	341,260	8,879	547,902
March	220,244	377,032	11,689	608,965
April	194,079	362,397	9,525	566,001
May	209,716	360,614	10,754	581,084
June	180,253	362,808	10,011	553,072
July	159,724	383,553	11,460	554,737
August	173,564	351,123	11,793	536,480
September	202,336	404,002	7,192	613,530
October	171,828 p	347,612 p	11,675 p	531,115 p
November	200,313 p	399,962 p	7,120 p	607,395 p
December	170,110 p	344,136 p	11,558 p	525,804 p
<b>2022 Total</b>	<b>2,282,688 p</b>	<b>4,417,121 p</b>	<b>119,858 p</b>	<b>6,819,668 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 3**

**LOUISIANA STATE CRUDE OIL and CONDENSATE PRODUCTION**  
**Excluding OCS**  
**(Barrels)**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	11,969,185	67,420,519	10,304,848	89,694,551
2003	11,624,363	62,757,420	8,699,943	83,081,726
2004	11,909,370	56,993,657	6,782,960	75,685,987
2005	12,100,880	55,151,918	6,717,319	73,970,117
2006	12,427,647	57,353,465	7,595,386	77,376,498
2007	13,117,969	53,211,365	6,281,915	72,611,249
2008	12,209,641	50,625,343	5,990,173	68,825,157
2009	11,184,886	49,510,929	6,582,203	67,278,018
2010	12,284,423	50,164,149	6,516,262	68,964,834
2011	12,759,351	51,694,629	6,596,294	71,050,274
2012	13,681,369	51,777,663	6,771,072	72,230,104
2013	13,470,853	49,255,648	6,338,434	69,064,935
2014	12,788,166	44,495,686	5,832,736	63,116,588
2015	12,240,763	39,063,169	5,328,614	56,632,546
2016	13,510,337	34,257,229	4,166,524	51,934,090
2017	13,326,998	34,485,655	4,092,728	51,905,381
2018	12,431,989	32,466,597	4,039,028	49,696,069
2019	11,271,743	30,299,005	4,242,721	47,319,993
2020	9,378,281	23,899,730	3,260,958	36,538,969
January	852,759	2,050,950	307,992	3,211,701 r
February	602,620	1,752,178	256,024	2,610,822 r
March	809,958	2,079,521	292,664	3,182,143 r
April	817,142	2,001,246	308,414	3,126,802 r
May	774,229	2,064,013	273,743	3,111,985 r
June	745,942	1,971,816	269,202	2,986,960 r
July	774,334	2,046,514	280,398	3,101,246 r
August	747,946	1,856,165	236,703	2,840,814 r
September	721,351	1,796,431	79,403	2,597,185 r
October	774,927	1,478,391	133,367	2,386,685 r
November	768,553	1,858,738	143,806	2,771,097 r
December	783,998	1,958,235	190,958	2,933,191 r
<b>2021 Total</b>	<b>9,173,759</b>	<b>22,914,198</b>	<b>2,772,674</b>	<b>34,860,631 r</b>
January	734,259	1,945,883	198,528	2,878,670
February	694,334	1,749,118	206,675	2,650,127
March	769,291	2,016,555	254,290	3,040,136
April	722,901	2,064,004	328,282	3,115,187
May	742,869	2,121,244	328,275	3,192,388
June	695,003	2,092,632	287,801	3,075,436
July	688,037	2,144,284	319,963	3,152,284
August	690,599	2,050,399	320,081	3,061,079
September	713,361	2,067,474	280,654	3,061,489
October	683,693 p	2,029,895 p	316,880 p	3,030,468 p
November	706,227 p	2,046,799 p	277,847 p	3,030,874 p
December	676,856 p	2,009,596 p	313,711 p	3,000,164 p
<b>2022 Total</b>	<b>8,517,430 p</b>	<b>24,337,883 p</b>	<b>3,432,988 p</b>	<b>36,288,302 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 1

### LOUISIANA STATE OIL PRODUCTION Actual and Forecasted Through Year 2030

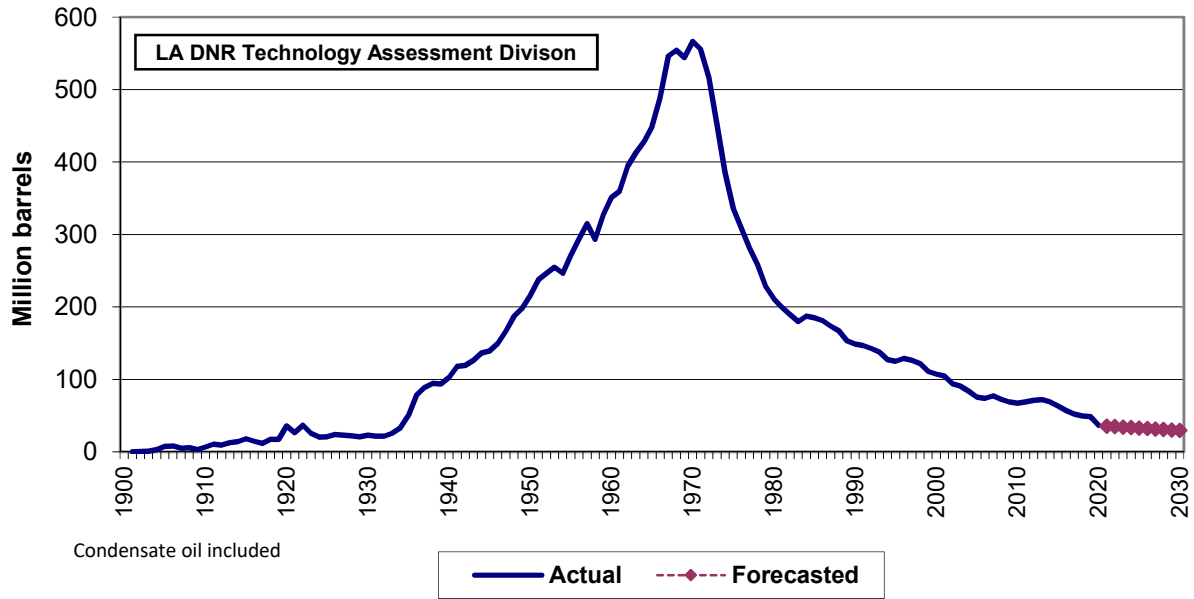
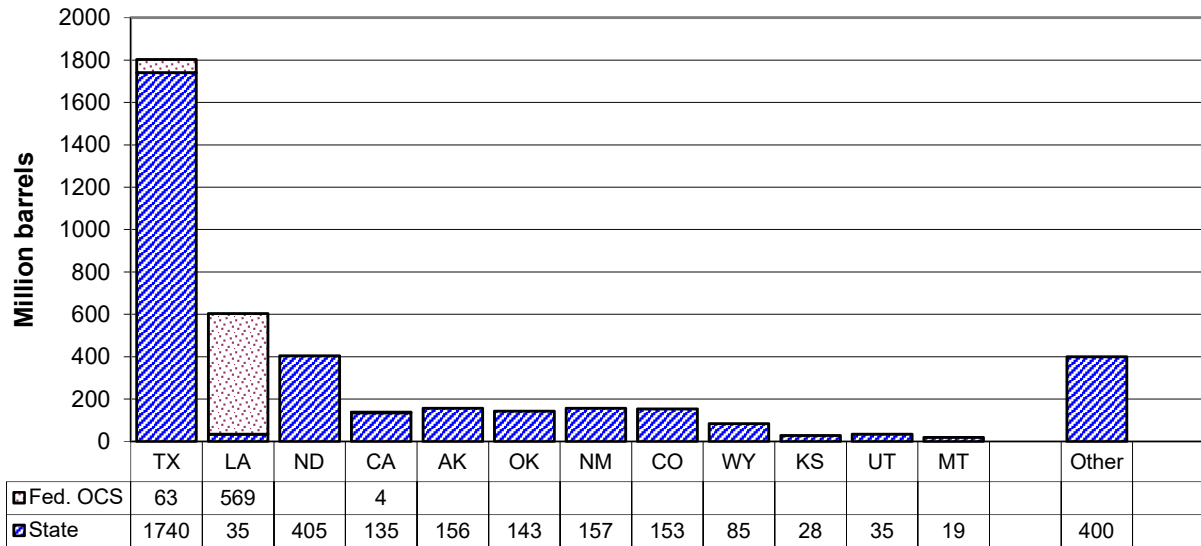


Figure 2

### 2022 UNITED STATES OIL PRODUCTION BY STATE



Federal OCS production estimated

LA DNR Technology Assessment Division



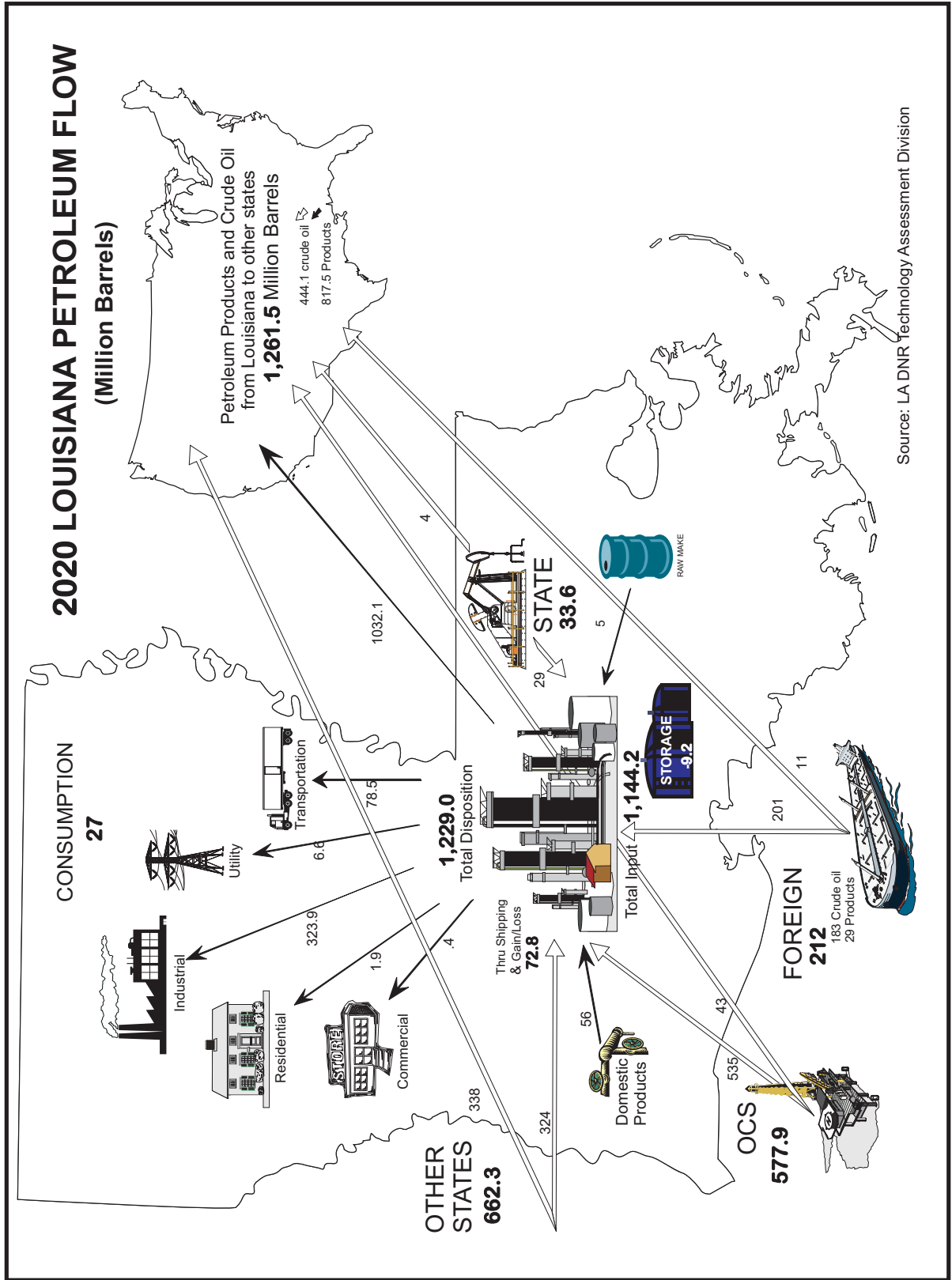
**Table 4**

**LOUISIANA and GOM CENTRAL CRUDE OIL and CONDENSATE PRODUCTION  
(Barrels)**

DATE	ONSHORE	OFFSHORE		TOTAL
		State	GOM Central	
2002	84,250,026	9,440,089	521,432,474	615,122,589
2003	80,024,835	10,349,488	509,552,915	599,927,238
2004	74,967,054	8,725,050	482,598,762	566,290,866
2005	68,903,027	6,782,960	418,763,978	494,449,965
2006	67,252,798	6,717,319	431,633,489	505,603,606
2007	69,781,112	7,595,386	435,264,843	512,641,341
2008	66,329,334	6,281,915	396,112,395	468,723,644
2009	62,834,984	5,990,173	544,854,279	613,679,436
2010	60,695,815	6,582,203	541,600,736	608,878,754
2011	62,448,572	6,516,262	451,838,190	520,803,024
2012	64,453,980	6,596,294	422,692,750	493,743,024
2013	65,459,032	6,771,072	415,760,908	487,991,012
2014	62,726,501	6,338,434	470,176,016	539,240,951
2015	57,283,852	5,832,736	514,348,509	577,465,097
2016	51,303,932	5,328,614	551,715,708	608,348,254
2017	46,771,240	4,166,524	584,219,540	636,153,630
2018	45,023,918	4,004,094	611,162,662	660,190,674
2019	41,570,748	4,242,721	659,690,053	705,503,522
2020	34,626,518	3,519,094	577,765,936	615,911,548
January	2,903,709	307,992	53,416,958	56,628,659
February	2,354,798	256,024	48,394,263	51,005,085
March	2,889,479	292,664	55,529,106	58,711,249
April	2,818,388	308,414	50,824,589	53,951,391
May	2,838,242	273,743	53,311,117	56,423,102
June	2,717,758	269,202	50,598,839	53,585,799
July	2,820,848	280,398	54,520,355	57,621,601
August	2,604,111	236,703	45,298,082	48,138,896
September	2,517,782	79,403	29,409,484	32,006,669
October	2,253,318	133,367	49,098,911	51,485,596
November	2,627,291	143,806	50,574,823	53,345,920
December	2,742,233	190,958	49,741,443	52,674,634
<b>2021 Total</b>	<b>32,087,957</b>	<b>2,772,674</b>	<b>590,717,970</b>	<b>625,578,601</b>
January	2,680,142	198,528	49,450,352	52,329,022
February	2,443,452	206,675	43,679,020	46,329,147
March	2,785,846	254,290	50,355,543	53,395,679
April	2,786,905	328,282	50,416,375	53,531,562
May	2,864,113	328,275	47,235,013	50,427,401
June	2,787,635	287,801	49,464,899	52,540,335
July	2,832,321	319,963	49,419,912	52,572,196
August	2,740,998	320,081	46,898,677	49,959,756
September	2,780,835	280,654	44,677,676	47,739,165
October	2,713,588 p	316,880 p	46,664,184 p	49,694,652 p
November	2,753,027 p	277,847 p	44,454,288 p	47,485,162 p
December	2,686,452 p	313,711 p	46,430,863 p	49,431,026 p
<b>2022 Total</b>	<b>32,855,314 p</b>	<b>3,432,988 p</b>	<b>569,146,801 p</b>	<b>605,435,103 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 3



**Table 5**

**LOUISIANA STATE OIL PRODUCTION\* BY TAX RATES  
AS PUBLISHED IN SEVERANCE TAX REPORTS<sup>8</sup>  
(Barrels)**

<b>DATE</b>	<b>FULL RATE</b>	<b>INCAPABLE WELLS RATE</b>	<b>STRIPPER WELLS RATE</b>	<b>TAXED VOLUME</b>
2002	79,038,703	2,571,901	4,681,607	86,292,211
2003	75,070,785	2,565,017	4,912,890	82,548,691
2004	73,133,821	2,852,851	4,838,681	80,825,353
2005	61,356,971	2,754,911	4,784,530	68,896,412
2006	61,520,365	2,621,592	4,786,820	68,928,778
2007	64,036,607	2,612,497	4,531,456	71,180,560
2008	61,520,109	2,564,615	4,974,961	69,059,684
2009	55,212,475	1,927,478	4,364,995	61,504,949
2010	52,998,554	2,144,740	4,315,681	59,458,975
2011	51,052,360	2,360,106	4,764,525	58,176,991
2012	52,052,999	2,319,256	5,117,590	59,489,845
2013	54,720,459	2,110,666	5,117,677	61,948,801
2014	50,583,025	2,021,531	4,565,344	57,169,900
2015	48,969,890	2,049,703	5,042,452	56,062,045
2016	52,512,796	2,074,407	4,039,203	58,626,405
2017	42,717,133	1,546,846	4,284,183	48,548,162
2018	39,020,169	1,340,994	4,155,220	44,532,108
2019	42,193,757 e	1,327,665 e	4,058,852 e	47,580,275 e
2020	31,826,965	1,224,788	3,222,744	36,274,497
January	2,094,258	93,626	270,244	2,463,018
February	2,455,080	101,310	267,194	2,828,338
March	2,497,889	94,281	296,101	2,893,984
April	1,878,110	78,027	178,545	2,136,806
May	2,403,022	93,238	250,364	2,756,565
June	2,466,660	97,166	315,979	2,879,805
July	2,420,921	103,416	321,842	2,846,179
August	2,407,719	76,402	223,416	2,707,537
September	2,328,027	97,485	308,024	2,461,468
October	2,095,418	84,969	275,352	2,824,162
November	1,548,568	94,502	241,415	1,886,907
December	2,122,872	113,724	332,016	2,572,679
<b>2021 Total</b>	<b>26,718,544</b>	<b>1,128,146</b>	<b>3,280,492</b>	<b>31,257,448</b>
January	1,873,282	81,354	222,708	2,181,645
February	2,259,236	145,485	349,946	2,782,662
March	2,194,432	138,641	381,162	2,721,789
April	1,910,214	188,211	267,992	2,375,050
May	2,449,913	375,764	343,527	3,176,487
June	2,343,850	158,830	276,673	2,802,103
July	2,344,296	166,399	292,183	2,821,345
August	3,141,028	10,534	121,634	3,393,980
September	2,626,528	138,521	329,245	3,305,128
October	5,814,850	191,753	393,312	6,428,273
November	6,765,393	170,497	327,504	7,311,040
December	2,987,699 p	109,887 p	258,741 p	3,378,344 p
<b>2022 Total</b>	<b>36,710,721 p</b>	<b>1,875,875 p</b>	<b>3,564,627 p</b>	<b>42,677,846 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

\* Due to reporting time lag and well exemptions the above figures are different from actual production.

**Table 6**

**UNITED STATES OCS CRUDE OIL AND CONDENSATE PRODUCTION<sup>12</sup>**  
(Barrels)

YEAR	LOUISIANA	TEXAS	CALIFORNIA	TOTAL
1979	271,008,916	3,595,546	10,961,076	285,565,538
1980	256,688,082	10,502,007	10,198,886	277,388,975
1981	255,875,717	14,284,661	19,605,027	289,765,405
1982	275,513,489	17,263,766	28,434,202	321,211,457
1983	298,093,559	19,710,197	30,527,487	348,331,243
1984	318,024,622	21,960,086	30,254,306	370,239,014
1985	338,901,863	20,640,957	29,781,465	389,324,285
1986	340,152,276	19,835,882	29,227,846	389,216,004
1987	307,950,881	24,634,142	33,556,686	366,141,709
1988	261,936,530	26,115,776	32,615,118	320,667,424
1989	246,207,653	25,887,841	33,072,161	305,167,655
1990	264,670,535	24,970,114	33,312,719	324,423,181
1991	262,647,733	24,380,908	29,146,090	323,831,064
1992	288,918,208	23,639,788	41,222,801	346,053,626
1993	293,443,881	20,376,996	50,078,144	358,655,540
1994	293,077,191	26,819,958	57,229,464	371,300,873
1995	320,255,087	20,419,104	71,254,440	416,293,300
1996	349,101,048	25,841,553	67,804,200	436,634,538
1997	399,536,004	28,718,405	58,279,489	469,873,968
1998	425,865,901	27,837,631	40,636,231	484,861,417
1999	451,391,454	31,758,296	42,071,101	537,198,889
2000	477,645,662	35,044,216	34,373,524	557,370,524
2001	502,115,031	42,991,844	34,763,192	592,514,727
	GULF OF MEXICO		PACIFIC	TOTAL
	CENTRAL	WESTERN		
2002	521,432,474	46,423,253	29,783,000	597,638,727
2003	509,552,915	51,825,370	30,001,000	591,379,285
2004	482,598,762	52,683,149	27,510,000	562,791,911
2005	418,763,978	48,155,514	26,498,079	493,417,571
2006	431,633,489	40,379,554	25,992,128	498,005,171
2007	435,264,843	32,704,378	24,623,593	492,592,814
2008	396,112,395	27,297,077	24,029,346	447,438,818
2009	544,854,279	25,399,965	22,306,167	592,560,411
2010	541,600,736	20,900,548	21,708,034	584,209,318
2011	451,838,190	29,695,690	19,816,847	501,350,727
2012	422,692,750	42,005,409	17,678,497	482,376,656
2013	415,760,908	43,125,370	18,558,778	477,445,056
2014	470,176,016	40,308,758	18,481,821	528,966,595
2015	514,371,765	38,570,735	11,444,000	564,386,500
2016	537,064,665	32,517,117	6,139,000	575,720,782
2017	581,309,679	30,545,966	5,722,000	617,577,645
2018	608,885,466	30,427,636	5,002,000	644,315,102
2019	661,762,775	30,353,951	4,582,000	696,698,726
2018	608,885,466	30,427,636	5,002,000	644,315,102
2019	661,762,775	30,353,951	4,582,000	696,698,726
2020	581,132,313	23,784,546	4,569,000	609,485,859
2021	590,071,970	31,878,404	4,068,000	626,018,374

e Estimated r Revised p Preliminary See footnote in Appendix B

NOTE: Starting in 2002 BOEM has not formally published production by state adjacent areas

Table 7

**UNITED STATES CRUDE OIL AND CONDENSATE PRODUCTION AND IMPORTS**  
(Thousand barrels)

DATE	ALL OCS <sup>7</sup>	DOMESTIC PRODUCTION <sup>7</sup>	IMPORTS TOTAL <sup>7</sup>	IMPORTS SPR <sup>7</sup>
2002	597,594	2,097,124	3,336,175	5,767
2003	599,132	2,073,454	3,527,696	747
2004	558,952	1,983,300	3,692,063	30,646
2005	494,332	1,890,107	3,663,887	14,746
2006	498,003	1,856,608	3,693,081	3,086
2007	492,593	1,853,243	3,661,404	2,703
2008	447,352	1,830,415	3,580,694	7,113
2009	592,609	1,954,241	3,289,675	20,368
2010	588,334	1,998,452	3,362,856	0
2011	500,519	2,060,744	3,261,422	0
2012	480,944	2,374,135	3,120,755	0
2013	476,598	2,725,665	2,821,480	0
2014	528,463	3,198,695	2,680,626	0
2015	564,342	3,434,019	2,687,409	0
2016	590,884	3,241,592	2,873,208	0
2017	612,781	3,413,376	2,908,670	0
2018	635,438	4,002,618	2,831,289	0
2019	696,824	4,470,527	2,480,166	0
2020	605,933	4,140,737	2,150,808	0
January	55,290	342,747	179,284	0
February	49,344	273,646	156,502	0
March	57,484	345,946	179,397	0
April	53,037	336,905	174,564	0
May	56,249	351,346	180,654	0
June	53,740	338,645	198,051	0
July	57,405	351,228	198,242	0
August	47,403	347,393	193,332	0
September	31,874	325,538	195,784	0
October	52,307	357,314	185,112	0
November	53,733	353,181	190,010	0
December	52,990	359,186	199,068	0
<b>2021 Total</b>	<b>620,856</b>	<b>4,083,075</b>	<b>2,230,000</b>	<b>0</b>
January	52,962	352,449	197,873	0
February	45,226	316,851	172,325	0
March	52,423	362,725	198,883	0
April	52,947	350,052	181,770	0
May	49,245	360,503	191,050	0
June	52,542	353,918	194,195	0
July	54,689	367,164	204,719	0
August	55,267	372,077	196,232	0
September	55,423	369,355	188,048	0
October	57,098	383,822	193,347	0
November	55,894 e	372,395 e	191,321 e	0 e
December	56,933 e	379,921 e	200,212 e	0 e
<b>2022 Total</b>	<b>640,649 e</b>	<b>4,341,232 e</b>	<b>2,309,975 e</b>	<b>0</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

\* Due to reporting time lag and well exemptions the above figures are different from actual production

Table 8

**LOUISIANA STATE ROYALTY OIL, GAS AND PLANT PRODUCTS  
CALCULATED VOLUMES, Excluding OCS**

DATE	OIL (Barrels)	GAS (MCF)	PLANT LIQUIDS (Barrels)
2002	4,707,772	53,434,290	800,697
2003	4,910,469	53,135,969	1,459,006
2004	4,222,899	45,261,610	2,185,235
2005	3,340,640	34,454,802	1,101,153
2006	3,611,971	40,978,902	1,399,577
2007	4,554,260	43,242,493	1,416,364
2008	4,301,480	44,210,090	1,482,867
2009	4,094,544	41,624,043	721,985
2010	3,912,951	37,204,336	4,784,684
2011	3,901,117	42,335,904	5,506,453
2012	3,898,453	43,827,524	5,796,373
2013	4,010,856	44,018,931	10,239,741
2014	3,789,924	39,516,318	9,251,536
2015	3,405,308	35,475,013	8,141,362
2016	2,972,638	27,950,764	6,410,410
2017	2,527,683	22,092,507	5,375,694
2018	2,470,920	19,388,812	4,918,281
2019	2,430,688	20,445,822	5,068,938
2020	1,724,265	18,634,929	3,375,647
January	141,122	1,524,770	50,185
February	130,450	1,199,655	42,688
March	145,596	1,418,676	54,586
April	140,611	1,449,804	52,658
May	143,049	1,548,456	44,728
June	128,848	1,375,612	44,934
July	131,883	1,588,150	47,631
August	120,344	1,625,563	41,739
September	79,738	1,458,517	10,807
October	85,409	1,687,355	20,632
November	119,983	1,810,981	41,828
December	120,430	1,871,003	43,343
<b>2021 Total</b>	<b>1,487,464</b>	<b>18,558,544</b>	<b>495,758</b>
January	125,895	1,856,513	41,049
February	115,175	1,602,390	35,218
March	132,326	1,744,287	33,097
April	148,679	1,630,984	30,576
May	150,644	1,600,330	37,626
June	143,917	1,435,082	57,722
July	152,065	1,462,901	63,065
August	143,719	1,371,668	47,456
September	132,950	1,374,918	49,206
October	146,183 e	1,378,914 e	51,587 e
November	136,715 e	1,375,287 e	50,331 e
December	148,943 e	1,426,427 e	53,369 e
<b>2022 Total</b>	<b>1,677,212 e</b>	<b>18,259,702 e</b>	<b>550,303 e</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 9**  
**LOUISIANA STATE NATURAL GAS PRODUCTION**  
**WET AFTER LEASE SEPARATION**  
**Excluding OCS and Casinghead Gas**  
**(Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	370,358,148	803,816,704	87,069,617	1,261,244,469
2003	401,217,674	779,381,241	72,327,053	1,252,925,968
2004	462,100,053	741,913,556	59,881,419	1,263,895,028
2005	526,863,613	645,073,330	46,609,741	1,218,546,684
2006	562,637,880	659,271,052	62,090,012	1,283,998,944
2007	603,078,425	611,264,372	65,638,857	1,279,981,654
2008	676,367,962	542,416,864	79,984,290	1,298,769,116
2009	903,727,141	444,014,121	70,811,813	1,418,553,075
2010	1,603,226,702	359,800,310	62,296,972	2,025,323,984
2011	2,449,125,453	339,286,937	63,099,986	2,851,512,376
2012	2,504,650,215	322,427,305	71,866,441	2,898,943,961
2013	1,858,426,760	338,932,998	58,666,623	2,256,026,381
2014	1,526,458,894	308,016,621	42,805,939	1,877,281,454
2015	1,404,690,805	283,206,496	32,625,158	1,720,522,459
2016	1,404,690,805	283,206,496	32,625,158	1,720,522,459
2017	1,830,755,652	199,893,922	19,167,747	2,049,817,321
2018	2,482,537,477	184,951,125	13,789,076	2,681,277,678
2019	2,936,312,835	163,740,161	11,559,664	3,111,612,660
2020	2,905,989,196	122,265,825	8,880,626	3,037,135,647
January	253,867,061	9,588,956	693,311	264,149,328
February	200,031,962	7,964,274	572,752	208,568,988
March	261,875,863	9,398,013	642,122	271,915,998
April	251,915,673	8,932,228	663,773	261,511,674
May	259,540,640	9,099,872	593,694	269,234,206
June	249,687,883	8,693,115	554,073	258,935,071
July	252,893,967	9,577,387	691,034	263,162,388
August	266,638,611	8,833,559	570,927	276,043,097
September	254,891,675	7,589,592	344,108	262,825,375
October	288,884,345	9,686,062	378,525	298,948,932
November	288,363,447	9,458,446	321,945	298,143,838
December	291,659,057	9,839,989	280,030	301,779,076
<b>2021 Total</b>	<b>3,120,250,184</b>	<b>108,661,493</b>	<b>6,306,294</b>	<b>3,235,217,971</b>
January	301,111,916	9,944,873	358,321	311,415,110
February	273,293,713	9,060,726	377,288	282,731,727
March	301,550,434	9,516,859	479,448	311,546,741
April	305,564,454	9,352,659	407,430	315,324,543
May	327,477,911	9,291,136	433,722	337,202,769
June	316,052,117	9,079,624	382,280	325,514,021
July	319,465,274	9,248,431	375,604	329,089,309
August	305,301,373	8,996,483	395,993	314,693,849
September	281,616,289	8,833,675	280,203	290,730,167
October	302,248,359 e	8,906,518 e	392,033 e	311,546,911 e
November	278,800,126 e	8,745,338 e	277,401 e	287,822,865 e
December	299,225,876 e	8,817,453 e	388,113 e	308,431,441 e
<b>2022 Total</b>	<b>3,611,707,842 e</b>	<b>109,793,775 e</b>	<b>4,547,836 e</b>	<b>3,726,049,453 e</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 10**

**LOUISIANA STATE CASINGHEAD GAS PRODUCTION,  
WET AFTER LEASE SEPARATION, Excluding OCS  
(Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	16,711,388	72,739,365	11,166,555	100,617,308
2003	15,270,654	65,328,195	11,086,256	91,685,105
2004	13,325,138	64,252,316	8,252,738	85,830,192
2005	11,006,284	48,525,678	6,876,708	66,408,670
2006	9,217,910	51,568,797	5,183,113	65,969,820
2007	8,385,917	61,102,107	5,842,664	75,330,688
2008	7,686,180	49,011,952	3,951,968	60,650,100
2009	7,405,876	45,822,387	4,050,916	57,279,179
2010	7,042,385	48,420,430	6,175,270	61,638,085
2011	7,251,475	53,008,327	6,788,281	67,048,083
2012	7,483,821	53,411,350	4,972,599	65,867,770
2013	7,063,257	54,872,105	4,693,333	66,628,695
2014	6,284,596	54,977,775	5,132,659	66,395,030
2015	5,475,930	51,871,669	4,268,416	61,616,015
2016	4,617,700	41,914,675	3,296,296	49,828,671
2017	5,025,370	37,852,898	2,598,868	45,477,136
2018	5,054,113	31,992,469	2,873,126	39,881,808
2019	4,826,663	28,042,139	3,714,060	36,582,862
2020	4,798,860	22,317,006	3,007,999	30,123,865
January	370,867	1,855,344	231,823	2,458,034
February	277,627	1,619,698	221,126	2,118,451
March	405,107	1,927,528	242,655	2,575,290
April	363,339	1,775,978	227,092	2,366,409
May	396,380	1,875,095	254,200	2,525,675
June	391,727	1,823,596	242,091	2,457,414
July	454,734	1,913,024	275,139	2,642,897
August	445,118	1,727,340	217,423	2,389,881
September	411,921	902,280	72,922	1,387,123
October	374,124	1,490,678	203,296	2,068,098
November	417,672	1,635,468	322,959	2,376,099
December	432,096	1,724,682	431,267	2,588,045
<b>2021 Total</b>	<b>4,740,712</b>	<b>20,270,711</b>	<b>2,941,993</b>	<b>27,953,416</b>
January	482,108	1,671,241	333,427	2,486,776
February	470,799	1,446,259	308,270	2,225,328
March	496,583	1,581,799	395,549	2,473,931
April	381,930	1,738,974	386,503	2,507,407
May	460,118	1,751,392	339,412	2,550,922
June	440,250	1,825,063	262,092	2,527,405
July	478,652	1,935,560	254,128	2,668,340
August	463,608	1,733,251	332,239	2,529,098
September	428,963	1,849,471	321,023	2,599,457
October	458,972 p	1,715,918 p	328,917 p	2,503,807 p
November	424,673 p	1,830,976 p	317,813 p	2,573,462 p
December	454,382 p	1,698,759 p	325,627 p	2,478,769 p
<b>2022 Total</b>	<b>5,441,038 p</b>	<b>20,778,664 p</b>	<b>3,905,000 p</b>	<b>30,124,702 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B



Figure 4

### LOUISIANA STATE GAS PRODUCTION Actual and Forecasted Through Year 2030

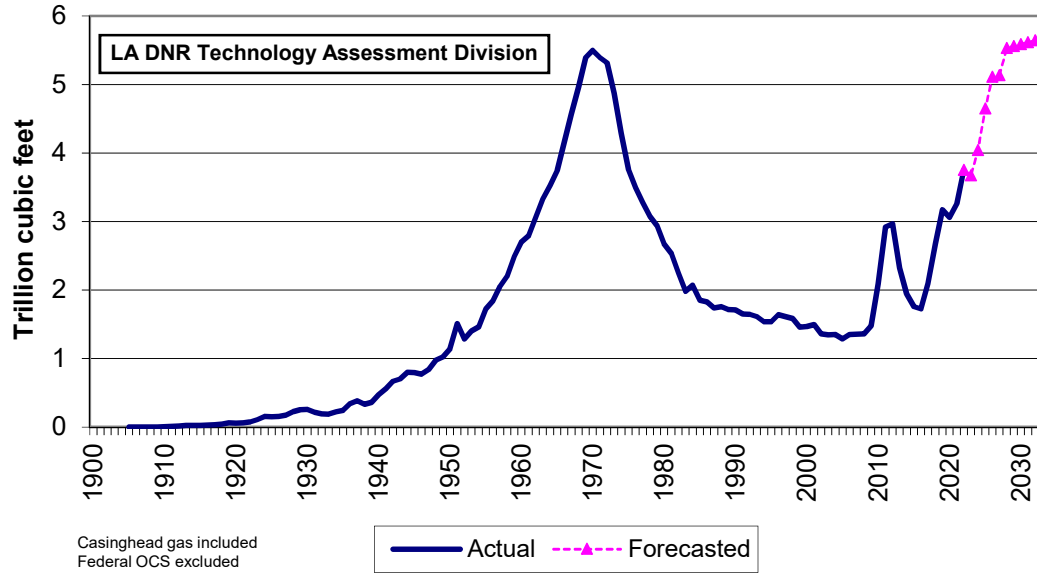
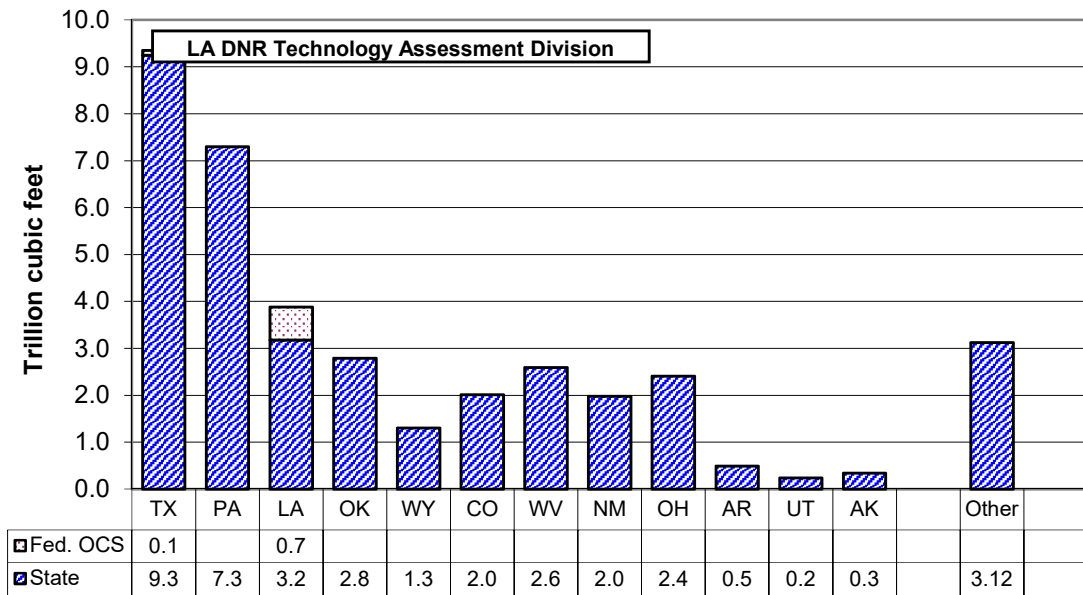


Figure 5

### 2022 UNITED STATES MARKETED GAS PRODUCTION BY STATE



Federal OCS Production estimated

Table 11

**LOUISIANA STATE GAS PRODUCTION, WET AFTER LEASE SEPARATION**  
**Natural Gas and Casinghead Gas, Excluding OCS**  
**(Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)\***

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
2002	387,069,536	876,556,069	98,236,172	1,361,861,777
2003	416,488,328	844,709,436	83,413,309	1,344,611,073
2004	475,425,191	806,165,872	68,134,157	1,349,725,220
2005	537,869,897	693,599,008	53,486,449	1,284,955,354
2006	571,855,790	710,839,849	67,273,125	1,349,968,764
2007	611,464,342	672,366,479	71,481,521	1,355,312,342
2008	684,054,142	591,428,816	83,936,258	1,359,419,216
2009	911,133,017	489,836,508	74,862,729	1,475,832,254
2010	1,610,269,087	408,220,740	68,472,242	2,086,962,069
2011	2,456,376,928	392,295,264	69,888,267	2,918,560,459
2012	2,512,134,036	375,838,655	76,839,040	2,964,811,731
2013	1,865,490,017	393,805,103	63,359,956	2,322,655,076
2014	1,532,743,490	362,994,396	47,938,598	1,943,676,484
2015	1,410,166,735	335,078,165	36,893,574	1,782,138,474
2016	1,433,821,666	264,908,454	27,915,604	1,726,645,724
2017	1,835,781,022	237,746,820	21,766,615	2,095,294,457
2018	2,487,591,590	216,943,594	16,662,202	2,721,159,486
2019	2,941,139,498	191,782,300	15,273,724	3,148,195,522
2020	2,910,788,056	144,582,831	11,888,625	3,067,259,512
January	254,237,928	11,444,300	925,134	266,607,362
February	200,309,589	9,583,972	793,878	210,687,439
March	262,280,970	11,325,541	884,777	274,491,288
April	252,279,012	10,708,206	890,865	263,878,083
May	259,937,020	10,974,967	847,894	271,759,881
June	250,079,610	10,516,711	796,164	261,392,485
July	253,348,701	11,490,411	966,173	265,805,285
August	267,083,729	10,560,899	788,350	278,432,978
September	255,303,596	8,491,872	417,030	264,212,498
October	289,260,204	11,319,694	595,674	301,175,572
November	288,764,307	11,123,382	541,031	300,428,720
December	292,033,194	11,542,338	524,131	304,099,663
<b>2021 Total</b>	<b>3,124,917,860</b>	<b>129,082,293</b>	<b>8,971,101</b>	<b>3,262,971,254</b>
January	301,482,783	11,800,217	590,144	313,873,144
February	273,571,340	10,680,424	598,414	284,850,178
March	301,955,541	11,444,387	722,103	314,122,031
April	305,927,793	11,128,637	634,522	317,690,952
May	327,874,291	11,166,231	687,922	339,728,444
June	316,443,844	10,903,220	624,371	327,971,435
July	319,920,008	11,161,455	650,743	331,732,206
August	305,746,491	10,723,823	613,416	317,083,730
September	282,028,210	9,735,955	353,125	292,117,290
October	302,622,483 p	10,397,196 p	595,329 p	313,615,009 p
November	279,217,798 p	10,380,806 p	600,360 p	290,198,964 p
December	299,657,972 p	10,542,135 p	819,380 p	311,019,486 p
<b>2022 Total</b>	<b>3,616,448,554 p</b>	<b>130,064,486 p</b>	<b>7,489,829 p</b>	<b>3,754,002,869 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 12

## LOUISIANA and GOM CENTRAL NATURAL GAS and CASINGHEAD PRODUCTION

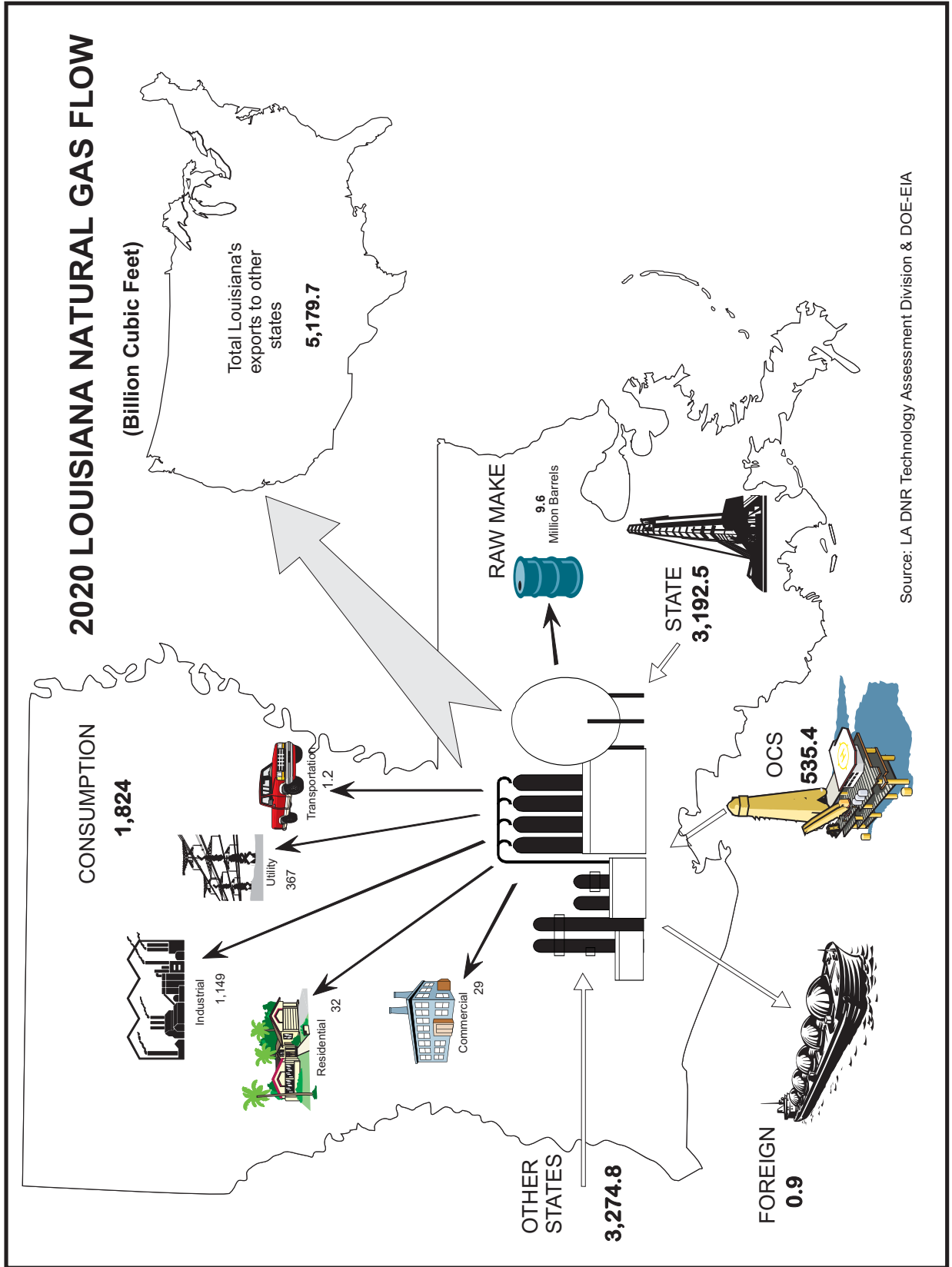
## Natural Gas and Casinghead Gas

(Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)\*

DATE	ONSHORE	OFFSHORE		TOTAL
		State	GOM Central	
2004	1,281,591,063	68,134,157	3,048,397,242	4,398,122,462
2005	1,231,468,905	53,486,449	2,393,359,338	3,678,314,692
2006	1,282,636,419	67,273,962	2,272,400,259	3,622,369,023
2007	1,283,766,986	71,412,494	2,292,135,779	3,647,448,121
2008	1,275,482,958	83,936,258	1,930,267,479	3,289,686,695
2009	1,400,969,525	74,862,729	2,084,867,099	3,560,699,353
2010	2,018,489,827	68,472,242	1,943,658,414	4,030,620,483
2011	2,848,672,192	69,888,267	1,574,039,140	4,492,599,599
2012	2,887,972,691	76,839,040	1,317,720,101	4,282,531,832
2013	2,259,295,120	63,359,956	1,153,096,210	3,475,751,286
2014	1,895,737,886	47,938,598	1,137,409,420	3,081,085,904
2015	1,745,244,900	36,893,574	1,170,127,267	2,952,265,741
2016	1,698,730,120	27,915,604	1,101,230,291	2,827,876,015
2017	2,704,535,184	21,766,615	985,555,167	3,080,849,624
2018	2,660,656,142	16,762,637	913,030,945	3,629,158,261
2017	2,704,535,184	21,766,615	985,555,167	3,080,849,624
2018	2,660,656,142	16,762,637	913,030,945	3,629,158,261
2019	3,132,921,798	15,273,724	957,818,745	4,106,014,267
2020	3,055,370,887	11,888,625	757,553,328	3,824,812,840
January	265,682,228	925,134	68,692,207	335,299,569
February	209,893,561	793,878	62,656,286	273,343,725
March	273,606,511	884,777	71,371,169	345,862,457
April	262,987,218	890,865	66,462,390	330,340,473
May	270,911,987	847,894	68,683,395	340,443,276
June	260,596,321	796,164	63,873,412	325,265,897
July	264,839,112	966,173	68,415,128	334,220,413
August	277,644,628	788,350	57,932,694	336,365,672
September	263,795,468	417,030	31,352,775	295,565,273
October	300,579,898	581,821	55,928,058	357,089,777
November	299,887,689	644,904	62,240,975	362,773,568
December	303,575,532	711,297	64,102,315	368,389,144
<b>2021 Total</b>	<b>3,254,000,153</b>	<b>9,248,287</b>	<b>741,710,804</b>	<b>4,004,959,244</b>
January	313,283,000	691,748	45,276,324	359,251,072
February	284,251,764	685,558	40,471,322	325,408,644
March	313,399,928	874,997	45,604,164	359,879,089
April	317,056,430	793,933	46,738,386	364,588,749
May	339,040,522	773,134	42,192,731	382,006,387
June	327,347,064	644,372	45,001,932	372,993,368
July	331,081,463	629,732	45,895,340	377,606,535
August	316,470,314	728,232	44,458,838	361,657,384
September	291,764,165	601,226	40,430,922	332,796,313
October	313,019,679 p	720,950 p	39,729,017 p	353,469,646 p
November	289,598,604 p	595,214 p	40,026,613 p	330,220,431 p
December	310,200,107 p	713,740 p	39,331,727 p	350,245,574 p
<b>2022 Total</b>	<b>3,746,513,040 p</b>	<b>8,452,836 p</b>	<b>515,157,316 p</b>	<b>4,270,123,192 p</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 6



**Table 13**

**GULF OF MEXICO MARKETED GAS PRODUCTION<sup>3</sup>**  
**(Billion Cubic Feet (BCF) at 15.025 psia and 60 degrees Fahrenheit)**

DATE	Alabama	Florida	Louisiana	Federal		Mississippi	Texas
				OCS	GOM		
1978	83.9	50.6	7,329.7	N/A	**	104.5	6,419.6
1979	84.1	49.2	7,123.6	N/A	**	141.2	7,033.8
1980	64.0	39.8	6,803.7	N/A	**	171.6	6,976.2
1981	77.7	31.8	6,647.1	N/A	**	177.7	6,774.4
1982	73.5	22.1	6,050.5	N/A	**	163.9	6,341.8
1983	89.0	20.6	5,227.4	N/A	**	148.2	5,822.0
1984	99.8	12.3	5,710.7	N/A	**	154.8	6,063.6
1985	105.2	10.3	4,915.3	N/A	**	141.3	5,933.8
1986	105.1	8.7	4,799.3	N/A	**	138.1	6,031.0
1987	114.9	8.1	5,021.9	N/A	**	137.0	6,006.0
1988	127.0	7.3	5,078.6	N/A	**	121.6	6,162.6
1989	125.9	7.4	4,978.4	N/A	**	100.6	6,118.9
1990	132.6	6.4	5,139.1	N/A	**	92.8	6,218.6
1991	167.5	4.8	4,935.5	N/A	**	105.9	6,157.3
1992	348.1	6.5	4,817.8	N/A	**	89.9	6,025.2
1993	380.4	6.9	4,893.1	N/A	**	79.1	6,126.9
1994	505.2	7.3	5,068.2	N/A	**	62.2	6,229.1
1995	509.5	6.3	5,008.1	N/A	**	93.7	6,205.8
1996	520.4	5.9	5,185.9	N/A	**	101.2	6,343.6
1997	381.0	6.0	1,475.5	5,103.8		105.2	5,065.9
1998	384.7	5.7	1,521.5	4,976.8		105.9	5,124.8
1999	374.2	5.8	1,536.2	4,931.0		108.8	4,955.2
2000	356.3	6.4	1,426.4	4,837.5		86.8	5,178.4
2001	349.8	5.6	1,472.6	4,928.9		105.4	5,179.0
2002	349.1	3.3	1,335.0	4,423.4		110.8	5,040.1
2003	339.3	3.0	1,323.9	4,319.9		131.3	5,140.6
2004	309.8	3.1	1,326.7	3,891.5		62.1	4,967.8
2005	290.7	2.6	1,270.6	3,070.6		51.9	5,172.8
2006	280.6	2.5	1,334.4	2,845.0		59.3	5,439.1
2007	265.1	1.7	1,338.5	2,743.8		72.0	6,003.0
2008	252.8	2.4	1,350.9	2,268.9		94.7	6,824.0
2009	231.4	0.3	1,518.2	2,381.2		86.4	6,685.1
2010	218.6	12.2	2,166.7	2,201.0		72.3	6,583.4
2011	191.7	14.8	2,969.7	1,776.7		79.9	6,973.2
2012	211.5	0.8	2,897.4	1,507.6		63.8	7,475.5
2013	196.3	0.3	2,360.2	1,309.2		59.3	7,633.6
2014	181.1	0.5	1,960.8	1,253.7		54.4	7,985.0
2015	168.2	0.8	1,805.2	1,291.9		58.2	7,890.5
2016	164.8	0.7	1,784.4	1,200.7		48.5	7,225.5
2017	150.0	0.7	2,138.9	1,060.3		38.4	7,135.5
2018	139.5	0.8	2,810.6	975.3		35.6	8,041.6
2019	130.6	0.8	3,223.6	1,015.4		33.3	9,298.6
2020	117.0	0.7	3,206.0	789.3		28.1	9,333.9
2021	107.2	0.9	3,431.4	780.5		27.6	9,875.4

e Estimated r Revised p Preliminary See footnote in Appendix B

\*\* Prior to 1997 Federal OCS GOM production was included in state productions

Table 14

**LOUISIANA STATE GAS PRODUCTION BY TAX RATES**  
**AS PUBLISHED IN SEVERANCE TAX REPORTS<sup>8</sup>**  
**(MCF at 15.025psia and 60 degrees Fahrenheit)**

DATE	FULL RATE	INCAPABLE GAS WELLS RATE	OTHER RATES	TAXED VOLUME
2002	1,068,512,639	75,724,074	7,748,258	1,151,984,971
2003	1,091,483,424	80,659,914	7,963,553	1,180,106,891
2004	1,139,626,885	83,441,736	5,507,456	1,235,308,986
2005	1,130,014,025	91,951,579	5,120,095	1,227,085,699
2006	1,134,544,485	113,490,843	5,835,027	1,253,870,355
2007	1,070,511,169	122,399,829	7,550,345	1,200,461,343
2008	1,044,876,723	137,853,642	6,398,792	1,189,129,157
2009	994,356,639	168,793,831	4,489,808	1,167,640,278
2010	874,590,391	177,946,449	7,737,200	1,060,274,040
2011	729,242,365	179,471,125	9,251,347	917,964,837
2012	854,908,764	176,578,354	6,655,754	1,038,142,872
2013	758,214,527	174,056,487	8,764,522	941,035,536
2014	1,122,007,861	164,803,849	7,760,331	1,294,572,041
2015	1,160,262,405	146,406,047	7,692,660	1,314,361,112
2016	901,247,546	141,379,847	6,574,263	1,049,201,656
2017	1,101,463,917	62,993,814	4,671,346	1,169,129,077
2018	1,387,470,600	125,871,587	5,058,684	1,518,400,871
2019	1,628,727,877	123,185,697	3,690,336 *	1,755,603,910
2020	1,320,355,629	111,805,065	4,096,526	1,436,257,220
January	104,591,774	8,979,237	165,325	113,764,848
February	36,991,586	8,517,251	174,985	45,703,215
March	77,395,357	9,087,215	193,985	86,696,867
April	70,952,536	7,360,949	94,942	78,449,279
May	118,077,974	8,612,588	138,994	126,889,252
June	103,244,322	9,685,599	229,048	113,158,969
July	138,862,394	9,681,219	276,678	148,821,107
August	140,069,137	9,133,684	199,683	149,402,504
September	137,393,229	8,648,207	191,302	146,232,738
October	163,608,327	8,997,429	198,313	172,804,069
November	141,741,145	9,238,737	136,061	151,115,943
December	103,568,314	9,494,240	130,157	113,218,011
<b>2021 Total</b>	<b>1,336,496,095</b>	<b>107,436,355</b>	<b>2,129,473</b>	<b>1,446,256,802</b>
January	150,487,508	5,789,821	136,225	156,413,554
February	247,497,777	13,591,171	245,838	261,334,786
March	256,048,028	9,841,700	195,483	266,085,211
April	194,573,133	9,867,267	242,021	204,682,421
May	211,356,735	8,997,440	175,540	220,529,715
June	175,628,886	8,249,152	258,391	220,529,715
July	238,413,728	9,067,953	389,488	247,871,169
August	154,567,213	3,142,671	1,791,371	159,401,255
September	334,870,986	9,884,036	62,328,926	407,083,748
October	458,912,184	3,146,908	59,644,239	521,115,976
November	179,831,731	7,696,515	67,210,161	254,738,407
December	129,428,775	9,102,307	65,884,761	204,415,843
<b>2022 Total</b>	<b>2,731,616,684</b>	<b>98,376,941</b>	<b>258,502,444</b>	<b>3,124,201,800</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 15**

**UNITED STATES OCS GAS PRODUCTION<sup>12</sup>**  
**Natural Gas and Casinghead Gas**  
**(MCF at 15.025 psia and 60 degrees Fahrenheit)\***

<b>YEAR</b>	<b>LOUISIANA</b>	<b>TEXAS</b>	<b>CALIFORNIA</b>	<b>TOTAL</b>
1979	4,076,873,552	501,546,069	5,431,822	4,583,851,442
1980	3,934,902,550	612,378,333	5,900,023	4,553,180,906
1981	4,025,867,929	715,937,640	12,763,307	4,754,568,877
1982	3,729,057,653	841,173,981	17,751,924	4,587,983,558
1983	3,111,576,348	834,112,318	24,168,292	3,969,856,958
1984	3,508,475,799	913,008,621	46,363,899	4,467,848,319
1985	3,055,687,773	818,533,627	64,558,213	3,938,779,613
1986	2,870,347,386	959,161,285	59,078,021	3,888,586,692
1987	3,117,669,167	1,180,839,487	54,805,158	4,353,313,812
1988	3,036,077,646	1,155,285,485	49,167,638	4,240,530,769
1989	2,947,545,132	1,142,237,197	50,791,912	4,140,574,242
1990	3,633,554,307	1,321,607,333	49,972,764	5,005,134,404
1991	3,225,373,562	1,161,671,524	51,855,577	4,438,900,663
1992	3,272,561,370	1,215,055,449	55,231,660	4,608,807,577
1993	3,320,312,261	1,007,755,289	52,150,277	4,455,275,861
1994	3,423,837,064	994,291,314	53,560,686	4,578,282,175
1995	3,564,677,663	890,682,224	54,790,061	4,619,222,806
1996	3,709,198,609	953,772,416	66,783,677	4,955,474,989
1997	3,825,354,038	946,381,458	73,344,546	5,010,736,875
1998	3,814,583,541	850,572,237	74,984,850	4,789,522,576
1999	3,836,619,562	798,140,396	77,809,430	4,935,623,726
2000	3,761,812,062	869,068,079	76,074,550	4,919,901,921
2001	3,818,657,416	898,035,393	70,946,682	5,145,905,423
2000	3,761,812,062	869,068,079	76,074,550	4,919,901,921
2001	3,818,657,416	898,035,393	70,946,682	5,145,905,423
	<b>GULF OF MEXICO<sup>12</sup></b>		<b>PACIFIC<sup>7</sup></b>	<b>TOTAL</b>
	<b>CENTRAL</b>	<b>WESTERN</b>		
2002	3,711,664,200	812,271,646	67,816,000	4,534,984,410
2003	3,498,876,681	930,004,249	58,095,000	4,439,929,494
2004	3,048,397,242	957,120,117	54,655,000	4,016,565,923
2005	2,393,359,338	762,118,570	54,134,794	3,166,526,472
2006	2,272,400,259	649,372,254	47,153,866	2,932,821,077
2007	2,292,135,779	520,160,276	45,589,671	2,823,344,619
2008	1,930,267,479	399,312,145	46,911,954	2,340,628,188
2009	2,084,867,099	365,965,839	41,233,149	2,461,881,502
2010	1,943,658,414	304,429,714	41,238,185	2,259,136,692
2011	1,574,039,140	252,180,858	36,579,269	1,837,268,562
2012	1,317,720,101	217,944,400	27,262,401	1,546,713,065
2013	1,153,096,210	175,037,012	27,453,674	1,355,586,896
2014	1,137,409,420	139,067,562	28,244,946	1,304,721,928
2015	1,170,192,451	137,551,631	14,734,938	1,322,479,020
2016	1,087,954,512	117,609,632	4499110	1,210,063,254
2017	985,018,095	92,653,569	3,953,694	1,077,671,664
2018	916,369,170	76,133,636	3,427,581	995,930,387
2019	957,818,745	72,752,236	3,024,684 p	1,033,595,665
2020	757,553,328	46,478,672	3,597,523	807,629,523
2021	741,710,804	50,039,055	3,762,983 *	795,512,842 *

NOTE: Starting in 2002 MMS has not formally published production by state adjacent areas  
 e Estimated r Revised p Preliminary See footnote in Appendix B

Table 16

**UNITED STATES NATURAL GAS AND CASINGHEAD GAS PRODUCTION<sup>3</sup>**  
 (Billion Cubic Feet (BCF) at 15.025 psia and 60 degrees Fahrenheit)\*

DATE	GROSS	WET AFTER LEASE SEPARATION	MARKETED	DRY	GROSS IMPORTS
2002	23,471	19,592	19,530	18,591	3,899
2003	23,645	19,678	19,582	18,724	3,937
2004	23,499	19,230	19,134	18,226	3,866
2005	22,996	18,672	18,555	17,696	4,175
2006	23,046	19,156	19,001	18,113	4,256
2007	24,108	19,940	19,626	18,714	4,104
2008	25,133	20,861	20,698	19,763	4,517
2009	25,545	21,385	21,223	20,219	3,906
2010	26,290	22,105	21,942	20,897	3,678
2011	27,920	24,621	23,564	22,452	3,667
2012	28,962	26,097	25,283	24,033	3,401
2013	28,943	26,467	25,562	24,206	3,076
2014	30,789	28,094	27,498	25,890	2,642
2015	32,915	29,323	28,772	27,065	2,642
2016	32,592	27,920	28,400	26,592	2,947
2017	33,357	28,493	29,197	27,291	3,006
2018	37,129	32,735	32,823	30,589	2,913
2019	40,680	35,836	36,190	33,651	2,742
2020	40,709	35,824	36,130	36,493	2,563
January	3,505	3,084	3,100	2,868	284 r
February	2,923	2,572	2,577	2,407	272 r
March	3,484	3,066	3,081	2,852	239 r
April	3,396	2,988	3,025	2,788	208 r
May	3,510	3,089	3,130	2,883	205 r
June	3,391	2,984	3,036	2,797	208 r
July	3,491	3,072	3,151	2,904	228 r
August	3,531	3,107	3,172	2,922	221 r
September	3,415	3,005	3,053	2,811	220 r
October	3,595	3,164	3,220	2,963	228 r
November	3,551	3,125	3,161	2,909	242 r
December	3,683	3,241	3,271	3,012	253 r
<b>2021 Total</b>	<b>41,475</b>	<b>36,498</b>	<b>36,977</b>	<b>34,116</b>	<b>2,808 r</b>
January	3,594	3,163	3,199	2,943	296
February	3,227	2,840	2,870	2,647	259
March	3,613	3,179	3,225	2,958	261
April	3,520	3,098	3,151	2,895	247
May	3,667	3,227	3,296	3,030	230
June	3,556	3,129	3,211	2,955	228
July	3,689	3,246	3,330	3,054	257
August	3,699	3,255	3,349	3,079	235
September	3,635	3,199	3,279	3,014	233
October	3,766	3,314	3,391	3,116	236
November	3,778 e	3,294 e	3,429 e	3,043 e	243 e
December	3,864 e	3,376 e	3,498 e	3,251 e	257 e
<b>2022 Total</b>	<b>43,608 e</b>	<b>38,320 e</b>	<b>39,228 e</b>	<b>35,985 e</b>	<b>2,982 e</b>

e Estimated r Revised p Preliminary See footnote in Appendix B



Table 17

## LOUISIANA AVERAGE CRUDE OIL PRICES

(Dollars per Barrel)

DATE	LIGHT LOUISIANA SWEET		ALL GRADES AT WELLHEAD			
	Spot Market <sup>10</sup>	Refinery Posted	State <sup>6</sup>	OCS Gulf <sup>6</sup>	Severance Tax <sup>8</sup>	State Royalty
2002	26.18	23.14	24.93	23.49	25.17	24.39
2003	31.20	27.88	30.51	28.68	30.28	29.77
2004	41.47	37.85	40.43	37.54	38.34	39.06
2005	56.86	52.75	54.68	50.97	54.62	52.20
2006	67.44	62.41	64.17	60.62	63.55	63.08
2007	74.60	68.96	71.98	67.62	64.14	71.87
2008	102.29	96.57	99.53	100.00	104.86	97.60
2009	64.28	59.04	59.27	57.57	52.78	57.54
2010	82.72	75.90	78.23	77.13	75.24	77.71
2011	112.24	93.61	106.30	106.19	101.40	108.89
2012	111.79	93.71	105.98	105.85	107.46	110.88
2013	107.35	93.99	105.16	103.50	106.75	107.09
2014	96.83	88.29	94.44	93.61	96.84	95.14
2015	52.36	43.99	48.38	47.96	55.93	48.60
2016	44.86	38.40	41.25	38.46	38.44	40.23
2017	54.10	51.35	50.44	48.50	49.59	50.33
2018	69.69	66.06	66.56	65.92	64.86	66.70
2019	62.49	60.12	59.43	59.41	61.22 e	60.04
2020	38.72	39.69	38.04	38.10	39.99	37.52
January	54.20	51.78	50.68	49.87	38.96	50.64
February	61.17	59.16	58.36	56.39	30.64	57.90
March	64.51	62.07	61.70	60.99	66.48	61.59
April	63.73	62.53	61.24	61.25	47.41	60.81
May	67.25	65.01	64.08	63.27	66.14	63.09
June	72.91	70.63	70.18	68.53	57.30	70.28
July	73.05	72.27	71.50	70.71	62.91	71.24
August	68.51	68.29	66.38	67.01	72.04	66.56
September	72.95	71.15	69.98	67.57	70.56	66.81
October	82.29	79.23	79.91	75.79	66.03	76.81
November	79.42	78.33	77.25	76.57	75.73	77.19
December	73.54	73.22	70.69	71.64	81.21	71.59
<b>2021 Average</b>	<b>69.46</b>	<b>67.81</b>	<b>66.83</b>	<b>65.80</b>	<b>61.28</b>	<b>66.21</b>
January	85.29	80.87	81.83	77.79	80.05	81.68
February	94.11	90.01	91.37	86.55	70.05	90.78
March	110.93	106.31	109.42	102.81	79.89	108.87
April	103.50	105.33	104.20	104.48	94.44	103.71
May	111.22	109.82	109.61	106.82	104.37	109.14
June	115.91	113.88	115.18	111.67	102.77	114.77
July	102.02	102.46	101.06	101.28	114.31	99.38
August	94.17	95.32	93.84	94.46	100.94	93.51
September	86.26	86.18	84.69	86.01	90.20	86.11
October	89.72	87.30	87.00	85.58	86.84 e	87.94
November	88.41	86.43 e	86.52 e	82.98 e	78.79 e	85.82
December	77.87	75.67 e	76.04 e	74.23 e	73.96 e	74.97 e
<b>2022 Average</b>	<b>96.62</b>	<b>97.75 e</b>	<b>97.82 e</b>	<b>95.75 e</b>	<b>88.23 e</b>	<b>96.52 e</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 9

**CRUDE OIL AVERAGE PRICES**

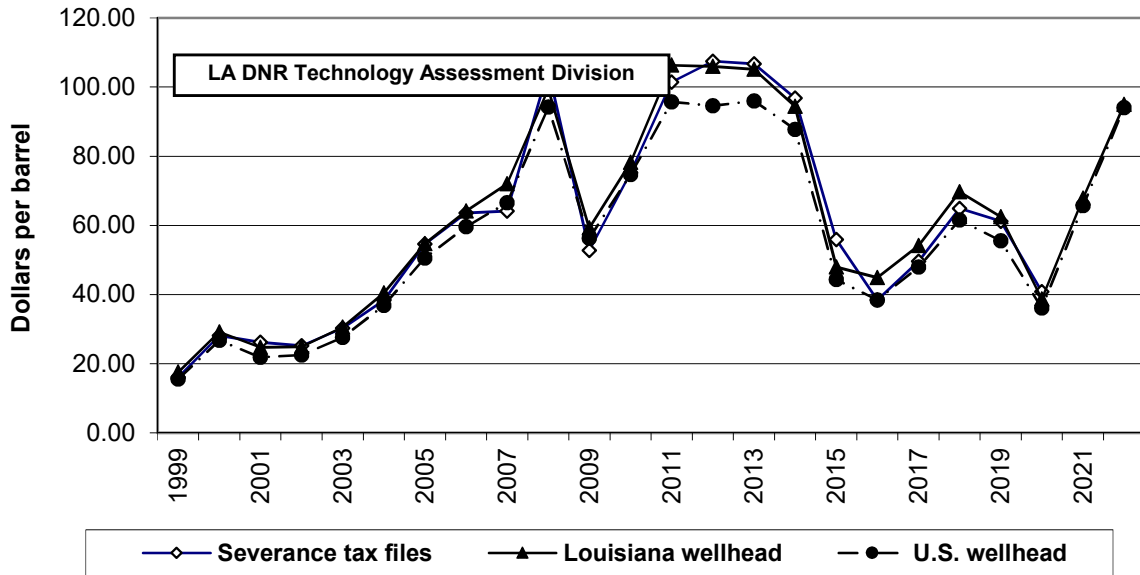


Figure 10

**NATURAL GAS AVERAGE PRICES**

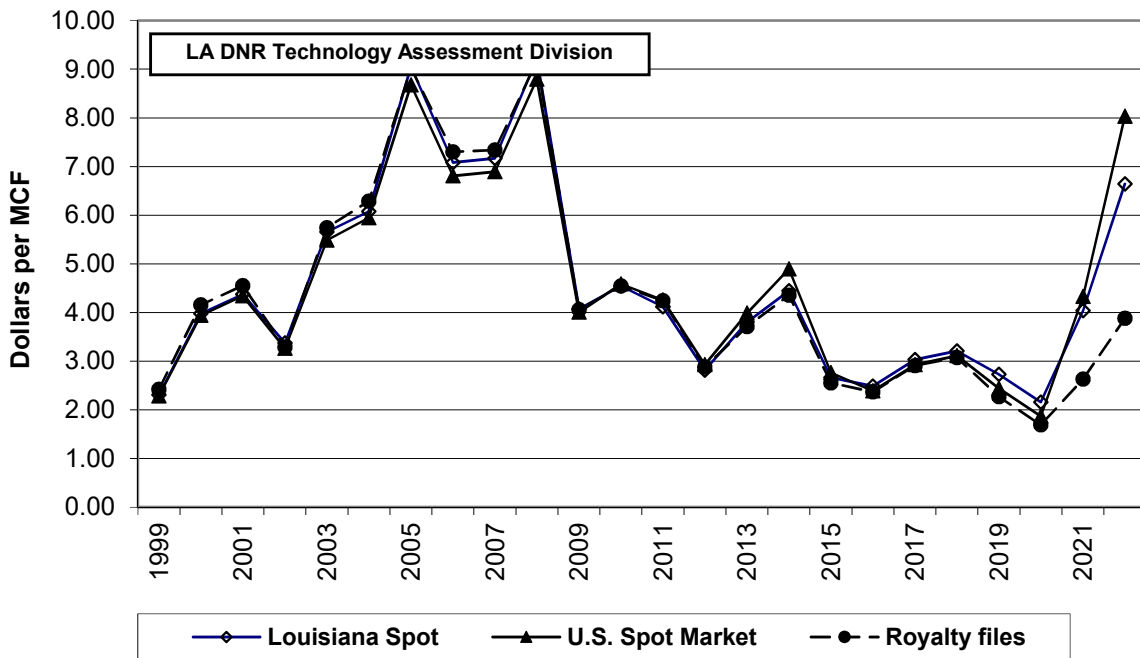


Table 18

**UNITED STATES AVERAGE CRUDE OIL PRICES<sup>2</sup>**  
(Dollars per Barrel)

DATE	REFINERY ACQUISITION		DOMESTIC WELLHEAD	IMPORTS LANDED	IMPORTS FOB	IMPORTS OPEC FOB
	Domestic Costs	Imports Costs				
2002	29.81	27.85	27.55	27.83	26.06	25.61
2003	38.97	35.79	36.86	36.05	33.73	33.99
2004	53.05	48.93	50.53	49.41	47.74	49.75
2005	62.50	58.89	59.65	59.03	57.03	59.17
2006	69.56	67.13	66.56	67.86	66.12	68.98
2007	98.09	92.30	94.22	92.14	89.45	91.23
2008	58.95	59.37	56.31	60.30	58.12	58.92
2009	77.94	75.92	74.64	76.53	74.21	75.31
2010	100.62	102.50	95.69	102.92	101.65	105.30
2011	100.91	101.07	94.63	100.86	99.54	104.08
2012	102.93	98.03	96.00	96.90	96.51	100.54
2013	94.45	89.57	87.71	88.09	85.60	89.14
2014	49.86	46.51	44.31	45.43	41.92	43.53
2015	49.86	46.51	44.31	45.43	41.92	43.53
2016	42.34	38.68	38.37	38.48	36.11	38.02
2017	51.95	49.26	47.95	48.56	45.75	49.99
2018	67.12	60.99	61.52	58.65	56.17	65.53
2019	60.25	57.86	55.54	56.55	54.15	62.89
2020	40.41	37.28	36.73	36.38	32.82	40.74
January	52.44	49.60	49.73	49.38	46.77	55.26
February	60.14	55.71	56.72	55.50	53.08	60.66
March	63.22	59.84	60.67	59.12	57.48	63.76
April	63.25	60.88	59.87	60.75	57.83	64.57
May	65.94	63.81	62.80	63.92	61.76	68.01
June	71.61	68.86	68.57	67.50	64.97	71.60
July	73.28	69.91	70.12	68.11	65.73	73.71
August	69.26	65.72	65.67	65.82	63.00	71.50
September	72.38	69.27	69.08	68.66	66.36	76.73
October	80.84	75.94	78.51	75.61	73.40	78.24
November	79.60	76.61	76.46	74.40	71.08	79.24
December	74.46	68.22	70.55	65.62	62.94	75.09
<b>2021 Average</b>	<b>68.87</b>	<b>65.36</b>	<b>65.73</b>	<b>64.53</b>	<b>62.03</b>	<b>69.86</b>
January	82.45	76.93	80.32	76.46	72.91	88.47
February	91.96	87.48	89.41	87.62	86.15	98.60
March	108.56	104.48	107.07	101.86	99.70	111.95
April	106.73	102.62	103.32	101.72	98.92	109.45
May	111.56	106.79	108.29	105.59	103.75	115.18
June	115.88	112.13	113.77	109.47	106.89	113.76
July	104.82	99.67	100.84	96.01	92.17	103.06
August	98.11	92.21	93.76	88.54	83.30	102.01
September	86.57	83.30	84.62	81.16	75.88	92.39
October	87.99	84.13	86.62	78.36	73.49 e	88.24 e
November	85.47	79.90	81.82 e	77.72 e	70.87 e	86.04 e
December	80.84 e	73.64 e	75.67 e	71.84 e	68.96 e	79.57 e
<b>2022 Average</b>	<b>98.19 e</b>	<b>93.60 e</b>	<b>96.80 e</b>	<b>92.68 e</b>	<b>91.07 e</b>	<b>103.87 e</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 19

## LOUISIANA NATURAL GAS WELLHEAD PRICES (MCF)

(Dollars/Thousand Cubic Feet)

DATE	GOM	DNR	HENRY HUB		SPOT MARKET <sup>5</sup>		
	Federal OCS <sup>12</sup>	State Royalty	Settled NYMEX	Cash Spot	Low	High	Average
2002	2.98	3.29	3.39	3.48	3.29	3.43	3.37
2003	5.12	5.74	5.61	5.71	5.32	5.92	5.66
2004	6.04	6.29	6.39	6.14	5.98	6.18	6.08
2005	6.84	9.03	8.96	9.19	8.84	9.26	9.05
2006	8.24	7.35	7.54	7.00	6.91	7.24	7.08
2007	6.86	7.39	7.13	7.26	7.08	7.29	7.17
2008	9.04	9.17	9.40	9.23	9.12	9.34	9.21
2009	5.03	4.05	4.15	4.11	3.98	4.16	4.07
2010	4.10	4.54	4.57	4.56	4.47	4.61	4.55
2011	4.48	4.24	4.20	4.16	4.04	4.17	4.11
2012	3.07	2.88	2.90	2.86	2.75	2.87	2.82
2013	3.58	3.71	3.80	3.87	3.68	3.92	3.80
2014	4.28	4.35	4.59	4.54	3.98	5.14	4.44
2015	3.33	2.55	2.77	2.71	2.44	2.87	2.67
2016	2.26	2.37	2.56	2.59	2.21	2.74	2.49
2017	2.96	2.91	3.18	3.18	2.76	3.28	2.94
2018	3.08	3.06	3.21	3.26	2.77	3.48	3.21
2019	2.96	2.42	2.73	2.63	2.57	3.04	2.73
2020	2.96	1.74	2.08	2.08	2.09	2.23	2.16
January	N/A	2.42	2.57	2.77	2.52	2.83	2.75
February	N/A	3.93	2.87	6.57	2.76	24.55	5.69
March	N/A	2.73	2.97	2.70	2.55	2.94	2.67
April	N/A	2.42	2.69	2.72	2.45	3.05	2.71
May	N/A	2.77	3.04	3.01	2.89	3.13	3.01
June	N/A	3.01	3.10	3.36	3.08	3.89	3.36
July	N/A	3.66	3.76	3.93	3.68	4.25	3.96
August	N/A	3.80	4.21	4.21	3.97	4.51	4.20
September	N/A	4.57	4.54	5.23	4.70	6.17	5.32
October	N/A	5.41	6.07	5.68	4.97	6.48	5.70
November	N/A	5.35	6.45	5.25	4.69	5.93	5.22
December	N/A	4.25	5.66	3.91	3.43	4.40	3.87
<b>2021 Average</b>	<b>N/A</b>	<b>3.69</b>	<b>4.00</b>	<b>4.11</b>	<b>3.47</b>	<b>6.01</b>	<b>4.04</b>
January	N/A	4.05	4.18	4.42	5.86	3.72	4.51
February	N/A	5.28	6.52	4.80	4.09	6.70	4.83
March	N/A	4.55	4.75	4.97	4.51	5.71	5.08
April	N/A	5.82	5.55	6.78	5.69	7.86	6.83
May	N/A	7.49	7.56	8.27	7.59	9.67	8.41
June	N/A	8.84	9.34	8.11	6.13	9.84	7.98
July	N/A	6.96	6.81	8.53	5.86	9.69	7.55
August	N/A	8.62	9.03	9.41	8.08	10.24	9.14
September	N/A	8.35	9.73	7.74	6.54	9.62	8.13
October	N/A	5.52	7.14	5.78	4.61	7.19	5.91
November	N/A	4.19 e	5.39	5.20	4.10	7.07	5.58
December	N/A	5.05 e	6.98	5.64	3.69	7.59	5.74
<b>2022 Average</b>	<b>N/A</b>	<b>6.23 e</b>	<b>6.92</b>	<b>6.64</b>	<b>5.56</b>	<b>7.91</b>	<b>6.64</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 19A

## LOUISIANA NATURAL GAS WELLHEAD PRICES (MMBTU)

(Dollars/MMBTU)

DATE	GOM	DNR	HENRY HUB		SPOT MARKET <sup>5</sup>		
	Federal	State	Settled	Cash	Low	High	Average
	OCS <sup>12</sup>	Royalty	NYMEX	Spot			
2002	2.87	3.16	3.26	3.35	3.16	3.30	3.24
2003	4.92	5.52	5.40	5.49	5.11	5.69	5.44
2004	5.81	6.04	6.15	5.90	5.75	5.95	5.85
2005	6.58	8.68	8.62	8.83	8.50	8.90	8.70
2006	7.92	7.07	7.25	6.73	6.64	6.96	6.81
2007	6.60	7.11	6.86	6.98	6.80	7.01	6.89
2008	8.69	8.81	9.03	8.88	8.77	8.99	8.86
2009	4.84	3.90	3.99	3.95	3.82	4.00	3.92
2010	3.94	4.37	4.39	4.39	4.30	4.44	4.37
2011	4.31	4.08	4.04	4.00	3.88	4.01	3.96
2012	2.95	2.77	2.79	2.75	2.64	2.76	2.71
2013	3.44	3.57	3.65	3.72	3.54	3.77	3.65
2014	4.12	4.18	4.41	4.37	3.82	4.95	4.27
2015	3.20	2.45	2.66	2.61	2.34	2.76	2.56
2016	2.26	2.28	2.46	2.49	2.13	2.63	2.39
2017	2.85	2.80	3.06	2.99	2.66	3.16	2.91
2018	2.96	2.94	3.09	3.16	2.66	3.34	3.09
2019	N/A	2.33	2.63	2.52	2.47	2.92	2.63
2020	N/A	1.67	2.00	2.04	1.76	2.18	2.00
January	N/A	2.33	2.47	2.66	2.42	2.72	2.64
February	N/A	3.77	2.76	6.32	2.65	23.61	5.47
March	N/A	2.62	2.85	2.60	2.45	2.83	2.57
April	N/A	2.33	2.59	2.62	2.36	2.93	2.61
May	N/A	2.67	2.93	2.89	2.78	3.01	2.89
June	N/A	2.89	2.98	3.23	2.96	3.74	3.23
July	N/A	3.52	3.62	3.78	3.54	4.09	3.81
August	N/A	3.65	4.04	4.05	3.82	4.34	4.04
September	N/A	4.39	4.37	5.03	4.52	5.93	5.12
October	N/A	5.20	5.84	5.46	4.78	6.23	5.48
November	N/A	5.14	6.20	5.05	4.51	5.70	5.02
December	N/A	4.09	5.45	3.76	3.30	4.23	3.72
<b>2021 Average</b>	<b>N/A</b>	<b>3.55</b>	<b>3.84</b>	<b>3.95</b>	<b>3.34</b>	<b>5.78</b>	<b>3.88</b>
January	N/A	4.05	4.02	4.25	5.63	3.58	4.34
February	N/A	5.28	6.27	4.62	3.93	6.44	4.64
March	N/A	4.55	4.57	4.78	4.34	5.49	4.88
April	N/A	5.82	5.34	6.52	5.47	7.56	6.57
May	N/A	7.47	7.27	7.95	7.30	9.30	8.09
June	N/A	8.84	8.98	7.80	5.89	9.46	7.67
July	N/A	6.96	6.55	8.20	5.63	9.32	7.26
August	N/A	8.61	8.69	9.05	7.77	9.85	8.79
September	N/A	8.30	9.35	7.44	6.29	9.25	7.82
October	N/A	5.77	6.87	5.56	4.43	6.91	5.68
November	N/A	4.87	5.19	5.00	3.94	6.80	5.37
December	N/A	5.12	6.71	5.42	3.55	7.30	5.52
<b>2022 Average</b>	<b>N/A</b>	<b>6.30</b>	<b>6.65</b>	<b>6.38</b>	<b>5.35</b>	<b>7.61</b>	<b>6.39</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 20

**LOUISIANA AVERAGE NATURAL GAS PRICES  
DELIVERED TO CONSUMER<sup>3</sup> (MCF)  
(Dollars/Thousand Cubic Feet)**

DATE	CITY GATES	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	UTILITY
2002	4.07	8.06	6.74	3.69	3.63
2003	5.78	10.29	8.81	5.53	5.94
2004	6.56	11.20	9.56	6.58	6.50
2005	8.56	13.26	11.41	9.11	9.14
2006	7.67	14.66	11.84	7.42	7.66
2007	7.22	14.20	11.83	7.08	7.53
2008	9.58	15.49	13.52	9.32	10.01
2009	5.96	13.15	10.46	4.31	4.35
2010	5.43	11.73	9.88	4.68	4.79
2011	5.67	11.37	9.36	4.25	4.45
2012	3.48	11.54	8.44	2.96	2.99
2013	4.12	10.80	8.59	3.86	3.93
2014	4.90	10.89	9.01	5.05	4.67
2015	3.32	10.77	8.01	3.33	3.17
2016	3.65	13.06	7.94	3.12	2.76
2017	3.99	14.31	8.82	3.75	w
2018	3.93	13.62	8.49	3.45	w
2019	3.57	13.37	8.37	3.38	w
2020	2.82	13.59	8.28	2.64	w
January	3.04	9.89	9.14	3.55	w
February	4.18	9.00	8.18	2.94	w
March	3.83	9.85	8.41	3.58	w
April	3.56	13.32	9.08	3.41	w
May	3.27	16.59	9.17	3.16	w
June	3.39	18.12	9.12	3.36	w
July	3.77	19.23	10.06	3.43	w
August	3.67	21.27	11.55	3.62	w
September	4.08	17.49	10.24	4.29	w
October	5.23	18.92	11.96	4.38	w
November	4.35	13.67	10.24	6.29	w
December	5.25	16.34	12.48	6.88	w
<b>2021 Average</b>	<b>3.97</b>	<b>15.31</b>	<b>9.97</b>	<b>4.07</b>	<b>w</b>
January	4.47	10.89	N/A	5.96	w
February	5.06	12.76	12.01	4.82	w
March	4.69	12.40	10.67	6.66	w
April	5.48	17.09	12.22	5.20	w
May	5.98	23.12	14.59	5.82	w
June	6.33	25.54	15.23	7.69	w
July	5.44	25.32	14.65	8.69	w
August	6.47	28.19	16.72	6.74	w
September	6.78	26.43	15.15	9.15	w
October	6.25	21.25	14.27	10.01	w
November	5.56	15.23	12.72	7.12	w
December	6.57	14.29	13.12	4.96	w
<b>2022 Average</b>	<b>5.68</b>	<b>19.38</b>	<b>13.82</b>	<b>7.08</b>	<b>w</b>

w = Withheld to avoid disclosure of individual company data

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 20A

**LOUISIANA AVERAGE NATURAL GAS PRICES  
DELIVERED TO CONSUMER<sup>3</sup> (MMBTU)  
(Dollars/MMBTU)**

<b>DATE</b>	<b>CITY GATES</b>	<b>RESIDENTIAL</b>	<b>COMMERCIAL</b>	<b>INDUSTRIAL</b>	<b>UTILITY</b>
2002	3.91	7.74	6.47	3.54	3.48
2003	5.55	9.88	8.46	5.31	5.70
2004	6.30	10.75	9.18	6.32	6.24
2005	8.22	12.73	10.95	8.75	8.77
2006	7.36	14.07	11.37	7.12	7.35
2007	6.93	13.63	11.36	6.80	7.23
2008	9.20	14.87	12.98	8.95	9.61
2009	5.72	12.62	10.04	4.14	4.18
2010	5.21	11.26	9.48	4.49	4.60
2011	5.44	10.92	8.99	4.08	4.27
2012	3.34	11.08	8.10	2.84	2.87
2013	3.96	10.37	8.25	3.71	3.77
2014	4.70	10.45	8.65	4.85	4.49
2015	3.19	10.34	7.69	3.20	3.04
2016	3.51	12.56	7.63	3.00	2.75
2017	3.83	13.76	8.48	3.60	w
2018	3.78	13.10	8.16	3.32	w
2019	3.43	12.85	8.05	3.25	w
2020	2.71	13.36	7.67	2.60	w
January	2.92	9.51	8.79	3.41	w
February	4.02	8.65	7.87	2.83	w
March	3.68	9.47	8.09	3.44	w
April	3.42	12.81	8.73	3.28	w
May	N/A	15.95	8.82	3.04	w
June	3.26	17.42	8.77	3.23	w
July	3.63	18.49	N/A	3.30	w
August	N/A	20.45	N/A	N/A	w
September	3.92	16.82	N/A	N/A	w
October	5.03	18.19	N/A	N/A	w
November	4.18	13.14	N/A	6.05	w
December	5.05	15.71	N/A	6.62	w
<b>2021 Average</b>	<b>3.91</b>	<b>14.72</b>	<b>8.51</b>	<b>3.91</b>	<b>w</b>
January	4.30	10.47	N/A	N/A	w
February	4.87	12.27	11.55	4.63	w
March	4.51	11.92	10.26	6.40	w
April	5.27	16.43	11.75	5.00	w
May	5.75	22.23	14.03	5.60	w
June	6.09	24.56	14.64	7.39	w
July	5.23	24.35	14.09	8.36	w
August	6.22	27.11	16.08	6.48	w
September	6.52	25.41	14.57	8.80	w
October	6.01	20.43	13.72	9.63	w
November	5.35	14.64	12.23	6.85	w
December	6.32	13.74	12.62	4.77	w
<b>2022 Average</b>	<b>5.54</b>	<b>18.63</b>	<b>13.23</b>	<b>6.72</b>	<b>w</b>

w = Withheld to avoid disclosure of individual company data

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 21

**UNITED STATES AVERAGE NATURAL GAS PRICES (MCF)**  
(Dollars/Thousand Cubic Feet)

DATE	SPOT	FOREIGN	CITY	DELIVERED TO	
	MARKET <sup>5</sup>	IMPORTS <sup>3</sup>	GATES <sup>3</sup>	RESIDENTIAL <sup>3</sup>	INDUSTRIAL <sup>3</sup>
2002	3.26	3.14	4.10	8.58	4.02
2003	5.48	5.18	5.84	10.62	5.91
2004	5.94	5.78	6.61	11.64	6.51
2005	8.67	8.09	8.72	13.72	8.67
2006	6.81	6.87	8.28	14.16	7.82
2007	6.89	6.87	8.06	14.23	7.65
2008	8.80	8.77	9.59	15.76	9.66
2009	4.00	4.14	6.14	12.91	5.23
2010	4.58	4.46	6.07	12.91	5.44
2011	4.26	4.22	5.73	12.57	5.12
2012	2.93	2.88	4.71	12.03	3.85
2013	3.98	3.82	5.07	12.15	4.64
2014	4.89	5.38	5.70	12.95	5.58
2015	2.76	3.15	4.27	12.30	3.91
2016	2.39	2.34	3.86	12.17	3.51
2017	2.93	2.69	4.29	12.97	4.08
2018	3.11	2.81	4.30	12.82	4.17
2019	2.44	2.59	3.85	12.80	3.86
2020	1.87	2.09	3.56	12.63	3.28
January	2.57	2.86	3.46	9.68	4.07
February	13.77	5.63	12.45	9.31	9.33
March	2.38	2.66	4.04	10.51	4.40
April	2.43	2.44	3.84	12.25	4.00
May	2.68	2.70	4.34	14.13	4.12
June	3.03	2.83	4.87	17.73	4.15
July	3.52	3.41	5.61	19.94	4.73
August	3.65	3.52	5.67	20.96	5.02
September	4.52	4.07	6.25	20.25	5.57
October	5.05	4.79	6.41	17.50	6.84
November	4.64	5.18	6.03	13.29	7.03
December	3.76	4.74	5.81	13.13	6.74
<b>2021 Average</b>	<b>4.33</b>	<b>3.74</b>	<b>5.73</b>	<b>14.89</b>	<b>5.50</b>
January	7.27	6.94	5.39	12.02	6.64
February	5.66	5.67	5.80	12.18	7.53
March	5.00	4.70	5.60	12.98	6.34
April	6.85	5.49	6.37	14.01	6.88
May	8.42	6.72	8.45	17.76	8.37
June	8.38	7.03	10.13	22.69	9.64
July	8.92	6.00	8.97	24.73	8.14
August	9.57	6.62	10.49	25.52	9.76
September	7.77	6.00	9.81	24.63	9.95
October	5.76	4.67	6.83	18.72	7.38
November	7.17	5.80	6.74	15.63	6.92
December	15.59	9.75	7.68	14.75	8.23
<b>2022 Average</b>	<b>8.03</b>	<b>6.28</b>	<b>7.69</b>	<b>17.97</b>	<b>7.98</b>

e Estimated r Revised p Preliminary See footnote in Appendix B



Table 21A

**UNITED STATES AVERAGE NATURAL GAS PRICES (MMBTU)**  
(Dollars/MMBTU)

DATE	SPOT	FOREIGN	CITY	DELIVERED TO	
	MARKET <sup>5</sup>	IMPORTS	GATES	RESIDENTIAL	INDUSTRIAL
2002	3.39	3.26	4.26	8.92	4.18
2003	5.70	5.39	6.07	11.04	6.15
2004	6.18	6.01	6.87	12.10	6.77
2005	9.02	8.41	9.07	14.27	9.02
2006	7.08	7.14	8.61	14.73	8.14
2007	7.17	7.15	8.39	14.80	7.96
2008	9.15	9.13	9.97	16.39	10.05
2009	4.17	4.30	6.39	13.42	5.44
2010	4.76	4.64	6.31	13.43	5.65
2011	4.43	4.39	5.96	13.07	5.32
2012	3.04	3.00	4.90	12.51	4.00
2013	4.14	3.97	5.27	12.63	4.82
2014	5.09	5.60	5.92	13.47	5.80
2015	2.87	3.28	4.44	12.79	4.06
2016	2.39	2.34	3.86	12.17	3.51
2017	2.78	2.61	4.20	13.11	4.01
2018	2.99	2.70	4.13	12.32	4.01
2019	2.35	2.49	3.70	12.31	3.71
2020	1.80	2.01	3.42	12.15	3.16
January	2.47	2.91	3.33	9.31	3.91
February	13.24	5.60	11.97	8.95	8.97
March	2.29	2.61	3.88	10.11	4.23
April	2.34	2.35	3.69	11.78	3.85
May	2.58	2.65	4.17	13.59	3.96
June	2.91	2.72	4.68	17.05	3.99
July	3.38	3.34	5.39	19.17	4.55
August	3.51	3.38	5.45	20.15	4.83
September	4.35	3.96	6.01	19.47	5.36
October	4.86	4.61	6.16	16.83	6.58
November	4.46	5.22	5.80	12.78	6.76
December	3.62	4.74	5.59	12.63	6.48
<b>2021 Average</b>	<b>4.17</b>	<b>3.67</b>	<b>5.51</b>	<b>14.32</b>	<b>5.29</b>
January	6.99	6.67	5.18	11.56	6.38
February	5.44	5.45	5.58	11.71	7.24
March	4.81	4.52	5.38	12.48	6.10
April	6.59	5.28	6.13	13.47	6.62
May	8.10	6.46	8.13	17.08	8.05
June	8.06	6.76	9.74	21.82	9.27
July	8.58	5.77	8.63	23.78	7.83
August	9.20	6.37	10.09	24.54	9.38
September	7.47	5.77	9.43	23.68	9.57
October	5.54	4.49	6.57	18.00	7.10
November	6.89	5.58	6.48	15.03	6.65
December	14.99	9.38	7.38	14.18	7.91
<b>2022 Average</b>	<b>7.72</b>	<b>6.04</b>	<b>7.39</b>	<b>17.28</b>	<b>7.67</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 22

**LOUISIANA STATE OIL AND GAS DRILLING PERMITS ISSUED BY TYPE**  
**Excluding OCS**

<b>DATE</b>	<b>DEVELOPMENTAL + WILDCATS</b>	<b>= TOTAL =</b>	<b>OFFSHORE + ONSHORE</b>
2001	1,277	88	1,365
2002	902	123	1,025
2003	1,152	112	1,264
2004	1,535	98	1,633
2005	1,882	114	1,996
2006	2,040	97	2,137
2007	2,082	68	2,150
2008	2,296	78	2,374
2009	1,335	30	1,365
2010	1,914	42	1,956
2011	1,638	38	1,676
2012	1,537	37	1,574
2013	1,549	29	1,578
2014	1,379	29	1,408
2015	621	22	643
2016	459	16	475
2017	755	7	762
2018	783	8	791
2019	644	8	652
2020	439	4	442
January	40	0	40
February	16	0	16
March	51	1	52
April	35	0	35
May	68	0	68
June	42	0	42
July	55	0	55
August	40	2	42
September	51	1	52
October	51	0	51
November	37	0	37
December	73	0	73
<b>2021 Total</b>	<b>559</b>	<b>4</b>	<b>533</b>
January	54	0	54
February	51	2	53
March	83	0	83
April	45	0	45
May	86	0	86
June	78	0	78
July	72	0	72
August	52	2	54
September	70	0	70
October	71	0	71
November	84	1	85
December	54	0	54
<b>2022 Total</b>	<b>800</b>	<b>5</b>	<b>805</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 11

**LOUISIANA STATE DRILLING PERMITS ISSUED**  
Federal OCS Excluded

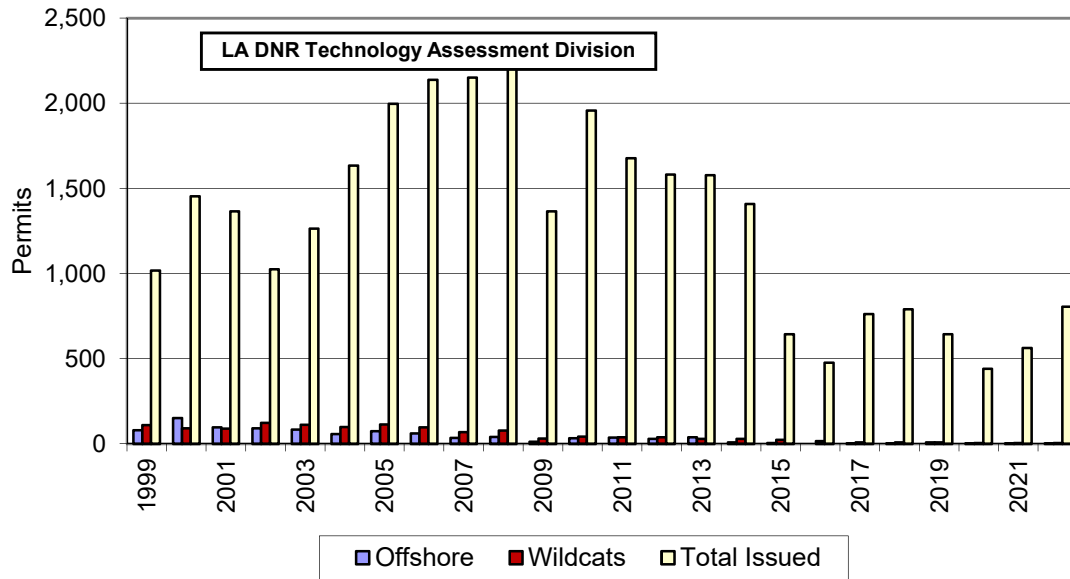


Figure 12

**LOUISIANA AVERAGE ACTIVE RIGS**

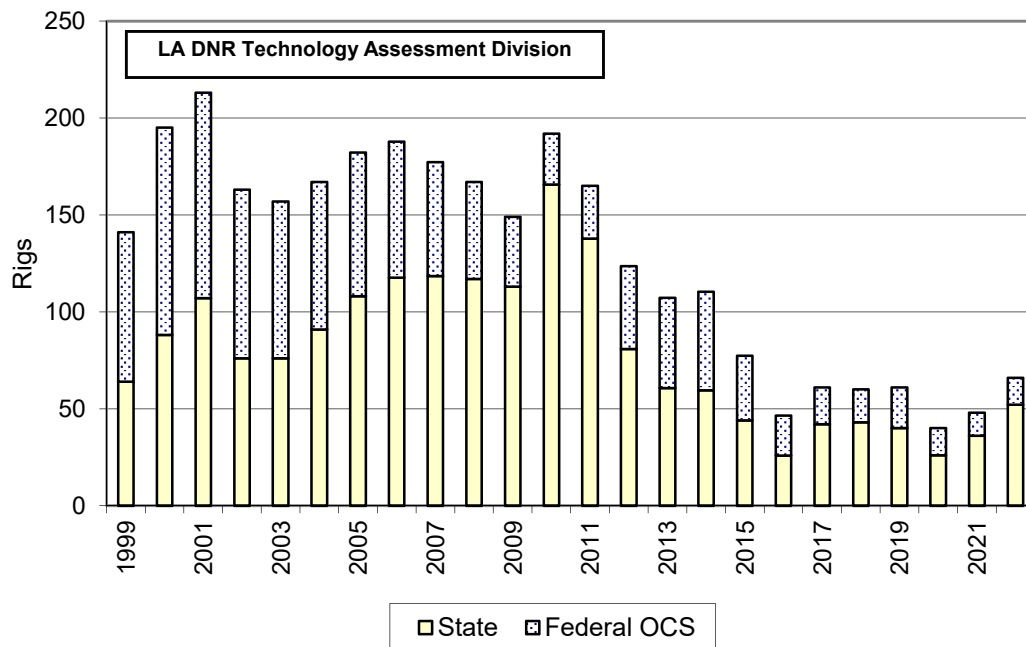


Table 23

## LOUISIANA AVERAGE RIGS RUNNING

DATE	State North <sup>4</sup>	State South Inland		State Offshore	Total State	Federal Offshore	Total Offshore <sup>4</sup> (State+OCS)	LA <sup>4</sup> TOTAL
		Water <sup>4</sup>	Land <sup>4</sup>					
2002	23	16	32	5	77	87	92	163
2003	29	14	29	4	76	81	85	157
2004	39	18	30	3	91	76	79	167
2005	48	23	32	4	108	74	79	182
2006	57	19	38	3	118	70	73	188
2007	58	24	34	2	118	59	61	177
2008	68	20	26	3	117	50	53	167
2009	89	8	15	1	113	36	38	150
2010	134	13	16	2	166	26	28	192
2011	97	17	22	2	138	28	29	165
2012	36	18	26	1	81	43	44	124
2013	24	20	15	2	61	47	49	108
2014	28	15	16	1	60	51	51	110
2015	28	5	11	0	44	33	33	77
2016	18	3	5	0	26	21	21	47
2017	37	3	3	0	42	19	19	61
2018	35	3	5	0	44	17	17	61
2019	37	3	3	0	42	19	19	61
2020	35	3	5	0	44	17	17	61
January	29	2	0	0	31	15	15	46
February	32	1	0	0	33	15	15	47
March	34	0	0	0	34	11	11	45
April	34	1	2	0	37	11	11	48
May	37	1	1	0	39	14	14	53
June	37	1	1	0	39	13	13	52
July	35	1	1	0	37	15	15	52
August	33	2	1	0	36	13	13	49
September	34	1	1	0	36	4	4	40
October	34	1	1	0	36	11	11	47
November	34	1	1	0	36	13	13	49
December	34	0	1	0	35	13	13	48
<b>2021 Average</b>	<b>34</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>36</b>	<b>12</b>	<b>12</b>	<b>48</b>
January	37	1	3	0	41	17	17	58
February	39	0	7	1	47	13	14	61
March	44	2	6	1	53	11	12	65
April	44	3	4	0	51	12	12	63
May	46	2	3	0	51	16	16	67
June	46	3	3	0	52	15	15	67
July	45	3	4	0	52	15	15	67
August	45	2	4	0	51	16	16	67
September	47	0	5	0	52	14	14	66
October	46	0	7	0	53	12	12	65
November	47	0	8	1	56	13	14	69
December	50	1	8	0	59	15	15	74
<b>2022 Average</b>	<b>45</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>52</b>	<b>14</b>	<b>14</b>	<b>66</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 24**

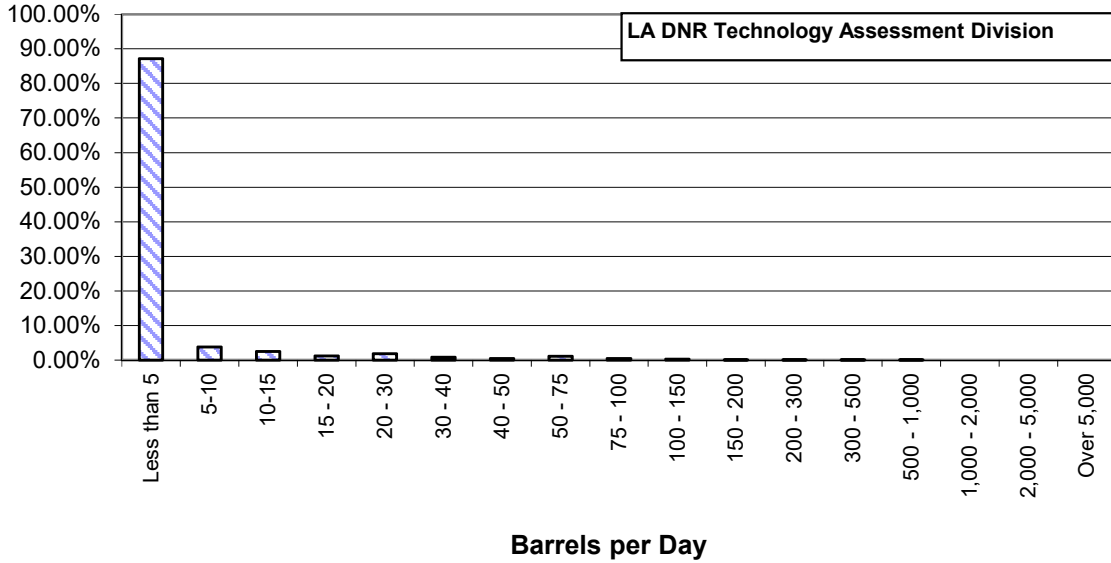
**LOUISIANA STATE PRODUCING CRUDE OIL WELLS**  
**Excluding OCS**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
1977	12,915	7,444	1,067	21,425
1978	13,019	7,219	1,086	21,324
1979	12,961	6,859	1,078	20,898
1980	13,981	6,832	1,073	21,885
1981	15,084	6,777	1,105	22,966
1982	15,540	6,608	1,112	23,259
1983	16,299	6,374	1,037	23,710
1984	17,544	6,300	1,038	24,882
1985	18,794	6,223	1,014	26,031
1986	19,346	6,061	1,001	26,408
1987	18,630	5,768	945	25,343
1988	17,953	5,698	964	24,615
1989	16,849	5,474	927	23,250
1990	17,369	5,215	906	23,490
1991	17,731	5,143	868	23,742
1992	17,449	5,155	842	23,446
1993	16,810	5,015	814	22,640
1994	15,904	4,682	805	21,392
1995	15,260	4,451	769	20,479
1996	15,148	4,295	719	20,163
1997	14,573	4,165	619	20,358
1998	13,975	3,962	546	18,484
1999	13,747	3,971	546	18,264
2000	16,795	3,914	408	21,117
2001	16,494	4,257	393	21,144
2002	16,531	4,071	423	21,026
2003	16,516	3,583	467	20,566
2004	16,148	3,485	462	20,095
2005	17,153	3,648	317	21,117
2006	17,072	3,615	241	20,928
2007	16,994	3,711	262	20,966
2008	N/A	N/A	N/A	21,146
2009	N/A	N/A	N/A	20,852
2010	N/A	N/A	N/A	20,007
2011	14,333	4,045	411	18,789
2012	14,217	4,275	436	18,928
2013	16,691	3,646	240	20,577
2014	12,557	3,156	228	16,941
2015	13,007	4,151	447	17,605
2016	12,908	3,743	477	17,128
2017	12,433	3,490	407	16,330
2018*	19,187	7,967	634	27,788
2019*	19,006	7,784	656	27,446
2020*	18,865	7,676	630	27,171
2021*	18,753	7,565	631	26,949
2022*	18,624	7,530	633	26,787

e Estimated r Revised p Preliminary See footnote in Appendix B

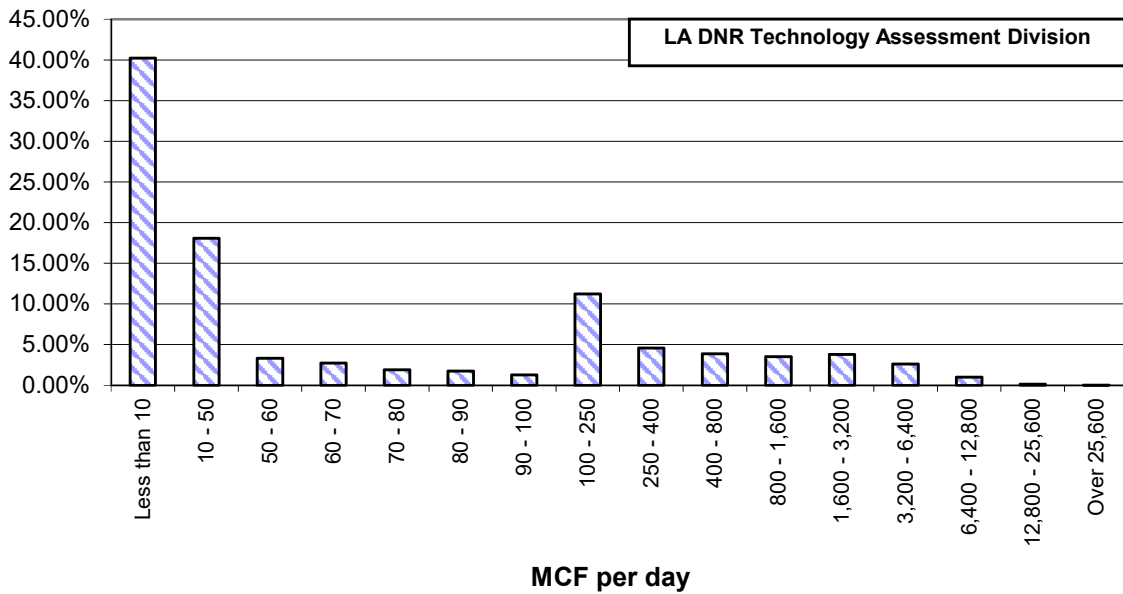
**Figure 13**

**2022 Percentage of Louisiana Oil Wells  
by Production Rates**



**Figure 14**

**2022 Percentage of Louisiana Gas Wells  
by Production Rates**



**Table 25**

**LOUISIANA STATE PRODUCING NATURAL GAS WELLS**  
**Excluding OCS**

<b>DATE</b>	<b>NORTH</b>	<b>SOUTH</b>	<b>OFFSHORE</b>	<b>TOTAL</b>
1977	6,343	3,331	449	10,123
1978	6,915	3,253	472	10,640
1979	7,372	3,214	514	11,100
1980	8,360	3,277	551	12,188
1981	9,479	3,226	557	13,262
1982	10,154	3,136	564	13,855
1983	10,502	3,065	549	14,115
1984	10,812	2,955	532	14,299
1985	11,026	2,887	511	14,424
1986	11,049	2,730	436	14,216
1987	10,726	2,635	413	13,774
1988	10,813	2,539	445	13,796
1989	10,861	2,474	501	13,836
1990	10,802	2,407	512	13,721
1991	10,702	2,261	496	13,459
1992	10,498	2,149	496	13,143
1993	10,506	2,192	490	13,189
1994	10,596	2,260	473	13,329
1995	10,452	2,200	335	12,987
1996	10,376	2,148	274	12,799
1997	10,446	2,149	296	12,891
1998	10,579	1,995	259	12,833
1999	10,581	2,010	262	12,853
2000*	13,704	3,194	333	17,231
2001*	13,054	3,369	311	16,734
2002*	13,438	3,309	344	17,092
2003*	13,607	2,952	384	16,944
2004*	13,924	3,005	398	17,327
2005*	13,996	2,977	258	17,231
2006*	14,478	3,066	204	17,748
2007*	14,707	3,211	227	18,145
2008*	N/A	N/A	N/A	18,984
2009*	N/A	N/A	N/A	19,009
2010*	N/A	N/A	N/A	19,384
2011*	18,542	1,851	159	20,552
2012*	19,125	1,734	144	21,003
2013*	18,184	1,295	104	19,583
2014*	16,114	1,003	72	17,189
2015*	19,273	1,424	87	20,784
2016*	18,929	1,116	54	20,099
2017*	19,054	989	53	20,096
2018*	20,406	2,940	209	23,555
2019*	20,391	2,810	206	20,826
2020*	20,360	2,652	170	20,452
2021*	20,555	2,549	170	23,274
2022*	20,643	2,496	162	23,301

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 26**

**LOUISIANA STATE WELL COMPLETION BY TYPE AND BY REGION**  
**Excluding OCS**

	YEAR	OFFSHORE	SOUTH	NORTH	TOTAL
<b>C R O U I D L E</b>	2008	5	101	228	334
	2009	1	63	90	154
	2010	9	114	167	290
	2011	4	122	144	270
	2012	3	258	422	683
	2013	3	123	267	393
	2014	9	126	225	360
	2015	19	194	39	252
	2016	0	36	17	53
	2017	2	30	22	54
	2018	0	66	80	146
	2019	2	23	52	77
	2020	0	18	10	28
	2021	0	23	90	115
2022	2	22	56	80	
<b>N A T G U A R S A L</b>	2008	9	97	984	1,090
	2009	3	39	707	749
	2010	9	73	958	1,040
	2011	4	37	198	239
	2012	1	54	203	258
	2013	2	28	55	85
	2014	6	66	303	375
	2015	9	172	307	488
	2016	0	31	213	244
	2017	0	20	268	288
	2018	0	33	267	300
	2019	0	7	106	113
	2020	0	1	79	80
	2021	0	7	279	286
2022	0	11	79	90	
<b>D H R O Y L E</b>	2008	4	94	121	219
	2009	1	63	75	139
	2010	2	61	76	139
	2011	0	36	52	88
	2012	1	57	92	150
	2013	0	33	71	104
	2014	0	11	3	14
	2015	0	2	1	3
	2016	0	2	0	2
	2017	0	0	1	1
	2018	1	20	31	52
	2019	0	22	27	49
	2020	0	16	11	37
	2021	0	24	26	50
2022	0	16	19	35	



Table 27

**LOUISIANA STATE MINERAL BONUS, RENTAL AND  
ROYALTY OVERRIDE REVENUES, Excluding OCS**

(Million Dollars)

DATE	BONUSES	OVERRIDE ROYALTY	RENTALS	TOTAL
2002	24.74	2.29	14.26	41.28
2003	19.54	3.36	12.93	35.83
2004	29.79	5.05	9.47	44.31
2005	35.78	2.03	13.75	51.56
2006	33.49	2.05	21.64	57.18
2007	45.91	3.35	22.59	71.85
2008	171.28	5.89	23.09	200.26
2009	17.70	4.26	25.13	47.09
2010	32.01	4.60	19.35	55.96
2011	19.48	8.42	16.36	44.27
2012	17.48	9.80	11.72	39.00
2013	18.92	11.31	11.14	41.38
2014	8.98	7.72	11.11	27.80
2015	4.25	-13.71	5.10	-4.36
2016	1.62	5.73	2.98	10.33
2017	2.99	1.16	1.41	5.57
2018	9.14	2.10	1.28	12.52
2019	7.47	-0.58	4.32	11.21
2020	4.77	1.88	3.22	9.87
January	0.45	0.04	0.74	1.23
February	0.21	0.02	0.00	0.23
March	0.01	0.12	0.19	0.32
April	0.41	0.06	0.10	0.56
May	0.08	0.08	0.01	0.17
June	0.10	0.06	0.14	0.29
July	0.20	0.14	0.82	1.16
August	0.20	0.19	0.00	0.39
September	0.00	0.07	0.00	0.07
October	0.38	0.16	0.18	0.72
November	3.36	0.15	0.08	3.60
December	0.40	0.12	0.32	0.85
<b>2021 Total</b>	<b>5.81</b>	<b>1.20</b>	<b>2.57</b>	<b>9.58</b>
January	0.02	-0.15	0.87	0.75
February	0.04	0.30	0.01	0.35
March	0.00	0.18	0.20	0.37
April	0.02	-0.07	0.20	0.15
May	0.44	0.23	0.01	0.67
June	0.06	0.43	0.06	0.55
July	-2.68	0.36	0.41	-1.91
August	5.27	0.34	0.10	5.71
September	1.34	0.37	0.00	1.71
October	0.28	0.49	0.05	0.82
November	5.36	1.42	0.32	7.10
December	0.00	0.72	0.26	0.98
<b>2022 Total</b>	<b>10.14</b>	<b>4.62</b>	<b>2.49</b>	<b>17.25</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

Table 28

**LOUISIANA STATE MINERAL ROYALTY REVENUE**  
**Excluding OCS**  
**(Million Dollars)**

<b>DATE</b>	<b>OIL</b>	<b>GAS</b>	<b>PLANT LIQUIDS</b>	<b>OTHER</b>	<b>TOTAL</b>
2002	100.10	165.24	8.03	0.00	273.37
2003	127.61	288.91	9.31	0.00	425.83
2004	143.84	274.64	14.82	0.00	433.30
2005	149.97	279.03	10.51	0.00	439.50
2006	201.71	287.24	14.23	0.00	503.19
2007	288.57	305.62	18.98	0.00	613.18
2008	372.30	419.94	32.16	0.00	824.41
2009	210.54	153.86	14.91	0.00	379.31
2010	272.57	162.50	22.52	0.00	457.59
2011	381.35	173.52	32.48	0.00	587.34
2012	376.98	121.89	24.78	0.00	523.64
2013	382.37	158.56	27.85	0.00	568.79
2014	320.26	166.82	23.74	0.00	510.83
2015	147.13	86.73	8.03	0.00	241.89
2016	104.70	62.67	6.80	0.00	174.17
2017	110.12	61.86	7.74	0.00	179.72
2018	144.25	57.25	9.16	0.00	210.67
2019	128.29	47.65	5.51	0.00	181.45
2020	58.72	30.14	2.38	0.00	91.25
January	6.28	3.64	0.36	0.00	10.28
February	6.64	5.00	0.31	0.00	11.95
March	7.77	3.72	0.40	0.00	11.89
April	7.51	3.32	0.34	0.00	11.17
May	7.92	3.80	0.30	0.00	12.02
June	7.95	3.66	0.38	0.00	12.00
July	8.25	5.37	0.53	0.00	14.15
August	7.00	5.48	0.58	0.00	13.06
September	4.65	6.11	0.29	0.00	11.05
October	5.66	8.73	0.71	0.00	15.10
November	8.04	9.33	0.70	0.00	18.07
December	7.46	7.46	0.56	0.00	15.48
<b>2021 Total</b>	<b>85.13</b>	<b>65.62</b>	<b>5.46</b>	<b>0.00</b>	<b>156.22</b>
January	9.03	7.44	0.61	0.00	17.08
February	9.18	8.37	0.59	0.00	18.13
March	12.64	7.98	0.92	0.00	21.54
April	13.51	9.90	0.74	0.00	24.15
May	14.49	13.23	0.73	0.00	28.44
June	14.50	15.54	0.71	0.00	30.75
July	13.27	12.32	0.62	0.00	26.21
August	11.79	14.11	0.50	0.00	26.40
September	10.01	14.07	0.46	0.00	24.55
October	11.75	9.96	0.37	0.00	22.08
November	10.57	8.32	0.34	0.00	19.22
December	9.45	4.84	0.13	0.00	14.41
<b>2022 Total</b>	<b>140.17</b>	<b>126.09</b>	<b>6.70</b>	<b>0.00</b>	<b>272.95</b>

**Table 29**

**LOUISIANA STATE MINERAL SEVERANCE TAX REVENUE<sup>8</sup>**

**Excluding OCS  
(Million Dollars)**

<b>DATE</b>	<b>OIL</b>	<b>GAS</b>	<b>OTHER MINERALS</b>	<b>SEVERANCE TOTAL</b>
2002	235.84	173.51	1.33	410.67
2003	316.70	152.13	1.70	470.53
2004	359.77	216.73	1.73	578.23
2005	439.00	243.62	1.61	681.50
2006	506.31	331.40	1.69	839.41
2007	529.75	354.11	1.67	885.52
2008	842.94	293.66	1.65	1138.25
2009	377.51	292.18	1.63	671.32
2010	516.90	224.18	1.58	742.67
2011	677.56	97.61	1.34	776.51
2012	736.78	135.23	1.31	873.32
2013	761.75	99.45	1.38	862.58
2014	685.68	147.70	1.24	834.61
2015	358.96	190.30	1.46	550.72
2016	238.26	125.61	1.45	365.31
2017	266.41	109.52	1.09	377.02
2018	328.30	153.28	3.55	485.12
2019	285.14	177.71	15.45	478.30
2020	164.74	150.87	11.54	327.59
January	10.58	10.35	0.76	21.69
February	9.11	-2.66	0.88	7.33
March	21.91	14.03	1.16	37.10
April	11.02	5.01	1.15	17.18
May	20.64	10.55	0.58	31.77
June	18.69	8.31	1.38	28.39
July	20.35	12.91	1.01	34.27
August	22.23	12.98	1.05	36.26
September	22.30	12.07	1.46	35.83
October	18.17	15.70	1.90	35.76
November	15.41	12.02	1.07	28.50
December	24.25	9.41	1.43	35.09
<b>2021 Total</b>	<b>214.66</b>	<b>120.67</b>	<b>13.84</b>	<b>349.17</b>
January	19.31	10.44	1.15	30.90
February	21.25	16.15	0.93	38.33
March	23.82	21.67	1.50	46.99
April	24.17	16.61	1.13	41.91
May	36.23	31.71	1.50	69.44
June	31.76	23.26	1.20	56.22
July	35.91	21.60	1.05	58.56
August	40.69	15.04	1.29	57.02
September	33.48	56.14	1.42	91.04
October	31.59	49.10	1.31	82.00
November	26.42	41.20	1.27	68.89
December	25.55	34.50	0.77	60.82
<b>2022 Total</b>	<b>350.18</b>	<b>337.42</b>	<b>14.52</b>	<b>702.11</b>

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 30**

**STATE REVENUE FROM LOUISIANA'S OUTER CONTINENTAL SHELF<sup>13</sup>**  
(Dollars)

YEAR	RENTALS	BONUSES	ROYALTIES	OTHERS REVENUE	GOMESA	TOTAL
1991	303,824	2,220,094	8,461,261	2,520,000	0	13,505,179
1992	258,787	1,189,989	6,405,279	5,880,000	0	13,734,055
1993	235,250	965,504	7,373,550	5,880,000	0	14,454,304
1994	1,016,932	1,913,682	11,780,932	5,880,000	0	20,591,546
1995	255,213	890,002	8,012,718	5,880,000	0	15,037,933
1996	292,445	4,666,400	12,283,395	5,880,000	0	23,122,240
1997	686,051	5,689,689	11,855,454	8,400,000	0	26,631,194
1998	412,229	1,744,928	9,621,860	8,400,000	0	20,179,017
1999	357,379	241,659	6,284,879	8,400,000	0	15,283,917
2000	321,695	1,268,244	12,690,937	15,254,978	0	22,680,876
2001	303,675	2,148,111	30,454,058	7,735,941	0	40,641,785
2002	94,841	0	11,768,383	28,363	0	11,891,587
2003	284,563	2,842,662	26,447,045	29,564,244	0	59,138,514
2004	490,745	7,620,500	30,145,237	38,256,482	0	76,512,963
2005	374,717	2,521,931	27,995,948	30,900,445	0	61,793,041
2006	494,362	5,947,411	24,325,787	32,071,817	0	62,839,377
2007	196,129	-2,695,489	25,498,932	23,088,706	0	46,088,279
2008	412,813	6,196,386	36,547,175	45,763,396	0	88,919,770
2009	339,802	463,332	21,433,896	22,317,230	7,934,151	52,488,411
2010	355,697	2,892,749	19,321,141	22,605,431	874,697	46,049,714
2011	268,106	0	20,325,825	20,687,371	278,407	41,559,709
2012	N/A	N/A	N/A	19,765,177	100,963	19,866,140
2013	N/A	N/A	N/A	24,533,076	95,814	24,628,890
2014	N/A	N/A	N/A	19,466,649	1,398,640	20,865,289
2015	N/A	N/A	N/A	11,925,900	816,729	12,742,629
2016	N/A	N/A	N/A	6,313,683	102,714	6,416,397
2017	N/A	N/A	N/A	7,554,500	321,563	7,876,062
2018	N/A	N/A	N/A	6,052,631	82,839,656	88,892,287
2019	N/A	N/A	N/A	3,736,426	94,728,192	98,464,618
2020	N/A	N/A	N/A	821,330	155,718,470	156,539,800
2021	N/A	N/A	N/A	989,954	109,948,762	110,938,716
2022	N/A	N/A	N/A	3,867,850	111,822,095	115,689,944

e Estimated r Revised p Preliminary See footnote in Appendix B

**Table 31**

**LOUISIANA STATE TOTAL MINERAL REVENUE  
(Dollars)**

<b>YEAR</b>	<b>FEDERAL OCS<sup>13</sup></b>	<b>FEDERAL ONSHORE<sup>13</sup></b>	<b>STATE BOUNDARIES</b>	<b>TOTAL</b>
1991	13,505,179	328,000	751,117,246	764,950,425
1992	13,734,055	376,000	680,527,788	694,637,843
1993	14,454,304	782,000	639,182,812	654,412,032
1994	20,591,546	532,000	560,371,998	581,495,544
1995	15,037,933	728,000	638,942,698	654,708,631
1996	23,122,240	943,209	770,137,601	794,203,050
1997	26,631,194	817,329	714,672,685	742,121,208
1998	20,179,017	996,000	532,755,940	553,930,957
1999	15,283,917	1,276,465	519,144,200	535,704,582
2000	22,680,876	1,024,730	839,883,694	863,589,300
2001	40,641,785	1,481,176	875,887,102	918,010,063
2002	11,891,587	730,156	725,323,377	737,945,120
2003	29,596,045	1,182,451	932,191,569	962,970,065
2004	38,256,482	1,364,965	1,055,838,962	1,095,460,408
2005	30,900,445	1,569,882	1,166,491,860	1,198,962,188
2006	32,071,817	1,170,670	1,395,971,977	1,429,214,465
2007	23,088,706	940,888	1,545,321,941	1,569,351,535
2008	45,763,396	3,703,240	2,162,918,035	2,212,384,671
2009	28,664,552	914,421	1,097,717,147	1,127,296,119
2010	23,305,188	3,123,211	1,256,220,286	1,282,648,686
2011	20,910,097	17,982,455	1,408,117,556	1,447,010,108
2012	19,845,947	6,914,439	1,436,769,322	1,463,529,708
2013	24,533,076	2,607,490	1,472,614,331	1,499,754,898
2014	20,586,591	3,417,220	1,371,527,259	1,395,531,070
2015	12,579,284	1,734,869	786,918,399	801,232,552
2016	6,395,879	904,498	427,201,887	434,502,264
2017	7,276,062	1,010,739	545,643,858	553,930,659
2018	88,892,287	2,153,238	673,588,850	764,634,374
2019	98,464,618	2,862,669	687,096,948	788,424,235
2020	156,539,800	2,548,753	423,072,424	582,160,976
2021	110,938,716	2,546,225	505,398,969	618,883,910

e Estimated r Revised p Preliminary See footnote in Appendix B

**Federal OCS:** See footnotes on Appendix B "OCSLA" & "GOMESA"

**Federal Onshore:** Revenue distributed to the state under section 35 of the Mineral Leasing Act (MLA). MLA provides to the state 50% of mineral revenue from federal lands located within the state boundaries. Revenues came from royalties, rents and bonuses. It is fiscal year data. Oil and gas produced on federal onshore pay severance tax to the state by the producer on the non-royalty share of the production, and the royalty share of the production is exempted.

**State Boundaries:** Revenue from mineral production such as bonuses, override royalties, rents, royalties and severance taxes within state boundaries.

Table 32

**REVENUE TO FEDERAL GOVERNMENT COLLECTED FROM OIL AND GAS  
LEASES IN THE LOUISIANA OUTER CONTINENTAL SHELF<sup>12</sup>**  
(Area beyond the state's 3-mile offshore boundary)  
(Dollars)

YEAR	BONUS PAYMENTS	RENTAL PAYMENTS	OTHER REVENUES	PRODUCTION ROYALTIES	TOTAL <sup>a</sup> COLLECTION
1986	113,731,609	34,110,029	3,199,547	2,006,205,199	2,157,246,384
1987	247,344,486	52,115,828	19,239,027	1,803,208,740	2,121,908,081
1988	388,730,457	35,752,757	8,727,373	1,571,981,500	2,005,192,087
1989	386,710,637	48,498,402	26,261,190	1,618,163,065	2,079,633,294
1990	421,375,632	55,568,777	16,028,740	2,068,487,831	2,561,460,980
1991	276,234,849	59,126,732	15,444,167	1,857,392,914	2,208,198,662
1992	53,716,797	49,087,621	33,533,897	1,848,599,157	1,984,937,472
1993	61,454,861	29,268,366	119,445,091	2,009,644,653	2,219,812,971
1994	256,271,643	30,003,884	141,190,812	1,888,953,102	2,316,419,441
1995	296,254,733	62,526,069	19,803,444	1,764,875,791	2,143,460,037
1996	24,330,068	53,231,380	40,394,227	2,549,759,516	3,154,940,691
1997	1,169,790	55,761,920	65,651,370	2,857,126,443	3,789,383,151
1998	9,207,972	51,518,286	-14,452,431	2,267,502,514	2,313,776,341
1999	1,169,790	40,463,226	49,219,184	2,228,250,265	2,319,102,465
2000	83,630,219	32,710,256	167,647,231	3,045,847,943	3,329,835,649
2001	160,037,859	30,078,009	177,773,259	5,126,344,201	5,494,233,328

## GULF OF MEXICO TOTAL

<b>2001</b>	632482979	188455045	3126961.5	6674371634	7498436619
<b>2002</b>	<b>138,423,162</b>	<b>153,303,576</b>	<b>3,252,702</b>	<b>3,841,164,517</b>	<b>4,136,143,958</b>
2003	1,147,014,322	245,963,859	4,983,819	4,535,938,009	5,933,900,009
2004	523,416,154	214,303,045	2,570,343	4,607,776,092	5,348,065,634
2005	518,426,651	221,784,370	1,897,501	5,313,350,455	6,055,458,976
2006	865,262,735	224,006,816	2,839,550	6,514,658,836	7,606,767,938
2007	373,930,998	200,993,255	3,166,689	6,441,214,179	7,019,305,120
2008	6,818,747,137	231,026,391	3,105,849	7,850,622,155	14,903,501,532
2009	1,181,075,491	226,229,847	3,013,594	4,161,415,445	5,571,734,377
2010	979,569,294	236,631,251	-3,531,170	3,743,286,144	4,955,955,519
2011	36,751,111	219,119,868	2,153,134	5,960,501,525	6,218,525,638
2012	663,714,729	217,669,757	31,841,893	5,626,212,490	6,539,438,869
2013	2,675,653,773	244,699,154	34,646,396	5,778,759,396	8,733,758,719
2014	967,365,328	229,741,396	46,262,768	5,846,709,902	7,090,079,394
2015	642,044,899	215,683,828	-36,545,638	4,109,252,603	4,930,435,692
2016	155,161,660	159,864,463	-4,001,659	2,435,585,537	2,746,610,002
2017	373,691,032	111,130,182	32,669,500	3,261,902,720	3,779,393,434
2018	290,952,737	103,187,082	54,122,763	4,715,262,300	5,163,524,882
2019	407,261,497	101,495,712	18,436,226	4,983,081,229	5,510,274,664
2020	241,234,980	95,891,641	-24,605,223	3,354,211,060	3,666,732,459
2021	11,559,312	86,482,533	87,833,074	3,727,845,091	4,013,720,010

<sup>a</sup> Total collection, including state 8G shares.

e Estimated r Revised p Preliminary See footnote in Appendix B

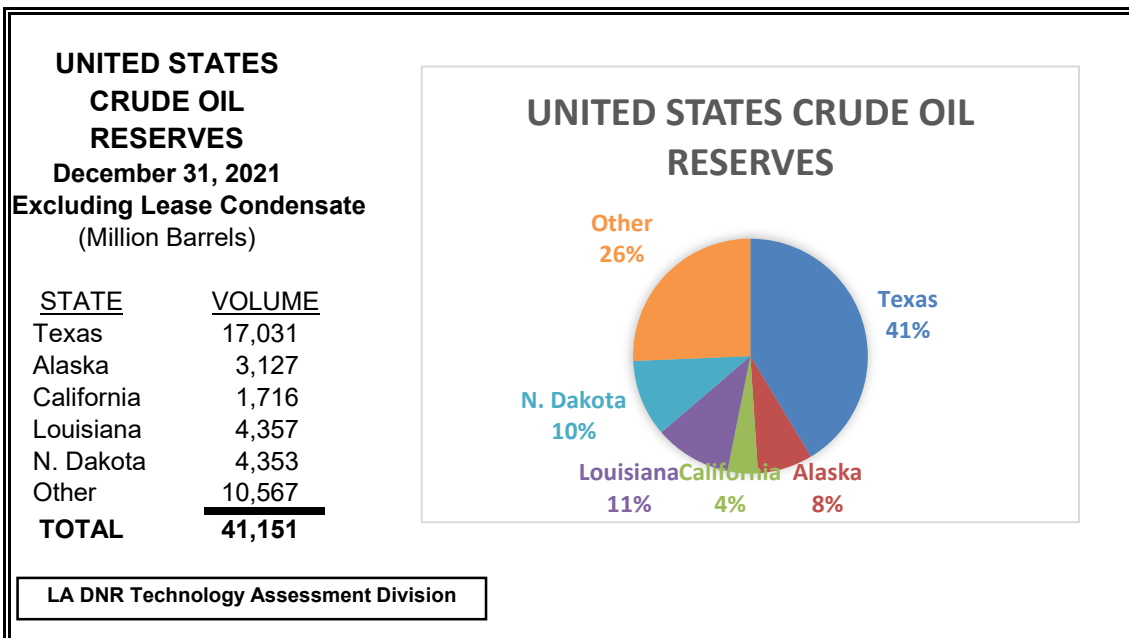
Table 33

**LOUISIANA ESTIMATED CRUDE OIL PROVED RESERVES <sup>9</sup>  
EXCLUDING LEASE CONDENSATE**  
As of December 31st of Each Year  
(Million Barrels)

YEAR	North	South Onshore	South Offshore	Federal OCS	Total Louisiana	TOTAL US
2000	97	310	122	2,751	3,280	22,045
2001	87	341	136	3,877	4,441	22,446
2002	75	335	91	4,088	4,589	22,677
2003	66	314	72	4,251	4,703	21,891
2004	58	304	65	3,919	4,346	21,371
2005	68	299	65	3,852	4,284	21,757
2006	68	312	48	3,500	3,928	20,972
2007	76	326	56	3,320	3,778	21,317
2008	60	277	51	3,388	3,776	19,121
2009	55	269	46	3,570	3,940	20,682
2010	104	274	46	3,914	4,338	23,267
2011	103	264	50	4,438	4,855	26,544
2012	100	300	63	4,504	4,967	30,529
2013	120	328	55	4,503	5,006	33,371
2014	118	349	67	4,244	4,778	36,385
2015	89	276	59	3,825	4,249	32,318
2016	71	283	54	3,678	4,086	32,773
2017	85	275	58	4,464	4,882	39,160
2018	84	260	68	4,765	5,177	43,824
2019	69	266	54	4,712	5,101	44,191
2020	53	234	30	4,075	4,392	35,835
2021	87	249	29	3,992	4,357	41,151

e Estimated r Revised p Preliminary See footnote in Appendix B

**Figure 15**



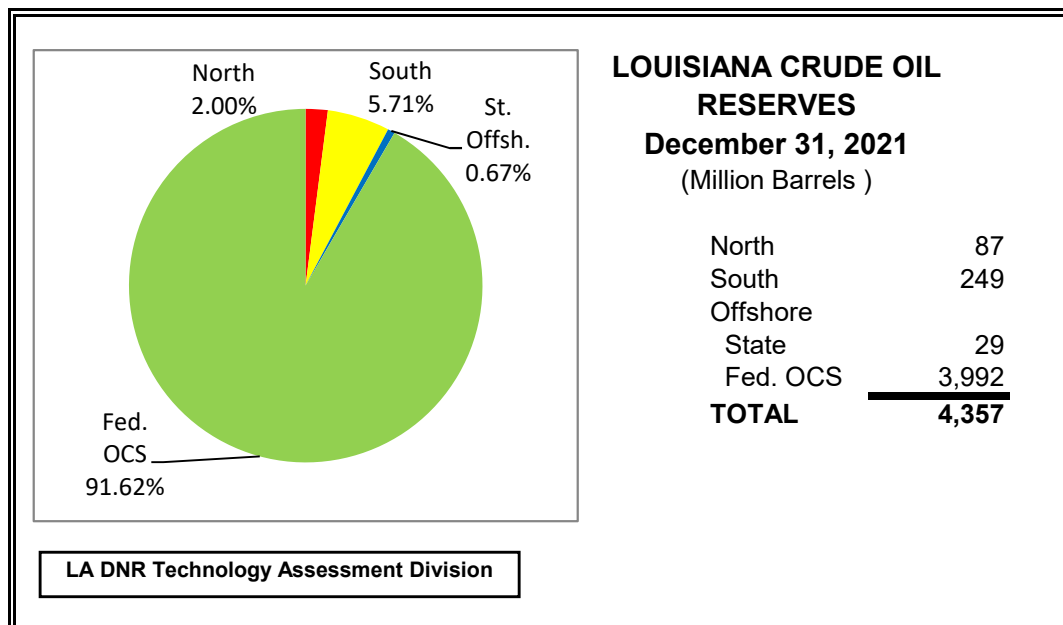
**Table 34**

**LOUISIANA ESTIMATED LEASE CONDENSATE PROVED RESERVES<sup>9</sup>**  
**As of December 31st of Each Year**  
**(Million Barrels)**

YEAR	North	South Onshore	South Offshore	Federal OCS	Total Louisiana	TOTAL US
2000	22	130	17	437	606	1,333
2001	27	141	19	325	512	1,398
2002	19	107	11	300	437	1,346
2003	19	82	11	251	363	1,215
2004	21	66	9	205	301	1,221
2005	23	72	9	228	332	1,218
2006	29	65	10	185	289	1,339
2007	31	69	11	180	291	1,415
2008	27	64	8	151	250	1,433
2009	26	74	10	134	244	1,633
2010	27	68	11	129	235	1,914
2011	33	64	11	129	237	2,406
2012	38	70	13	98	219	2,874
2013	39	68	12	88	207	3,149
2014	48	56	11	108	223	3,548
2015	46	59	5	122	232	2,912
2016	32	50	4	149	235	2,440
2017	45	48	5	155	253	2,830
2018	29	39	4	149	221	3,229
2019	23	32	5	222	282	2,916
2020	20	33	5	226	284	2,377
2021	16	29	4	242	291	3,267

e Estimated r Revised p Preliminary See footnote in Appendix B

**Figure 16**





**Table 35**

**LOUISIANA ESTIMATED DRY NATURAL GAS PROVED RESERVES<sup>9</sup>**  
**As of December 31st of Each Year**  
**(Billion Cubic Feet, at 14.73 psia and 60 degrees Fahrenheit)**

YEAR	North	South Onshore	South Offshore	Federal OCS	Total Louisiana	TOTAL US
2000	3,298	5,245	696	19,788 c	29,027 c	177,427
2001	3,881	5,185	745	19,721 c	29,532 c	183,460
2002	4,245	4,224	491	18,500 c	27,460 c	186,946
2003	5,074	3,746	506	16,728 c	26,054 c	189,044
2004	5,770	3,436	382	14,685 c	24,273 c	192,513
2005	6,695	3,334	418	13,665 c	24,112 c	204,385
2006	6,715	3,335	424	11,824 c	22,298 c	211,085
2007	6,344	3,323	378	11,090 c	21,135 c	237,726
2008	7,876	2,799	898	10,450 c	22,023 c	244,656
2009	17,146	2,844	701	9,362 c	30,053 c	272,509
2010	26,030	2,876	371	8,896 c	38,173 c	304,625
2011	27,337	2,519	502	8,156 c	38,514 c	334,067
2012	18,418	3,029	502	7,291 c	29,240 c	308,036
2013	17,044	2,718	402	6,482 c	26,646 c	328,264
2014	19,722	2,926	327	6,890 c	29,865 c	368,704
2015	13,593	2,279	225	5,909 c	22,006 c	307,730
2016	15,762	1,958	352	5,722 c	23,794 c	341,133
2017	33,805	2,092	222	5,372 c	41,491 c	464,292
2018	32,251	1,618	258	5,442 c	39,569 c	474,281
2019	34,863	1,279	355	4,935 c	41,432 c	465,405
2020	35,958	1,090	349	3,749 c	41,146 c	445,299
2021	38,599	1,084	176	3,677 c	43,536 c	589,236

<sup>c</sup> Includes Federal Offshore Alabama

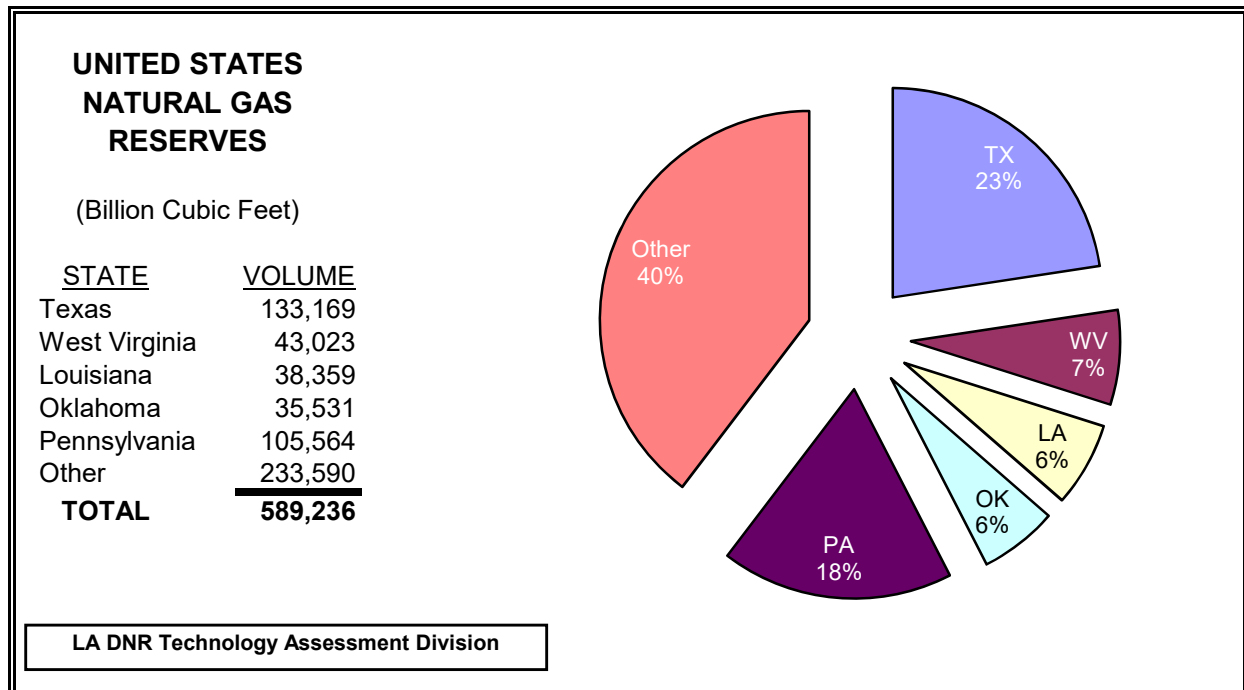


Table 36

**LOUISIANA ESTIMATED NATURAL GAS PLANT LIQUIDS  
IN TOTAL NATURAL GAS PROVED RESERVES<sup>9</sup>  
As of December 31st of Each Year  
(Million Barrels)**

YEAR	North	South Onshore	South Offshore	Federal OCS	Total Louisiana	TOTAL US
2001	35	128	41	460 c	664 c	6,595
2002	30	119	37	483 c	669 c	6,648
2003	48	100	35	347 c	530 c	6,244
2004	53	87	27	410 c	577 c	6,707
2005	57	103	31	407 c	598 c	6,903
2006	60	94	22	390 c	566 c	7,133
2007	69	97	25	365 c	556 c	7,648
2008	68	78	55	313 c	514 c	7,842
2009	98	90	43	301 c	532 c	8,557
2010	79	113	24	340 c	556 c	9,809
2011	54	94	44	354 c	546 c	10,825
2012	35	134	20	369 c	558 c	10,777
2013	52	144	16	292 c	504 c	11,943
2014	83	145	15	367 c	610 c	15,029
2015	75	127	16	292 c	510 c	12,757
2016	102	152	11	268 c	533 c	14,753
2017	176	90	15	355 c	636 c	19,243
2018	118	71	18	376 c	583 c	21,841
2019	79	219	33	355 c	686 c	21,650
2020	68	66	33	271 c	438 c	20,695
2021	54	89	33	289 c	465 c	26,183

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 18

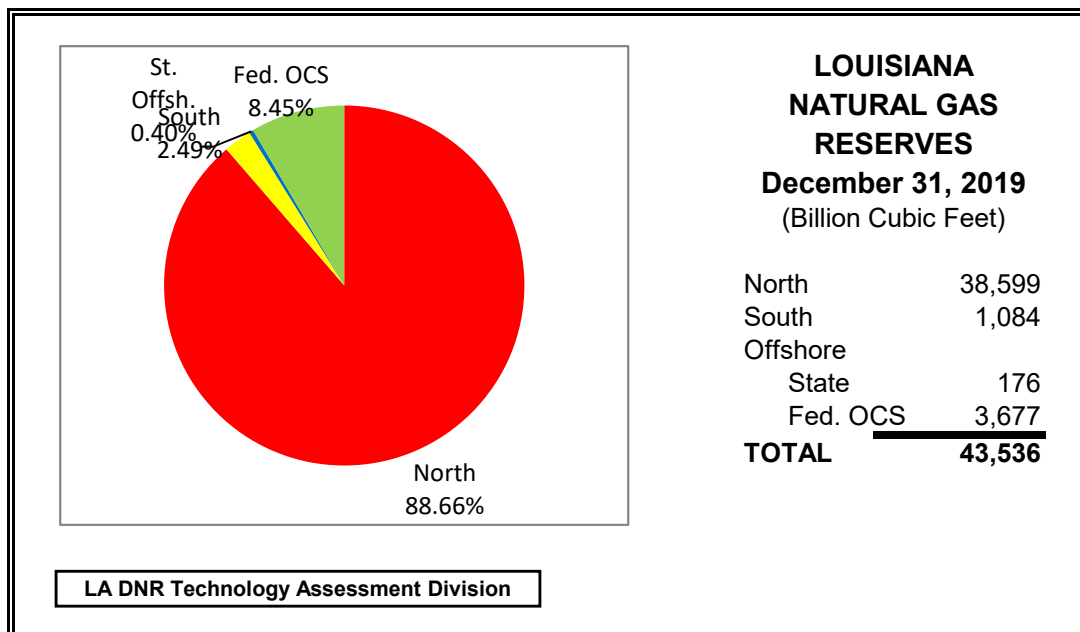


Table 37

LOUISIANA NONAGRICULTURAL EMPLOYMENT<sup>1</sup>

DATE	OIL & GAS PRODUCTION	CHEMICAL INDUSTRY	PETROLEUM MANUFACTURING	ALL PIPELINE*	TOTAL EMPLOYMENT
2002	43,839	25,694	10,566	2,306	1,848,656
2003	42,339	24,558	10,395	2,334	1,851,570
2004	40,249	23,516	9,958	2,122	1,866,870
2005	41,179	23,269	10,240	2,179	1,843,237
2006	44,394	22,188	10,310	2,347	1,810,667
2007	46,764	22,612	10,764	2,454	1,869,965
2008	49,990	22,772	11,225	2,543	1,889,138
2009	47,500	22,529	11,356	2,463	1,856,385
2010	47,916	22,533	11,423	2,667	1,833,888
2011	49,239	23,168	11,163	2,778	1,846,761
2012	50,963	23,029	11,276	2,862	1,868,317
2013	50,242	23,345	11,575	2,857	1,891,851
2014	50,032	24,086	11,982	2,976	1,922,947
2015	43,492	25,025	12,048	3,122	1,929,817
2016	34,329	25,528	11,785	2,707	1,908,803
2017	31,828	25,510	11,824	2,575	1,904,609
2018	34,205	26,246	12,030	2,460	1,917,918
2019	34,921	29,847	11,372	2,622	1,921,493
January	33,534	27,356	11,426	2,653	1,909,049
February	33,573	27,371	11,404	2,637	1,917,460
March	33,125	27,323	11,470	2,673	1,898,024
April	30,203	27,196	11,420	2,663	1,663,234
May	28,607	26,964	11,421	2,632	1,687,891
June	27,514	26,903	11,313	2,615	1,718,741
July	27,171	26,820	11,360	2,589	1,709,158
August	26,991	26,738	11,351	2,580	1,741,057
September	26,962	26,674	11,279	2,569	1,734,136
October	26,935	26,551	11,200	2,517	1,783,220
November	27,201	26,434	11,086	2,517	1,796,199
December	27,069	26,540	11,040	2,501	1,796,225
<b>2020 Average</b>	<b>29,074</b>	<b>26,906</b>	<b>11,314</b>	<b>2,596</b>	<b>1,779,533</b>
January	26,065	26,363	11,008	2,433	1,770,697
February	26,263	26,298	10,972	2,417	1,775,274
March	26,969	26,417	10,834	2,392	1,788,064
April	27,217	26,439	10,634	2,353	1,804,769
May	27,705	26,383	10,504	2,350	1,813,426
June	27,514	26,465	10,424	2,336	1,806,104
July	28,264	26,500	10,442	2,368	1,808,298
August	28,116	26,531	10,406	2,360	1,818,252
September	27,469	26,535	10,326	2,327	1,775,133
October	28,088	26,438	10,319	2,333	1,842,023
November	28,161	26,465	10,314	2,332	1,854,256
December	28,311	26,570	10,348	2,337	1,855,168
<b>2021 Average</b>	<b>27,512</b>	<b>26,450</b>	<b>10,544</b>	<b>2,362</b>	<b>1,809,289</b>

\* Natural Gas Pipeline employment is included in 2001 forward but excluded in prior years.

e Estimated r Revised p Preliminary See footnote in Appendix B

Figure 19

LOUISIANA ENERGY CONSUMPTION BY SOURCE

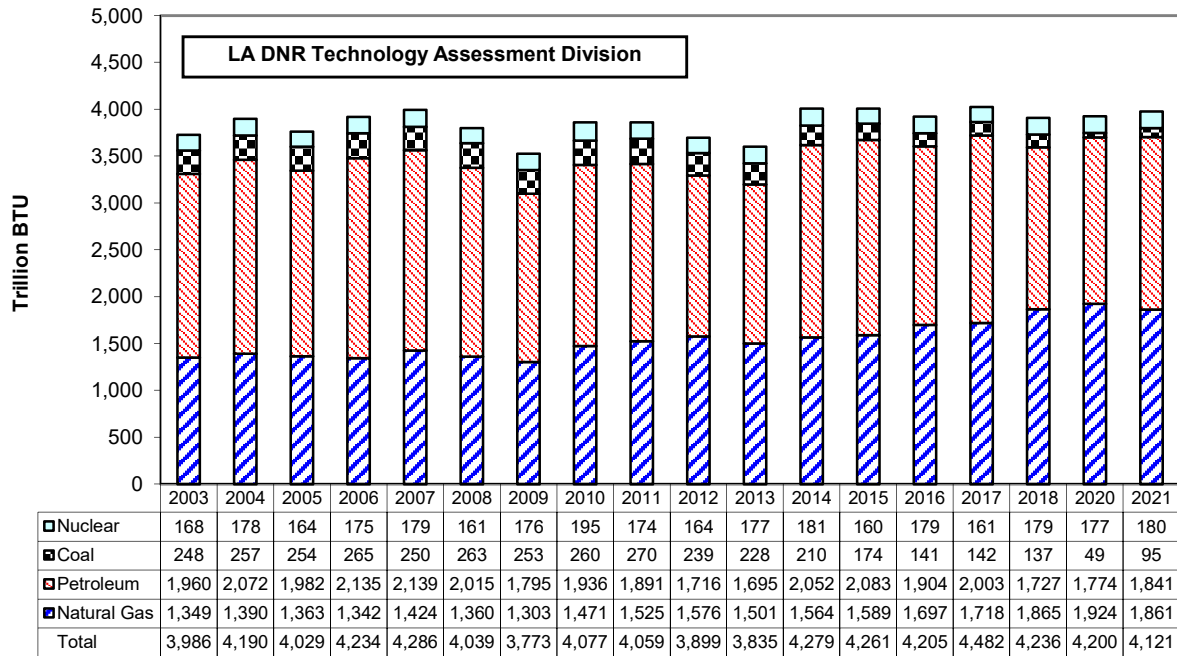
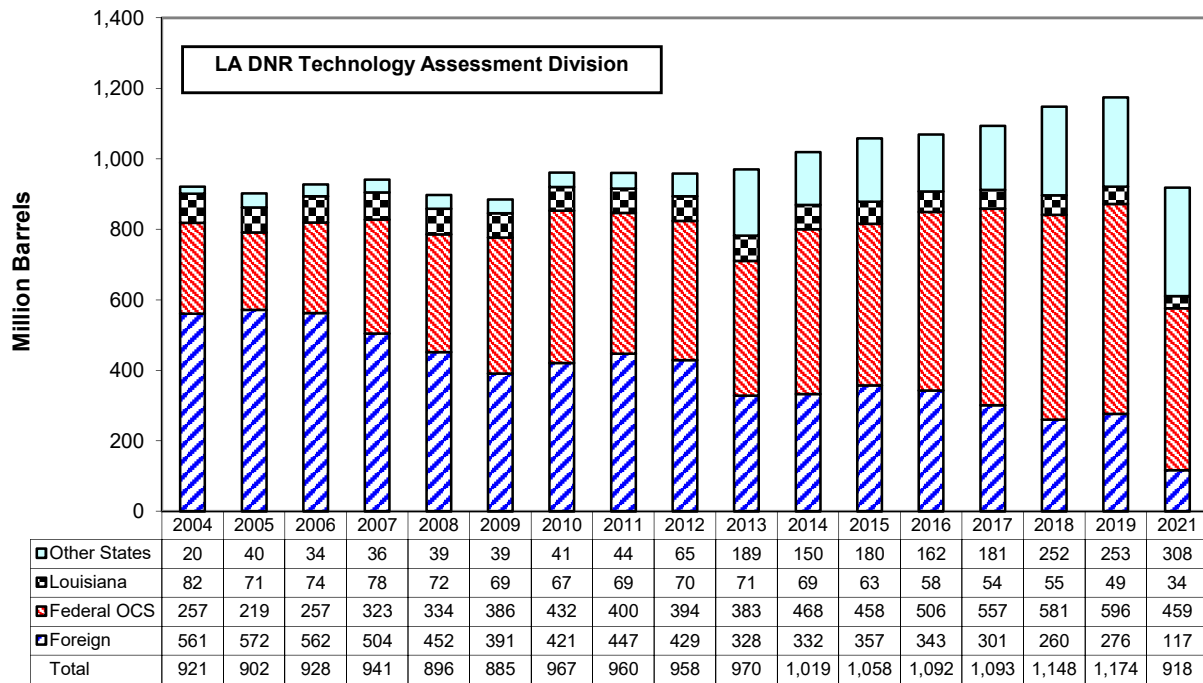


Figure 20

LOUISIANA REFINERY CRUDE OIL INPUT BY SOURCE



**Table 38**

**LOUISIANA ENERGY CONSUMPTION ESTIMATES BY SOURCE <sup>11</sup>**

<b>Year</b>	<b>Total Energy (TBTU)</b>	<b>Total Natural Gas (BCF)</b>	<b>Total Petroleum (MBBLS)</b>	<b>Total Coal (MST)</b>	<b>Total Nuclear (Million KWH)</b>	<b>Hydroelectric Power (Million KWH)</b>
1982	3,648	1,556	329,383	3,724	0	0
1983	3,443	1,413	307,978	6,154	0	0
1984	3,584	1,594	283,675	6,855	0	0
1985	3,349	1,386	280,304	9,217	2,457	0
1986	3,507	1,439	292,730	10,459	10,637	0
1987	3,569	1,501	286,809	10,391	12,324	0
1988	3,607	1,446	300,896	12,848	13,785	0
1989	3,764	1,556	297,765	12,471	12,391	0
1990	3,858	1,588	304,516	12,547	14,197	656
1991	3,847	1,525	312,517	12,965	13,956	656
1992	3,966	1,551	329,450	13,674	10,356	656
1993	4,034	1,579	334,556	13,676	14,398	1232
1994	4,170	1,586	358,274	14,100	12,779	972
1995	4,210	1,679	350,162	13,357	15,686	952
1996	4,389	1,616	374,722	12,534	15,765	964
1997	4,496	1,661	361,782	13,874	13,511	1036
1998	4,227	1,569	348,208	13,891	16,428	1063
1999	4,227	1,495	381,195	13,953	13,112	802
2000	4,551	1,537	428,363	15,737	15,796	532
2001	4,009	1,307	377,607	14,934	17,336	732
2002	4,145	1,426	383,119	14,676	17,305	891
2003	3,986	1,308	363,307	15,592	16,126	892
2004	4,190	1,346	384,677	16,059	17,080	1,099
2005	4,029	1,214	366,578	15,856	15,676	811
2006	4,234	1,297	396,178	16,410	16,735	713
2007	4,286	1,384	396,182	15,524	17,078	827
2008	4,039	1,324	430,005	16,409	15,371	1,064
2009	3,773	1,278	416,905	15,736	16,782	1,236
2010	4,077	1,448	449,440	16,240	18,639	1,109
2011	4,059	1,508	449,334	16,792	16,615	1,044
2012	3,899	1,563	428,594	14,893	15,659	680
2013	3,835	1,479	434,052	13,933	16,954	1,045
2014	3,941	1,507	358,043	12,821	17,311	1,090
2015	3,912	1,556	366,323	11,016	15,301	999
2016	4,031	1,678	359,755	8,834	17,152	1,103
2017	4,208	1,679	383,740	8,638	15,410	906
2018	4,246	1,825	369,656	8,379	17,153	1,180
2019	4,282	1,922	377,657	5,492	13,981	1,366
2020	4,200	1,885	411,450	2,962	16,950	1,204

e Estimated r Revised p Preliminary See footnote in Appendix B

TBTU = Trillion BTU

BCF = Billion Cubic Feet

KWH = Kilowatt-hours

MBBLS = Thousand Barrels

MST = Thousand Short Tons

Table 39

## LOUISIANA REFINERY CRUDE OIL STATISTICS

DATE	AVERAGE STOCK ON HAND (Barrels)	DAILY AVERAGE RUNS TO STILL (Barrels)	LICENSED REFINERIES
2003	15,246,004	2,469,756	17
2004	15,938,390	2,543,087	18
2005	16,217,856	2,458,189	18
2006	16,741,544	2,528,319	17
2007	16,108,022	2,687,658	17
2008	16,248,826	2,440,984	18
2009	13,019,604	2,412,848	19
2010	14,183,752	2,632,282	19
2011	13,473,779	2,743,681	19
2012	13,596,335	2,754,173	18
2013	14,611,002	2,750,860	18
2014	14,160,947	2,831,181	17
2015	14,611,002	2,750,860	18
2016	14,160,947	2,831,181	17
2017	14,414,543	3,025,117	18
2018	14,633,948	3,032,972	17
2019	14,930,822	3,046,307	17
2020	14,463,737	3,053,753	17
January	14,364,072	3,188,383	16
February	13,979,978	3,053,261	16
March	15,754,913	2,919,893	16
April	14,756,610	2,964,514	16
May	15,748,125	3,493,030	16
June	15,738,970	3,511,280	16
July	15,754,911	3,605,970	16
August	15,211,029	3,332,751	16
September	12,262,232	2,403,097	15
October	14,179,994	3,198,079	15
November	14,731,465	3,518,352	15
December	15,024,007	3,705,555	15
<b>2021 Average</b>	<b>14,792,192</b>	<b>3,241,180</b>	<b>16</b>
January	14,894,840	3,661,730	15
February	14,007,636	3,283,000	15
March	14,995,254	3,616,589	15
April	14,539,742	3,542,540	15
May	14,880,961	3,586,609	15
June	14,767,156	3,631,776	15
July	15,544,692	3,897,757	15
August	15,311,719	3,801,345	15
September	14,634,164	3,625,895	15
October	14,562,389	3,629,012	15 p
November	14,366,126	3,621,874	15 p
December	14,473,251	3,541,971	15 p
<b>2022 Average</b>	<b>14,748,161</b>	<b>3,620,008</b>	<b>15 p</b>

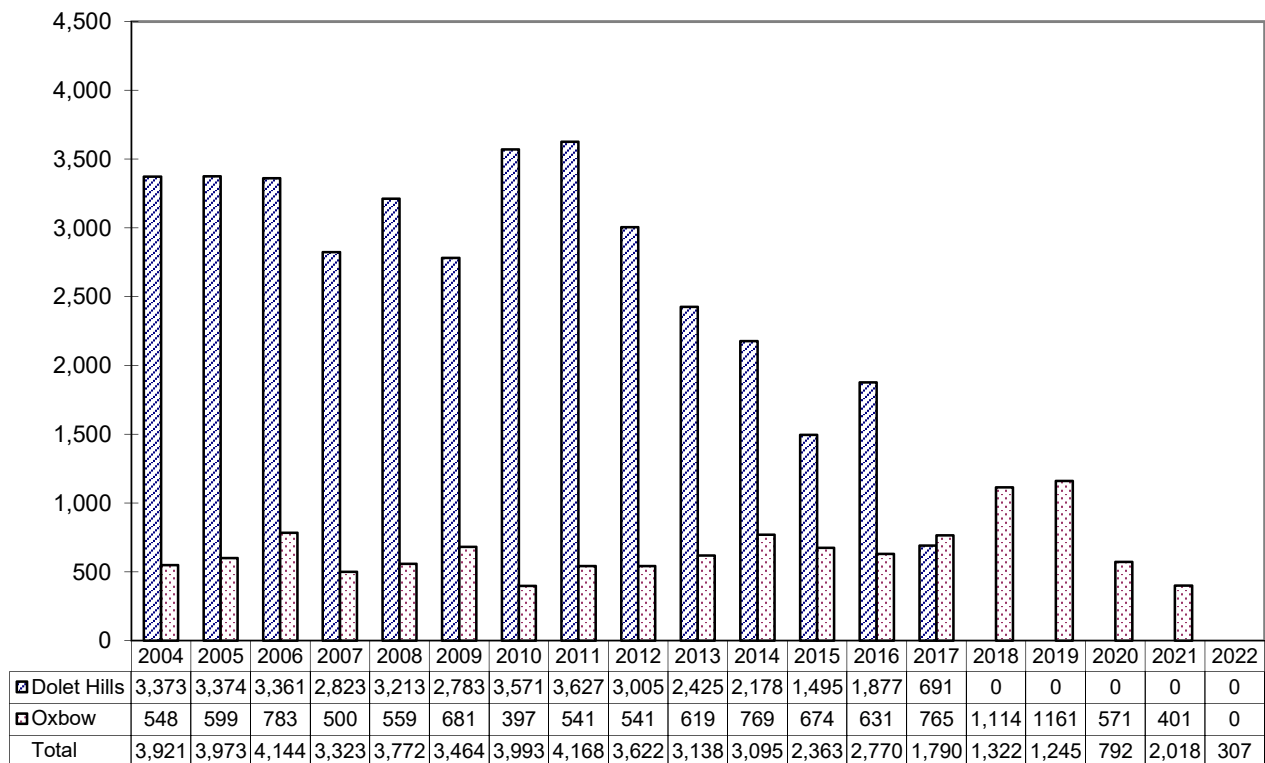
e Estimated r Revised p Preliminary See footnote in Appendix B



Exxon-Mobil Refinery - Baton Rouge

Figure 21

**LOUISIANA LIGNITE PRODUCTION BY MINE SOURCE**  
(Thousand Tons Shipped)



**Table 40**

**LOUISIANA ELECTRIC UTILITIES NET ELECTRICITY GENERATION <sup>14</sup>  
BY FUEL TYPE  
(Million KWH)**

<b>YEAR</b>	<b>COAL</b>	<b>OIL</b>	<b>GAS</b>	<b>NUCLEAR</b>	<b>TOTAL</b>
1981	1,529	0	2,634	39,947	0
1982	4,998	0	940	35,594	0
1983	8,377	0	356	28,311	0
1984	9,830	0	140	29,360	0
1985	13,968	0	100	27,736	2,457
1986	12,642	2,884	419	26,202	10,637
1987	12,176	2,926	60	23,823	12,324
1988	14,372	4,059	272	24,286	13,785
1989	14,227	3,854	298	21,900	12,391
1990	13,890	3,910	130	26,061	14,197
1991	14,786	4,126	45	24,245	13,956
1992	15,613	4,183	483	24,554	10,356
1993	15,794	3,572	1,838	23,751	14,398
1994	15,761	4,364	680	26,586	12,779
1995	14,632	4,321	49	30,867	15,686
1996	14,630	4,002	273	23,972	15,765
1997	16,453	4,499	645	26,580	13,511
1998	16,131	4,631	600	28,318	16,428
1999	16,386	4,780	397	30,162	13,112
2000	6,676 *	5,145	840	26,669	15,796
2001	6,136 *	4,731	1,775	20,284	17,366
2002	12,259 *	68	25,086	17,305	54,922
2003	11,020 *	1,008	15,094	16,126	43,485
2004	11,324 *	3,694	15,139	17,080	47,604
2005	11,416 *	3,378	13,688	15,676	44,158
2006	11,545 *	1,757	10,854	16,735	40,891
2007	10,736 *	1,977	13,872	17,078	43,523
2008	11,213 *	1,901	14,680	15,371	43,164
2009	11,025 *	1,460	14,325	16,782	43,592
2010	11,226 *	2,891	18,924	18,639	51,681
2011	11,860 *	4,378	22,071	16,615	54,924
2012	11,163 *	2,701	22,525	15,659	52,048
2013	9,843 *	4,476	24,227	16,954	56,226
2014	8,538 *	4,791	27,878	17,311	58,518
2015	9,125 *	4,021	37,283	15,301	65,730
2016	8,062 *	4,582	34,690	17,152	64,486
2017	12,315 *	4,570	33,664	15,410	65,959
2018	11,786 *	4,248	33,807	17,152	66,993 *
2019	7,418	3,188	69,523	13,981	94,110 *
2020	3,918	3,429	70,782	16,950	100,774 *
2021	7,873	3,882	63,961	17,249	98,715 *

\* Cajun Electric Power Cooperative's purchase by Louisiana Generating LLC changed their classification from electric utility to independent power producer.

e Estimated r Revised p Preliminary See footnote in Appendix B





## Notes



## Appendix A

### Abbreviations

BCF	Billion Cubic Feet
BTU	British Thermal Unit
DNR	Louisiana Department of Natural Resources
DOE	United States Department of Energy
DOI	United States Department of the Interior
EIA	Energy Information Administration, DOE
FOB	Free on Board
GOM	Gulf of Mexico
KWH	Kilowatt-hours
MBBLS	Thousand Barrels
MCF	Thousand Cubic Feet
MMB	Million Barrels
MMS	Minerals Management Service, DOI
MST	Thousand Short Tons
NGC	Natural Gas Clearinghouse
OCS	Outer Continental Shelf
OPEC	Organization of Petroleum Exporting Countries
RAC	Refinery Acquisition Costs
SLS	South Louisiana Sweet Crude Oil
SPR	Strategic Petroleum Reserve
TBTU	Trillion BTU
TCF	Trillion Cubic Feet

### State Abbreviations Used in the Louisiana Energy Facts Annual

AL	Alabama	MS	Mississippi
AK	Alaska	MT	Montana
AR	Arkansas	ND	North Dakota
CA	California	NM	New Mexico
CO	Colorado	OK	Oklahoma
IL	Illinois	PA	Pennsylvania
KS	Kansas	TX	Texas
LA	Louisiana	UT	Utah
MI	Michigan	WY	Wyoming

## Appendix B

### Data Sources\*

1. EMPLOYMENT AND TOTAL WAGES PAID BY EMPLOYERS SUBJECT TO LOUISIANA EMPLOYMENT SECURITY LAW, Baton Rouge, LA: Louisiana Department of Labor, Office of Employment Security, Research and Statistics Unit.
2. MONTHLY ENERGY REVIEW and ANNUAL ENERGY REVIEW, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
3. NATURAL GAS MONTHLY and NATURAL GAS ANNUAL, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
4. BAKER HUGHES ROTARY RIGS COUNT, Houston, TX: Baker Hughes Inc.
5. October 2002 to Present, NATURAL GAS WEEK, Washington, D.C.: Energy Intelligence Group. Prior, SURVEY OF DOMESTIC SPOT MARKET PRICES, Houston, TX: Dynegey Inc. (formerly Natural Gas Clearinghouse).
6. PETROLEUM MARKETING MONTHLY and PETROLEUM MARKETING ANNUAL, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
7. PETROLEUM SUPPLY MONTHLY and PETROLEUM SUPPLY ANNUAL, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
8. SEVERANCE TAX, Baton Rouge, LA: Louisiana Department of Revenue, Severance Tax Section. The severance tax reported production volumes are different from actual production due to reporting time lag and well tax exemptions.
9. U.S. CRUDE OIL, NATURAL GAS and NATURAL GAS LIQUIDS RESERVES, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
10. THE WALL STREET JOURNAL, Gulf Coast Edition, Beaumont, TX: Dow Jones and Company.
11. STATE ENERGY DATA REPORT, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.
12. FEDERAL OFFSHORE STATISTICS, Washington, D.C.: U.S. Department of the Interior, Bureau of Ocean Energy Management.
13. NATURAL RESOURCES REVENUE, Denver, CO: U.S. Department of the Interior, Office of Natural Resources Revenue.
14. ELECTRIC POWER MONTHLY, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.

- Unless otherwise specified, data is from the Louisiana Department of Natural Resources.

## **An Explanation of Changes in Oil and Gas Statistics**

### **Note # 1**

Current production data and all future reports will reflect changes due to modifications in the reporting system by the Department of Natural Resources Office of Conservation, Production Audit Section. Only the oil and gas production data in state jurisdiction is affected.

The new data for oil will not include crude oil, condensate or raw make recovered from natural gas processing plants. In the past, these products were added to the state production as crude oil or condensate.

A separate report on gas plants liquids production is not available at the present.

In addition, the gas data system has been adjusted to reflect reporting production on the date produced. Previously, it had been reported on the date first purchased.

The new reporting system should produce more accurate and timely data.

The Technology Assessment Division is not the source of these data sets, but merely reports data provided to us by the Office of Conservation. However, we understand that users of our time series data need consistency over time. For that reason, our time series has been adjusted backwards to 1980 using these new definitions.

### **Note # 2**

Producing oil and gas well data since 2000 reflect changes due to modifications in the reporting system by the Department of Natural Resources Office of Conservation.

The new data for oil and natural gas producing wells count them as productive if they had any production in the month, previous system counted only the producing wells at the end of the month. The new reporting system should produce more accurate and timely data.

The Technology Assessment Division is not the source of these data sets, but merely reports data provided to us by the Office of Conservation. However, we understand that users of our time series data need consistency over time, but due to lack of accurate information the time series has been adjusted backwards to 2000 using the new system.

Other factors that affected the big increase on wells numbers are the big jump on energy prices around 2000, and the inactive wells

## Outer Continental Shelf Lands Act (OCSLA)

The OCSLA of 1953 (67 Stat. 462), as amended (43 U.S.C. 1331 et seq. (1988)) established Federal jurisdiction over submerged lands on the Outer Continental Shelf (OCS) seaward of State boundaries. Under the OCSLA, the Secretary of the Interior is responsible for the administration of mineral exploration and development of the OCS. The Act empowers the Secretary to grant leases to the highest qualified responsible bidder(s) on the basis of sealed competitive bids and to formulate such regulations as necessary to carry out the provisions of the Act. The Act, as amended, provides guidelines for implementing an OCS oil and gas exploration and development program. The basic goals of the Act include the following:

1. To establish policies and procedures for managing the oil and natural gas resources of the OCS that are intended to result in expedited exploration and development of the OCS in order to achieve national economic and energy policy goals, assure national security, reduce dependence on foreign sources, and maintain a favorable balance of payments in world trade.
2. To preserve, protect, and develop oil and natural gas resources of the OCS in a manner that is consistent with the need
  - (a) to make such resources available to meet the nation's energy needs as rapidly as possible;
  - (b) to balance orderly resource development with protection of the human, marine, and coastal environments;
  - (c) to ensure the public a fair and equitable return on the resources of the OCS;
  - (d) to preserve and maintain free enterprise competition.
3. To encourage development of new and improved technology for energy resource production, this will eliminate or minimize risk of damage to the human, marine, and coastal environments.

Royalty revenues from Federal offshore leases on the OCS are distributed to the Land and Water Conservation Fund, the Historic Preservation Fund, and the General Fund of the U.S. Treasury. Transfers are made in each fiscal year from OCS royalties, rentals and bonuses in order to maintain the Land and Water Conservation Fund's annual authorization of \$900 million. Annually, \$150 million is put into the Historic Preservation Fund. The balance of offshore revenue receipts is directed to the General Fund of the U.S. Treasury.

Section 8(g) of the OCSLA Amendments of 1978 provided that the states were to receive a "fair and equitable" division of revenues generated from the leasing of lands within 3 miles of the seaward boundary of a coastal state that contains one or more oil and gas pools or fields underlying both the OCS and lands subject to the jurisdiction of the state. The states and the federal government, however, were unable to reach agreement concerning the meaning of the term "fair and equitable." Revenues

generated in the 3-mile boundary zone were subsequently placed into an escrow fund in August 1979.

Congress resolved the dispute over the meaning of "fair and equitable" in the Outer Continental Shelf Lands Act Amendments of 1985, Public Law 99-272. The amendments required that the affected coastal state will receive 27 percent of the revenues generated from the leasing and development of oil and natural gas resources located in the Federal 8(g) zone. The law provided for the following distribution of revenues to Louisiana under section 8(g):

Before 1986: Louisiana did not receive any shared revenue from OCS production prior to 1986.

1986: Louisiana received a payment of \$68.7 million from royalties, rentals and bonuses collected in 1986 and prior years.

1998-2000: In 1987 Louisiana received an initial settlement payment of \$572 million from the escrow funds. A series of annual settlement payments have been disbursed to the states over a 15-year period along with an annual disbursement of 27 percent of royalty, rental, and bonus revenues received within each affected state's 8(g) zone. The annual settlement payments are: From 1987 through 1991, Louisiana received an annual settlement payment of \$2.52 million per year. From 1992 through 1996, the state received an annual settlement payment of \$5.88 million per year. Beginning in 1997 until the last payment in 2001, Louisiana will receive an annual settlement payment of approximately \$8.40 million per year.

2002 and After: No further settlement payments; states receive only a recurring annual disbursement of 27 percent of royalty, rental, and bonus revenues received within each affected state's 8(g) zone. Louisiana will receive an annual disbursement of 27 percent of royalty, rental, and bonus revenues received within Louisiana's affected 8(g) zone.

## **Gulf of Mexico Energy Security Act (GOMESA)**

On December 20, 2006, the President signed into law the GOMESA of 2006 (Pub. Law 109-432). The Act significantly enhances OCS oil and gas leasing activities and revenue sharing in the Gulf of Mexico (GOM). The Act:

- A. Stipulated that 8.3 million acres be offered for oil and gas leases. This acreage is included in both the Central Gulf Planning Area and the Eastern Gulf Planning Area. The 8.3 million acres consist of approximately 2 million acres in the Central Gulf, it was the first that was offered for lease after enactment of the law and was included in Lease Sale 205 in October 2007; additional .5 million acres in the Eastern Gulf received additional environmental review and was offered in



Lease Sale 224 in March 2008; and the remaining 5.8 million acres in the Central Gulf was offered for leasing at Lease Sale 208 in March 2009.

- B. Updated moratoria (bans) areas in the Gulf. Those tracts in the Eastern Gulf of Mexico that are within 125 miles of Florida, all tracts east of the Military Mission Line, and tracts in the Central Gulf of Mexico within 100 miles of Florida that are included in the moratorium area which extends until 2022.
- C. Created revenue sharing provisions for four Gulf oil and gas producing States – Alabama, Louisiana, Mississippi and Texas, and their coastal political subdivisions. There are two phases in the GOMESA revenue sharing.
  - a. Phase 1: Beginning in Fiscal Year 2007, 37.5 percent of all qualified OCS revenues, including bonus bids, rentals and production royalty, will be shared among the four States and their coastal political subdivisions from those new leases issued in the 181 Area in the Eastern planning area (also known as the 224 Sale Area) and the 181 South Area. Additionally, 12.5 percent of revenues are allocated to the Land and Water Conservation Fund (LWCF). The final regulations for Phase I revenue sharing were issued on December 23, 2008 and specify that the Bureau intends to disburse funds on or before March 31st of the fiscal year following the fiscal year to which the qualified OCS revenues were attributed..
  - b. Phase 2: The second phase of GOMESA revenue sharing begins in Fiscal Year 2017. It expands the definition of qualified OCS revenues to include receipts from GOM leases issued either after December 20, 2006, in the 181 Call Area, or, in 2002–2007 GOM Planning Areas subject to withdrawal or moratoria restrictions. A revenue sharing cap of \$500 million per year for the four Gulf producing States, their CPS's and the LWCF applies from fiscal years 2016 through 2055. The \$500 million cap does not apply to qualified revenues generated in those areas associated with Phase I of the GOMESA program. The Bureau will address the second phase of GOMESA revenue sharing in a subsequent rulemaking.
- D. Allowed for the exchange of existing leases in the moratorium areas for bonus or royalty credit to be used in the Gulf of Mexico. A credit will be provided to lessees who relinquish certain eligible leases in the Gulf of Mexico. Leases are considered eligible if they lie within 125 miles of the Florida Coast in the Eastern Planning Area or within 100 miles of the Florida Coast in the Central Planning Area. The lessees will be allowed to use the credits in lieu of monetary payment for either a lease bonus bid or royalty due on oil and gas production from most other leases in the Gulf of Mexico or transfer the credits to other Gulf of Mexico lessees for their use.

## Appendix C

### Glossary

**Bonus.** A cash payment by the lessee for the execution of a lease. A lease is a contract that gives a lessee the right: (a) To search for minerals, (b) to develop the surface for extraction, and (c) to produce minerals within the area covered by the contract.

**Casinghead Gas.** All natural gas released from oil during the production of oil from underground reservoirs.

**City-Gate.** A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

**Commercial Consumption.** Gas used by non-manufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises. This also includes gas used by local, state, and federal agencies engaged in non-manufacturing activities.

**Condensate.** (See Lease Condensate)

**Crude Oil.** A mixture of hydrocarbons that existed in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.

#### **CRUDE OIL PRICES**

**Domestic Wellhead.** The average price at which all domestic crude oil is first purchased.

**Imports FO8.** The price actually charged at the producing country's port of loading. It is the responsibility of the buyer to arrange for transportation and insurance.

**Imports Landed.** The dollar per barrel price of crude oil at the port of discharge. It includes crude oil landed in the U.S. and U.S. company-owned refineries in the Caribbean, but excludes crude oil from countries that export only small amounts to the United States. The landed price does not include charges incurred at the port of discharge.

**Imports OPEC FO8.** The average price actually charged by OPEC at their country's port of loading. This price does not include transportation or insurance.

**OCS Gulf.** The average price at which all offshore, Outer Continental Shelf, Central Gulf region crude oil is first purchased as reported by the U.S. Department of Energy, Energy Information Administration.

**Refinery Acquisition Costs (RAC).** The average price paid by refiners in the U.S. for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners.

a) **Domestic.** The average price of crude oil produced in the United States or from the Outer Continental Shelf of the U.S.

b) **Imports.** The average price of any crude oil not reported as domestic.

**Refinery Posted.** The average price from a survey of selected refiners' postings for Light Louisiana Sweet (LLS) crude, which is effective at the middle and at the end of the month.

**Severance Tax.** The average wellhead price calculated from oil severance taxes paid to the Louisiana Department of Revenue and Taxation.

**Spot Market.** The spot market crude oil price is the average of daily Light Louisiana Sweet (LLS) crude price futures traded in the month and usually includes transportation from the producing field to the St. James, Louisiana terminal.

**State.** The average price at which all Louisiana crude oil, excluding Louisiana OCS, is first purchased as reported in a survey by the U.S. Department of Energy, Energy Information Administration.

**State Royalty.** The average wellhead price from its royalty share of oil produced in state lands or water bottoms. The price is calculated by the ratio of received oil royalty gross revenue divided by royalty volume share reported to the Louisiana Department of Natural Resources.

**Developmental Well.** Wells drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

**Dry Gas.** (See Natural Gas, "Dry")

**Dry Hole.** An exploratory or developmental well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

**Electric Utility Consumption.** Gas used as fuel in electric utility plants.

**Exploratory Well.** A well drilled to find and produce oil or gas in an unproved area, to find a new reservoir in an old field, or to extend the limits of a known oil or gas reservoir.

**Exports.** Crude oil or natural gas delivered out of the Continental United States and Alaska to foreign countries.

**Extraction Loss.** The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

**Federal Offshore or Federal OCS.** (See Louisiana OCS)

**Federal Onshore.** They are lands in the United States for which ownership is claimed by the U.S. federal government, pursuant to Article Four, section 3, clause 2 of the United States Constitution.

**FO8 Price** (Free on board). The price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts or additions of premiums where applicable and should be the actual price paid with no adjustment for credit terms.

**Gate.** (See City-Gate)

**Gross Revenue.** Amount of money received from a purchaser, including charges for field gathering, transportation from wellhead to purchaser receiving terminal, and state production severance tax.

**Gross Withdrawals.** (See Natural Gas, Gross Withdrawals)

**Imports.** Crude oil or natural gas received in the Continental United States, Alaska, and Hawaii from foreign countries.

**Industrial Consumption.** Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

**Lease Condensate.** A mixture consisting primarily of pentane and heavier hydrocarbons that is recovered as a liquid from natural gas in lease or field separation facilities, exclusive of products recovered at natural gas processing plants or facilities.

**Lease Separator.** A facility installed at the surface for the purpose of: (a) Separating gases from produced crude oil and water at the temperature and pressure conditions of the separator, and/or (b) separating gases from that portion of the produced natural gas stream which liquefies at the temperature and pressure conditions of the separator.

**Louisiana OCS.** Submerged lands under federal regulatory jurisdiction that comprise the Continental Margin or Outer Continental Shelf adjacent to Louisiana and seaward of the Louisiana Offshore region.

**Louisiana Offshore.** A 3-mile strip of submerged lands under state regulatory jurisdiction located between the State coast line and the OCS region.

**Louisiana Onshore.** Region defined by the State boundary and the coast line.

**Major Pipeline Company.** A company whose combined sales for resale, and gas transported interstate or stored for a fee, exceeded 50 million thousand cubic feet in the previous year.

**Marketed Production.** (See Natural Gas, Marketed Production)

**Natural Gas.** A mixture of hydrocarbon compounds and small quantities of various non-hydrocarbons existing in the gaseous phase or in solution with crude oil in natural underground reservoirs at reservoir conditions. The principal hydrocarbons usually contained in the mixture are methane, ethane, propane, butanes and pentanes. Typical non-hydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide and nitrogen. Under reservoir conditions, natural gas and the liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil, and are not distinguishable at the time as separated substances.

**Natural Gas, "Dry".** The actual or calculated volume of natural gas which remains after: (a) The liquefiable hydrocarbon portion has been removed from the gas stream, and (b) any volumes of non-hydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable.

**Natural Gas, Gross Withdrawals.** It is the full well-stream volume, including all natural gas plant liquids and all non-hydrocarbon gases, but excluding lease condensate.

**Natural Gas Liquids.** Lease condensate plus natural gas plant liquids.

**Natural Gas, Marketed Production.** Gross withdrawals less gas used for pressurizing, quantities vented and flared, and non-hydrocarbon gases removed in treating or processing operations. It includes all quantities of gas used in field and processing operations.

**Natural Gas, OCS Gas.** OCS gas volume is as reported. Most are "dry" gas, though some are "wet" gas.

**Natural Gas Plant Liquids.** Those hydrocarbons remaining in a natural gas stream after field separation and later separated and recovered at a natural gas processing plant or cycling plant through the processes of absorption, adsorption, condensation, fractionation or other methods. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as condensate, natural gasoline, or liquefied petroleum gases. Where hydrocarbon components lighter than propane (e.g., ethane) are recovered as liquids, these components are included with natural gas liquids.

## NATURAL GAS PRICES

**Henry Hub Settled NYMEX.** The last trading day price for the month before delivery posted in the New York Mercantile Exchange for natural gas at Henry Hub.

**Spot Market.** The average price of natural gas paid at the regional spot market receipt points or zones as reported by the Energy Intelligence Group's NATURAL GAS WEEK. The data are a volume weighted average and reflect market activity information gathered during the entire month before the publication date, regardless of delivery date. The data are not an arbitrary weighting by production zone, but a true deal-by-deal volume weighting of prices gathered. Data prior to October 2002 were from Dynegy's survey of the domestic natural gas spot market receipt points or zones located in Louisiana. The new and old points or zones are as follows:

### NATURAL GAS PIPELINES AND SALES POINTS FOR PRICES

<u>Dynegy</u>	<u>Natural Gas Week</u>
ANR	ANR
Eunice, LA	Patterson, LA
COLUMBIA GULF	COLUMBIA GULF TRANSMISSION CO.
Average Louisiana onshore laterals	Average of Erath, Rayne, and Texaco Henry Plant in Louisiana
LOUISIANA INTRASTATES	LOUISIANA INTRASTATES
Average of Faustina, Bridgeline, LIG, and Monterrey pipelines	Average of LIG, Bridgeline, LRC, and Acadian pipelines
SOUTHERN NATURAL	SONAT
South Louisiana	Saint Mary Parish, LA
TENNESSEE GAS	TENNESSEE GAS
Vinton, LA	Average Zone 1 of 500 & 800
TEXAS GAS TRANSMISSION	TEXAS GAS TRANSMISSION
Zone 1 (North Louisiana)	Zone 1 (North Louisiana)
GULF SOUTH PIPELINE	TRUNKLINE GAS CO.
	HENRY HUB

**OCS.** The average wellhead price calculated from sales and volumes from Louisiana OCS natural gas as reported by the U.S. Department of Interior, Office of Natural Resources Revenue.

**State Royalty.** The average wellhead price calculated from revenue received and volumes reported to the Louisiana Department of Natural Resources.

**State Wells.** The average price of gas sold at Louisiana wellhead. This price includes: (a) Value of natural gas plant liquids subsequently removed from the gas, (b) gathering and compression charges, and (c) state production, severance, and/or similar charges.

## **MAJOR PIPELINES PURCHASES.**

a) **Domestic Producers.** The average price of natural gas produced in the United States or from the Outer Continental Shelf of the U.S.

b) **Foreign Imports.** The average price of any natural gas not reported as domestic.

**Wellhead.** The wellhead sales price including: (a) Value of natural gas plant liquids subsequently removed from the gas, (b) gathering and compression charges, and (c) state production, severance, and/or similar charges.

**Natural Gas Plant Liquids (NGPL).** NGPL are those hydrocarbons in natural gas that are separated as liquids at natural gas processing, fractionating, and cycling plants. Products obtained include ethane, liquefied petroleum gases (propane, normal butane, and isobutene), and natural gasoline. Component products may be fractionated or mixed. Lease condensate and plant condensate are excluded. Cycling plants are classified as gas processing plants or facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Note: Some EIA publications categorize NGPL production as field production, in accordance with definitions used prior to January 2014.

**Natural Gas, Wet After Lease Separation.** The volume of natural gas, if any, remaining after: (a) Removal of lease condensate in lease and/or field separation facilities, and (b) exclusion of non-hydrocarbon gases where they occur in sufficient quantities to render the gas unmarketable. Also excludes gas returned to formation in pressure maintenance and secondary recovery projects and gas returned to earth from cycling and/or gasoline plants. Natural gas liquids may be recovered from volumes of natural gas, wet after lease separation, at natural gas processing plants.

**Organization of Petroleum Exporting Countries (OPEC).** Countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

**Outer Continental Shelf (OCS).** All submerged lands that comprise the Continental Margin adjacent to the U.S. and seaward of the state offshore lands. Production in the OCS is under federal regulatory jurisdiction and ownership.

**Processing Plant.** A facility designed to recover natural gas liquids from a stream of natural gas which may or may not have passed through lease separators and/or field separation facilities. Another function of natural gas processing plants is to control the quality of the processed natural gas stream.

**Proved Reserves of Crude Oil.** As of December 31 of the report year, the estimated quantities of all liquids defined as crude oil which geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions. Volumes of crude oil in underground storage are not considered proved reserves.

**Proved Reserves of Lease Condensate.** The volumes of lease condensate as of December 31 of the report year expected to be recovered in future years in conjunction with the production of proved reserves of natural gas as of December 31 of the report year.

**Proved Reserves of Natural Gas.** The estimated quantities of natural gas as of December 31 of the report year which analysis of geologic and engineering data demonstrates with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions. Volumes of natural gas in underground storage are not considered proved reserves.

**Proved Reserves of Natural Gas Liquids.** The volumes of natural gas liquids (including lease condensate) as of December 31 of the report year, which analysis of geologic and engineering data demonstrates with reasonable certainty to be separable in the future from proved natural gas reserves under existing economic and operating conditions.

**Rental.** Money paid by the lessee to maintain the lease after the first year if it is not producing. A lease is considered expired when rental is not paid on time on an unproductive lease.

**Reservoir.** A porous and permeable underground formation containing an individual and separate natural accumulation of producible hydrocarbons (oil and/or gas) which is confined by impermeable rock or water barriers and is characterized by a single natural pressure system. Reservoirs are considered proved if economic producibility is supported by actual production or conclusive formation tests (drill stem or wire line), or if economic producibility is supported by core analysis and/or electric or other log interpretations. The area of a gas or oil reservoir considered proved includes: (a) That portion delineated by drilling and defined by gas-oil and/or gas-water contacts, if any; and (b) the immediately adjoining portions not yet drilled, but which can be reasonably judged as economically productive on the basis of available geological and engineering data.

**Residential Consumption.** Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

**Royalty Interest.** Those interests which entitle their owner(s) to a share of the mineral production from a property or to a share of the proceeds from there. These interests do



not contain the rights and obligations of operating the property and normally do not bear any of the costs of exploration, development, or operation of the property.

**Royalty Override (Or Overriding Royalty).** An overriding royalty interest is a percentage of oil and gas revenue from a producing well free of all drilling and producing costs. It is carved out of the lessee's or working interest owner and paid by the lessee or working interest owner. It is limited in duration to the terms of an existing lease, not subject to any of the expenses of development, operation or maintenance, and not connected to an ownership of minerals under the ground, and it is royalty in addition to the usual landowner's royalty reserved to the lessor.

**Severance Tax.** It is levied on production of natural resources taken from land or water bottoms within the territorial boundaries of the state. The state collects no severance from production in federal waters in the Gulf which start three miles from the Louisiana coastline. Natural resources are all forms of timber, including pulp woods, and turpentine and other forest products; minerals such as oil, gas, natural gasoline, distillate, condensate, casinghead gasoline, sulphur, salt, coal, lignite, and ores; also marble, stone, gravel, sand, shells, and other natural deposits; and the salt content in brine.

**State Offshore.** (See Louisiana Offshore)

**Wet After Lease Separation.** (See Natural Gas, Wet After Lease Separation)

**Wildcat Well.** (See Developmental Well)