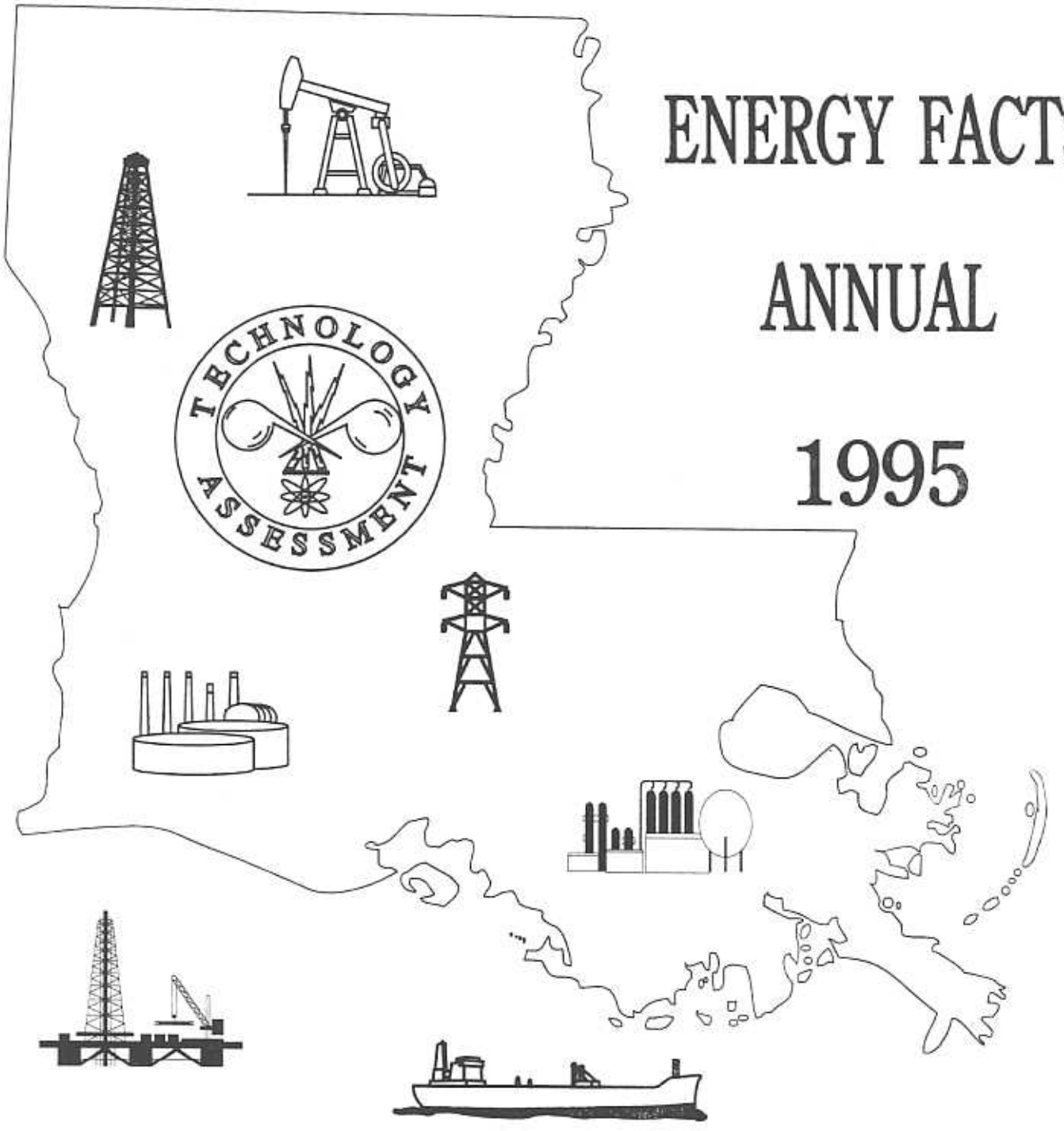
# LOUISIANA ENERGY FACTS ANNUAL 1995




DEPARTMENT OF NATURAL RESOURCES
TECHNOLOGY ASSESSMENT DIVISION
November 15, 1996

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# LOUISIANA ENERGY FACTS ANNUAL

# 1995

Department of Natural Resources
Jack C. Caldwell
Secretary of Natural Resources


Technology Assessment Division

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November 15, 1996

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# INTRODUCTION

## ABOUT THIS PUBLICATION

The **Louisiana Energy Facts Annual** is a digest of energy production and use statistics. It is information from public sources condensed to highlight the information about our state. We hope the graphs and charts provided also help to make clear the trends of those statistics.

Data availability lags limit this **Facts Annual** to include data through December of 1995. Some figures included here are more current than our monthly **1995 Louisiana Energy Facts** due to revisions since the **Facts** were published. This data by its nature continues to be revised, sometimes years after it is first published. We try to bring attention to these changes as we republish them.

We hope you will find this **Facts Annual** useful, and we welcome any comments or suggestions.

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## 1995 HIGHLIGHTS

The data in the **1995 Louisiana Energy Facts Annual** contains some recent trends.

**Natural gas production was down.**

Total natural gas production in Louisiana continued to decline by 0.2%. It should be noted however that state production, which excludes Federal OCS, was marginally higher in North Louisiana and in state controlled offshore waters. Production in these two areas rebounded slightly to the highest levels since 1990-91. These jumps were more than offset by declines in South Louisiana onshore that kept the overall state production on a long term 3.0% per year decline over the past 10 years.

**Some prices were up others were down.**

Oil prices rose slightly. Oil prices peaked at year end at an average $17.55 per barrel. This reflected some cheating on quotas by OPEC producers, but with Iraq's production still out of the market in 1995.

Gas prices dropped. The 1995 average price of $1.59 per MCF was the third lowest in the 11-year history of the Natural Gas Clearinghouse's price survey. The lowest price was $1.44 per MCF in 1991.

**Drilling activity was unchanged.**

While slightly more rigs were active, an average of 141 in 1995, the number of drilling permits issued continued on a slight downward trend. There were no bright spots in drilling activity. It remained flat or slightly down all across the board: north, south, and offshore.

**Mineral revenue and proved reserves increased.**

State mineral revenues were up slightly, mainly due to increased oil prices. Estimates for proved reserves of both gas and oil were also higher for 1995. This continued the trend of reserve increases for the third year.

# SUBDIVISIONS OF LOUISIANA

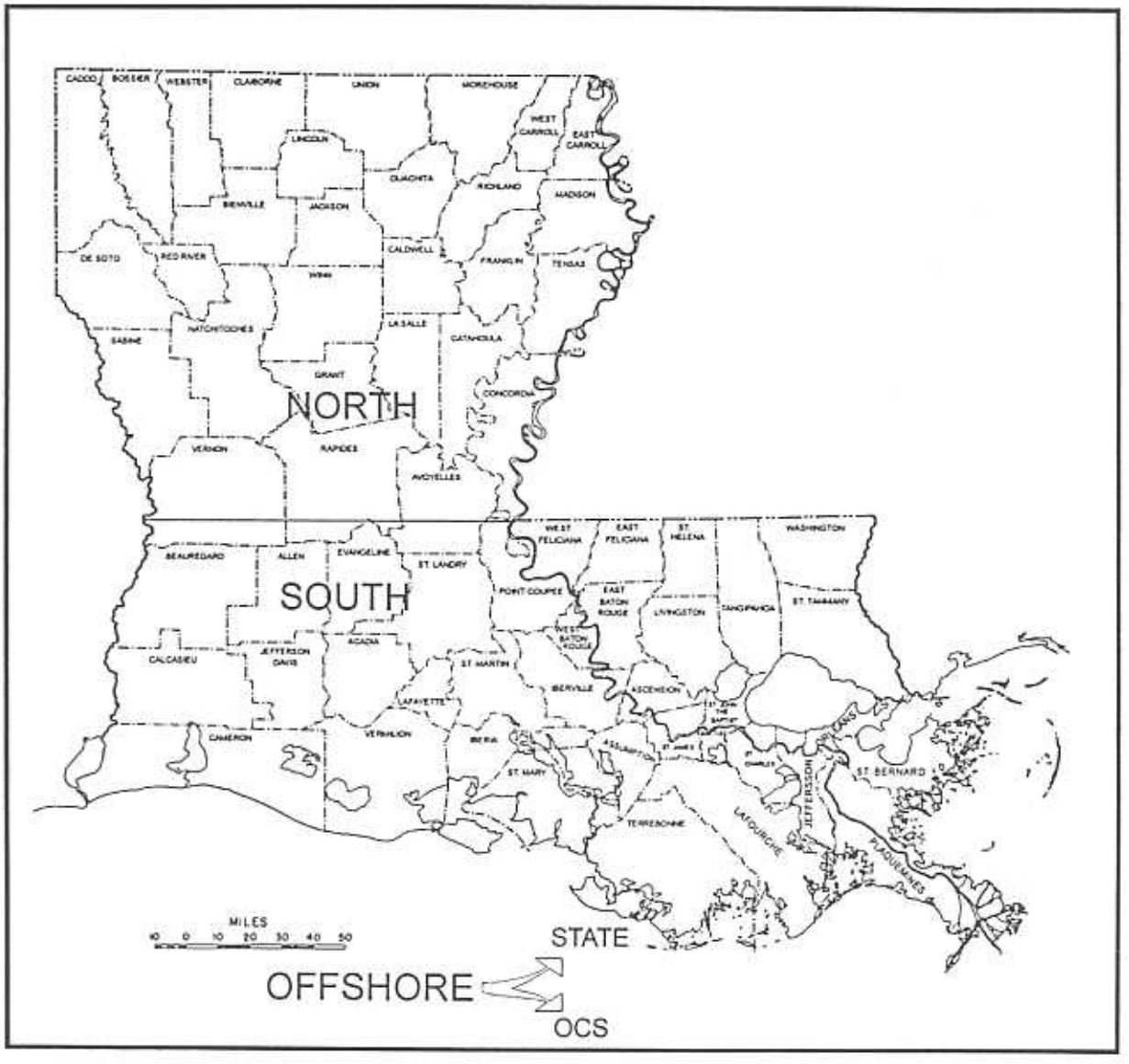


TABLE 1

## LOUISIANA STATE CRUDE OIL PRODUCTION
### Excluding Condensate and OCS
### (Barrels)

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 34,072,947 | 211,500,323 | 37,017,114 | 282,590,384 |
| 1976 | 34,843,495 | 190,567,868 | 34,695,350 | 260,106,713 |
| 1977 | 33,548,990 | 169,446,753 | 30,477,122 | 233,472,865 |
| 1978 | 31,666,528 | 151,493,817 | 28,840,730 | 212,001,075 |
| 1979 | 28,831,653 | 130,427,990 | 25,990,326 | 185,249,969 |
| 1980 | 29,004,703 | 116,638,403 | 24,834,002 | 170,477,108 |
| 1981 | 30,736,984 | 103,284,948 | 23,924,888 | 157,946,820 |
| 1982 | 31,485,800 | 96,155,535 | 22,793,085 | 150,434,420 |
| 1983 | 29,831,731 | 93,737,027 | 22,806,268 | 146,375,026 |
| 1984 | 29,590,376 | 96,690,421 | 25,117,916 | 151,398,713 |
| 1985 | 29,436,551 | 97,622,513 | 24,292,173 | 151,351,237 |
| 1986 | 26,795,748 | 97,853,602 | 24,619,169 | 149,268,519 |
| 1987 | 25,036,758 | 95,476,492 | 23,372,480 | 143,885,730 |
| 1988 | 23,958,703 | 88,673,893 | 22,792,851 | 135,425,447 |
| 1989 | 22,224,981 | 78,275,666 | 20,869,917 | 121,370,564 |
| 1990 | 22,445,972 | 72,017,903 | 21,128,443 | 115,592,318 |
| 1991 | 22,704,171 | 69,546,140 | 22,499,961 | 114,750,272 |
| 1992 | 21,996,120 | 68,545,982 | 21,903,380 | 112,445,482 |
| 1993 | 20,210,421 | 66,097,947 | 21,722,455 | 108,030,823 |
| January | 1,558,360 | 5,174,507 | 1,743,736 | 8,476,603 |
| February | 1,309,392 | 4,706,447 | 1,600,189 | 7,616,028 |
| March | 1,479,619 | 5,238,267 | 1,776,922 | 8,494,808 |
| April | 1,437,242 | 4,945,515 | 1,809,153 | 8,191,910 |
| May | 1,496,557[R] | 5,011,117[R] | 1,869,795[R] | 8,377,469[R] |
| June | 1,416,418[R] | 4,883,920[R] | 1,742,550[R] | 8,042,888[R] |
| July | 1,437,120[R] | 5,006,276[R] | 1,759,977[R] | 8,203,373[R] |
| August | 1,429,992[R] | 5,097,013[R] | 1,718,009[R] | 8,245,014[R] |
| September | 1,387,789[R] | 4,800,255[R] | 1,655,838[R] | 7,843,882[R] |
| October | 1,437,518[R] | 4,961,183[R] | 2,060,251[R] | 8,458,952[R] |
| November | 1,469,126[R] | 5,088,134[R] | 1,794,478[R] | 8,351,738[R] |
| December | 1,479,209[R] | 5,197,945[R] | 1,764,578[R] | 8,441,732[R] |
| **1994 Total** | **17,338,342[R]** | **60,110,579[R]** | **21,295,476[R]** | **98,744,397[R]** |
| January | 1,449,452 | 4,888,044 | 1,854,794 | 8,192,290 |
| February | 1,324,830 | 4,705,595 | 1,574,671 | 7,605,096 |
| March | 1,690,298 | 5,016,788 | 1,737,289 | 8,444,375 |
| April | 1,640,733 | 4,937,915 | 1,736,162 | 8,314,810 |
| May | 1,558,152 | 5,398,473 | 1,819,059 | 8,775,684 |
| June | 1,372,644 | 5,483,541 | 1,852,862 | 8,709,047 |
| July | 1,362,672 | 5,546,849 | 1,851,285 | 8,760,806 |
| August | 1,376,938 | 5,670,535 | 1,853,916 | 8,901,389 |
| September | 1,346,433 | 5,206,911 | 1,918,513 | 8,471,857 |
| October | 1,533,844 | 5,485,764 | 1,860,961 | 8,880,569 |
| November | 1,476,695 | 5,450,508 | 1,715,771 | 8,642,974 |
| December | 1,401,538[E] | 5,424,018[E] | 1,827,218[E] | 8,652,774[E] |
| **1995 Total** | **17,534,229[E]** | **63,214,941[E]** | **21,602,501[E]** | **102,351,671[E]** |

[R]Revised

[E]Estimated

TABLE 2

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

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 3,199,729 | 45,922,653 | 3,967,783 | 53,090,169 |
| 1976 | 3,552,038 | 41,495,384 | 3,662,830 | 48,710,254 |
| 1977 | 3,678,121 | 39,698,090 | 3,327,558 | 46,703,775 |
| 1978 | 3,736,714 | 36,763,098 | 3,524,770 | 44,024,582 |
| 1979 | 3,378,399 | 35,213,787 | 3,369,666 | 41,961,852 |
| 1980 | 3,222,000 | 34,744,956 | 2,757,941 | 40,724,897 |
| 1981 | 4,371,074 | 35,181,456 | 2,348,549 | 41,901,079 |
| 1982 | 4,120,663 | 32,663,371 | 2,147,896 | 38,931,930 |
| 1983 | 3,598,850 | 27,638,588 | 1,996,504 | 33,233,942 |
| 1984 | 3,140,006 | 30,785,661 | 1,918,564 | 35,844,231 |
| 1985 | 2,668,233 | 29,260,762 | 1,721,098 | 33,650,093 |
| 1986 | 2,755,749 | 26,709,496 | 2,176,970 | 31,642,215 |
| 1987 | 2,512,024 | 25,594,838 | 1,811,598 | 29,918,460 |
| 1988 | 2,718,031 | 26,401,604 | 1,700,428 | 30,820,063 |
| 1989 | 2,943,821 | 26,446,428 | 1,835,017 | 31,225,266 |
| 1990 | 3,356,554 | 27,602,203 | 1,701,098 | 32,659,855 |
| 1991 | 4,078,811 | 26,726,276 | 1,715,899 | 32,520,986 |
| 1992 | 3,746,271 | 25,295,694 | 1,587,450 | 30,629,415 |
| 1993 | 3,597,292 | 24,893,887 | 1,606,131 | 30,097,310 |
| January | 335,005 | 2,045,368 | 118,445 | 2,498,818 |
| February | 297,517 | 1,841,407 | 103,191 | 2,242,115 |
| March | 374,262 | 1,996,250 | 122,041 | 2,492,553 |
| April | 283,615[R] | 1,903,280[R] | 125,400[R] | 2,312,295[R] |
| May | 319,496[R] | 1,958,780[R] | 126,187[R] | 2,404,463[R] |
| June | 323,205[R] | 1,933,120[R] | 119,852[R] | 2,376,177[R] |
| July | 321,208[R] | 1,924,676[R] | 128,545[R] | 2,374,429[R] |
| August | 256,612[R] | 1,978,618[R] | 130,098[R] | 2,365,328[R] |
| September | 289,213[R] | 1,896,956[R] | 113,309[R] | 2,299,478[R] |
| October | 280,306[R] | 1,955,638[R] | 134,535[R] | 2,370,479[R] |
| November | 273,396[R] | 1,890,251[R] | 119,409[R] | 2,283,056[R] |
| December | 303,811[R] | 1,978,406[R] | 127,981[R] | 2,410,198[R] |
| **1994 Total** | **3,657,646[R]** | **23,302,750[R]** | **1,468,993[R]** | **28,429,389[R]** |
| January | 336,116 | 1,934,035 | 139,985 | 2,410,136 |
| February | 275,895 | 1,676,764 | 119,200 | 2,071,859 |
| March | 283,706 | 1,838,732 | 163,671 | 2,286,109 |
| April | 287,145 | 1,760,803 | 114,557 | 2,162,505 |
| May | 308,573 | 1,841,359 | 148,009 | 2,297,941 |
| June | 292,670 | 1,817,917 | 125,126 | 2,235,713 |
| July | 323,288 | 1,844,350 | 191,962 | 2,359,600 |
| August | 322,300 | 1,827,955 | 181,588 | 2,331,843 |
| September | 313,437 | 1,839,250 | 179,786 | 2,332,473 |
| October | 343,321 | 1,926,010 | 220,055 | 2,489,386 |
| November | 355,518 | 1,902,688 | 255,863 | 2,514,069 |
| December | 324,089[E] | 1,854,695[E] | 191,897[E] | 2,370,681[E] |
| **1995 Total** | **3,766,058[E]** | **22,064,558[E]** | **2,031,699[E]** | **27,862,315[E]** |

[R]Revised

[E]Estimated

TABLE 3

## LOUISIANA STATE CRUDE OIL AND CONDENSATE PRODUCTION
### Excluding OCS
### (Barrels)

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 37,272,676 | 257,422,976 | 40,984,897 | 335,680,553 |
| 1976 | 38,395,533 | 232,063,252 | 38,358,180 | 308,816,967 |
| 1977 | 37,227,111 | 209,144,843 | 33,804,680 | 280,176,640 |
| 1978 | 35,403,242 | 188,256,914 | 32,365,500 | 256,025,656 |
| 1979 | 32,210,052 | 165,641,777 | 29,359,992 | 227,211,821 |
| 1980 | 32,226,703 | 151,383,359 | 27,591,943 | 211,202,005 |
| 1981 | 35,108,058 | 138,466,404 | 26,273,437 | 199,847,899 |
| 1982 | 35,606,463 | 128,818,906 | 24,940,981 | 189,366,350 |
| 1983 | 33,430,581 | 121,375,615 | 24,802,772 | 179,608,968 |
| 1984 | 32,730,382 | 127,476,082 | 27,036,480 | 187,242,944 |
| 1985 | 32,104,784 | 126,883,275 | 26,013,271 | 185,001,330 |
| 1986 | 29,551,497 | 124,563,098 | 26,796,139 | 180,910,734 |
| 1987 | 27,548,782 | 121,071,330 | 25,184,078 | 173,804,190 |
| 1988 | 26,676,734 | 115,075,497 | 24,493,279 | 166,245,510 |
| 1989 | 25,168,802 | 104,722,094 | 22,704,934 | 152,595,830 |
| 1990 | 25,802,526 | 99,620,106 | 22,829,541 | 148,252,173 |
| 1991 | 26,782,982 | 96,272,416 | 24,215,860 | 147,271,258 |
| 1992 | 25,742,391 | 93,841,676 | 23,490,830 | 143,074,897 |
| 1993 | 23,807,713 | 90,991,834 | 23,328,586 | 138,128,133 |
| January | 1,893,365 | 7,219,875 | 1,862,181 | 10,975,421 |
| February | 1,606,909 | 6,547,854 | 1,703,380 | 9,858,143 |
| March | 1,853,881 | 7,234,517 | 1,898,963 | 10,987,361 |
| April | 1,720,857 | 6,848,795 | 1,934,553 | 10,504,205 |
| May | 1,816,053[R] | 6,969,897[R] | 1,995,982[R] | 10,781,932[R] |
| June | 1,739,623[R] | 6,817,040[R] | 1,862,402[R] | 10,419,065[R] |
| July | 1,758,328[R] | 6,930,952[R] | 1,888,522[R] | 10,577,802[R] |
| August | 1,686,604[R] | 7,075,631[R] | 1,848,107[R] | 10,610,342[R] |
| September | 1,677,002[R] | 6,697,211[R] | 1,769,147[R] | 10,143,360[R] |
| October | 1,717,824[R] | 6,916,821[R] | 2,194,786[R] | 10,829,431[R] |
| November | 1,742,522[R] | 6,978,385[R] | 1,913,887[R] | 10,634,794[R] |
| December | 1,783,020[R] | 7,176,351[R] | 1,892,559[R] | 10,851,930[R] |
| **1994 Total** | **20,995,988[R]** | **83,413,329[R]** | **22,764,469[R]** | **127,173,786[R]** |
| January | 1,785,568 | 6,822,079 | 1,994,779 | 10,602,426 |
| February | 1,600,725 | 6,382,359 | 1,693,871 | 9,676,955 |
| March | 1,974,004 | 6,855,520 | 1,900,960 | 10,730,484 |
| April | 1,927,878 | 6,698,718 | 1,850,719 | 10,477,315 |
| May | 1,866,725 | 7,239,832 | 1,967,068 | 11,073,625 |
| June | 1,665,314 | 7,301,458 | 1,977,988 | 10,944,760 |
| July | 1,685,960 | 7,391,199 | 2,043,247 | 11,120,406 |
| August | 1,699,238 | 7,498,490 | 2,035,504 | 11,233,232 |
| September | 1,659,870 | 7,046,161 | 2,098,299 | 10,804,330 |
| October | 1,877,165 | 7,411,774 | 2,081,016 | 11,369,955 |
| November | 1,832,213 | 7,353,196 | 1,971,634 | 11,157,043 |
| December | 1,725,627[E] | 7,278,713[E] | 2,019,115[E] | 11,023,454[E] |
| **1995 Total** | **21,300,287[E]** | **85,279,499[E]** | **23,634,200[E]** | **130,213,985[E]** |

[R]Revised

[E]Estimated

TABLE 4

## LOUISIANA TOTAL CRUDE OIL AND CONDENSATE PRODUCTION
### Including OCS
### (Barrels)

| DATE | ONSHORE | OFFSHORE STATE | OFFSHORE OCS[12] | TOTAL |
|---|---|---|---|---|
| 1975 | 294,695,652 | 40,984,897 | 313,592,559 | 649,273,108 |
| 1976 | 270,458,786 | 38,358,180 | 301,887,002 | 610,703,968 |
| 1977 | 246,371,954 | 33,804,680 | 290,771,605 | 570,948,239 |
| 1978 | 223,660,156 | 32,365,500 | 278,071,535 | 534,097,191 |
| 1979 | 197,851,829 | 29,359,992 | 271,008,916 | 498,220,737 |
| 1980 | 183,610,062 | 27,591,943 | 256,688,082 | 467,890,087 |
| 1981 | 173,574,462 | 26,273,437 | 255,875,717 | 455,723,616 |
| 1982 | 164,425,369 | 24,940,981 | 275,513,489 | 464,879,839 |
| 1983 | 154,806,196 | 24,802,772 | 298,093,559 | 477,702,527 |
| 1984 | 160,206,464 | 27,036,480 | 318,024,622 | 505,267,566 |
| 1985 | 158,988,059 | 26,013,271 | 338,901,863 | 523,903,193 |
| 1986 | 154,114,595 | 26,796,139 | 340,152,276 | 521,063,010 |
| 1987 | 148,620,112 | 25,184,078 | 307,950,881 | 481,755,071 |
| 1988 | 141,752,231 | 24,493,279 | 261,936,530 | 428,182,040 |
| 1989 | 129,890,896 | 22,704,934 | 246,207,653 | 398,803,483 |
| 1990 | 125,422,632 | 22,829,541 | 264,670,535 | 412,922,708 |
| 1991 | 123,055,398 | 24,215,860 | 262,647,733 | 409,918,991 |
| 1992 | 119,584,067 | 23,490,830 | 288,918,208 | 431,993,105 |
| 1993 | 114,799,547 | 23,328,586 | 293,443,881 | 431,572,014 |
| January | 9,113,240 | 1,862,181 | 24,037,847[R] | 35,013,268[R] |
| February | 8,154,763 | 1,703,380 | 22,235,390[R] | 32,093,533[R] |
| March | 9,088,398 | 1,898,963 | 24,265,897[R] | 35,253,258[R] |
| April | 8,569,652 | 1,934,553 | 23,589,379[R] | 34,093,584[R] |
| May | 8,785,950[R] | 1,995,982[R] | 24,201,013[R] | 34,982,945[R] |
| June | 8,556,663[R] | 1,862,402[R] | 23,761,133[R] | 34,180,198[R] |
| July | 8,689,280[R] | 1,888,522[R] | 24,829,821[R] | 35,407,623[R] |
| August | 8,762,235[R] | 1,848,107[R] | 24,868,943[R] | 35,479,285[R] |
| September | 8,374,213[R] | 1,769,147[R] | 25,044,513[R] | 35,187,873[R] |
| October | 8,634,645[R] | 2,194,786[R] | 25,468,171[R] | 36,297,602[R] |
| November | 8,720,907[R] | 1,913,887[R] | 24,242,997[R] | 34,877,791[R] |
| December | 8,959,371[R] | 1,892,559[R] | 26,532,088[R] | 37,384,018[R] |
| **1994 Total** | **104,409,317[R]** | **22,764,469[R]** | **293,077,191[R]** | **420,250,977[R]** |
| January | 8,607,647 | 1,994,779 | 25,487,398[E] | 36,089,824[E] |
| February | 7,983,084 | 1,693,871 | 23,446,013[E] | 33,122,968[E] |
| March | 8,829,524 | 1,900,960 | 25,338,736[E] | 36,069,220[E] |
| April | 8,626,596 | 1,850,719 | 24,834,735[E] | 35,312,050[E] |
| May | 9,106,557 | 1,967,068 | 27,013,904[E] | 38,087,529[E] |
| June | 8,966,772 | 1,977,988 | 26,045,787[E] | 36,990,547[E] |
| July | 9,077,159 | 2,043,247 | 27,129,933[E] | 38,250,339[E] |
| August | 9,197,728 | 2,035,504 | 24,182,978[E] | 35,416,210[E] |
| September | 8,706,031 | 2,098,299 | 26,075,701[E] | 36,880,031[E] |
| October | 9,288,939 | 2,081,016 | 20,880,685[E] | 32,250,640[E] |
| November | 9,185,409 | 1,971,634 | 26,232,522[E] | 37,389,565[E] |
| December | 9,004,340[E] | 2,019,115[E] | 27,182,509[E] | 38,205,963[E] |
| **1995 Total** | **106,579,786[E]** | **23,634,200[E]** | **303,850,902[E]** | **434,064,887[E]** |

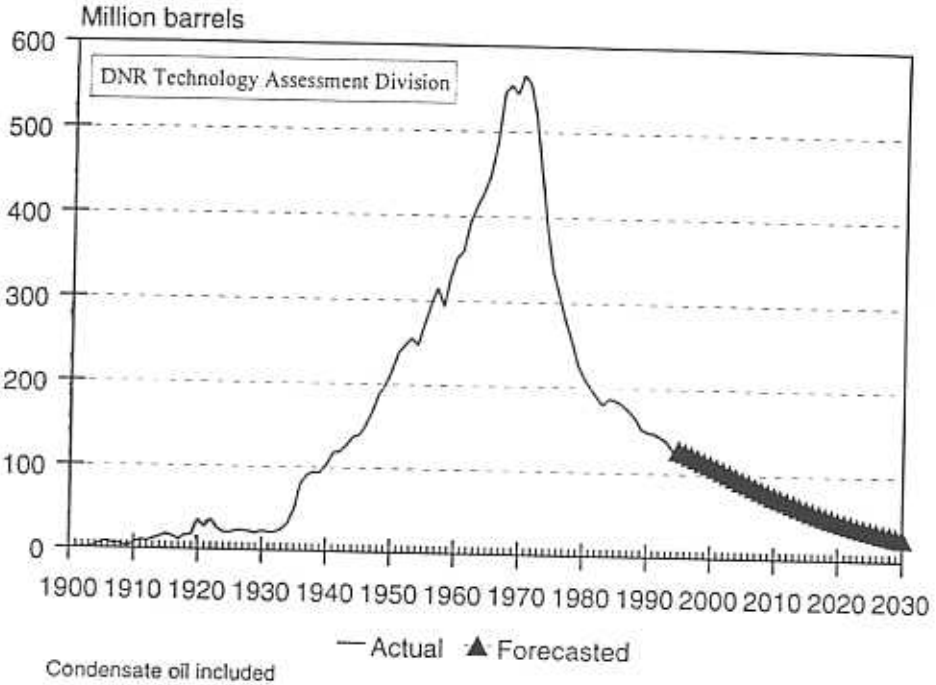
[R]Revised

[E]Estimated

FIGURE 1

## LOUISINA STATE OIL PRODUCTION

ACTUAL AND FORECASTED THROUGH YEAR 2030

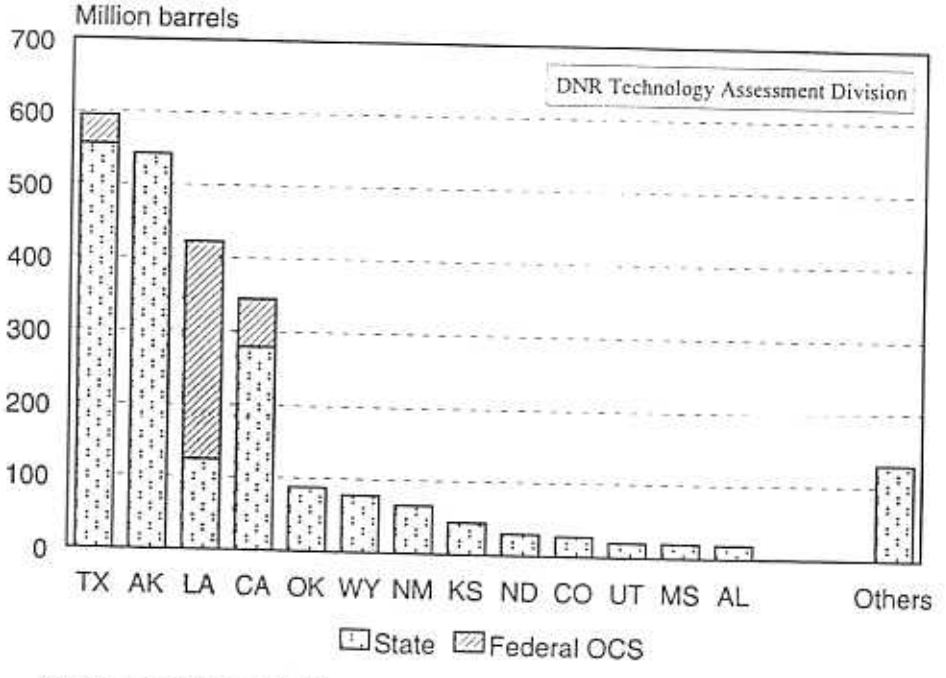



Condensate oil included
Federal OCS excluded

FIGURE 2

## 1995 UNITED STATES OIL PRODUCTION

BY STATE




Source: U.S. Department of Energy

TABLE 5

## UNITED STATES OCS CRUDE OIL AND CONDENSATE PRODUCTION[12]
(Barrels)

| YEAR | LOUISIANA | TEXAS | CALIFORNIA | TOTAL |
|---|---|---|---|---|
| PRIOR | 1,150,697 | 0 | 0 | 1,150,697 |
| 1954 | 3,342,230 | 0 | 0 | 3,342,230 |
| 1955 | 6,703,528 | 1,956 | 0 | 6,705,484 |
| 1956 | 11,001,248 | 13,284 | 0 | 11,014,532 |
| 1957 | 16,064,395 | 5,792 | 0 | 16,070,187 |
| 1958 | 24,769,037 | 0 | 0 | 24,769,037 |
| 1959 | 35,697,264 | 257 | 0 | 35,697,521 |
| 1960 | 49,665,891 | 98 | 0 | 49,665,989 |
| 1961 | 64,330,078 | 0 | 0 | 64,330,078 |
| 1962 | 89,733,099 | 3,483 | 0 | 89,736,582 |
| 1963 | 104,526,436 | 52,804 | 0 | 104,579,240 |
| 1964 | 122,495,173 | 4,953 | 0 | 122,500,126 |
| 1965 | 144,964,868 | 3,747 | 0 | 144,968,615 |
| 1966 | 187,831,472 | 882,598 | 0 | 188,714,070 |
| 1967 | 218,995,828 | 2,865,786 | 0 | 221,861,614 |
| 1968 | 263,825,359 | 3,110,642 | 2,059,889 | 268,995,890 |
| 1969 | 300,159,292 | 2,759,851 | 9,940,844 | 312,859,987 |
| 1970 | 333,411,492 | 2,247,048 | 24,987,628 | 360,646,168 |
| 1971 | 385,760,351 | 1,685,047 | 31,103,548 | 418,548,946 |
| 1972 | 387,590,662 | 1,733,018 | 22,562,213 | 411,885,893 |
| 1973 | 374,196,856 | 1,617,829 | 18,915,314 | 394,729,999 |
| 1974 | 342,435,496 | 1,381,825 | 16,776,744 | 360,594,065 |
| 1975 | 313,592,559 | 1,340,136 | 15,304,757 | 330,237,452 |
| 1976 | 301,887,002 | 1,054,554 | 13,978,553 | 316,920,109 |
| 1977 | 290,771,605 | 909,037 | 12,267,598 | 303,948,240 |
| 1978 | 278,071,535 | 2,107,599 | 12,085,908 | 292,265,042 |
| 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 | 26,439,927 | 33,312,719 | 324,423,181 |
| 1991 | 262,647,733 | 23,899,428 | 29,146,090 | 315,693,251 |
| 1992 | 288,918,208 | 23,582,162 | 41,222,801 | 353,726,380 |
| 1993 | 293,443,881 | 19,151,111 | 50,078,144 | 362,675,766 |
| 1994 | 293,077,191 | 19,121,540 | 57,229,464 | 369,474,307 |

See footnotes in Appendix A.

FIGURE 3

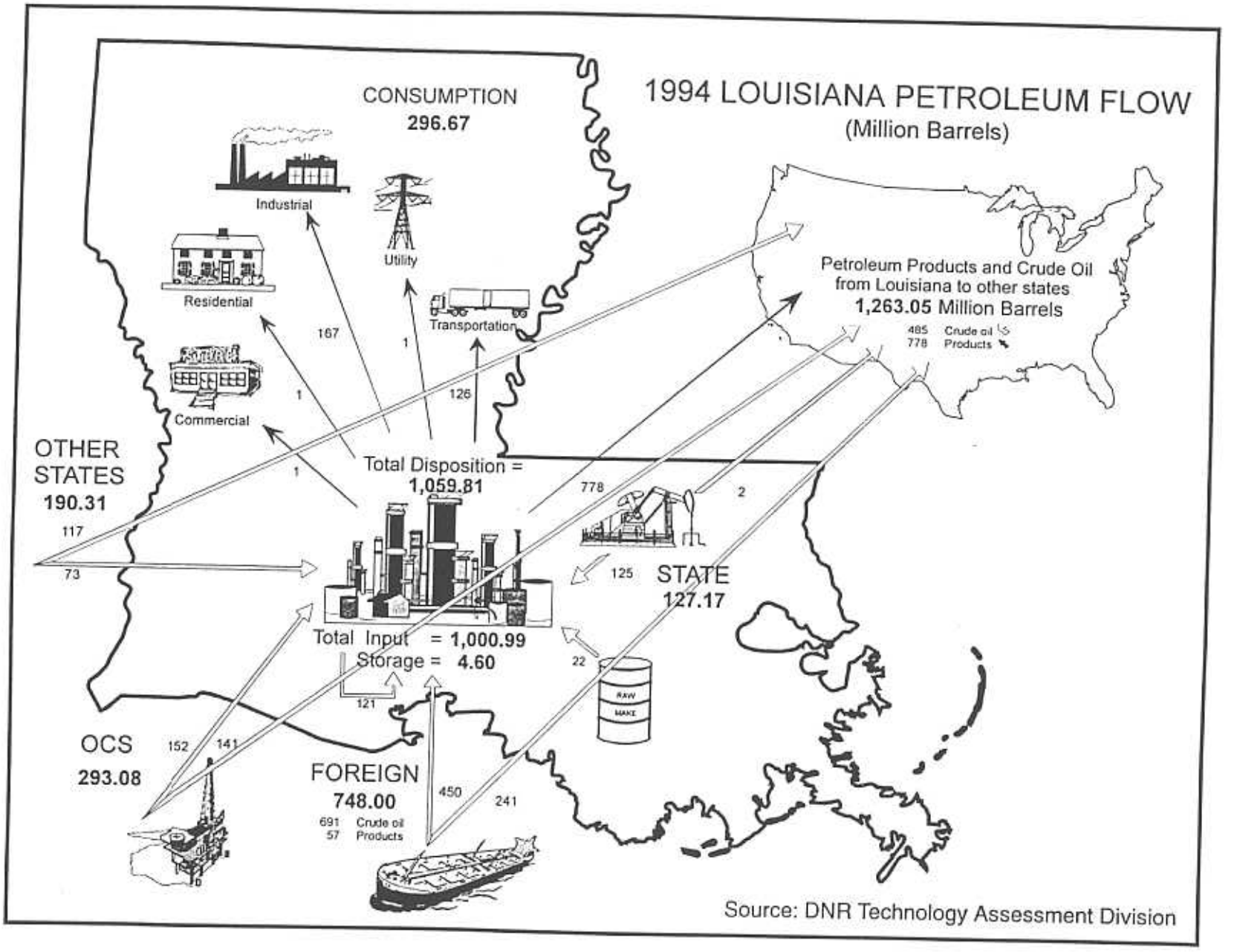

1994 LOUISIANA PETROLEUM FLOW
(Million Barrels)
CONSUMPTION
296.67
Industrial
Utility
Residential
Transportation
Commercial
167
1
1
126
1
OTHER STATES
190.31
117
73
Total Disposition =
1,059.81
778
2
125
STATE
127.17
Total Input = 1,000.99
Storage = 4.60
121
22
RAW
MAKE
OCS
293.08
152
141
FOREIGN
748.00
691 Crude oil
57 Products
450
241
Petroleum Products and Crude Oil
from Louisiana to other states
1,263.05 Million Barrels
485 Crude oil
778 Products
Source: DNR Technology Assessment Division

TABLE 6

## UNITED STATES CRUDE OIL AND CONDENSATE PRODUCTION AND IMPORTS
(Thousand Barrels)

| DATE | ALL OCS[12] | DOMESTIC PRODUCTION*[7] | IMPORTS OTHER[7] | IMPORTS SPR[7] |
|---|---|---|---|---|
| 1975 | 330,237 | 3,056,875 | 1,498,325 | N/A |
| 1976 | 316,920 | 2,976,312 | 1,935,042 | N/A |
| 1977 | 303,948 | 3,009,425 | 2,406,810 | 7,665 |
| 1978 | 292,265 | 3,178,055 | 2,261,175 | 59,130 |
| 1979 | 285,566 | 3,121,480 | 2,354,980 | 24,455 |
| 1980 | 277,389 | 3,146,502 | 1,910,154 | 16,104 |
| 1981 | 289,765 | 3,128,780 | 1,511,465 | 93,440 |
| 1982 | 321,211 | 3,156,885 | 1,212,895 | 60,225 |
| 1983 | 348,331 | 3,171,120 | 1,130,040 | 85,410 |
| 1984 | 370,239 | 3,249,714 | 1,181,814 | 72,102 |
| 1985 | 389,324 | 3,274,415 | 1,125,295 | 43,070 |
| 1986 | 389,216 | 3,168,200 | 1,507,450 | 17,520 |
| 1987 | 366,142 | 3,047,385 | 1,679,365 | 26,645 |
| 1988 | 320,667 | 2,979,240 | 1,850,130 | 18,666 |
| 1989 | 305,168 | 2,778,745 | 2,112,255 | 20,440 |
| 1990 | 324,423 | 2,684,575 | 2,141,455 | 9,855 |
| 1991 | 315,693 | 2,707,205[R] | 2,110,430[R] | 0 |
| 1992 | 353,726 | 2,617,998[R] | 2,212,470[R] | 3,660 |
| 1993 | 362,676[R] | 2,495,933 | 2,451,415 | 5,367 |
| January | 30,021[R] | 210,092 | 184,792 | 0 |
| February | 27,762[R] | 188,874 | 176,774 | 0 |
| March | 29,875[R] | 208,288 | 194,613 | 3,063 |
| April | 28,803[R] | 199,029 | 207,188 | 923 |
| May | 30,130[R] | 206,408 | 222,043 | 0 |
| June | 29,731[R] | 197,009 | 220,230 | 499 |
| July | 31,794[R] | 202,352 | 243,878 | 0 |
| August | 31,697[R] | 202,947 | 233,366 | 0 |
| September | 31,836[R] | 196,516 | 231,672 | 0 |
| October | 32,662[R] | 203,931 | 216,792 | 0 |
| November | 31,261[R] | 196,262 | 205,899 | 0 |
| December | 33,902[R] | 207,273 | 222,973 | 0 |
| **1994 Total** | **369,474[R]** | **2,418,981** | **2,560,220** | **4,485** |
| January | 34,043 | 204,489 | 201,581 | 0 |
| February | 31,422 | 187,687 | 183,815 | 0 |
| March | 34,134 | 204,790 | 229,671 | 0 |
| April | 33,042 | 196,823 | 212,177 | 0 |
| May | 35,650 | 203,725 | 227,969 | 0 |
| June | 34,822 | 196,199 | 238,695 | 0 |
| July | 36,007 | 199,930 | 225,227 | 0 |
| August | 33,008 | 200,334 | 229,858 | 0 |
| September | 34,524 | 191,387 | 241,234 | 0 |
| October | 29,177 | 199,303 | 219,316 | 0 |
| November | 34,995 | 196,622 | 218,077 | 0 |
| December | 36,249 | 202,115 | 215,069 | 0 |
| **1995 Total** | **407,073** | **2,383,404** | **2,642,689** | **0** |

*Includes OCS

[R]Revised

See footnotes in Appendix A.

TABLE 7

## 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)

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 301,887,189 | 2,608,074,710 | 461,823,702 | 3,371,785,579 |
| 1976 | 305,008,371 | 2,358,362,638 | 469,995,985 | 3,133,366,927 |
| 1977 | 299,677,274 | 2,220,671,254 | 450,666,115 | 2,971,014,560 |
| 1978 | 281,294,066 | 2,060,987,405 | 460,027,607 | 2,802,309,078 |
| 1979 | 318,678,322 | 1,956,099,964 | 451,195,720 | 2,725,974,006 |
| 1980 | 330,884,663 | 1,767,558,650 | 386,259,849 | 2,484,703,162 |
| 1981 | 365,532,522 | 1,619,182,208 | 352,913,474 | 2,337,628,204 |
| 1982 | 322,562,084 | 1,401,264,770 | 336,247,316 | 2,060,074,170 |
| 1983 | 309,779,141 | 1,197,313,110 | 295,223,244 | 1,802,315,495 |
| 1984 | 330,928,158 | 1,265,569,410 | 288,926,246 | 1,885,423,814 |
| 1985 | 300,663,731 | 1,158,015,879 | 224,447,933 | 1,683,127,543 |
| 1986 | 313,753,687 | 1,125,245,664 | 216,313,931 | 1,655,313,282 |
| 1987 | 307,115,420 | 1,055,195,652 | 201,763,178 | 1,564,074,250 |
| 1988 | 325,963,115 | 1,067,940,357 | 193,310,392 | 1,587,213,864 |
| 1989 | 338,950,374 | 1,044,297,352 | 182,501,789 | 1,565,749,515 |
| 1990 | 348,400,863 | 1,019,951,674 | 158,125,352 | 1,526,477,889 |
| 1991 | 347,794,923 | 1,028,714,344 | 130,244,999 | 1,506,754,266 |
| 1992 | 340,962,480 | 986,842,710 | 123,004,591 | 1,450,809,781 |
| 1993 | 333,365,443 | 970,558,217 | 130,644,180 | 1,434,567,840 |
| January | 28,078,804 | 79,124,566 | 10,682,005 | 117,885,375 |
| February | 25,282,043 | 72,307,030 | 10,196,629 | 107,785,702 |
| March | 28,790,526 | 78,626,274 | 11,446,601 | 118,863,401 |
| April | 27,528,192 | 74,165,514 | 11,223,573 | 112,917,279 |
| May | 28,661,335[R] | 77,871,371[R] | 11,363,977[R] | 117,896,683[R] |
| June | 27,472,482[R] | 76,468,876[R] | 11,261,674[R] | 115,203,032[R] |
| July | 28,498,094[R] | 79,959,662[R] | 11,733,329[R] | 120,191,085[R] |
| August | 28,393,228[R] | 79,761,304[R] | 11,272,903[R] | 119,427,435[R] |
| September | 27,308,804[R] | 75,984,769[R] | 10,836,137[R] | 114,129,710[R] |
| October | 27,814,724[R] | 77,415,887[R] | 11,482,784[R] | 116,713,395[R] |
| November | 27,846,361[R] | 75,489,322[R] | 10,870,053[R] | 114,205,736[R] |
| December | 28,730,562[R] | 77,761,698[R] | 11,671,894[R] | 118,164,154[R] |
| **1994 Total** | **334,405,155[R]** | **924,936,273[R]** | **134,041,559[R]** | **1,393,382,987[R]** |
| January | 28,993,462 | 76,605,558 | 11,363,588 | 116,962,608 |
| February | 25,566,805 | 71,014,068 | 10,086,562 | 106,667,435 |
| March | 29,106,187 | 76,532,501 | 11,767,294 | 117,405,982 |
| April | 28,373,600 | 77,385,360 | 10,806,330 | 116,565,290 |
| May | 29,594,436 | 78,948,984 | 11,450,939 | 119,994,359 |
| June | 28,587,134 | 75,787,298 | 10,499,541 | 114,873,973 |
| July | 29,626,114 | 77,404,257 | 11,979,689 | 119,010,060 |
| August | 29,551,516 | 78,931,275 | 12,577,958 | 121,060,749 |
| September | 28,837,168 | 75,974,265 | 12,362,933 | 117,174,366 |
| October | 30,072,614 | 76,866,333 | 13,388,664 | 120,327,611 |
| November | 29,037,722 | 75,474,694 | 12,741,432 | 117,253,848 |
| December | 29,240,027[E] | 76,690,165[E] | 12,550,135[E] | 118,480,327[E] |
| **1995 Total** | **346,586,785[E]** | **917,614,758[E]** | **141,575,065[E]** | **1,405,776,608[E]** |

[R]Revised

[E]Estimated

TABLE 8

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

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 39,365,666 | 297,273,123 | 47,659,685 | 384,298,468 |
| 1976 | 42,727,221 | 273,525,032 | 42,938,947 | 359,191,184 |
| 1977 | 48,518,052 | 246,986,172 | 35,430,093 | 330,934,328 |
| 1978 | 51,844,748 | 218,284,388 | 29,701,044 | 299,830,180 |
| 1979 | 40,787,977 | 183,313,733 | 25,769,504 | 249,871,214 |
| 1980 | 38,744,387 | 164,256,351 | 22,524,274 | 225,525,012 |
| 1981 | 54,461,955 | 145,002,268 | 21,922,829 | 221,387,052 |
| 1982 | 55,863,596 | 134,358,406 | 23,337,433 | 213,559,435 |
| 1983 | 54,943,524 | 124,511,997 | 26,206,906 | 205,662,427 |
| 1984 | 55,963,897 | 125,127,837 | 29,081,452 | 210,173,186 |
| 1985 | 55,735,829 | 112,306,864 | 29,635,701 | 197,678,394 |
| 1986 | 55,221,898 | 110,422,742 | 33,507,683 | 199,152,323 |
| 1987 | 53,856,458 | 111,715,474 | 29,145,755 | 194,717,687 |
| 1988 | 51,713,587 | 111,548,808 | 22,788,966 | 186,051,361 |
| 1989 | 43,151,092 | 95,472,705 | 22,389,901 | 161,013,698 |
| 1990 | 34,770,189 | 932,83902 | 20,537,696 | 148,591,787 |
| 1991 | 36,210,214 | 935,99,557 | 20,340,594 | 150,150,365 |
| 1992 | 29,465,495 | 133,236,937 | 23,609,696 | 186,312,128 |
| 1993 | 20,583,938 | 134,533,415 | 23,284,224 | 178,401,577 |
| January | 1,640,000 | 10,575,293 | 1,904,542 | 14,119,835 |
| February | 1,375,435 | 9,523,063 | 1,712,964 | 12,611,462 |
| March | 1,634,638 | 9,917,908 | 1,772,189 | 13,324,735 |
| April | 1,941,921 | 10,929,617 | 1,826,881 | 14,698,419 |
| May | 2,130,897[R] | 10,876,963[R] | 1,880,140[R] | 14,888,000 |
| June | 1,891,837[R] | 11,081,312[R] | 2,002,825[R] | 14,975,974 |
| July | 2,537,666[R] | 8,638,695[R] | 1,877,632[R] | 13,053,993 |
| August | 1,429,205[R] | 8,838,072[R] | 1,819,991[R] | 12,087,268 |
| September | 1,552,868[R] | 7,770,816[R] | 1,934,020[R] | 11,257,704 |
| October | 1,777,008[R] | 8,024,581[R] | 2,084,201[R] | 11,885,790 |
| November | 1,689,076[R] | 8,645,404[R] | 2,035,306[R] | 12,369,786 |
| December | 1,892,794[R] | 8,489,821[R] | 2,215,071[R] | 12,597,686 |
| **1994 Total** | **21,493,345[R]** | **113,311,545[R]** | **23,065,762[R]** | **157,870,652** |
| January | 1,960,400 | 8,209,238 | 2,129,303 | 12,298,941 |
| February | 1,360,829 | 7,517,855 | 1,874,292 | 10,752,976 |
| March | 1,768,348 | 7,981,552 | 1,994,750 | 11,744,650 |
| April | 1,386,010 | 8,371,793 | 1,977,890 | 11,735,693 |
| May | 1,601,318 | 8,886,128 | 1,996,365 | 12,483,811 |
| June | 1,567,745 | 8,283,367 | 2,129,120 | 11,980,232 |
| July | 1,575,954 | 8,842,728 | 2,140,912 | 12,559,594 |
| August | 1,498,272 | 8,684,325 | 2,132,787 | 12,315,384 |
| September | 1,524,560 | 8,553,363 | 2,122,325 | 12,200,248 |
| October | 1,504,130 | 8,112,326 | 1,606,650 | 11,223,106 |
| November | 1,467,749 | 8,094,739 | 1,718,905 | 11,281,393 |
| **December** | **1,512,133[E]** | **8,451,496[E]** | **1,940,316[E]** | **11,903,945[E]** |

[R]Revised

[E]Estimated

TABLE 9

## 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)*

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 341,252,856 | 2,905,347,833 | 509,483,387 | 3,756,084,047 |
| 1976 | 347,735,592 | 2,631,887,670 | 512,934,932 | 3,492,558,111 |
| 1977 | 348,195,326 | 2,467,657,426 | 486,096,208 | 3,301,948,888 |
| 1978 | 333,138,814 | 2,279,271,793 | 489,728,651 | 3,102,139,258 |
| 1979 | 359,466,299 | 2,139,413,697 | 476,965,224 | 2,975,845,220 |
| 1980 | 369,629,050 | 1,931,815,001 | 408,784,123 | 2,710,228,174 |
| 1981 | 419,994,477 | 1,764,184,476 | 374,836,303 | 2,559,015,256 |
| 1982 | 378,425,680 | 1,535,623,176 | 359,584,749 | 2,273,633,605 |
| 1983 | 364,722,665 | 1,321,825,107 | 321,430,150 | 2,007,977,922 |
| 1984 | 386,892,055 | 1,390,697,247 | 318,007,698 | 2,095,597,000 |
| 1985 | 356,399,560 | 1,270,322,743 | 254,083,634 | 1,880,805,937 |
| 1986 | 368,975,585 | 1,235,668,406 | 249,821,614 | 1,854,465,605 |
| 1987 | 360,971,878 | 1,166,911,126 | 230,908,933 | 1,758,791,937 |
| 1988 | 377,676,702 | 1,179,489,165 | 216,099,358 | 1,773,265,225 |
| 1989 | 382,101,466 | 1,139,770,057 | 204,891,690 | 1,726,763,213 |
| 1990 | 383,171,052 | 1,113,235,576 | 178,663,048 | 1,675,069,676 |
| 1991 | 384,005,137 | 1,122,313,901 | 150,585,593 | 1,656,904,631 |
| 1992 | 370,427,975 | 1,120,079,647 | 146,614,287 | 1,637,121,909 |
| 1993 | 353,949,381 | 1,105,091,632 | 153,928,404 | 1,612,969,417 |
| January | 29,718,804 | 89,699,859 | 12,586,547 | 132,005,210 |
| February | 26,657,478 | 81,830,093 | 11,909,593 | 120,397,164 |
| March | 30,425,164 | 88,544,182 | 13,218,790 | 132,188,136 |
| April | 29,470,113 | 85,095,131 | 13,050,454 | 127,615,698 |
| May | 30,792,232[R] | 88,748,334[R] | 13,244,117[R] | 132,784,683[R] |
| June | 29,364,319[R] | 87,550,188[R] | 13,264,499[R] | 130,179,006[R] |
| July | 31,035,760[R] | 88,598,357[R] | 13,610,961[R] | 133,245,078[R] |
| August | 29,822,433[R] | 88,599,376[R] | 13,092,894[R] | 131,514,703[R] |
| September | 28,861,672[R] | 83,755,585[R] | 12,770,157[R] | 125,387,414[R] |
| October | 29,591,732[R] | 85,440,468[R] | 13,566,985[R] | 128,599,185[R] |
| November | 29,535,437[R] | 84,134,726[R] | 12,905,359[R] | 126,575,522[R] |
| December | 30,623,356[R] | 86,251,519[R] | 13,886,965[R] | 130,761,840[R] |
| **1994 Total** | **355,898,500[R]** | **1,038,247,818[R]** | **157,107,321[R]** | **1,551,253,639[R]** |
| January | 30,953,862 | 84,814,796 | 13,492,891 | 129,261,549 |
| February | 26,927,634 | 78,531,923 | 11,960,854 | 117,420,411 |
| March | 30,874,535 | 84,514,053 | 13,762,044 | 129,150,632 |
| April | 29,759,610 | 85,757,153 | 12,784,220 | 128,300,983 |
| May | 31,195,754 | 87,835,112 | 13,447,304 | 132,478,170 |
| June | 30,154,879 | 84,070,665 | 12,628,661 | 126,854,205 |
| July | 31,202,068 | 86,246,985 | 14,120,601 | 131,569,654 |
| August | 31,049,788 | 87,615,600 | 14,710,745 | 133,376,133 |
| September | 30,361,728 | 84,527,628 | 14,485,258 | 129,374,614 |
| October | 31,576,744 | 84,978,659 | 14,995,314 | 131,550,717 |
| November | 30,505,471 | 83,569,433 | 14,460,337 | 128,535,241 |
| December | 30,752,160[E] | 85,141,661[E] | 14,490,451[E] | 130,384,272[E] |
| **1995 Total** | **365,314,233[E]** | **1,017,603,668[E]** | **165,338,680[E]** | **1,548,256,581[E]** |

*See Appendix D-1 for corresponding volumes at 14.73 psia.

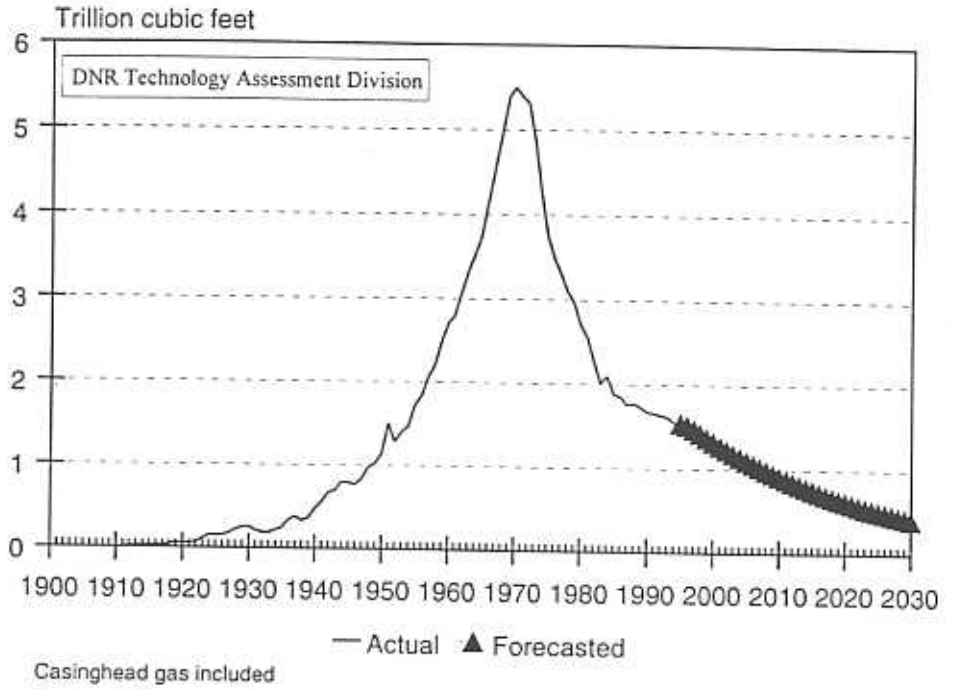
[R]Revised

[E]Estimated

FIGURE 4

## LOUISIANA STATE GAS PRODUCTION

ACTUAL AND FORECASTED THROUGH YEAR 2030

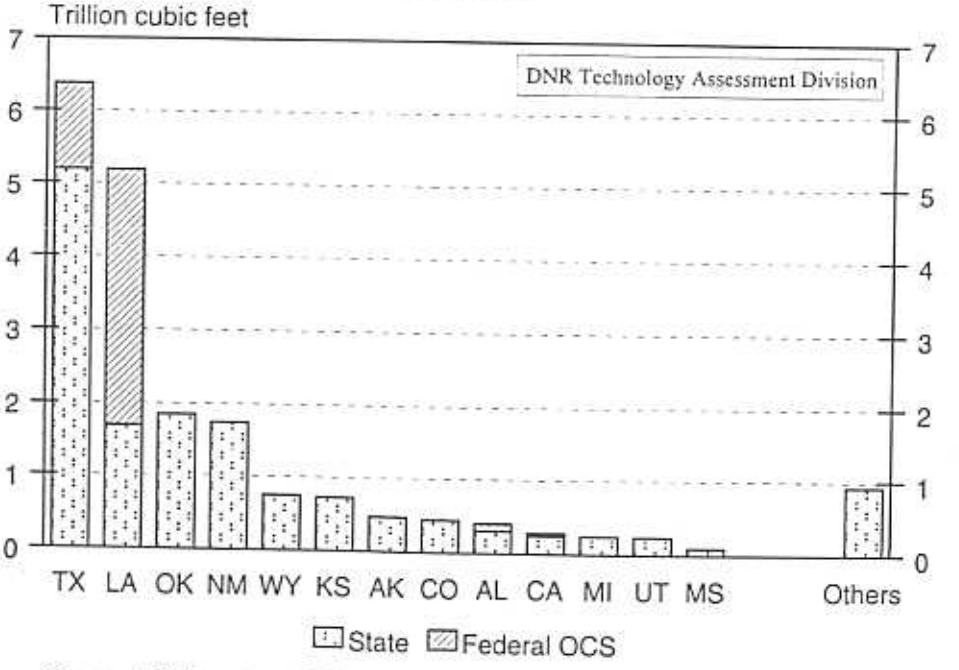



Casinghead gas included
Federal OCS excluded

FIGURE 5

## 1995 UNITED STATES MARKETED GAS PRODUCTION

BY STATE




Source: U.S. Department of Energy
Federal OCS production is estimated.

TABLE 10

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

| DATE | ONSHORE | STATE | OFFSHORE OCS[12] | TOTAL |
|---|---|---|---|---|
| 1975 | 3,246,600,688 | 509,483,387 | 3,266,745,456 | 7,022,829,531 |
| 1976 | 2,979,623,262 | 512,934,932 | 3,431,149,749 | 6,923,707,943 |
| 1977 | 2,815,852,752 | 486,096,208 | 3,575,898,616 | 6,877,847,576 |
| 1978 | 2,612,410,607 | 489,728,651 | 4,068,255,571 | 7,170,394,829 |
| 1979 | 2,498,879,996 | 476,965,224 | 4,076,873,552 | 7,052,718,772 |
| 1980 | 2,301,444,051 | 408,784,123 | 3,934,902,550 | 6,645,130,724 |
| 1981 | 2,184,178,953 | 374,836,303 | 4,025,867,929 | 6,584,883,185 |
| 1982 | 1,914,048,856 | 359,584,749 | 3,729,057,653 | 6,002,691,258 |
| 1983 | 1,686,547,772 | 321,430,150 | 3,111,576,348 | 5,119,554,270 |
| 1984 | 1,777,589,302 | 318,007,698 | 3,508,475,799 | 5,604,072,799 |
| 1985 | 1,626,722,303 | 254,083,634 | 3,055,687,773 | 4,936,493,710 |
| 1986 | 1,604,643,991 | 249,821,614 | 2,870,347,386 | 4,724,812,991 |
| 1987 | 1,527,883,004 | 230,908,933 | 3,117,669,167 | 4,876,461,104 |
| 1988 | 1,557,165,867 | 216,099,358 | 3,036,077,646 | 4,809,342,871 |
| 1989 | 1,521,871,523 | 204,891,690 | 2,947,545,132 | 4,674,308,345 |
| 1990 | 1,496,406,628 | 178,663,048 | 3,633,554,307 | 5,308,623,983 |
| 1991 | 1,506,319,038 | 150,585,593 | 3,225,373,562 | 4,882,278,193 |
| 1992 | 1,490,507,622 | 146,614,287 | 3,272,561,370 | 4,909,683,279 |
| 1993 | 1,459,041,013 | 153,928,404 | 3,320,312,261 | 4,933,281,678 |
| January | 119,418,663 | 12,586,547 | 334,303,584[R] | 466,308,794[R] |
| February | 108,487,571 | 11,909,593 | 304,853,768[R] | 425,250,932[R] |
| March | 118,969,346 | 13,218,790 | 295,123,222[R] | 427,311,358[R] |
| April | 114,565,244 | 13,050,454 | 297,735,026[R] | 425,350,724[R] |
| May | 119,540,566[R] | 13,244,117[R] | 293,773,473[R] | 426,558,156[R] |
| June | 116,914,507[R] | 13,264,499[R] | 279,869,035[R] | 410,048,041[R] |
| July | 119,634,117[R] | 13,610,961[R] | 271,833,618[R] | 405,078,696[R] |
| August | 118,421,809[R] | 13,092,894[R] | 272,576,539[R] | 404,091,242[R] |
| September | 112,617,257[R] | 12,770,157[R] | 246,618,781[R] | 372,006,195[R] |
| October | 115,032,200[R] | 13,566,985[R] | 267,359,196[R] | 395,958,381[R] |
| November | 113,670,163[R] | 12,905,359[R] | 269,330,334[R] | 395,905,856[R] |
| December | 116,874,875[R] | 13,886,965[R] | 290,460,488[R] | 421,222,328[R] |
| **1994 Total** | **1,394,146,318[R]** | **157,107,321[R]** | **3,423,837,064[R]** | **4,975,090,703[R]** |
| January | 115,768,658 | 13,492,891 | 315,556,995[E] | 444,818,544[E] |
| February | 105,459,557 | 11,960,854 | 258,012,861[E] | 375,433,272[E] |
| March | 115,388,588 | 13,762,044 | 304,746,993[E] | 433,897,625[E] |
| April | 115,516,763 | 12,784,220 | 300,020,429[E] | 428,321,412[E] |
| May | 119,030,866 | 13,447,304 | 306,684,006[E] | 439,162,176[E] |
| June | 114,225,544 | 12,628,661 | 290,503,788[E] | 417,357,993[E] |
| July | 117,449,053 | 14,120,601 | 313,237,673[E] | 444,807,327[E] |
| August | 118,665,388 | 14,710,745 | 282,841,835[E] | 416,217,986[E] |
| September | 114,889,356 | 14,485,258 | 282,072,872[E] | 411,447,486[E] |
| October | 116,555,403 | 14,995,314 | 263,662,906[E] | 395,213,623[E] |
| November | 114,074,904 | 14,460,337 | 284,292,221[E] | 412,827,462[E] |
| December | 115,893,821[E] | 14,490,451[E] | 308,080,460[E] | 438,464,732[E] |
| **1995 Total** | **1,382,917,901[E]** | **165,338,680[E]** | **3,509,713,039[E]** | **5,057,969,620[E]** |

NOTE: The 1995 Federal OCS production is estimated from the marketed production.
*See Appendix D-2 for corresponding volumes at 14.73 psia.
[R]Revised
[E]Estimated

See footnotes in Appendix A.

TABLE 11

## LOUISIANA NATURAL GAS AND CASINGHEAD GAS PRODUCTION
**(Billion Cubic Feet (BCF), at 15.025 psia and 60 degrees Fahrenheit)***

| | MARKETED | | | | |
|---|---|---|---|---|---|
| DATE | STATE | OCS | TOTAL[3] | EXTRACTION LOSS[3] | DRY[3] |
| 1975 | 3,355 | 3,597 | 6,951 | 186 | 6,766 |
| 1976 | 3,133 | 3,736 | 6,869 | 169 | 6,700 |
| 1977 | 2,930 | 4,143 | 7,073 | 163 | 6,910 |
| 1978 | 2,733 | 4,597 | 7,330 | 158 | 7,171 |
| 1979 | 2,632 | 4,491 | 7,124 | 162 | 6,961 |
| 1980 | 2,391 | 4,118 | 6,509 | 139 | 6,370 |
| 1981 | 2,219 | 4,428 | 6,647 | 140 | 6,507 |
| 1982 | 1,974 | 4,077 | 6,050 | 126 | 5,924 |
| 1983 | 1,722 | 3,505 | 5,227 | 122 | 5,106 |
| 1984 | 1,835 | 3,875 | 5,711 | 130 | 5,581 |
| 1985 | 1,656 | 3,259 | 4,915 | 115 | 4,800 |
| 1986 | 1,625 | 3,174 | 4,799 | 113 | 4,686 |
| 1987 | 1,544 | 3,478 | 5,022 | 122 | 4,899 |
| 1988 | 1,664 | 3,415 | 5,079 | 118 | 4,961 |
| 1989 | 1,620 | 3,359 | 4,978 | 119 | 4,859 |
| 1990 | 1,597 | 3,542 | 5,139 | 117 | 5,022 |
| 1991 | 1,544 | 3,391 | 4,936 | 127 | 4,809 |
| 1992 | 1,658 | 3,160 | 4,818 | 130 | 4,688 |
| 1993 | 1,599 | 3,294 | 4,893 | 128 | 4,765[R] |
| January | 133 | 344[R] | 477[R] | | |
| February | 124 | 313[R] | 437[R] | | |
| March | 139 | 303[R] | 443[R] | | |
| April | 117 | 306[R] | 423[R] | | |
| May | 133 | 302[R] | 435[R] | | |
| June | 131 | 288[R] | 419[R] | | |
| July | 131 | 279[R] | 410[R] | | |
| August | 133 | 280[R] | 413[R] | | |
| September | 132 | 253[R] | 386[R] | | |
| October | 122 | 275[R] | 396[R] | | |
| November | 125 | 277[R] | 402[R] | | |
| December | 129 | 299[R] | 427[R] | | |
| **1994 Total** | **1,549** | **3,519[R]** | **5,068[R]** | **126[R]** | **4,942[R]** |
| January | 122 | 324 | 446 | | |
| February | 129 | 265 | 394 | | |
| March | 118 | 313 | 431 | | |
| April | 117 | 308 | 426 | | |
| May | 130 | 315 | 445 | | |
| June | 127 | 299 | 426 | | |
| July | 115 | 322 | 437 | | |
| August | 129 | 291 | 420 | | |
| September | 130 | 290 | 420 | | |
| October | 121 | 271 | 392 | | |
| November | 113 | 292 | 405 | | |
| December | 120 | 317 | 437 | | |
| **1995 Total** | **1,471** | **3,608** | **5,079** | | |

*See Appendix D-3 for corresponding volumes at 14.73 psia.

[R]Revised

See footnotes in Appendix A.

TABLE 12

## UNITED STATES OCS GAS PRODUCTION[12]

### Natural Gas and Casinghead Gas

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

| YEAR | LOUISIANA | TEXAS | CALIFORNIA | TOTAL |
|---|---|---|---|---|
| PRIOR | 19,490,712 | 0 | 0 | 19,490,712 |
| 1954 | 55,219,200 | 0 | 0 | 55,219,200 |
| 1955 | 79,683,214 | 0 | 0 | 79,683,214 |
| 1956 | 81,265,031 | 0 | 0 | 81,265,031 |
| 1957 | 80,947,656 | 4,703 | 0 | 80,952,359 |
| 1958 | 125,185,735 | 0 | 0 | 125,185,735 |
| 1959 | 203,089,002 | 0 | 0 | 203,089,002 |
| 1960 | 267,673,709 | 0 | 0 | 267,673,709 |
| 1961 | 312,031,003 | 0 | 0 | 312,031,003 |
| 1962 | 443,079,048 | 0 | 0 | 443,079,048 |
| 1963 | 553,272,142 | 0 | 0 | 553,272,142 |
| 1964 | 609,524,401 | 0 | 0 | 609,524,401 |
| 1965 | 632,914,005 | 0 | 0 | 632,914,005 |
| 1966 | 946,433,484 | 41,233,595 | 0 | 987,667,078 |
| 1967 | 1,065,915,553 | 97,990,476 | 0 | 1,163,906,029 |
| 1968 | 1,385,715,670 | 107,752,805 | 783,984 | 1,494,252,460 |
| 1969 | 1,786,760,423 | 124,601,568 | 4,750,708 | 1,916,112,699 |
| 1970 | 2,228,516,212 | 130,683,192 | 11,989,041 | 2,371,188,444 |
| 1971 | 2,582,297,962 | 124,857,371 | 15,363,786 | 2,722,519,119 |
| 1972 | 2,824,792,196 | 144,267,198 | 9,836,582 | 2,978,895,976 |
| 1973 | 2,995,634,220 | 145,754,588 | 7,143,485 | 3,148,532,293 |
| 1974 | 3,283,413,450 | 156,838,375 | 5,464,209 | 3,445,716,035 |
| 1975 | 3,266,745,456 | 120,166,178 | 3,874,047 | 3,390,785,681 |
| 1976 | 3,431,149,749 | 90,764,667 | 3,406,969 | 3,525,321,386 |
| 1977 | 3,575,898,616 | 85,236,246 | 3,225,368 | 3,664,360,230 |
| 1978 | 4,068,255,571 | 227,305,175 | 3,404,117 | 4,298,964,864 |
| 1979 | 4,076,873,552 | 501,546,069 | 2,810,535 | 4,581,230,155 |
| 1980 | 3,934,902,550 | 612,378,333 | 3,046,020 | 4,550,326,904 |
| 1981 | 4,025,867,929 | 715,937,640 | 12,515,654 | 4,754,321,224 |
| 1982 | 3,729,057,653 | 841,173,981 | 17,402,403 | 4,587,634,037 |
| 1983 | 3,111,576,348 | 834,112,318 | 15,709,672 | 3,961,398,338 |
| 1984 | 3,508,475,799 | 913,008,621 | 27,260,940 | 4,448,745,360 |
| 1985 | 3,055,687,773 | 818,533,627 | 48,198,926 | 3,922,420,326 |
| 1986 | 2,870,347,386 | 959,161,285 | 41,850,867 | 3,871,359,539 |
| 1987 | 3,117,669,167 | 1,180,839,487 | 40,181,438 | 4,338,690,093 |
| 1988 | 3,036,077,646 | 1,155,285,485 | 33,891,880 | 4,225,255,011 |
| 1989 | 2,947,545,132 | 1,142,237,197 | 28,013,874 | 4,117,796,204 |
| 1990 | 3,633,554,307 | 1,321,607,333 | 37,775,234 | 4,992,936,873 |
| 1991 | 3,225,373,562 | 1,161,671,524 | 39,828,917 | 4,426,874,003 |
| 1992 | 3,272,561,370 | 1,215,055,449 | 40,071,149 | 4,593,647,066 |
| 1993 | 3,320,312,261 | 1,007,755,289 | 41,255,853 | 4,444,381,437 |
| 1994 | 3,423,837,064 | 994,291,314 | 40,860,740 | 4,565,582,229 |

*See Appendix D-4 for corresponding volumes at 14.73 psia.

See footnotes in Appendix A.

FIGURE 6

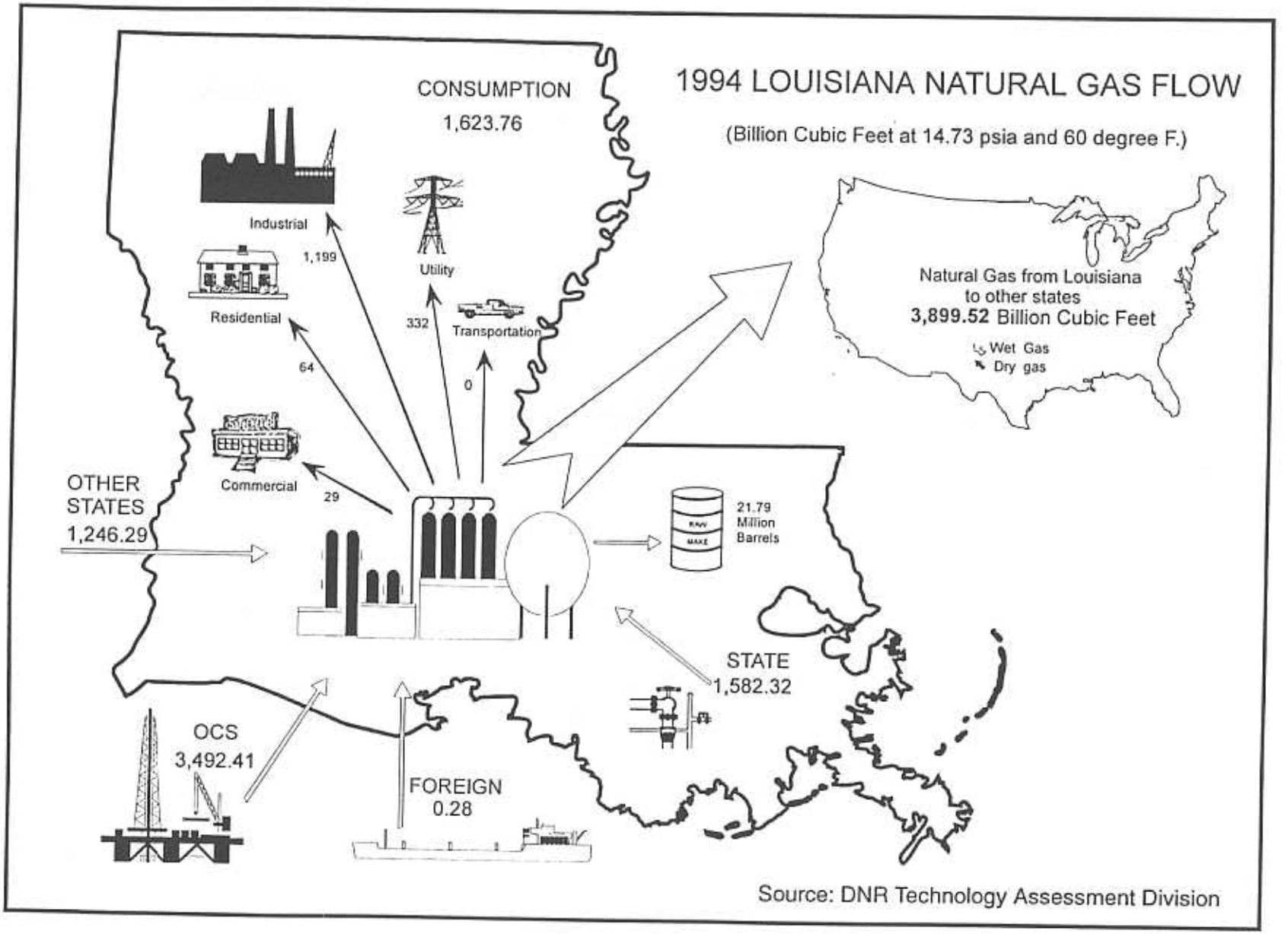

1994 LOUISIANA NATURAL GAS FLOW
(Billion Cubic Feet at 14.73 psia and 60 degree F.)
CONSUMPTION
1,623.76
Industrial
1,199
Utility
Residential
64
332
Transportation
0
Commercial
29
OTHER STATES
1,246.29
21.79 Million Barrels
STATE
1,582.32
OCS
3,492.41
FOREIGN
0.28
Natural Gas from Louisiana to other states
3,899.52 Billion Cubic Feet
Wet Gas
Dry gas
Source: DNR Technology Assessment Division

TABLE 13

## UNITED STATES NATURAL GAS AND CASINGHEAD GAS PRODUCTION[3]
**(Billion Cubic Feet (BCF), at 15.025 psia and 60 degrees Fahrenheit)***

| DATE | GROSS | WET AFTER LEASE SEPARATION | MARKETED | DRY | IMPORTS |
|---|---|---|---|---|---|
| 1975 | 20,689 | 19,845 | 19,714 | 18,859 | 934 |
| 1976 | 20,533 | 19,690 | 19,561 | 18,723 | 945 |
| 1977 | 20,683 | 19,766 | 19,632 | 18,787 | 991 |
| 1978 | 20,890 | 19,732 | 19,582 | 18,746 | 947 |
| 1979 | 21,454 | 20,233 | 20,069 | 19,277 | 1,229 |
| 1980 | 21,440 | 19,907 | 19,784 | 19,022 | 965 |
| 1981 | 21,164 | 19,660 | 19,564 | 18,805 | 886 |
| 1982 | 19,874 | 18,309 | 18,217 | 17,470 | 915 |
| 1983 | 18,293 | 16,646 | 16,553 | 15,778 | 900 |
| 1984 | 19,869 | 18,051 | 17,945 | 17,124 | 827 |
| 1985 | 19,222 | 17,024 | 16,931 | 16,131 | 931 |
| 1986 | 18,755 | 16,623 | 16,528 | 15,744 | 736 |
| 1987 | 19,745 | 17,212 | 17,091 | 16,294 | 973 |
| 1988 | 20,587 | 17,706 | 17,567 | 16,767 | 1,268 |
| 1989 | 20,661 | 17,879 | 17,740 | 16,971 | 1,354 |
| 1990 | 21,100 | 18,376 | 18,229 | 17,460 | 1,502 |
| 1991 | 21,322 | 18,336 | 18,169 | 17,351 | 1,738 |
| 1992 | 21,698 | 18,509 | 18,344 | 17,490 | 2,096 |
| 1993 | 22,279[R] | 18,832[R] | 18,609[R] | 17,740[R] | 2,304[R] |
| January | 1,985[R] | 1,671[R] | 1,652[R] | 1,577[R] | 236[R] |
| February | 1,782[R] | 1,499[R] | 1,480[R] | 1,414[R] | 195[R] |
| March | 1,991[R] | 1,676[R] | 1,658[R] | 1,582[R] | 219[R] |
| April | 1,888[R] | 1,593[R] | 1,575[R] | 1,504[R] | 208[R] |
| May | 1,947[R] | 1,648[R] | 1,630[R] | 1,557[R] | 202[R] |
| June | 1,846[R] | 1,576[R] | 1,556[R] | 1,485[R] | 197[R] |
| July | 1,907[R] | 1,629[R] | 1,611[R] | 1,538[R] | 217[R] |
| August | 1,934[R] | 1,645[R] | 1,627[R] | 1,545[R] | 215[R] |
| September | 1,843[R] | 1,556[R] | 1,536[R] | 1,467[R] | 206[R] |
| October | 1,945[R] | 1,614[R] | 1,595[R] | 1,523[R] | 218[R] |
| November | 1,998[R] | 1,656[R] | 1,638[R] | 1,565[R] | 222[R] |
| December | 2,076[R] | 1,718[R] | 1,699[R] | 1,623[R] | 240[R] |
| **1994 Total** | **23,144[R]** | **19,480[R]** | **19,258[R]** | **18,380[R]** | **2,573[R]** |
| January | 2,039 | 1,687 | 1,677 | 1,599 | 246 |
| February | 1,827 | 1,507 | 1,498 | 1,428 | 224 |
| March | 1,990 | 1,654 | 1,645 | 1,569 | 245 |
| April | 1,944 | 1,619 | 1,609 | 1,534 | 195 |
| May | 2,015 | 1,678 | 1,670 | 1,591 | 213 |
| June | 1,930 | 1,615 | 1,602 | 1,527 | 213 |
| July | 1,955 | 1,642 | 1,628 | 1,553 | 218 |
| August | 1,946 | 1,627 | 1,615 | 1,539 | 226 |
| September | 1,916 | 1,609 | 1,596 | 1,522 | 224 |
| October | 1,953 | 1,615 | 1,602 | 1,527 | 229 |
| November | 1,957 | 1,618 | 1,604 | 1,529 | 221 |
| December | 2,064 | 1,705 | 1,690 | 1,612 | 246 |
| **1995 Total** | **23,536** | **19,575** | **19,436** | **18,531** | **2,699** |

*See Appendix D-5 for corresponding volumes at 14.73 psia.

[R]Revised

See footnotes in Appendix A.

FIGURE 7

## LOUISIANA OIL PRODUCTION & PRICE

ACTUAL AND FORECASTED THROUGH YEAR 2030

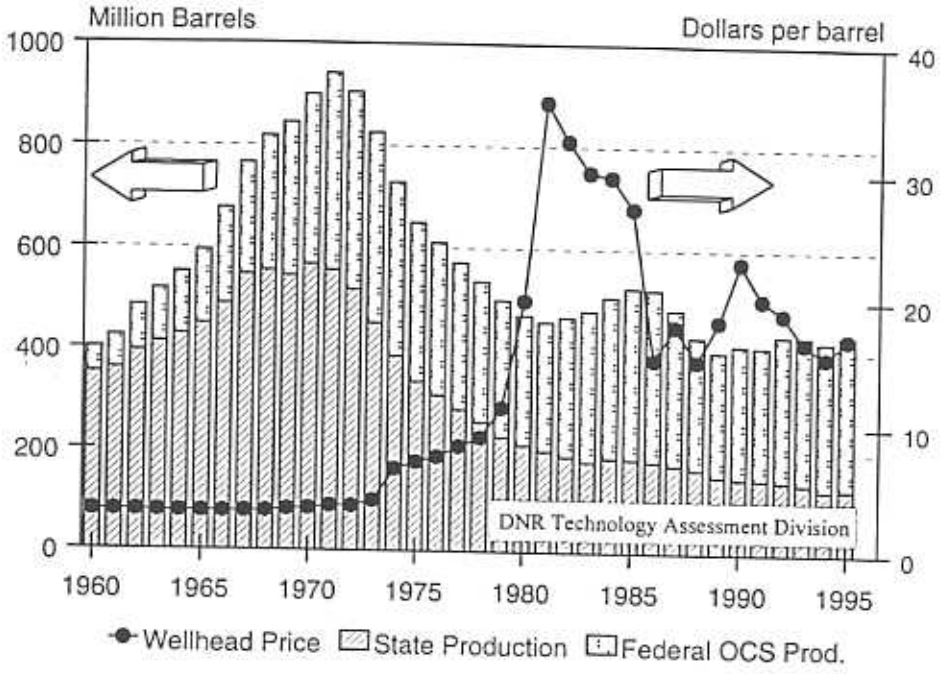



FIGURE 8

## LOUISIANA GAS PRODUCTION AND PRICE

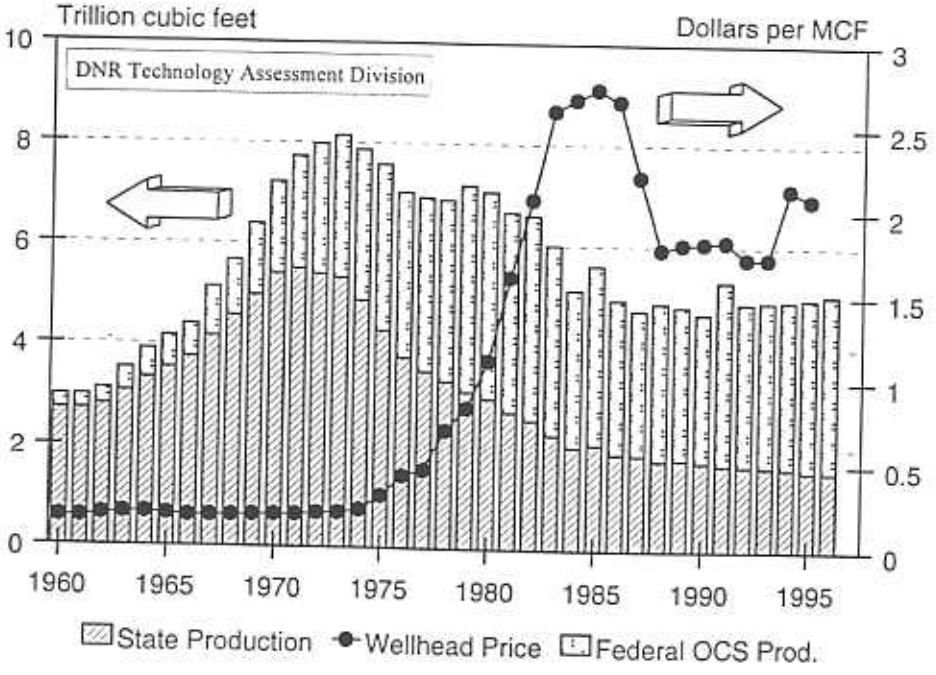


TABLE 14

## LOUISIANA AVERAGE CRUDE OIL PRICES
(Dollars/Barrel)

| | SOUTH LOUISIANA SWEET | | ALL GRADES AT WELLHEAD | | | |
|---|---|---|---|---|---|---|
| DATE | SPOT MARKET[10] | REFINERY POSTED | STATE[6] | OCS GULF[6] | SEVERANCE TAX[8] | STATE ROYALTY |
| 1975 | N/A | 8.87[R] | 37.09 | 7.51 | 6.88 | 6.65[R] |
| 1976 | N/A | 11.74[R] | 7.51 | 8.14 | 7.39 | 6.75[R] |
| 1977 | N/A | 12.25[R] | 8.33 | 9.00 | 7.79 | 7.38[R] |
| 1978 | N/A | 14.30[R] | 9.03 | 9.86 | 8.59 | 8.27[R] |
| 1979 | N/A | 24.83[R] | 11.42 | 11.23 | 10.23 | 9.99[R] |
| 1980 | N/A | 37.79[R] | 19.87 | 18.87 | 17.64 | 17.74[R] |
| 1981 | N/A | 36.13[R] | 35.45 | 35.07 | 33.07 | 35.08[R] |
| 1982 | N/A | 32.91 | 32.44 | 32.61 | 33.55 | 32.33[R] |
| 1983 | 30.63 | 30.63 | 30.02 | 29.77 | 30.38 | 28.64[R] |
| 1984 | 29.64 | 30.04 | 29.67 | 29.36 | 29.98 | 29.44[R] |
| 1985 | 28.42 | 27.86 | 27.22 | 27.33 | 27.18 | 27.40[R] |
| 1986 | 14.72 | 15.71 | 15.32 | 15.27 | 17.23 | 15.78[R] |
| 1987 | 19.38 | 18.52 | 17.97 | 17.54 | 17.55 | 17.85[R] |
| 1988 | 16.13 | 15.75 | 15.22 | 14.71 | 16.38 | 14.67[R] |
| 1989 | 19.75 | 18.97 | 18.39 | 17.83 | 17.87 | 17.92[R] |
| 1990 | 25.11 | 23.35 | 23.04 | 22.40 | 22.54 | 22.76[R] |
| 1991 | 21.36 | 20.59 | 20.15 | 19.40 | 21.13 | 19.90 |
| 1992 | 20.75[R] | 19.72 | 19.01 | 18.38 | 19.31 | 19.10[R] |
| 1993 | 18.56 | 17.27 | 16.72 | 16.17 | 17.39 | 16.80 |
| January | 15.25 | 13.67 | 13.35[R] | 12.49 | 13.19 | 13.26[R] |
| February | 14.87 | 13.47 | 13.11 | 12.35 | 13.29 | 13.04[R] |
| March | 15.00 | 13.45 | 13.16 | 12.38 | 13.60 | 13.15[R] |
| April | 16.84 | 15.09 | 14.82[R] | 13.97 | 13.28 | 14.78[R] |
| May | 18.03 | 16.68 | 16.64[R] | 15.74 | 14.35 | 16.02[R] |
| June | 18.04 | 17.61 | 17.43[R] | 16.51 | 16.43 | 17.22[R] |
| July | 19.10 | 17.86 | 17.77[R] | 16.82 | 17.12 | 17.42[R] |
| August | 18.48 | 16.88 | 16.62 | 15.85 | 17.77 | 16.26[R] |
| September | 17.36 | 15.98 | 15.78 | 14.80 | 16.87 | 15.90[R] |
| October | 17.73 | 16.30 | 16.11[R] | 15.19 | 16.07 | 16.05[R] |
| November | 18.63 | 16.95 | 16.69[R] | 15.80[R] | 16.14 | 16.66[R] |
| December | 17.34 | 16.11 | 15.79[R] | 14.79[R] | 17.42 | 15.78[R] |
| **1994 Average** | **17.22** | **15.84** | **15.61[R]** | **14.72** | **15.46** | **15.46[R]** |
| January | 18.32 | 16.88 | 16.72 | 15.81 | 16.14 | 16.75 |
| February | 18.55 | 17.47 | 17.23 | 16.29 | 17.08 | 17.27 |
| March | 18.48 | 17.08 | 16.96 | 16.03 | 17.16 | 16.67 |
| April | 20.18 | 18.55 | 18.38 | 17.41 | 17.19 | 18.37 |
| May | 19.90 | 18.41 | 18.29 | 17.39 | 18.52 | 17.72 |
| June | 18.64 | 17.20 | 17.11 | 16.40 | 18.43 | 16.62 |
| July | 17.45 | 15.97 | 15.94 | 15.13 | 17.34 | 15.73 |
| August | 18.00 | 16.61 | 16.58 | 15.50 | 15.85 | 16.90 |
| September | 18.13 | 16.84 | 16.81 | 15.87 | 16.60 | 16.73 |
| October | 17.72 | 16.01 | 16.03 | 15.27 | 16.85 | 16.04 |
| November | 18.31 | 16.81 | 16.71 | 15.74 | 16.10 | 16.85 |
| December | 19.53 | 18.03 | 17.99 | 17.00 | 16.53 | 18.10 |
| **1995 Average** | **18.60** | **17.16** | **17.06** | **16.15** | **16.98** | **16.98** |

[R]Revised

See footnotes in Appendix A.

TABLE 15

## UNITED STATES AVERAGE CRUDE OIL PRICES[2]
(Dollars/Barrel)

| DATE | REFINERY ACQUISITIONS DOMESTIC COSTS | REFINERY ACQUISITIONS IMPORTS COSTS | DOMESTIC WELLHEAD | IMPORTS LANDED | IMPORTS FOB | IMPORTS OPEC FOB |
|---|---|---|---|---|---|---|
| 1975 | 8.39 | 13.93 | 7.67 | 12.70 | 11.18 | 11.34 |
| 1976 | 8.84 | 13.48 | 8.19 | 13.32 | 12.15 | 12.23 |
| 1977 | 9.55 | 14.53 | 8.57 | 14.36 | 13.24 | 13.29 |
| 1978 | 10.61 | 14.57 | 9.00 | 14.35 | 13.29 | 13.31 |
| 1979 | 14.27 | 21.67 | 12.64 | 21.45 | 20.07 | 19.88 |
| 1980 | 24.23 | 33.89 | 21.59 | 33.67 | 32.37 | 32.21 |
| 1981 | 34.33 | 37.05 | 31.77 | 36.47 | 35.15 | 35.17 |
| 1982 | 31.32 | 33.55 | 28.52 | 33.18 | 32.02 | 33.48 |
| 1983 | 28.87 | 29.30 | 26.19 | 28.93 | 27.81 | 28.46 |
| 1984 | 28.53 | 28.88 | 25.88 | 28.54 | 27.60 | 27.79 |
| 1985 | 26.66 | 26.99 | 24.09 | 26.67 | 25.84 | 25.67 |
| 1986 | 14.82 | 14.00 | 12.51 | 13.49 | 12.52 | 12.21 |
| 1987 | 17.76 | 18.13 | 15.40 | 17.65 | 16.69 | 16.43 |
| 1988 | 14.74 | 14.56 | 12.58 | 14.08 | 13.25 | 13.43 |
| 1989 | 17.87 | 18.06 | 15.86 | 17.68 | 16.89 | 17.06 |
| 1990 | 22.59 | 21.76 | 20.03 | 21.13 | 20.37 | 20.40 |
| 1991 | 19.33 | 18.70 | 16.54 | 18.02 | 16.89 | 16.99 |
| 1992 | 18.62 | 18.12 | 16.00 | 17.65 | 16.66 | 16.76 |
| 1993 | 16.66 | 16.17 | 14.24 | 15.75 | 14.72 | 14.72 |
| January | 12.73[R] | 12.93 | 10.49[R] | 12.74[R] | 12.07 | 12.35[R] |
| February | 13.24 | 12.90 | 10.71[R] | 12.71[R] | 12.05 | 11.95[R] |
| March | 13.14 | 13.18 | 10.94[R] | 13.00[R] | 12.38 | 15.58[R] |
| April | 14.74 | 14.54 | 12.31[R] | 14.30[R] | 13.55 | 13.75[R] |
| May | 15.86[R] | 15.74 | 14.02[R] | 15.62[R] | 14.67 | 14.73[R] |
| June | 17.38 | 17.04 | 14.93[R] | 16.51[R] | 15.44 | 15.24[R] |
| July | 17.74 | 17.52[R] | 15.34[R] | 17.15[R] | 16.10 | 15.76[R] |
| August | 17.22 | 16.66[R] | 14.50 | 16.07[R] | 14.94 | 14.29[R] |
| September | 16.46 | 15.91[R] | 13.62 | 15.47[R] | 14.32 | 13.91[R] |
| October | 16.35 | 16.27 | 13.84 | 15.66[R] | 14.74 | 14.48[R] |
| November | 16.63 | 16.46 | 14.14 | 15.98[R] | 14.88 | 14.30[R] |
| December | 16.22 | 15.78 | 13.43 | 15.61[R] | 14.46 | 13.94[R] |
| **1994 Average** | **15.64** | **15.41** | **13.19** | **15.07[R]** | **14.13** | **14.79[R]** |
| January | 16.52 | 16.56 | 14.00 | 16.73 | 15.63 | 15.09 |
| February | 17.16 | 17.21 | 14.69 | 17.04 | 15.88 | 15.47 |
| March | 17.31 | 17.22 | 14.68 | 18.26 | 17.28 | 17.18 |
| April | 18.20 | 18.73 | 15.84 | 18.18 | 17.30 | 16.93 |
| May | 18.68 | 18.51 | 15.85 | 17.07 | 15.91 | 15.47 |
| June | 17.94 | 17.44 | 15.02 | 15.94 | 14.82 | 14.43 |
| July | 16.85 | 16.50 | 14.01 | 16.10 | 15.05 | 14.88 |
| August | 16.96 | 16.54 | 14.13 | 16.38 | 15.24 | 14.77 |
| September | 17.12 | 16.71 | 14.49 | 15.87 | 14.68 | 14.20 |
| October | 16.82 | 16.30 | 13.68 | 16.30 | 15.31 | 14.26 |
| November | 16.73 | 16.50 | 14.03 | 17.03 | 16.05 | 15.10 |
| December | 17.55 | 17.58 | 15.02 | 15.48 | 14.30 | 13.59 |
| **1995 Average** | **17.32** | **17.15** | **14.62** | **16.70** | **15.62** | **15.11** |

[R]Revised

See footnotes in Appendix A.

TABLE 16

## LOUISIANA NATURAL GAS WELLHEAD PRICES
(Dollars/Thousand Cubic Feet)

| DATE | MMS OCS[3] | DOE STATE WELLS[3] | DNR STATE ROYALTY | SPOT MARKET[5] LOW | SPOT MARKET[5] HIGH | SPOT MARKET[5] AVERAGE |
|---|---|---|---|---|---|---|
| 1975 | 0.35 | 0.42 | 0.39 | N/A | N/A | N/A |
| 1976 | 0.46 | 0.46 | 0.46 | N/A | N/A | N/A |
| 1977 | 0.74 | 0.70 | 0.60 | N/A | N/A | N/A |
| 1978 | 0.93 | 0.84 | 0.79 | N/A | N/A | N/A |
| 1979 | 1.26 | 1.12 | 1.00 | N/A | N/A | N/A |
| 1980 | 1.64 | 1.61 | 1.27 | N/A | N/A | N/A |
| 1981 | 2.11 | 2.07 | 1.67 | N/A | N/A | N/A |
| 1982 | 2.65 | 2.60 | 2.22 | N/A | N/A | N/A |
| 1983 | 2.72 | 2.67 | 2.48 | N/A | N/A | N/A |
| 1984 | 2.70 | 2.73 | 2.54 | N/A | N/A | N/A |
| 1985 | 2.72 | 2.66 | 2.37 | 2.13 | 3.07 | 2.61 |
| 1986 | 2.26 | 2.21 | 1.87 | 1.46 | 2.34 | 1.76 |
| 1987 | 1.82 | 1.78 | 1.65 | 1.40 | 1.82 | 1.55 |
| 1988 | 1.84 | 1.81 | 1.86 | 1.40 | 2.29 | 1.79 |
| 1989 | 1.86 | 1.82 | 1.77 | 1.40 | 2.29 | 1.76 |
| 1990 | 1.87 | 1.83 | 1.80 | 1.35 | 2.60 | 1.77 |
| 1991 | 1.77 | 1.73 | 1.57 | 1.09 | 2.03 | 1.50 |
| 1992 | 1.77 | 1.73 | 1.77 | 0.99 | 2.81 | 1.80 |
| 1993 | 2.18 | 2.14 | 2.07 | 1.61 | 2.76 | 2.14 |
| January | | | 1.96 | 2.03 | 2.13 | 2.09 |
| February | | | 2.40[R] | 2.34 | 2.44 | 2.40 |
| March | | | 2.43[R] | 2.34 | 2.44 | 2.39 |
| April | | | 2.11[R] | 1.98 | 2.08 | 2.04 |
| May | | | 2.19[R] | 2.03 | 2.13 | 2.11 |
| June | | | 1.95[R] | 1.77 | 1.87 | 1.81 |
| July | | | 2.02[R] | 1.92 | 2.03 | 1.98 |
| August | | | 1.86[R] | 1.77 | 1.87 | 1.82 |
| September | | | 1.60[R] | 1.46 | 1.51 | 1.49 |
| October | | | 1.54[R] | 1.40 | 1.46 | 1.43 |
| November | | | 1.77[R] | 1.66 | 1.77 | 1.71 |
| December | | | 1.81[R] | 1.66 | 1.72 | 1.69 |
| **1994 Average** | **2.10** | **2.08** | **1.97[R]** | **1.40** | **2.44** | **1.91** |
| January | | | 1.75 | 1.61 | 1.66 | 1.66 |
| February | | | 1.61 | 1.40 | 1.46 | 1.44 |
| March | | | 1.66 | 1.40 | 1.51 | 1.49 |
| April | | | 1.77 | 1.56 | 1.61 | 1.57 |
| May | | | 1.74 | 1.66 | 1.72 | 1.69 |
| June | | | 1.70 | 1.72 | 1.77 | 1.73 |
| July | | | 1.32 | 1.51 | 1.56 | 1.54 |
| August | | | 1.44 | 1.35 | 1.40 | 1.37 |
| September | | | 1.63 | 1.56 | 1.61 | 1.57 |
| October | | | 1.74 | 1.66 | 1.66 | 1.66 |
| November | | | 2.57 | 1.77 | 1.82 | 1.81 |
| December | | | 1.93 | 2.24 | 2.34 | 2.30 |
| **1995 Average** | **1.63** | **1.58** | **1.74** | **1.35** | **2.34** | **1.65** |

[R]Revised

See footnotes in Appendix A.

FIGURE 9

## CRUDE OIL AVERAGE PRICES

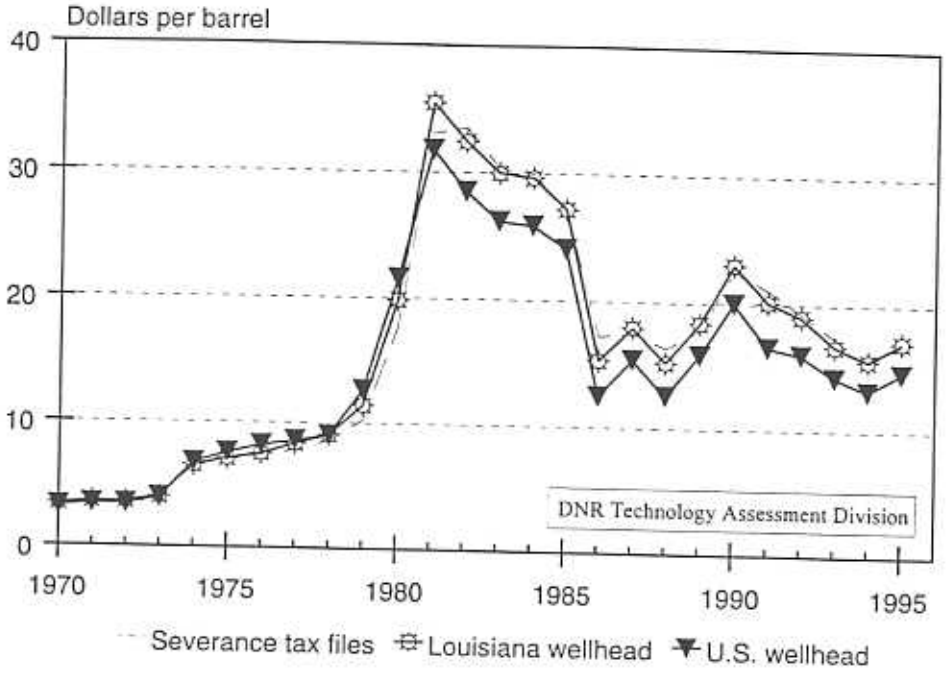



FIGURE 10

## NATURAL GAS AVERAGE PRICES

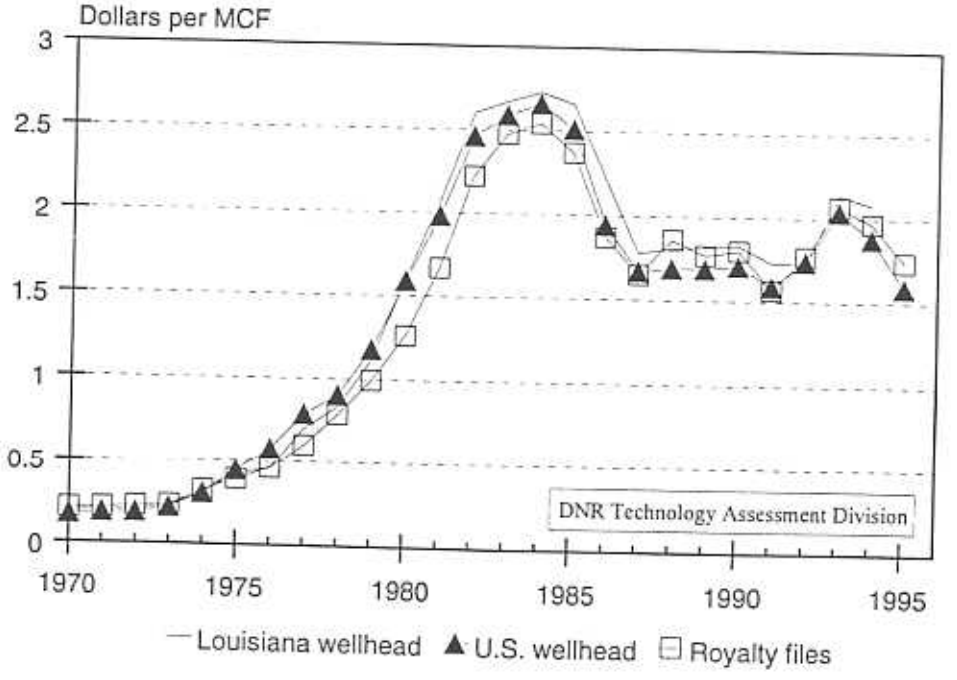


TABLE 17

## LOUISIANA AVERAGE NATURAL GAS PRICES DELIVERED TO CONSUMERS[3]
(Dollars/Thousand Cubic Feet)

| DATE | GATES | RESIDENTIAL | COMMERCIAL | INDUSTRIAL | UTILITY |
|---|---|---|---|---|---|
| 1975 | 0.78[E] | 1.37 | 0.80 | 0.76 | 0.54 |
| 1976 | 0.96[E] | 1.57 | 1.10 | 0.94 | 0.83 |
| 1977 | 1.24[E] | 1.97 | 1.40 | 1.18 | 0.96 |
| 1978 | 1.21[E] | 2.47 | 1.44 | 0.96 | 1.18 |
| 1979 | 1.37[E] | 2.71 | 2.28 | 0.92 | 1.54 |
| 1980 | 1.85[E] | 3.40 | 2.69 | 1.28 | 2.09 |
| 1981 | 2.38[E] | 4.15 | 3.69 | 1.88 | 2.82 |
| 1982 | 3.38[E] | 5.32 | 4.93 | 3.16 | 3.23 |
| 1983 | 3.59[E] | 6.12 | 5.71 | 3.13 | 3.30 |
| 1984 | 3.78 | 5.96 | 5.54 | 3.18 | 3.18 |
| 1985 | 3.55 | 5.67 | 5.28 | 3.03 | 2.86 |
| 1986 | 2.95 | 5.77 | 5.25 | 1.91 | 1.94 |
| 1987 | 2.38 | 5.56 | 4.97 | 1.80 | 1.67 |
| 1988 | 3.09 | 5.74 | 5.14 | 1.99 | 1.70 |
| 1989 | 2.98 | 5.97 | 5.27 | 1.97 | 1.78 |
| 1990 | 2.97 | 6.09 | 5.25 | 2.00 | 1.73 |
| 1991 | 2.56 | 5.77 | 4.90 | 1.74 | 1.59 |
| 1992 | 2.48 | 5.60 | 4.79 | 1.93 | 1.91 |
| 1993 | 2.72 | 6.09 | 5.33 | 2.30 | 2.49 |
| January | 2.66 | 5.62[R] | 5.53[R] | 2.53 | 2.64 |
| February | 3.19 | 5.80[R] | 5.61[R] | 2.44[R] | 3.00 |
| March | 2.94 | 5.79[R] | 5.47[R] | 2.68[R] | 2.67 |
| April | 2.65 | 6.16[R] | 5.19[R] | 2.43[R] | 2.37 |
| May | 2.64 | 7.14[R] | 5.45[R] | 2.34[R] | 2.39 |
| June | 2.77 | 7.32[R] | 5.23[R] | 2.20[R] | 2.21 |
| July | 2.43 | 7.98[R] | 5.64[R] | 2.13[R] | 2.28 |
| August | 2.26 | 7.94[R] | 5.31[R] | 2.14[R] | 2.08 |
| September | 1.97 | 7.50[R] | 5.18[R] | 1.91[R] | 1.73 |
| October | 2.02 | 7.39[R] | 5.33[R] | 1.70[R] | 1.72 |
| November | 2.38 | 7.09[R] | 5.52[R] | 1.75[R] | 1.88 |
| December | 2.35 | 5.65[R] | 5.20[R] | 1.88[R] | 1.96 |
| **1994 Average** | **2.54[R]** | **6.24[R]** | **5.42[R]** | **2.17** | **2.17** |
| January | 2.23 | 5.26 | 5.05 | 1.85 | 1.88 |
| February | 2.07 | 4.98 | 4.76 | 1.72 | 1.76 |
| March | 2.14 | 5.31 | 4.92 | 1.63 | 1.69 |
| April | 2.12 | 5.89 | 4.88 | 1.68 | 1.78 |
| May | 2.10 | 6.92 | 5.25 | 1.79 | 1.91 |
| June | 2.04 | 6.98 | 4.55 | 1.85 | 1.95 |
| July | 2.00 | 7.80 | 5.10 | 1.82 | 1.78 |
| August | 1.90 | 7.53 | 4.76 | 1.63 | 1.67 |
| September | 2.05 | 7.62 | 5.15 | 1.66 | 1.85 |
| October | 2.23 | 7.60 | 5.38 | 1.79 | 1.93 |
| November | 2.44 | 6.27 | 5.43 | 1.87 | 2.08 |
| December | 2.78 | 5.87 | 5.61 | 2.19 | 2.72 |
| **1995 Average** | **2.21** | **5.92** | **5.05** | **1.79** | **1.88** |

[E]Estimated

[R]Revised

See footnotes in Appendix A.

FIGURE 11

## LOUISIANA STATE DRILLING PERMITS ISSUED

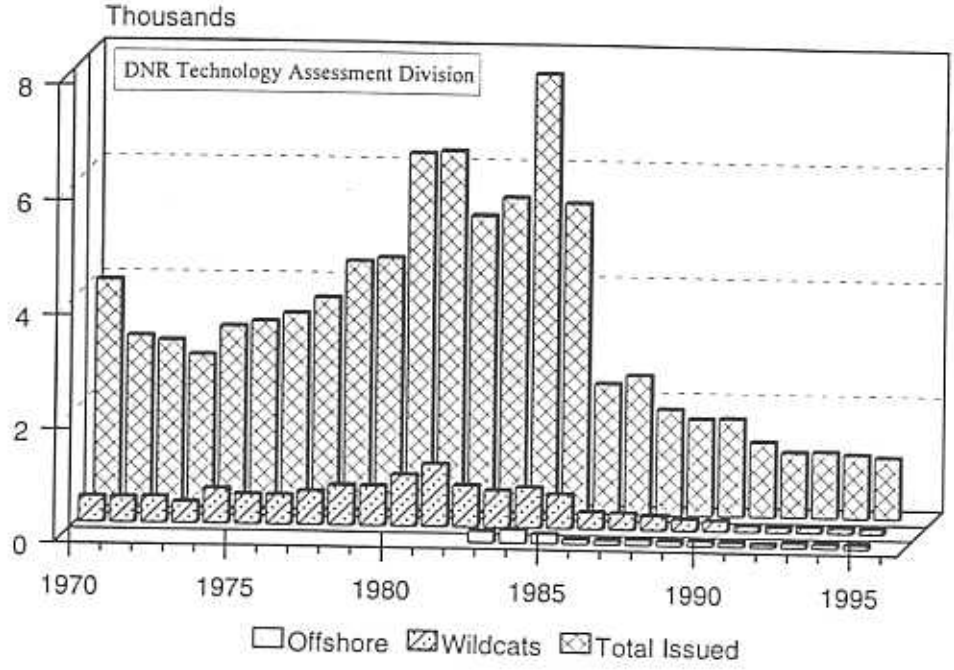



FIGURE 12

## LOUISIANA AVERAGE ACTIVE RIGS

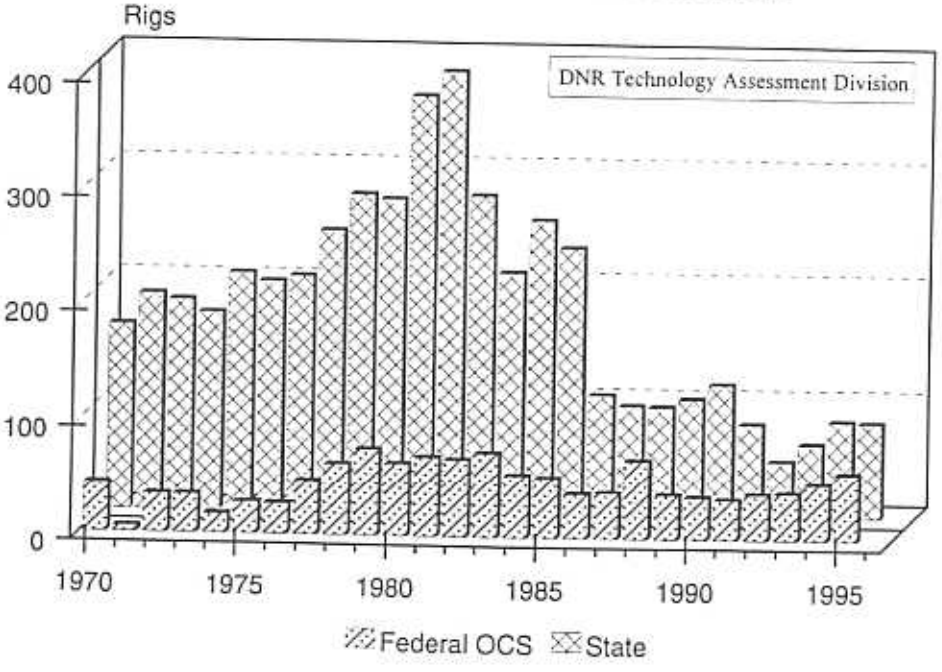


TABLE 18

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

| DATE | WELLHEAD[3] | SPOT MARKET[5] | FOREIGN IMPORTS | CITY GATES | DELIVERED TO RESIDENTIAL[3] |
|---|---|---|---|---|---|
| 1975 | 0.44 | N/A | 1.31 | 0.80 | 1.71 |
| 1975 | 0.44 | N/A | 1.31 | 0.80 | 1.71 |
| 1976 | 0.58 | N/A | 1.73 | 0.98 | 1.98 |
| 1977 | 0.79 | N/A | 1.99 | 1.31 | 2.35 |
| 1978 | 0.91 | N/A | 2.21 | 1.47 | 2.56 |
| 1979 | 1.18 | N/A | 2.60 | 1.81 | 2.98 |
| 1980 | 1.59 | N/A | 4.42 | 2.41 | 3.68 |
| 1981 | 1.98 | N/A | 4.84 | 2.89 | 4.29 |
| 1982 | 2.46 | N/A | 4.94 | 3.60 | 5.17 |
| 1983 | 2.59 | N/A | 4.51 | 4.04 | 6.06 |
| 1984 | 2.66 | N/A | 4.08 | 3.89 | 6.12 |
| 1985 | 2.51 | 2.49 | 3.10 | 3.75 | 6.12 |
| 1986 | 1.94 | 1.68 | 2.53 | 3.22 | 5.83 |
| 1987 | 1.67 | 1.48 | 2.17 | 2.87 | 5.54 |
| 1988 | 1.69 | 1.69 | 2.00 | 2.92 | 5.47 |
| 1989 | 1.69 | 1.64 | 2.04 | 3.01 | 5.64 |
| 1990 | 1.71 | 1.67 | 2.03 | 3.09 | 5.80 |
| 1991 | 1.64 | 1.45 | 2.02 | 2.90 | 5.82 |
| 1992 | 1.74 | 1.75 | 1.97 | 3.01 | 5.89 |
| 1993 | 2.04[R] | 2.10 | 2.01 | 3.21 | 6.16 |
| January | 1.86[R] | 2.06 | 2.11[R] | 3.04[R] | 5.93[R] |
| February | 1.76[R] | 2.27 | 2.24[R] | 3.25[R] | 6.04[R] |
| March | 1.82[R] | 2.29 | 2.21[R] | 3.33 | 6.30 |
| April | 1.90[R] | 1.96 | 1.96[R] | 3.15 | 6.60[R] |
| May | 2.00[R] | 2.02 | 1.94[R] | 3.17[R] | 6.84 |
| June | 1.83[R] | 1.72 | 1.77[R] | 3.17[R] | 7.66 |
| July | 1.81[R] | 1.87 | 1.82[R] | 3.12[R] | 8.10[R] |
| August | 1.90[R] | 1.73 | 1.76[R] | 3.15[R] | 8.22[R] |
| September | 1.94[R] | 1.48 | 1.66[R] | 2.92 | 7.84[R] |
| October | 1.85[R] | 1.39 | 1.54[R] | 2.80 | 6.86 |
| November | 1.85[R] | 1.64 | 1.71[R] | 2.84 | 6.27[R] |
| December | 1.98[R] | 1.68 | 1.72[R] | 2.86 | 6.06[R] |
| **1994 Average** | **1.88[R]** | **1.84** | **1.87[R]** | **3.07[R]** | **6.89[R]** |
| January | 1.65 | 1.60 | 1.54 | 2.79 | 5.83 |
| February | 1.46 | 1.37 | 1.45 | 2.71 | 5.74 |
| March | 1.48 | 1.39 | 1.45 | 2.74 | 5.82 |
| April | 1.48 | 1.47 | 1.34 | 2.70 | 6.04 |
| May | 1.63 | 1.59 | 1.43 | 2.80 | 6.53 |
| June | 1.66 | 1.63 | 1.44 | 2.90 | 7.48 |
| July | 1.45 | 1.44 | 1.40 | 2.83 | 7.80 |
| August | 1.37 | 1.31 | 1.36 | 2.81 | 8.12 |
| September | 1.56 | 1.51 | 1.39 | 2.83 | 7.72 |
| October | 1.60 | 1.59 | 1.54 | 2.84 | 6.61 |
| November | 1.71 | 1.73 | 1.60 | 2.67 | 5.59 |
| December | 1.98 | 2.11 | 1.72 | 2.84 | 5.58 |
| **1995 Average** | **1.59** | **1.56** | **1.47** | **2.79** | **6.57** |

[R]Revised

See footnotes in Appendix A.

TABLE 19

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

| DATE | DEVELOPMENTAL | + | WILDCATS | = | TOTAL | = | OFFSHORE | + | ONSHORE |
|---|---|---|---|---|---|---|---|---|---|
| 1975 | 2,773 | | 513 | | 3,286 | | N/A | | N/A |
| 1976 | 2,913 | | 515 | | 3,428 | | N/A | | N/A |
| 1977 | 3,119 | | 588 | | 3,707 | | N/A | | N/A |
| 1978 | 3,657 | | 695 | | 4,352 | | N/A | | N/A |
| 1979 | 3,725 | | 694 | | 4,419 | | N/A | | N/A |
| 1980 | 5,344 | | 893 | | 6,237 | | N/A | | N/A |
| 1981 | 5,195 | | 1,086 | | 6,281 | | N/A | | N/A |
| 1982 | 4,454 | | 727 | | 5,181 | | N/A | | N/A |
| 1983 | 4,852 | | 642 | | 5,494 | | 201 | | 5,293 |
| 1984 | 6,929 | | 702 | | 7,631 | | 231 | | 7,400 |
| 1985 | 4,811 | | 599 | | 5,410 | | 165 | | 5,245 |
| 1986 | 1,984 | | 298 | | 2,282 | | 84 | | 2,198 |
| 1987 | 2,148 | | 284 | | 2,432 | | 73 | | 2,359 |
| 1988 | 1,601 | | 249 | | 1,850 | | 94 | | 1,756 |
| 1989 | 1,486 | | 204 | | 1,690 | | 75 | | 1,615 |
| 1990 | 1,526 | | 181 | | 1,707 | | 85 | | 1,622 |
| 1991 | 1,209 | | 100 | | 1,309 | | 77 | | 1,232 |
| 1992 | 1,044 | | 92 | | 1,136 | | 59 | | 1,077 |
| 1993 | 1,040 | | 109 | | 1,149 | | 76 | | 1,073 |
| January | 62 | | 5 | | 67 | | 5 | | 62 |
| February | 66 | | 9 | | 75 | | 13 | | 62 |
| March | 96 | | 6 | | 102 | | 9 | | 93 |
| April | 78 | | 4 | | 82 | | 6 | | 76 |
| May | 84 | | 11 | | 95 | | 6 | | 89 |
| June | 102 | | 14 | | 116 | | 5 | | 111 |
| July | 96 | | 4 | | 100 | | 2 | | 98 |
| August | 85 | | 10 | | 95 | | 5 | | 90 |
| September | 109 | | 11 | | 120 | | 4 | | 116 |
| October | 89 | | 3 | | 92 | | 7 | | 85 |
| November | 73 | | 12 | | 85 | | 4 | | 81 |
| December | 75 | | 9 | | 84 | | 8 | | 76 |
| **1994 Total** | **1,015** | | **98** | | **1,113** | | **74** | | **1,039** |
| January | 52 | | 3 | | 55 | | 3 | | 52 |
| February | 63 | | 5 | | 68 | | 7 | | 61 |
| March | 78 | | 4 | | 82 | | 6 | | 76 |
| April | 73 | | 5 | | 78 | | 8 | | 70 |
| May | 109 | | 8 | | 117 | | 9 | | 108 |
| June | 94 | | 9 | | 103 | | 8 | | 95 |
| July | 85 | | 10 | | 95 | | 4 | | 91 |
| August | 94 | | 16 | | 110 | | 7 | | 103 |
| September | 82 | | 3 | | 85 | | 2 | | 83 |
| October | 110 | | 9 | | 119 | | 3 | | 116 |
| November | 80 | | 8 | | 88 | | 7 | | 81 |
| December | 59 | | 6 | | 65 | | 4 | | 61 |
| **1995 Total** | **979** | | **86** | | **1,065** | | **68** | | **997** |

TABLE 20

## LOUISIANA AVERAGE RIGS RUNNING

| | | SOUTH-INLAND | | OFFSHORE | | | |
|---|---|---|---|---|---|---|---|
| YEAR | NORTH[4] | WATER[4] | LAND[4] | STATE | OCS | STATE + OCS | TOTAL RIGS[4] |
| 1975 | 31 | 55 | 64 | 50 | 27 | 77 | 227 |
| 1976 | 34 | 49 | 65 | 57 | 26 | 83 | 231 |
| 1977 | 45 | 56 | 81 | 62 | 47 | 109 | 292 |
| 1978 | 40 | 63 | 114 | 60 | 62 | 122 | 338 |
| 1979 | 35 | 62 | 112 | 64 | 75 | 139 | 347 |
| 1980 | 55 | 77 | 156 | 76 | 63 | 139 | 427 |
| 1981 | 58 | 83 | 160 | 85 | 69 | 154 | 455 |
| 1982 | 40 | 60 | 108 | 69 | 67 | 136 | 344 |
| 1983 | 29 | 47 | 82 | 51 | 73 | 124 | 283 |
| 1984 | 30 | 51 | 96 | 78 | 54 | 132 | 310 |
| 1985 | 25 | 44 | 86 | 78 | 52 | 130 | 283 |
| 1986 | 12 | 20 | 42 | 31 | 38 | 69 | 143 |
| 1987 | 11 | 23 | 36 | 26 | 39 | 65 | 135 |
| 1988 | 14 | 27 | 35 | 20 | 68 | 88 | 163 |
| 1989 | 16 | 17 | 35 | 34 | 38 | 72 | 140 |
| 1990 | 19 | 20 | 36 | 40 | 36 | 76 | 151 |
| 1991 | 11 | 16 | 31 | 23 | 34 | 57 | 115 |
| 1992 | 9 | 13 | 27 | 16 | 23 | 39 | 88 |
| 1993 | 11 | 12 | 22 | 19 | 40 | 59 | 104 |
| January | 12 | 19 | 22 | 19 | 57 | 76 | 129 |
| February | 20 | 19 | 19 | 22 | 49 | 71 | 129 |
| March | 14 | 18 | 19 | 17 | 57 | 74 | 125 |
| April | 12 | 21 | 17 | 33 | 47 | 80 | 130 |
| May | 9 | 14 | 24 | 25 | 55 | 81 | 128 |
| June | 12 | 14 | 28 | 31 | 53 | 83 | 137 |
| July | 12 | 15 | 28 | 35 | 49 | 83 | 138 |
| August | 14 | 15 | 28 | 37 | 37 | 74 | 131 |
| September | 16 | 13 | 28 | 42 | 32 | 74 | 131 |
| October | 14 | 14 | 26 | 22 | 54 | 76 | 130 |
| November | 18 | 16 | 29 | 26 | 53 | 79 | 142 |
| December | 15 | 14 | 28 | 42 | 38 | 80 | 137 |
| **1994 Average** | **14** | **16** | **25** | **29** | **48** | **78** | **132** |
| January | 13 | 13 | 26 | 43 | 38 | 80 | 131 |
| February | 14 | 13 | 26 | 41 | 40 | 81 | 134 |
| March | 12 | 12 | 26 | 38 | 35 | 73 | 123 |
| April | 12 | 14 | 26 | 24 | 51 | 75 | 127 |
| May | 14 | 15 | 23 | 17 | 65 | 82 | 134 |
| June | 16 | 14 | 27 | 28 | 53 | 80 | 137 |
| July | 13 | 14 | 30 | 24 | 62 | 86 | 143 |
| August | 12 | 14 | 33 | 20 | 67 | 87 | 146 |
| September | 17 | 18 | 31 | 19 | 66 | 85 | 151 |
| October | 21 | 17 | 31 | 8 | 77 | 85 | 154 |
| November | 25 | 20 | 30 | 5 | 74 | 79 | 154 |
| December | 24 | 17 | 32 | 10 | 74 | 85 | 158 |
| **1995 Average** | **16** | **15** | **28** | **23** | **58** | **81** | **141** |

See footnotes in Appendix A.

TABLE 21

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

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 12,259 | 8,094[R] | 936 | 21,288[R] |
| 1976 | 12,393 | 7,730[R] | 1,073 | 21,196[R] |
| 1977 | 12,915 | 7,444[R] | 1,067 | 21,425[R] |
| 1978 | 13,019 | 7,219[R] | 1,086 | 21,324[R] |
| 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 | 23,489 |
| 1991 | 17,731 | 5,143 | 868 | 23,742 |
| 1992 | 17,449 | 5,155 | 842 | 23,446 |
| 1993 | 16,810 | 5,015 | 814 | 22,640 |
| January | 16,399 | 4,765 | 827 | 21,991 |
| February | 16,379 | 4,780 | 822 | 21,981 |
| March | 16,317 | 4,709 | 819 | 21,845 |
| April | 15,901 | 4,698 | 817 | 21,416 |
| May | 15,985 | 4,724 | 815 | 21,524 |
| June | 16,011 | 4,684 | 816 | 21,511 |
| July | 16,100 | 4,695 | 801 | 21,596 |
| August | 16,029 | 4,676 | 805 | 21,510 |
| September | 15,735[R] | 4,666[R] | 797[R] | 21,198[R] |
| October | 15,278[R] | 4,646[R] | 787[R] | 20,711[R] |
| November | 15,431[R] | 4,537[R] | 776[R] | 20,744[R] |
| December | 15,287[R] | 4,608[R] | 776[R] | 20,671[R] |
| **1994 Average** | **15,904[R]** | **4,682[R]** | **805[R]** | **21,392[R]** |
| January | 15,476 | 4,567 | 783 | 20,826 |
| February | 15,227 | 4,555 | 779 | 20,561 |
| March | 15,096 | 4,534 | 774 | 20,404 |
| April | 15,044 | 4,443 | 763 | 20,250 |
| May | 15,121 | 4,459 | 769 | 20,349 |
| June | 15,087 | 4,422 | 759 | 20,268 |
| July | 15,212 | 4,408 | 785 | 20,405 |
| August | 15,347 | 4,471 | 773 | 20,591 |
| September | 15,245 | 4,397 | 780 | 20,422 |
| October | 15,463 | 4,407 | 747 | 20,617 |
| November | 15,461 | 4,378 | 766 | 20,605 |
| December | 15,317 | 4,449 | 766 | 20,532 |
| **1995 Total** | **15,258[E]** | **4,458[E]** | **770[E]** | **20,486[E]** |

[R]Revised

[E]Estimated

TABLE 22

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

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 5,373 | 3,331[R] | 308 | 9,012[R] |
| 1976 | 5,851 | 3,289[R] | 362 | 9,502[R] |
| 1977 | 6,343 | 3,331[R] | 449 | 10,123[R] |
| 1978 | 6,915 | 3,253[R] | 472 | 10,640[R] |
| 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 | 14,116 |
| 1984 | 10,812 | 2,955 | 532 | 14,299 |
| 1985 | 11,026 | 2,887 | 511 | 14,181 |
| 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 |
| January | 10,631 | 2,215 | 481 | 13,327 |
| February | 10,643 | 2,189 | 481 | 13,313 |
| March | 10,731 | 2,229 | 482 | 13,442 |
| April | 10,738 | 2,186 | 487 | 13,411 |
| May | 10,723 | 2,207 | 489 | 13,419 |
| June | 10,640 | 2,152 | 493 | 13,285 |
| July | 10,616 | 2,157 | 492 | 13,265 |
| August | 10,506 | 2,181 | 496 | 13,183 |
| September | 10,613[R] | 2,168[R] | 496[R] | 13,277[R] |
| October | 10,483[R] | 2,965[R] | 467[R] | 13,915[R] |
| November | 10,468[R] | 2,234[R] | 410[R] | 13,112[R] |
| December | 10,365[R] | 2,238[R] | 399[R] | 13,002[R] |
| **1994 Average** | **10,596[R]** | **2,260[R]** | **473[R]** | **13,329[R]** |
| January | 10,343 | 2,121 | 491 | 12,955 |
| February | 10,589 | 2,236 | 320 | 13,145 |
| March | 10,508 | 2,255 | 318 | 13,081 |
| April | 10,418 | 2,229 | 321 | 12,968 |
| May | 10,546 | 2,241 | 335 | 13,122 |
| June | 10,505 | 2,199 | 325 | 13,029 |
| July | 10,480 | 2,264 | 327 | 13,071 |
| August | 10,371 | 2,175 | 308 | 12,854 |
| September | 10,330 | 2,156 | 305 | 12,791 |
| October | 10,315 | 2,193 | 329 | 12,837 |
| November | 10,246 | 2,178 | 318 | 12,742 |
| December | 10,143[E] | 2,182[E] | 307[E] | 12,632[E] |
| **1995 Average** | **10,400[E]** | **2,202[E]** | **334[E]** | **12,936[E]** |

[R]Revised

[E]Estimated

FIGURE 13

# LOUISIANA WELL COMPLETIONS BY TYPE

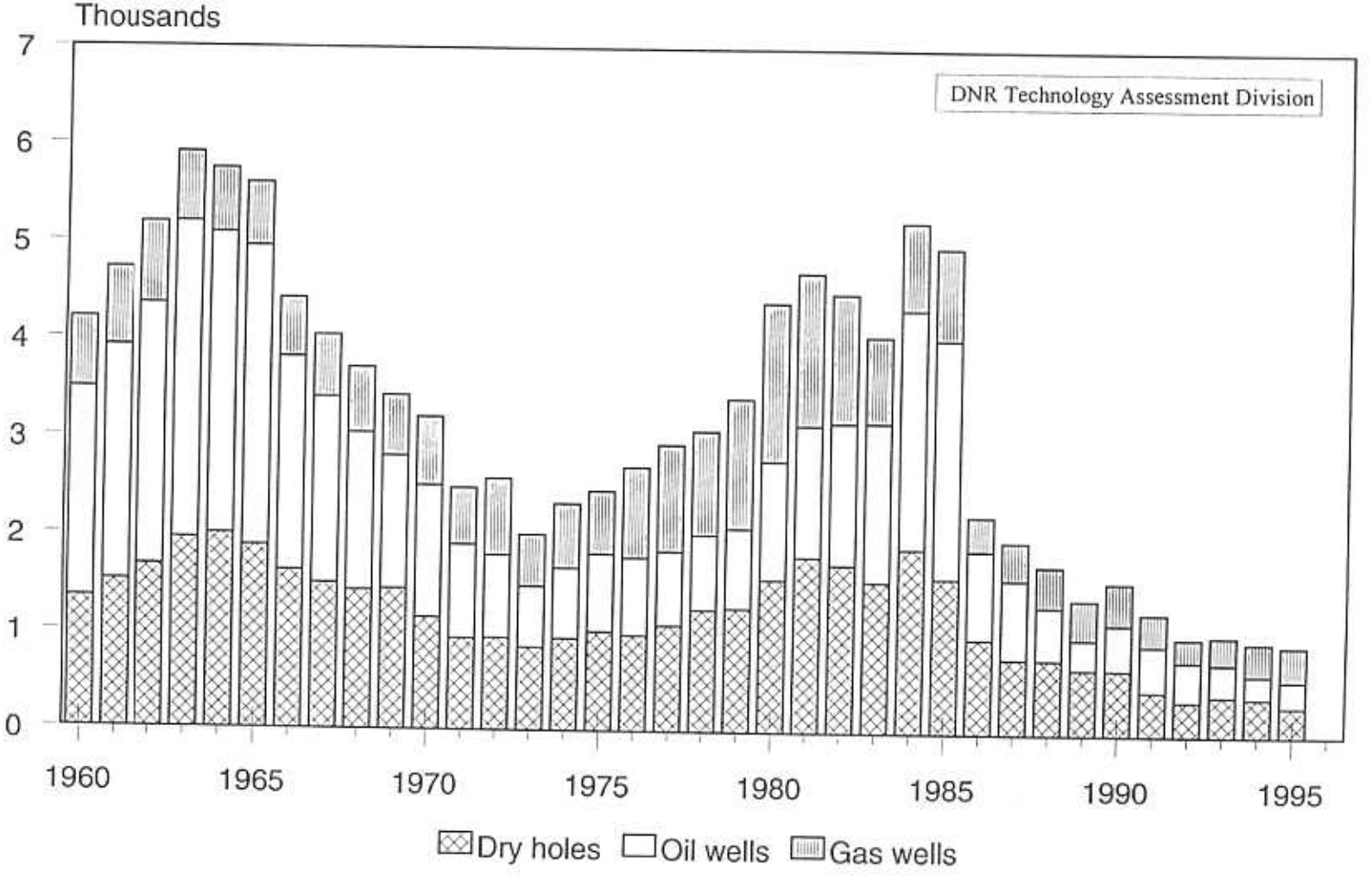


TABLE 23

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

| | YEAR | OFFSHORE | SOUTH | NORTH | TOTAL |
|---|---|---|---|---|---|
| CRUDE OIL | 1979 | 28 | 244 | 552 | 824 |
| | 1980 | 20 | 272 | 926 | 1,218 |
| | 1981 | 18 | 296 | 977 | 1,291 |
| | 1982 | 13 | 305 | 1,137 | 1,455 |
| | 1983 | 22 | 315 | 1,290 | 1,627 |
| | 1984 | 89 | 440 | 1,926 | 2,455 |
| | 1985 | 27 | 448 | 1,965 | 2,440 |
| | 1986 | 24 | 241 | 640 | 905 |
| | 1987 | 21 | 348 | 434 | 803 |
| | 1988 | 11 | 211 | 312 | 534 |
| | 1989 | 7 | 126 | 170 | 303 |
| | 1990 | 9 | 164 | 288 | 461 |
| | 1991 | 22 | 178 | 266 | 466 |
| | 1992 | 19 | 163 | 222 | 404 |
| | 1993 | 24 | 136 | 173 | 333 |
| | 1994 | 13 | 103[R] | 117[R] | 233[R] |
| | 1995 | 31 | 100 | 136 | 267 |
| NATURAL GAS | 1979 | 30 | 312 | 989 | 1,331 |
| | 1980 | 40 | 282 | 1,301 | 1,623 |
| | 1981 | 31 | 314 | 1,167 | 1,512 |
| | 1982 | 50 | 331 | 944 | 1,325 |
| | 1983 | 25 | 224 | 635 | 884 |
| | 1984 | 28 | 240 | 628 | 896 |
| | 1985 | 28 | 240 | 678 | 946 |
| | 1986 | 9 | 145 | 198 | 352 |
| | 1987 | 5 | 124 | 264 | 393 |
| | 1988 | 11 | 149 | 258 | 418 |
| | 1989 | 17 | 132 | 254 | 403 |
| | 1990 | 11 | 157 | 258 | 426 |
| | 1991 | 9 | 126 | 192 | 327 |
| | 1992 | 8 | 111 | 113 | 232 |
| | 1993 | 6 | 89 | 176 | 271 |
| | 1994 | 9[R] | 141[R] | 180[R] | 330[R] |
| | 1995 | 8 | 125 | 214 | 347 |
| DRY HOLE | 1979 | 36 | 643 | 575 | 1,254 |
| | 1980 | 51 | 682 | 822 | 1,555 |
| | 1981 | 52 | 842 | 869 | 1,763 |
| | 1982 | 38 | 696 | 978 | 1,712 |
| | 1983 | 52 | 575 | 915 | 1,542 |
| | 1984 | 41 | 734 | 1,106 | 1,881 |
| | 1985 | 37 | 571 | 974 | 1,582 |
| | 1986 | 17 | 442 | 503 | 962 |
| | 1987 | 14 | 302 | 435 | 766 |
| | 1988 | 17 | 325 | 418 | 760 |
| | 1989 | 13 | 281 | 373 | 667 |
| | 1990 | 15 | 283 | 366 | 664 |
| | 1991 | 11 | 205 | 228 | 444 |
| | 1992 | 5 | 158 | 190 | 353 |
| | 1993 | 4 | 172 | 34 | 405 |
| | 1994 | 12[R] | 141 | 236[R] | 389 |
| | 1995 | 8 | 138 | 156 | 302 |

[R]Revised

TABLE 24

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

| DATE | OIL | GAS | PLANT LIQUIDS | OTHERS | TOTAL |
|---|---|---|---|---|---|
| 1975 | 105.27 | 49.08 | 6.20 | 2.30 | 162.84 |
| 1976 | 98.17 | 60.76 | 7.37 | 2.74 | 169.04 |
| 1977 | 90.98 | 74.69 | 9.36 | 2.86 | 177.89 |
| 1978 | 92.61 | 92.14 | 8.76 | 2.39 | 195.90 |
| 1979 | 98.30 | 113.65 | 11.50 | 3.36 | 226.82 |
| 1980 | 158.27 | 131.95 | 17.05 | 3.34 | 310.61 |
| 1981 | 291.90 | 160.24 | 18.20 | 3.28 | 473.62 |
| 1982 | 248.44 | 204.25 | 14.35 | 1.82 | 468.86 |
| 1983 | 224.62 | 211.84 | 13.00 | 1.83 | 451.29 |
| 1984 | 226.64 | 210.99 | 13.06 | 2.29 | 452.98 |
| 1985 | 201.14 | 174.45 | 9.55 | 2.62 | 387.76 |
| 1986 | 122.22 | 154.83 | 6.34 | 1.96 | 285.34 |
| 1987 | 125.72 | 120.54 | 4.90 | 1.60 | 252.76 |
| 1988 | 98.55 | 124.06[R] | 4.39 | 1.35 | 228.35[R] |
| 1989 | 112.30 | 116.18 | 3.92 | 1.42 | 233.82 |
| 1990 | 135.44[R] | 113.14[R] | 3.80[R] | 0.90 | 253.28[R] |
| 1991 | 120.49 | 91.43 | 4.08[R] | 0.34 | 216.34[R] |
| 1992 | 113.29[R] | 97.07[R] | 4.69[R] | 0.00 | 215.04[R] |
| 1993 | 98.98 | 123.30[R] | 4.52[R] | 0.00 | 226.81[R] |
| January | 6.26 | 9.54[R] | 0.25 | 0.00 | 16.05[R] |
| February | 5.49[R] | 10.22[R] | 0.22 | 0.00 | 15.93[R] |
| March | 6.12 | 10.80[R] | 0.29 | 0.00 | 17.21[R] |
| April | 6.89[R] | 8.96[R] | 0.31 | 0.00 | 16.16[R] |
| May | 7.86 | 9.44[R] | 0.38[R] | 0.00 | 17.67[R] |
| June | 7.71 | 8.14[R] | 0.34[R] | 0.00 | 16.19[R] |
| July | 8.03[R] | 8.77[R] | 0.34 | 0.00 | 17.14[R] |
| August | 7.50[R] | 7.97[R] | 0.40[R] | 0.00 | 15.86[R] |
| September | 7.04[R] | 6.48[R] | 0.37[R] | 0.00 | 13.89[R] |
| October | 7.52[R] | 6.46[R] | 0.41 | 0.00 | 14.39[R] |
| November | 7.65[R] | 7.29[R] | 0.32 | 0.00 | 15.26[R] |
| December | 7.37[R] | 7.66[R] | 0.39[R] | 0.00 | 15.42[R] |
| **1994 Total** | **85.43[R]** | **101.72[R]** | **4.02[R]** | **0.00** | **191.17[R]** |
| January | 7.69 | 7.13 | 0.26 | 0.00 | 15.08 |
| February | 6.99 | 5.96 | 0.25 | 0.00 | 13.21 |
| March | 7.65 | 7.63 | 0.38 | 0.00 | 15.66 |
| April | 8.19 | 7.49 | 0.42 | 0.00 | 16.11 |
| May | 8.20 | 7.12 | 0.36 | 0.00 | 15.68 |
| June | 7.65 | 7.05 | 0.39 | 0.00 | 15.09 |
| July | 7.64 | 6.85 | 0.39 | 0.00 | 14.88 |
| August | 7.70 | 6.40 | 0.43 | 0.00 | 14.53 |
| September | 7.89 | 7.10 | 0.41 | 0.00 | 15.40 |
| October | 7.35 | 7.42 | 0.41 | 0.00 | 15.18 |
| November | 7.90 | 14.63 | 0.39 | 0.00 | 22.92 |
| December | 7.49 | 10.45 | 0.37 | 0.00 | 18.31 |
| **1995 Total** | **92.35** | **95.23** | **4.47** | **0.00** | **192.05** |

Note: Settlements of past due royalty are included in the year that payments are received.

Other minerals include: sulfur, salt, lignite, etc.

[R]Revised

TABLE 25

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

| DATE | OIL (Barrels) | GAS (MCF) | PLANT LIQUIDS (Barrels) |
|---|---|---|---|
| 1975 | 17,919,284 | 156,334,125 | 22,743,609 |
| 1976 | 16,605,787 | 158,762,651 | 16,037,639 |
| 1977 | 14,009,689 | 140,654,808 | 1,276,959 |
| 1978 | 12,727,995 | 136,457,323 | 1,120,660 |
| 1979 | 11,184,340 | 123,983,451 | 1,096,427 |
| 1980 | 10,156,242 | 111,210,699 | 1,017,183 |
| 1981 | 9,460,901 | 100,944,844 | 966,222 |
| 1982 | 8,756,198 | 95,448,648 | 808,946 |
| 1983 | 8,956,936 | 88,029,268 | 694,641 |
| 1984 | 8,786,732 | 86,315,477 | 944,965 |
| 1985 | 8,404,223 | 76,612,605 | 845,349 |
| 1986 | 8,859,310 | 81,463,285 | 1,751,664 |
| 1987 | 8,040,773 | 78,166,315 | 511,790 |
| 1988 | 7,544,770 | 69,991,244 | 456,976 |
| 1989 | 7,184,774 | 69,936,929 | 461,237 |
| 1990 | 6,781,765[R] | 66,417,089[R] | 348,776 |
| 1991 | 6,923,565 | 61,809,109[R] | 933,307[R] |
| 1992 | 6,837,552[R] | 57,911,258[R] | 1,689,942[R] |
| 1993 | 6,723,628[R] | 61,177,002[R] | 652,617[R] |
| January | 538,763[R] | 5,079,099[R] | 23,639[R] |
| February | 480,991[R] | 4,414,017[R] | 30,406[R] |
| March | 529,666[R] | 4,633,707[R] | 41,258[R] |
| April | 532,239[R] | 4,461,999[R] | 44,294[R] |
| May | 559,670[R] | 4,517,243[R] | 47,104[R] |
| June | 510,864[R] | 4,421,042[R] | 45,128[R] |
| July | 525,955[R] | 4,605,276[R] | 46,086[R] |
| August | 525,852[R] | 4,551,082[R] | 56,377[R] |
| September | 504,075[R] | 4,363,022[R] | 37,048[R] |
| October | 532,865[R] | 4,503,856[R] | 53,155[R] |
| November | 523,080[R] | 4,392,285[R] | 58,764[R] |
| December | 532,313[R] | 4,513,288[R] | 53,115[R] |
| **1994 Total** | **6,296,331[R]** | **54,455,916[R]** | **536,374[R]** |
| January | 523,530 | 4,341,735 | 37,282 |
| February | 461,367 | 3,979,499 | 32,854 |
| March | 521,882 | 4,903,102 | 49,904 |
| April | 507,334 | 4,522,983 | 60,486 |
| May | 526,024 | 4,372,268 | 48,597 |
| June | 522,319 | 4,420,931 | 45,833 |
| July | 549,906 | 5,495,482 | 171,679 |
| August | 515,829 | 4,752,198 | 114,792 |
| September | 533,285 | 4,618,764 | 147,847 |
| October | 518,231 | 4,512,962 | 102,736 |
| November | 530,674 | 4,600,510 | 44,300 |
| December | 469,272 | 5,643,630 | 38,689 |
| **1995 Total** | **6,179,655** | **56,164,063** | **894,998** |

[R]Revised

TABLE 26

## LOUISIANA STATE MINERAL BONUSES, RENTALS AND ROYALTY OVERRIDE REVENUES
**Excluding OCS**
**(Million Dollars)**

| DATE | BONUSES | OVERRIDE ROYALTY | RENTALS | TOTAL |
|---|---|---|---|---|
| 1975 | 27.96 | 0.00 | 4.39 | 32.35 |
| 1976 | 56.02 | 0.02 | 6.00 | 62.04 |
| 1977 | 19.16 | 0.27 | 12.25 | 31.68 |
| 1978 | 97.58 | 0.48 | 15.61 | 113.67 |
| 1979 | 108.67 | 0.33 | 22.19 | 131.18 |
| 1980 | 140.29 | 0.51 | 31.55 | 172.36 |
| 1981 | 150.70 | 0.81 | 49.31 | 200.82 |
| 1982 | 61.23 | 0.70 | 53.66 | 115.60 |
| 1983 | 53.03 | 0.67 | 27.73 | 81.43 |
| 1984 | 67.98 | 0.80 | 21.21 | 89.99 |
| 1985 | 32.08 | 0.90 | 20.86 | 53.84 |
| 1986 | 15.89 | 0.50 | 12.25 | 28.64 |
| 1987 | 26.82 | 0.39 | 6.70 | 33.90 |
| 1988 | 17.65 | 0.29 | 9.28 | 27.22 |
| 1989 | 11.59 | 0.29 | 8.34 | 20.21 |
| 1990 | 19.02 | 0.32 | 6.76 | 26.10 |
| 1991 | 9.82 | 0.32 | 8.71 | 18.85 |
| 1992 | 4.26 | 0.32 | 6.97 | 11.55 |
| 1993 | 13.29 | 0.20 | 4.20 | 17.68 |
| January | 1.11 | 0.02 | 0.04 | 1.16 |
| February | 0.53 | 0.01 | 0.20 | 0.75 |
| March | 0.48 | 0.01 | 0.65 | 1.15 |
| April | 0.83 | 0.02 | 0.88 | 1.73 |
| May | 0.00 | 0.02 | 0.53 | 0.55 |
| June | 0.42 | 0.02 | 0.64 | 1.08 |
| July | 2.59 | 0.02 | 0.61 | 3.22 |
| August | 1.81 | 0.02 | 0.00 | 1.82 |
| September | 1.15 | 0.01 | 0.95 | 2.10 |
| October | 4.44 | 0.02 | 0.45 | 4.91 |
| November | 0.74 | 0.03 | 1.19 | 1.95 |
| December | 1.21 | 0.02 | 0.00 | 1.23 |
| **1994 Total** | **15.31** | **0.19** | **6.15** | **21.65** |
| January | 0.00 | 0.03 | 1.36 | 1.40 |
| February | 4.83 | 0.01 | 0.00 | 4.85 |
| March | 1.93 | 0.02 | 0.36 | 2.31 |
| April | 2.48 | 0.01 | 0.67 | 3.16 |
| May | 4.45 | 0.02 | 0.22 | 4.69 |
| June | 0.08 | 0.57 | 0.60 | 1.25 |
| July | 0.82 | 0.02 | 1.24 | 2.08 |
| August | 3.12 | 0.00 | 0.66 | 3.78 |
| September | 1.37 | 0.00 | 0.54 | 1.91 |
| October | 4.65 | 0.00 | 2.75 | 7.40 |
| November | 6.01 | 0.00 | 0.00 | 6.01 |
| December | 2.23 | 0.00 | 1.05 | 3.29 |
| **1995 Total** | **31.96** | **0.69** | **9.47** | **42.12** |

TABLE 27

## FEDERAL REVENUE FROM LOUISIANA OCS OIL AND GAS LEASES
(Dollars)

| YEAR | BONUS PAYMENTS[12] | RENTAL PAYMENTS[12] | MINIMUM ROYALTIES[12] | PRODUCTION ROYALTIES[12] | STATE 8G SHARE[15] |
|---|---|---|---|---|---|
| 1960 | 246,909,784 | 2,422,790 | 299,695 | 36,807,678 | N/A |
| 1961 | 0 | 1,984,441 | 291,790 | 46,733,742 | N/A |
| 1962 | 488,923,341 | 7,707,267 | 497,202 | 65,253,373 | N/A |
| 1963 | 0 | 7,059,246 | 632,376 | 75,347,238 | N/A |
| 1964 | 60,340,626 | 7,040,422 | 823,439 | 112,999,967 | N/A |
| 1965 | 0 | 5,909,553 | 1,021,505 | 126,121,728 | N/A |
| 1966 | 238,958,065 | 4,736,294 | 1,327,830 | 131,253,307 | N/A |
| 1967 | 510,079,178 | 5,500,516 | 1,888,758 | 149,096,032 | N/A |
| 1968 | 149,868,789 | 5,275,979 | 2,140,858 | 190,907,982 | N/A |
| 1969 | 110,945,535 | 5,584,162 | 1,922,340 | 226,504,238 | N/A |
| 1970 | 945,064,773 | 6,243,362 | 1,692,274 | 262,709,833 | N/A |
| 1971 | 96,304,523 | 5,687,848 | 1,564,845 | 324,815,819 | N/A |
| 1972 | 2,251,347,556 | 6,396,291 | 1,725,573 | 342,476,302 | N/A |
| 1973 | 193,031,709 | 5,272,797 | 2,005,785 | 380,509,177 | N/A |
| 1974 | 3,528,744,084 | 8,350,760 | 1,739,159 | 535,836,029 | N/A |
| 1975 | 325,424,688 | 8,947,571 | 1,837,253 | 593,359,397 | N/A |
| 1976 | 482,592,035 | 12,974,770 | 1,879,704 | 682,922,971 | N/A |
| 1977 | 813,991,004 | 7,740,185 | 1,248,616 | 899,016,863 | N/A |
| 1978 | 1,015,873,944 | 8,616,027 | 1,502,963 | 1,086,517,424 | N/A |
| 1979 | 2,521,190,635 | 7,328,999 | 1,105,865 | 1,344,995,442 | N/A |
| 1980 | 2,676,927,673 | 7,361,904 | 1,277,987 | 1,866,737,837 | N/A |
| 1981 | 3,308,009,881 | 8,205,515 | 1,211,959 | 2,825,271,285 | N/A |
| 1982 | 1,110,172,751 | 7,288,316 | 1,349,850 | 3,166,294,042 | N/A |
| 1983 | 3,796,644,766 | 13,620,158 | 2,540,294 | 2,764,348,600 | N/A |
| 1984 | 1,154,495,009 | 16,323,567 | 2,010,462 | 3,195,995,282 | N/A |
| 1985 | 830,710,260 | 33,756,447 | 2,139,530 | 2,940,519,737 | N/A |
| 1986 | 113,731,609 | 34,110,029 | 3,199,547 | 2,006,205,199 | 68,699,504 |
| 1987 | 247,344,486 | 52,115,828 | 19,239,027 | 1,803,208,740 | 588,862,212 |
| 1988 | 388,730,457 | 35,752,757 | 8,727,373 | 1,571,981,500 | 16,909,646 |
| 1989 | 386,710,637 | 48,498,402 | 26,261,190 | 1,618,163,065 | 12,749,220 |
| 1990 | 421,375,632 | 55,568,777 | 16,028,740 | 2,068,487,831 | 14,759,941 |
| 1991 | 276,234,849 | 59,126,732 | 15,444,167 | 1,857,392,914 | 13,505,179 |
| 1992 | 53,716,797 | 49,087,621 | 33,533,897 | 1,848,599,157 | 13,734,055 |
| 1993 | 61,454,861 | 29,268,366[R] | 119,445,091 | 2,009,644,653 | 14,451,304[R] |
| 1994 | 274,335,726 | 30,003,884 | 141,190,812 | 1,878,458,741 | 20,591,546 |

[R]Revised

See footnotes in Appendix A.

See Appendix E.

TABLE 28

## LOUISIANA STATE MINERAL SEVERANCE TAX REVENUE[8]
**Excluding OCS**
**(Million Dollars)**

| DATE | OIL | GAS | OTHER MINERALS | SEVERANCE TOTAL |
|---|---|---|---|---|
| 1975 | 278.77 | 234.34 | N/A | 513.10 |
| 1976 | 273.71 | 216.76 | N/A | 490.47 |
| 1977 | 261.91 | 206.88 | N/A | 468.79 |
| 1978 | 264.19 | 195.52 | N/A | 459.71 |
| 1979 | 276.40 | 186.87 | N/A | 463.27 |
| 1980 | 427.68 | 161.87 | N/A | 589.55 |
| 1981 | 815.38 | 164.07 | N/A | 979.44 |
| 1982 | 766.49 | 147.53 | N/A | 914.02 |
| 1983 | 662.00 | 131.52 | 2.45 | 795.98 |
| 1984 | 652.39 | 130.99 | 3.62 | 787.00 |
| 1985 | 598.67 | 120.96 | 3.73 | 723.37 |
| 1986 | 389.87 | 125.14 | 3.42 | 518.42 |
| 1987 | 345.18 | 111.84 | 2.99 | 460.01 |
| 1988 | 296.45 | 106.29 | 2.65 | 405.39 |
| 1989 | 312.99 | 108.84 | 2.43 | 424.26 |
| 1990 | 373.21 | 124.61 | 2.75 | 500.58 |
| 1991 | 367.13 | 146.83 | 1.97 | 515.93 |
| 1992 | 326.07 | 126.24 | 1.63 | 453.94 |
| 1993 | 283.68 | 107.32 | 1.76 | 392.76 |
| January | 17.52 | 9.26 | 0.14 | 26.92 |
| February | 17.48 | 9.05 | 0.15 | 26.68 |
| March | 16.55 | 9.67 | 0.17 | 26.39 |
| April | 14.56 | 8.47 | 0.15 | 23.18 |
| May | 20.76 | 9.24 | 0.20 | 30.20 |
| June | 21.33 | 9.01 | 0.22 | 30.56 |
| July | 20.42 | 9.21 | 0.13 | 29.76 |
| August | 21.77 | 10.11 | 0.20 | 32.07 |
| September | 20.91 | 10.63 | 0.16 | 31.70 |
| October | 18.03 | 9.78 | 0.15 | 27.96 |
| November | 19.00 | 9.92 | 0.15 | 29.06 |
| December | 21.08 | 10.24 | 0.19 | 31.51 |
| **1994 Total** | **229.40** | **114.58** | **2.02** | **346.00** |
| January | 19.28 | 9.74 | 0.15 | 29.17 |
| February | 18.69 | 10.22 | 0.14 | 29.04 |
| March | 18.99 | 9.51 | 0.14 | 28.64 |
| April | 20.69 | 9.31 | 0.15 | 30.15 |
| May | 19.42 | 10.50 | 0.15 | 30.07 |
| June | 23.88 | 10.16 | 0.25 | 34.29 |
| July | 19.08 | 9.18 | 0.11 | 28.37 |
| August | 18.80 | 9.20 | 0.21 | 28.21 |
| September | 18.31 | 8.32 | 0.15 | 26.78 |
| October | 18.90 | 7.72 | 0.13 | 26.75 |
| November | 17.03 | 7.35 | 0.13 | 24.51 |
| December | 20.31 | 13.37 | 0.16 | 33.84 |
| **1995 Total** | **233.37** | **114.58** | **1.85** | **349.80** |

Note: Forest and shell severance are not included in the above totals.

Other minerals include sulfur, salt, lignite, etc.

See footnotes in Appendix A.

TABLE 29

## LOUISIANA STATE OIL SEVERANCE TAX VOLUMES[8]
## CRUDE OIL AND CONDENSATE
### Excluding OCS
### (Barrels)

| DATE | FULL RATE | INCAPABLE WELL RATE | STRIPPER WELL RATE | TAXED VOLUME |
|---|---|---|---|---|
| 1975 | 331,502,123 | 2,352,082 | 6,624,508 | 340,478,712 |
| 1976 | 300,896,349 | 2,191,464 | 8,064,555 | 311,152,365 |
| 1977 | 272,300,080 | 2,536,223 | 7,806,470 | 282,642,770 |
| 1978 | 247,355,532 | 2,494,756 | 7,797,695 | 257,647,988 |
| 1979 | 216,097,568 | 2,768,062 | 7,726,193 | 226,591,822 |
| 1980 | 192,285,668 | 2,521,676 | 7,679,875 | 202,487,219 |
| 1981 | 193,725,528 | 2,579,437 | 9,072,057 | 205,377,024 |
| 1982 | 180,197,905 | 2,955,008 | 9,103,966 | 192,301,881 |
| 1983 | 172,094,095 | 2,884,691 | 9,731,435 | 184,710,221 |
| 1984 | 171,425,402 | 3,099,053 | 9,830,262 | 184,354,717 |
| 1985 | 173,545,432 | 3,110,740 | 10,513,745 | 187,169,920 |
| 1986 | 180,108,437 | 3,208,451 | 10,059,344 | 193,376,232 |
| 1987 | 155,987,737 | 3,201,095 | 8,809,543 | 168,015,044 |
| 1988 | 142,605,746 | 3,288,994 | 8,242,330 | 154,150,151 |
| 1989 | 139,442,253 | 3,265,429 | 7,429,510 | 150,165,554 |
| 1990 | 131,140,448 | 3,274,774 | 7,154,125 | 141,577,610 |
| 1991 | 136,212,521 | 3,888,128 | 8,112,117 | 148,220,451 |
| 1992 | 133,399,849 | 3,665,298 | 7,718,696 | 144,836,355 |
| 1993 | 128,699,431 | 3,514,500 | 7,240,065 | 139,453,996 |
| January | 10,583,200 | 308,720 | 479,422 | 11,371,342 |
| February | 10,425,617 | 329,239 | 576,018 | 11,330,874 |
| March | 9,648,628 | 260,697 | 488,157 | 10,397,482 |
| April | 8,740,913 | 189,826 | 462,695 | 9,393,434 |
| May | 11,412,862 | 391,111 | 655,935 | 12,459,907 |
| June | 10,270,926 | 275,388 | 507,751 | 11,054,065 |
| July | 9,419,679 | 309,311 | 564,559[E] | 10,293,548[E] |
| August | 9,745,497 | 325,978 | 630,470[E] | 10,701,946[E] |
| September | 9,884,973 | 361,526 | 578,190[E] | 10,824,689[E] |
| October | 8,981,372 | 272,613 | 547,654[E] | 9,801,639[E] |
| November | 9,379,818 | 386,916 | 592,492[E] | 10,359,226[E] |
| December | 9,616,471 | 356,747 | 530,823[E] | 10,504,042[E] |
| **1994 Total** | **118,109,958** | **3,768,072** | **6,614,164[E]** | **128,492,194[E]** |
| January | 9,523,511 | 344,018 | 563,195[E] | 10,430,724[E] |
| February | 8,699,191 | 346,399 | 548,290[E] | 9,593,880[E] |
| March | 8,816,420 | 318,434 | 552,278[E] | 9,687,132[E] |
| April | 9,560,173 | 428,583 | 584,300[E] | 10,573,056[E] |
| May | 8,328,874 | 322,278 | 527,115[E] | 9,178,267[E] |
| June | 10,331,988 | 320,293 | 469,578[E] | 11,121,859[E] |
| July | 8,758,172 | 300,794 | 583,866[E] | 9,642,831[E] |
| August | 9,453,756 | 354,091 | 481,179[E] | 10,289,026[E] |
| September | 8,797,977 | 291,301 | 572,427[E] | 9,661,706[E] |
| October | 8,922,877 | 365,725 | 532,818[E] | 9,821,420[E] |
| November | 8,404,203 | 454,695 | 551,484[E] | 9,410,381[E] |
| December | 8,776,772 | 393,106 | 495,117[E] | 9,664,995[E] |
| **1995 Total** | **108,373,913** | **4,239,717** | **6,461,646[E]** | **119,075,276[E]** |

[E]Estimated

See footnotes in Appendix A.

TABLE 30

## LOUISIANA STATE GAS SEVERANCE TAX VOLUMES[8]
## NATURAL GAS AND CASINGHEAD GAS
### Excluding OCS
### (Thousand Cubic Feet (MCF), at 15.025 psia and 60 degrees Fahrenheit)

| DATE | FULL RATE | INCAPABLE GAS WELL RATE | OTHER RATES | TOTAL TAXED GAS VOLUME |
|---|---|---|---|---|
| 1975 | 3,265,635,082 | 49,638,433 | 144,857,574 | 3,460,131,089 |
| 1976 | 3,055,617,983 | 50,386,997 | 67,782,556 | 3,173,787,536 |
| 1977 | 2,950,831,436 | 52,271,169 | N/A | 3,003,102,605 |
| 1978 | 2,766,602,076 | 57,431,282 | 28,997,865 | 2,853,031,223 |
| 1979 | 2,648,241,341 | 61,371,377 | 27,915,984 | 2,737,528,702 |
| 1980 | 2,287,994,563 | 64,299,362 | 25,614,034 | 2,378,154,110 |
| 1981 | 2,259,226,741 | 69,127,132 | 27,821,281 | 2,356,175,154 |
| 1982 | 2,040,417,849 | 67,415,215 | 23,885,266 | 2,131,718,329 |
| 1983 | 1,830,549,223 | 66,037,859 | 20,750,463 | 1,917,337,545 |
| 1984 | 1,849,689,870 | 61,394,328 | 22,460,870 | 1,933,548,068 |
| 1985 | 1,710,600,175 | 56,471,054 | 22,020,986 | 1,789,092,195 |
| 1986 | 1,748,310,878 | 56,729,077 | 22,829,692 | 1,827,869,647 |
| 1987 | 1,577,841,418 | 56,316,278 | 20,374,445 | 1,654,532,141 |
| 1988 | 1,487,438,834 | 54,709,819 | 22,370,768 | 1,564,519,421 |
| 1989 | 1,529,057,929 | 54,419,642 | 31,800,386 | 1,615,277,957 |
| 1990 | 1,525,451,737 | 53,547,797 | 19,438,902 | 1,598,438,436 |
| 1991 | 1,492,986,396 | 52,500,178 | 35,820,609 | 1,581,307,183 |
| 1992 | 1,499,489,622 | 55,146,661 | 25,466,874 | 1,580,103,157 |
| 1993 | 1,463,723,027 | 46,017,071 | 13,839,450 | 1,523,579,548 |
| January | 122,118,597 | 3,929,445 | 1,168,447 | 127,216,489 |
| February | 112,281,660 | 4,548,249 | 933,374 | 117,763,283 |
| March | 126,753,186 | 4,983,653 | 1,169,023 | 132,905,862 |
| April | 107,259,226 | 3,854,448 | 821,149 | 111,934,823 |
| May | 121,376,830 | 3,767,657 | 1,239,088 | 126,383,575 |
| June | 118,512,707 | 5,039,656 | 1,313,289 | 124,865,652 |
| July | 120,435,938 | 3,346,869 | 1,075,257 | 124,858,064 |
| August | 121,204,077 | 4,435,039 | 953,100 | 126,592,216 |
| September | 119,292,467 | 5,262,678 | 1,322,210 | 125,877,355 |
| October | 111,195,100 | 3,661,229 | 1,014,841 | 115,871,170 |
| November | 113,285,285 | 4,670,247 | 1,089,805 | 119,045,337 |
| December | 116,320,649 | 4,918,164 | 1,589,287 | 122,828,100 |
| **1994 Total** | **1,410,035,722** | **52,417,334** | **13,688,870** | **1,476,141,926** |
| January | 111,174,380 | 3,971,991 | 899,651 | 116,046,022 |
| February | 117,156,877 | 4,370,867 | 965,219 | 122,492,963 |
| March | 107,138,043 | 4,340,655 | 1,042,104 | 112,520,802 |
| April | 106,572,453 | 4,619,481 | 785,707 | 111,977,641 |
| May | 119,793,463 | 3,634,107 | 691,900 | 124,119,470 |
| June | 115,960,570 | 4,816,710 | 468,538 | 121,245,818 |
| July | 105,459,075 | 3,929,847 | (117,372) | 109,271,550 |
| August | 116,436,351 | 4,330,206 | 2,360,745 | 123,127,302 |
| September | 114,136,759 | 5,716,618 | 4,272,186 | 124,125,563 |
| October | 108,971,532 | 5,415,851 | 738,482 | 115,125,865 |
| November | 103,407,388 | 3,192,067 | 743,658 | 107,343,113 |
| December | 108,773,996 | 5,153,542 | 908,374 | 114,835,912 |
| **1995 Total** | **1,334,980,887** | **53,491,942** | **13,759,192** | **1,402,232,021** |

See footnotes in Appendix A.

FIGURE 14

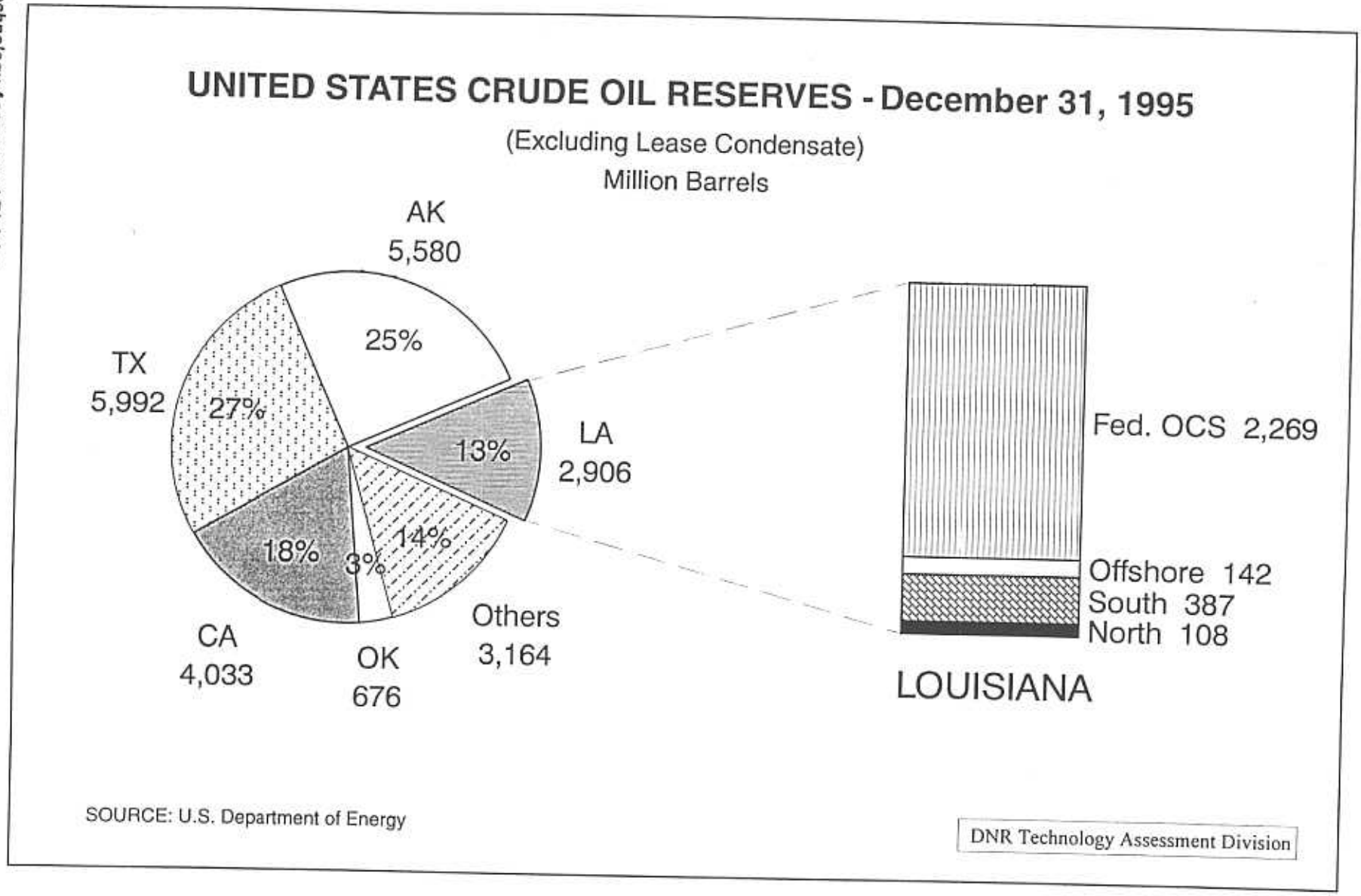

UNITED STATES CRUDE OIL RESERVES - December 31, 1995
(Excluding Lease Condensate)
Million Barrels
AK
5,580
25%
TX
5,992
27%
LA
2,906
13%
18%
3%
14%
CA
4,033
OK
676
Others
3,164
Fed. OCS 2,269
Offshore 142
South 387
North 108
LOUISIANA
SOURCE: U.S. Department of Energy
DNR Technology Assessment Division

TABLE 31

## LOUISIANA ESTIMATED CRUDE OIL PROVED RESERVES[9] EXCLUDING LEASE CONDENSATE

**As of December 31st of Each Year**
**(Million Barrels)**

| YEAR | NORTH | SOUTH ONSHORE | SOUTH OFFSHORE | FEDERAL OCS | TOTAL STATE |
|---|---|---|---|---|---|
| 1977 | 244 | 1,382 | 1,974 | N/A | 3,600 |
| 1978 | 255 | 1,242 | 1,951 | N/A | 3,448 |
| 1979 | 216 | 682 | 1,882 | N/A | 2,780 |
| 1980 | 248 | 682 | 1,821 | N/A | 2,751 |
| 1981 | 317 | 642 | 2,026 | N/A | 2,985 |
| 1982 | 240 | 611 | 1,677 | N/A | 2,528 |
| 1983 | 223 | 569 | 1,915 | N/A | 2,707 |
| 1984 | 165 | 585 | 1,911 | N/A | 2,661 |
| 1985 | 196 | 565 | 122 | 1,759 | 2,642 |
| 1986 | 160 | 547 | 119 | 1,640 | 2,466 |
| 1987 | 175 | 505 | 127 | 1,514 | 2,321 |
| 1988 | 154 | 511 | 135 | 1,527 | 2,327 |
| 1989 | 123 | 479 | 143 | 1,691 | 2,436 |
| 1990 | 120 | 435 | 150 | 1,772 | 2,477 |
| 1991 | 127 | 408 | 144 | 1,775 | 2,454 |
| 1992 | 125 | 417 | 126 | 1,643 | 2,311 |
| 1993 | 108 | 382 | 149 | 1,880 | 2,519 |
| 1994 | 108 | 391 | 150 | 1,922 | 2,571 |
| 1995 | 108[E] | 387[E] | 142[E] | 2,269[E] | 2,906[E] |

NOTE: Federal OCS is included in the south offshore figure from 1977 through 1984.

TABLE 32

## LOUISIANA ESTIMATED LEASE CONDENSATE PROVED RESERVES[9]

**As of December 31st of Each Year**
**(Million Barrels)**

| YEAR | NORTH | SOUTH ONSHORE | SOUTH OFFSHORE | FEDERAL OCS | TOTAL STATE |
|---|---|---|---|---|---|
| 1979 | 42 | 263 | 309 | N/A | 614 |
| 1980 | 36 | 267 | 296 | N/A | 599 |
| 1981 | 36 | 253 | 280 | N/A | 569 |
| 1982 | 26 | 243 | 310 | N/A | 579 |
| 1983 | 24 | 238 | 300 | N/A | 562 |
| 1984 | 19 | 229 | 269 | N/A | 517 |
| 1985 | 18 | 220 | 257 | N/A | 495 |
| 1986 | 18 | 208 | 11 | 230 | 467 |
| 1987 | 17 | 194 | 13 | 223 | 447 |
| 1988 | 17 | 193 | 13 | 223 | 446 |
| 1989 | 20 | 196 | 12 | 278 | 506 |
| 1990 | 20 | 182 | 12 | 258 | 472 |
| 1991 | 21 | 175 | 9 | 253 | 458 |
| 1992 | 19 | 151 | 8 | 226 | 404 |
| 1993 | 19 | 133 | 9 | 235 | 396 |
| 1994 | 21 | 123 | 9 | 233 | 386 |
| 1995 | 21[E] | 150[E] | 9[E] | 237[E] | 417[E] |

NOTE: Federal OCS is included in the south offshore figure from 1979 through 1985.

[E]Estimated

See footnotes in Appendix A.

TABLE 33

## LOUISIANA ESTIMATED DRY NATURAL GAS PROVED RESERVES[9]
### As of December 31st of Each Year
### (Billion Cubic Feet (BCF), at 14.73 psia and 60 degrees Fahrenheit)

| YEAR | NORTH | SOUTH ONSHORE | SOUTH OFFSHORE | FEDERAL OCS | TOTAL STATE |
|---|---|---|---|---|---|
| 1977 | 3,135 | 18,580 | 35,295 | N/A | 57,010 |
| 1978 | 3,203 | 14,755 | 34,767 | N/A | 55,725 |
| 1979 | 2,798 | 13,994 | 33,250 | N/A | 50,042 |
| 1980 | 3,076 | 13,026 | 31,223 | N/A | 47,325 |
| 1981 | 3,270 | 12,645 | 31,462 | N/A | 47,377 |
| 1982 | 2,919 | 11,801 | 30,203* | N/A | 44,923* |
| 1983 | 2,939 | 11,142 | 28,480* | N/A | 42,561* |
| 1984 | 2,494 | 10,331 | 28,574* | N/A | 41,399* |
| 1985 | 2,587 | 9,808 | 1,643 | 26,113* | 40,151* |
| 1986 | 2,515 | 9,103 | 1,312 | 25,454* | 38,384* |
| 1987 | 2,306 | 8,693 | 1,431 | 23,260* | 35,690* |
| 1988 | 2,398 | 8,654 | 1,172 | 23,471* | 35,695* |
| 1989 | 2,652 | 8,645 | 1,219 | 24,187* | 36,703* |
| 1990 | 2,588 | 8,171 | 969 | 22,679* | 34,407* |
| 1991 | 2,384 | 7,504 | 1,024 | 21,611* | 32,523* |
| 1992 | 2,311 | 6,693 | 776 | 19,653* | 29,433* |
| 1993 | 2,325 | 5,932 | 917 | 19,383* | 28,557* |
| 1994 | 2,537 | 6,251 | 960 | 20,835* | 30,583* |
| 1995 | 2,788[E] | 5,648[E] | 838[E] | 21,392[E]* | 30,666[E]* |

NOTE: Federal OCS is included in the south offshore figure from 1977 through 1984.

*Alabama State and Federal Offshore are included.

TABLE 34

## LOUISIANA ESTIMATED NATURAL GAS LIQUIDS PROVED RESERVES[9]
### EXCLUDING LEASE CONDENSATE
### As of December 31st of Each Year
### (Million Barrels)

| YEAR | NORTH | SOUTH ONSHORE | SOUTH OFFSHORE | FEDERAL OCS | TOTAL STATE |
|---|---|---|---|---|---|
| 1979 | 63 | 560 | 373 | N/A | 996 |
| 1980 | 60 | 409 | 356 | N/A | 825 |
| 1981 | 59 | 287 | 431 | N/A | 777 |
| 1982 | 73 | 301 | 374 | N/A | 748 |
| 1983 | 61 | 263 | 409 | N/A | 733 |
| 1984 | 55 | 298 | 462 | N/A | 815 |
| 1985 | 39 | 234 | 420 | N/A | 693 |
| 1986 | 39 | 220 | 28 | 336* | 623 |
| 1987 | 33 | 235 | 33 | 309* | 610 |
| 1988 | 39 | 228 | 27 | 289* | 583 |
| 1989 | 40 | 215 | 39 | 297* | 591 |
| 1990 | 38 | 249 | 37 | 261* | 585 |
| 1991 | 38 | 242 | 41 | 292* | 613 |
| 1992 | 41 | 229 | 47 | 246* | 563 |
| 1993 | 38 | 201 | 21 | 255* | 515 |
| 1994 | 48 | 214 | 19 | 267* | 548 |
| 1995 | 58[E] | 345[E] | 18[E] | 259*[E] | 680[E] |

NOTE: Federal OCS is included in the south offshore figure from 1979 through 1985.

*Alabama State and Federal Offshore are included.

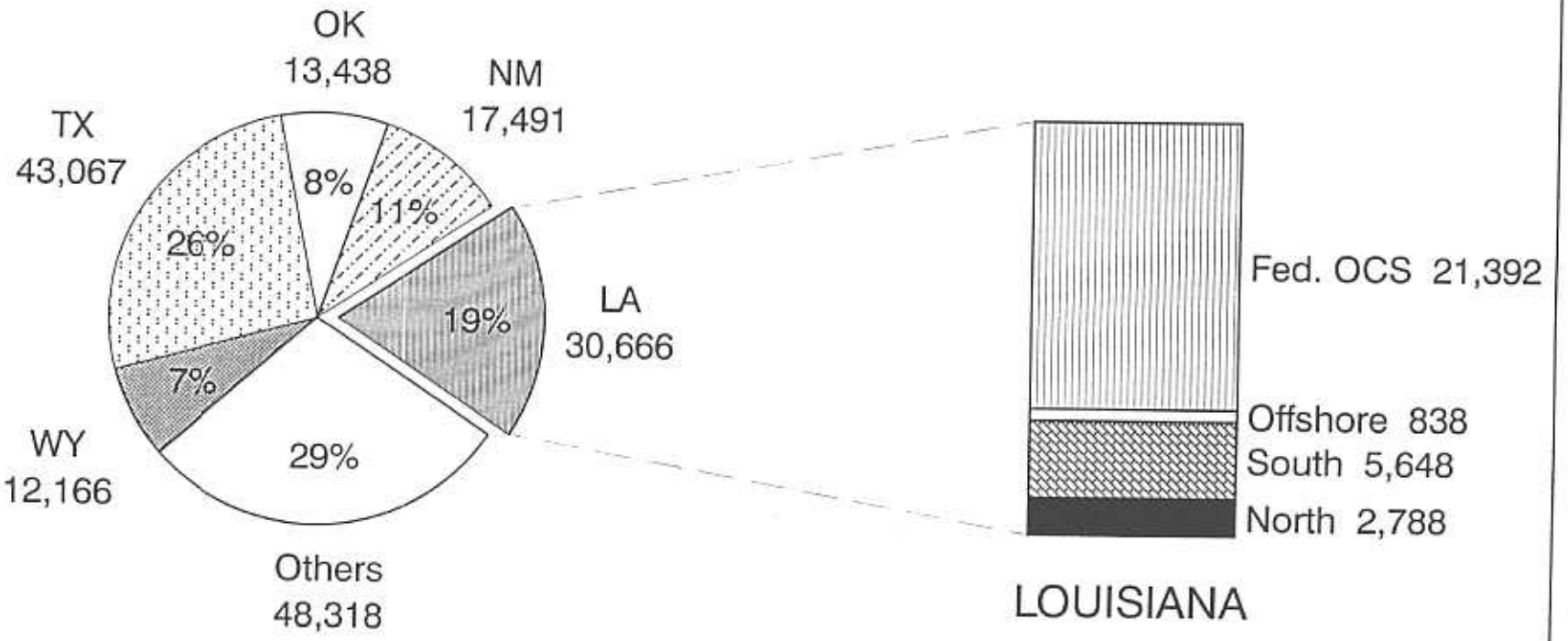
[E]Estimated

See footnotes in Appendix A.

FIGURE 15

## UNITED STATES NATURAL GAS RESERVES - December 31, 1995

Billion Cubic Feet




SOURCE: U.S. Department of Energy

DNR Technology Assessment Division

TABLE 35

## LOUISIANA NONAGRICULTURAL EMPLOYMENT[1]

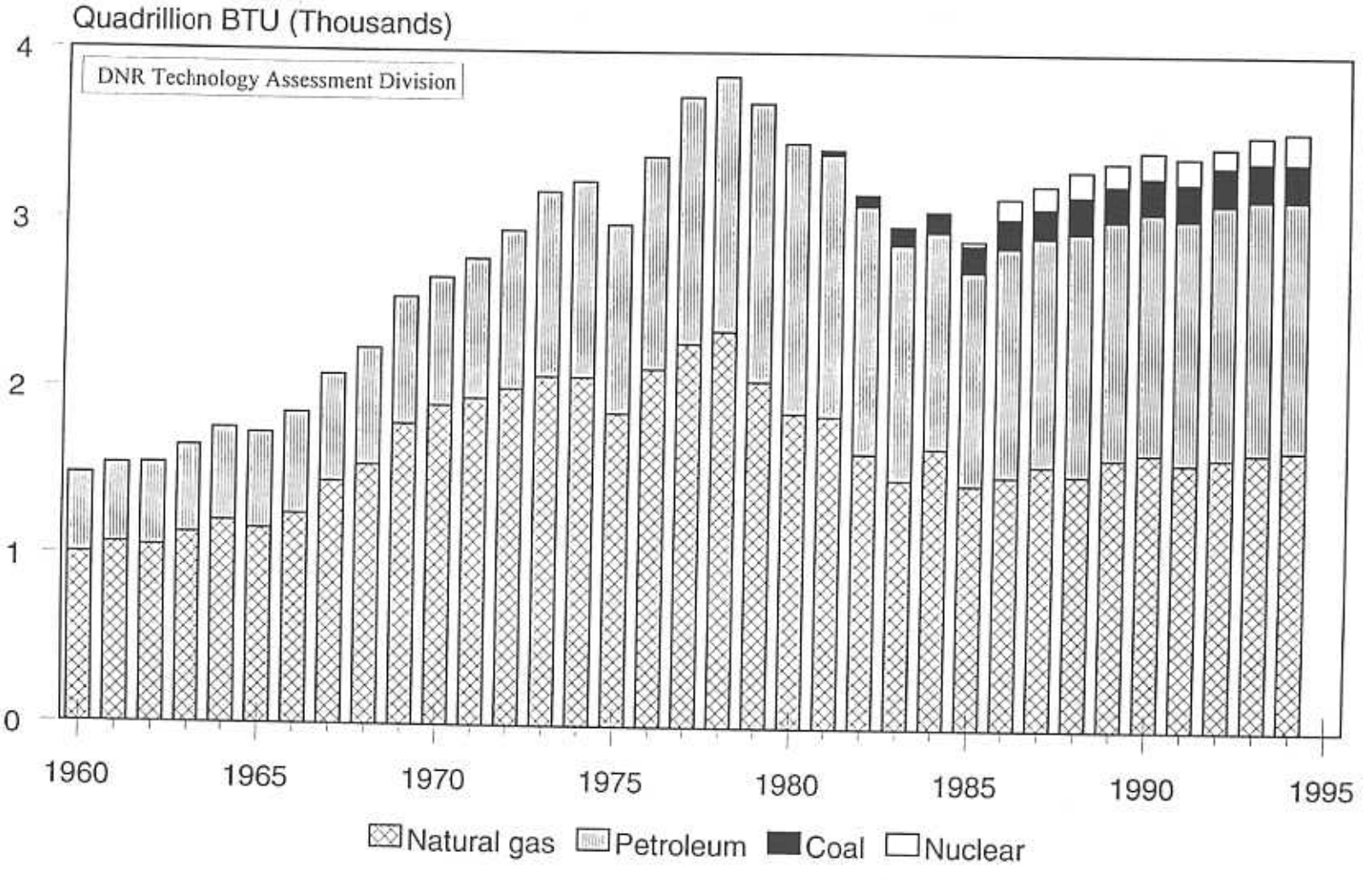
| DATE | OIL & GAS PRODUCTION | CHEMICAL INDUSTRY | OIL REFINING | OIL PIPELINE | TOTAL EMPLOYMENT |
|---|---|---|---|---|---|
| 1975 | 59,950 | 26,419 | 10,570 | 950 | 1,336,000 |
| 1976 | 62,678 | 28,904 | 10,499 | 900 | 1,285,500 |
| 1977 | 64,032 | 30,446 | 10,678 | 900 | 1,444,600 |
| 1978 | 70,678 | 31,627 | 11,599 | 1,000 | 1,509,100 |
| 1979 | 74,017 | 31,831 | 12,608 | 1,100 | 1,554,370 |
| 1980 | 85,778 | 33,490 | 13,287 | 1,200 | 1,599,600 |
| 1981 | 94,772 | 32,711 | 16,314 | 1,200 | 1,627,796 |
| 1982 | 92,225 | 33,984 | 13,111 | 1,033 | 1,571,017 |
| 1983 | 77,283 | 30,272 | 13,140 | 1,282 | 1,531,480 |
| 1984 | 78,032 | 29,104 | 13,053 | 1,247 | 1,568,064 |
| 1985 | 77,781 | 28,093 | 12,458 | 1,144 | 1,550,443 |
| 1986 | 58,888 | 25,998 | 12,233 | 1,168 | 1,475,318 |
| 1987 | 52,117 | 25,345 | 12,225 | 1,051 | 1,438,793 |
| 1988 | 54,565 | 26,957 | 11,258 | 1,039 | 1,468,508 |
| 1989 | 52,509 | 27,717 | 11,321 | 1,016 | 1,492,051 |
| 1990 | 54,063 | 29,083 | 11,535 | 1,041 | 1,546,820 |
| 1991 | 54,412 | 29,412 | 12,268 | 1,073 | 1,566,779 |
| 1992 | 45,869 | 30,349 | 12,543 | 1,095 | 1,583,423 |
| 1993 | 44,422 | 30,419 | 12,728 | 1,078 | 1,613,577 |
| January | 43,388 | 30,118 | 12,783 | 1,047 | 1,619,466 |
| February | 43,321 | 29,972 | 12,837 | 1,033 | 1,630,327 |
| March | 43,379 | 30,115 | 12,903 | 1,020 | 1,645,596 |
| April | 44,269 | 30,003 | 12,864 | 996 | 1,649,891 |
| May | 44,580 | 29,995 | 12,958 | 997 | 1,662,201 |
| June | 44,949 | 30,205 | 13,091 | 1,018 | 1,675,169 |
| July | 45,193 | 30,157 | 13,203 | 1,022 | 1,667,594 |
| August | 45,701 | 30,183 | 13,314 | 1,024 | 1,676,613 |
| September | 45,919 | 30,065 | 13,303 | 1,009 | 1,696,916 |
| October | 45,132 | 29,777 | 13,117 | 999 | 1,700,641 |
| November | 45,424 | 29,784 | 13,146 | 1,004 | 1,709,099 |
| December | 45,154[R] | 29,788 | 12,886 | 1,003 | 1,713,379[R] |
| **1994 Average** | **44,885[R]** | **30,014** | **13,037** | **1,014** | **1,671,087[R]** |
| January | 43,225 | 30,315 | 11,648 | 971 | 1,676,820 |
| February | 43,347 | 30,228 | 11,680 | 945 | 1,685,930 |
| March | 42,865 | 29,821 | 11,793 | 951 | 1,690,662 |
| April | 42,756 | 30,113 | 11,474 | 975 | 1,704,460 |
| May | 43,212 | 30,150 | 11,461 | 967 | 1,722,897 |
| June | 43,939 | 30,332 | 11,586 | 975 | 1,738,463 |
| July | 44,684 | 30,261 | 11,611 | 961 | 1,718,586 |
| August | 44,965 | 30,257 | 11,658 | 917 | 1,724,986 |
| September | 45,173 | 30,124 | 11,615 | 905 | 1,750,250 |
| October | 44,902 | 29,949 | 11,531 | 871 | 1,741,174 |
| November | 44,973 | 30,025 | 11,558 | 867 | 1,745,421 |
| December | 45,608 | 30,177 | 11,617 | 873 | 1,749,996 |
| **1995 Average** | **44,137** | **30,146** | **11,603** | **932** | **1,720,804** |

[R]Revised

See footnotes in Appendix A.

FIGURE 16

# LOUISIANA ENERGY CONSUMPTION BY SOURCE




SOURCE: U.S. Department of Energy

TABLE 36

## LOUISIANA ENERGY CONSUMPTION ESTIMATES BY SOURCE[11]

| YEAR | TOTAL ENERGY (TBTU) | TOTAL NATURAL GAS (BCF) | TOTAL PETROLEUM (MBBLS) | COAL (MST) | NUCLEAR (Million KWH) |
|---|---|---|---|---|---|
| 1960 | 1,469 | 970 | 88,852 | N/A | 0 |
| 1961 | 1,534 | 1,029 | 89,889 | N/A | 0 |
| 1962 | 1,548 | 1,015 | 94,051 | N/A | 0 |
| 1963 | 1,651 | 1,091 | 99,427 | N/A | 0 |
| 1964 | 1,755 | 1,144 | 106,260 | N/A | 0 |
| 1965 | 1,729 | 1,110 | 109,325 | N/A | 0 |
| 1966 | 1,843 | 1,202 | 115,895 | N/A | 0 |
| 1967 | 2,087 | 1,394 | 123,074 | N/A | 0 |
| 1968 | 2,255 | 1,521 | 134,822 | N/A | 0 |
| 1969 | 2,532 | 1,763 | 148,052 | N/A | 0 |
| 1970 | 2,660 | 1,841 | 150,124 | 0 | 0 |
| 1971 | 2,767 | 1,884 | 163,298 | 0 | 0 |
| 1972 | 2,945 | 1,940 | 186,445 | 0 | 0 |
| 1973 | 3,180 | 2,010 | 212,662 | 0 | 0 |
| 1974 | 3,268 | 2,008 | 222,611 | 0 | 0 |
| 1975 | 2,986 | 1,789 | 214,065 | 0 | 0 |
| 1976 | 3,374 | 2,044 | 237,208 | 0 | 0 |
| 1977 | 3,748 | 2,191 | 270,987 | 79 | 0 |
| 1978 | 3,882 | 2,249 | 279,482 | 172 | 0 |
| 1979 | 3,779 | 1,978 | 307,896 | 118 | 0 |
| 1980 | 3,595 | 1,794 | 296,347 | 111 | 0 |
| 1981 | 3,615 | 1,782 | 295,551 | 1,363 | 0 |
| 1982 | 3,369 | 1,556 | 287,818 | 3,724 | 0 |
| 1983 | 3,209 | 1,413 | 276,220 | 6,154 | 0 |
| 1984 | 3,339 | 1,594 | 248,977 | 6,855 | 0 |
| 1985 | 3,121 | 1,386 | 248,327 | 9,217 | 2,457 |
| 1986 | 3,258[R] | 1,439 | 261,600[R] | 10,459 | 10,637 |
| 1987 | 3,341[R] | 1,501 | 258,375[R] | 10,391 | 12,324 |
| 1988 | 3,371[R] | 1,446 | 272,690[R] | 12,848 | 13,785 |
| 1989 | 3,468[R] | 1,538 | 267,179[R] | 12,471 | 12,391 |
| 1990 | 3,612[R] | 1,571 | 269,560[R] | 12,547 | 14,197 |
| 1991 | 3,540[R] | 1,508 | 264,867[R] | 12,965 | 13,956 |
| 1992 | 3,625[R] | 1,546 | 275,075[R] | 13,674 | 10,356 |
| 1993 | 3,674[R] | 1,578[R] | 275,816[R] | 13,676 | 14,398 |
| 1994 | 3,817 | 1,624 | 296,672 | 14,100 | 12,779 |

TBTU = Trillion BTU
BCF = Billion Cubic Feet
KWH = Kilowatt-hours
MBBLS = Thousand Barrels
MST = Thousand Short Tons

[R]Revised

See footnotes in Appendix A.

TABLE 37

## LOUISIANA REFINERY STATISTICS

| DATE | AVERAGE STOCK ON HAND (Barrels) | DAILY AVERAGE RUNS TO STILL (Barrels) | LICENSED REFINERIES |
|---|---|---|---|
| 1975 | 8,842,871 | 1,517,909 | 20 |
| 1976 | 11,114,424 | 1,681,034 | 21 |
| 1977 | 13,978,218 | 1,890,650 | 23 |
| 1978 | 13,509,825 | 1,857,223 | 25 |
| 1979 | 13,525,870 | 1,905,514 | 29 |
| 1980 | 16,403,667 | 1,781,168 | 32 |
| 1981 | 14,207,520 | 1,727,400 | 31 |
| 1982 | 12,905,202 | 1,716,091 | 31 |
| 1983 | 13,317,761 | 1,649,283 | 27 |
| 1984 | 13,182,207 | 1,720,172 | 25 |
| 1985 | 13,425,129 | 1,735,402 | 24 |
| 1986 | 13,391,258 | 1,901,450 | 23 |
| 1987 | 13,967,381 | 1,947,187 | 22 |
| 1988 | 14,295,591 | 1,946,861 | 21 |
| 1989 | 14,158,306 | 2,051,304 | 23 |
| 1990 | 13,783,012 | 2,045,697 | 23 |
| 1991 | 14,197,185 | 2,071,276 | 23 |
| 1992 | 14,331,412 | 2,090,248 | 22 |
| 1993 | 13,763,497 | 1,883,531 | 25 |
| January | 14,461,487 | 2,144,413 | 19 |
| February | 14,449,600 | 1,981,973 | 19 |
| March | 16,831,151 | 1,956,558 | 19 |
| April | 14,179,259 | 2,145,331 | 19 |
| May | 14,795,575 | 2,190,574 | 19 |
| June | 16,412,628 | 2,226,436 | 19 |
| July | 15,256,468 | 2,270,409 | 19 |
| August | 15,390,290 | 2,326,999 | 19 |
| September | 15,744,191 | 2,265,714 | 19 |
| October | 14,569,706 | 2,088,242 | 19 |
| November | 14,708,175 | 2,104,500 | 19 |
| December | 14,719,879 | 2,103,682 | 19 |
| **1994 Average** | **15,126,534** | **2,150,403** | **19** |
| January | 13,319,559 | 2,132,585 | 19 |
| February | 14,171,468 | 2,005,997 | 19 |
| March | 14,469,156 | 2,111,929 | 19 |
| April | 14,472,406 | 2,119,418 | 19 |
| May | 14,916,388 | 2,048,791 | 19 |
| June | 14,243,832 | 2,146,202 | 19 |
| July | 14,401,599 | 2,158,909 | 19 |
| August | 15,311,205 | 2,067,673 | 19 |
| September | 14,265,594 | 2,081,325 | 19 |
| October | 13,991,465 | 2,140,565 | 19 |
| November | 14,326,923 | 2,136,396 | 19 |
| December | 14,014,065 | 2,161,153 | 19 |
| **1995 Average** | **14,325,305** | **2,109,245** | **19** |

TABLE 38

## LOUISIANA ELECTRIC UTILITIES NET ELECTRICITY GENERATION[13,14,16] 1960-1994 BY FUEL TYPE (Million KWH)

| YEAR | COAL | LIGNITE | OIL | GAS | NUCLEAR | TOTAL |
|---|---|---|---|---|---|---|
| 1960 | 0 | 0 | 28 | 11,837 | 0 | 11,865 |
| 1961 | 0 | 0 | 23 | 12,605 | 0 | 12,628 |
| 1962 | 0 | 0 | 34 | 13,541 | 0 | 13,575 |
| 1963 | 0 | 0 | 37 | 14,808 | 0 | 14,845 |
| 1964 | 0 | 0 | 54 | 16,007 | 0 | 16,061 |
| 1965 | 0 | 0 | 26 | 17,819 | 0 | 17,845 |
| 1966 | 0 | 0 | 24 | 21,643 | 0 | 21,667 |
| 1967 | 0 | 0 | 20 | 23,132 | 0 | 23,152 |
| 1968 | 0 | 0 | 32 | 26,123 | 0 | 26,155 |
| 1969 | 0 | 0 | 26 | 32,301 | 0 | 32,327 |
| 1970 | 0 | 0 | 79 | 33,623 | 0 | 33,702 |
| 1971 | 0 | 0 | N/A | N/A | 0 | 37,118 |
| 1972 | 0 | 0 | N/A | N/A | 0 | 39,348 |
| 1973 | 0 | 0 | 14,353 | 36,351 | 0 | 40,704 |
| 1974 | 0 | 0 | 5,034 | 34,472 | 0 | 39,506 |
| 1975 | 0 | 0 | 3,257 | 35,967 | 0 | 39,224 |
| 1976 | 0 | 0 | 7,773 | 37,343 | 0 | 45,116 |
| 1977 | 0 | 0 | 13,255 | 35,196 | 0 | 48,451 |
| 1978 | 0 | 0 | 14,568 | 36,935 | 0 | 51,503 |
| 1979 | 0 | 0 | 8,259 | 38,396 | 0 | 46,655 |
| 1980 | 0 | 0 | 4,787 | 40,952 | 0 | 45,739 |
| 1981 | 1,529 | 0 | 2,634 | 39,947 | 0 | 44,110 |
| 1982 | 4,998 | 0 | 940 | 35,594 | 0 | 41,532 |
| 1983 | 8,377 | 0 | 356 | 28,311 | 0 | 37,044 |
| 1984 | 9,830 | 0 | 140 | 29,360 | 0 | 39,330 |
| 1985 | 13,968 | 0 | 100 | 27,736 | 2,457 | 44,261 |
| 1986 | 12,642 | 2,884 | 419 | 26,202 | 10,637 | 52,784 |
| 1987 | 12,176 | 2,926 | 60 | 23,823 | 12,324 | 51,309 |
| 1988 | 14,372 | 4,059 | 272 | 24,286 | 13,785 | 56,774 |
| 1989 | 14,227 | 3,854 | 298 | 21,900 | 12,391 | 52,670 |
| 1990 | 13,890 | 3,910 | 130 | 26,061 | 14,197 | 58,188 |
| 1991 | 14,786 | 4,126 | 45 | 24,245 | 13,956 | 57,158 |
| 1992 | 15,613 | 4,183 | 483 | 24,554 | 10,356 | 55,189 |
| 1993 | 15,794 | 3,572 | 1,838 | 23,751 | 14,398 | 59,353 |
| 1994 | 15,761 | 4,364 | 680 | 26,586 | 12,779 | 60,170 |
| 1995 | 14,632 | 4,321 | 49 | 30,867 | 15,686 | 65,555 |

FIGURE 17

## AVERAGE PRICE OF PURPA QUALIFIED FACILITY (QF) ELECTRICITY SOLD TO LOUISIANA ELECTRIC UTILITIES

LOUISIANA AND TEXAS QFs

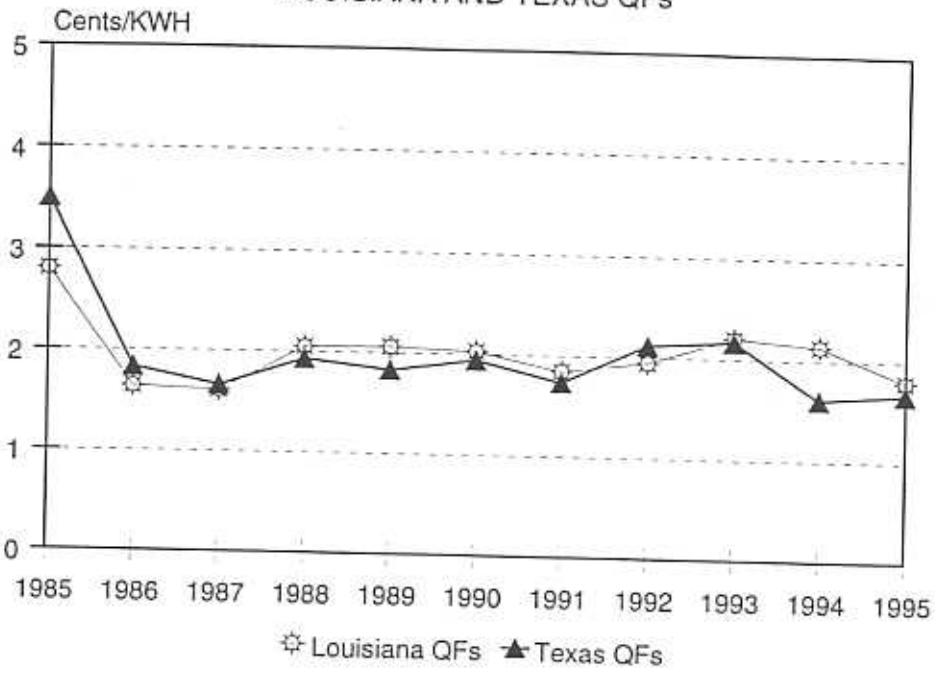



FIGURE 18

## LOUISIANA ELECTRIC UTILITIES NET ELECTRICITY PURCHASES FROM PURPA QUALIFIED FACILITY (QF) SUPPLIERS

LOUISIANA AND TEXAS QFs

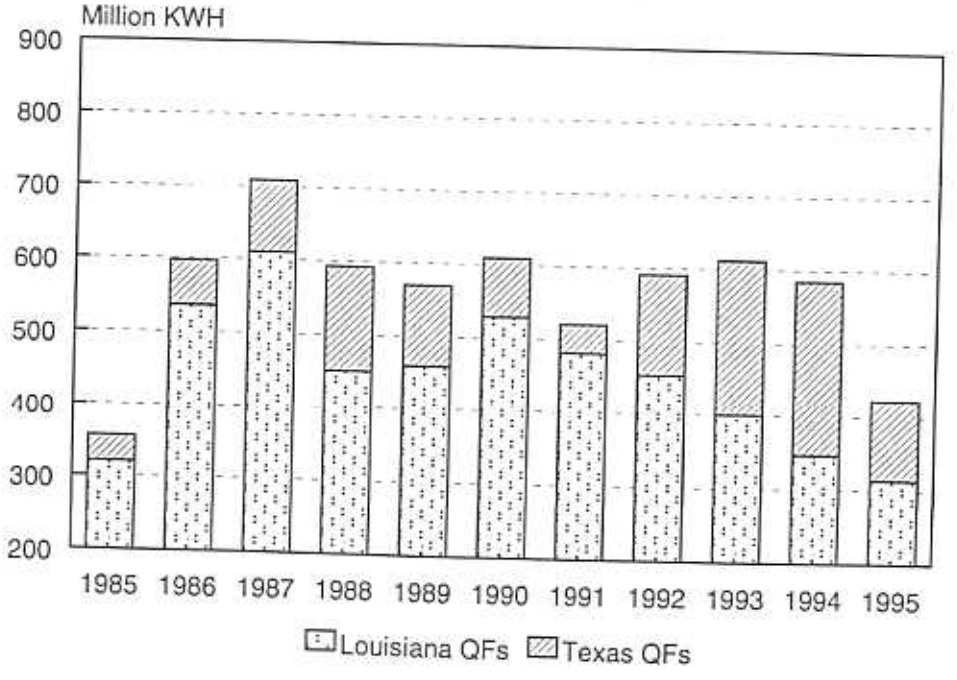


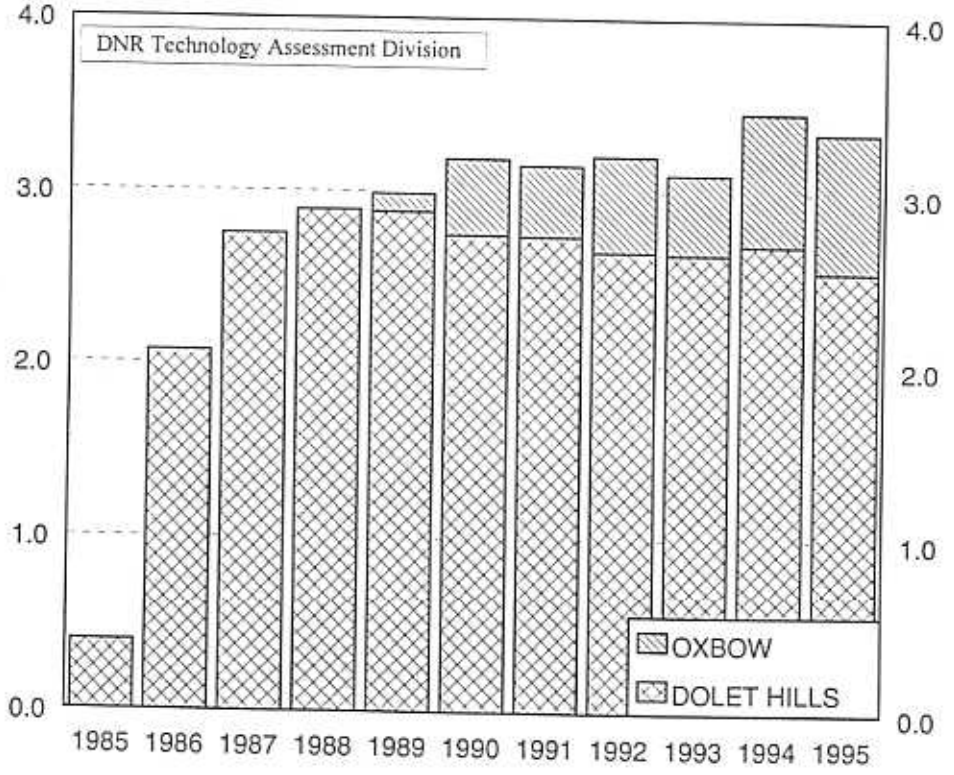
FIGURE 19

# LOUISIANA LIGNITE PRODUCTION BY MINE SOURCE

(Tons Shipped)

1985-1995

| YEAR | MINE | | TOTAL |
|---|---|---|---|
| | DOLET HILLS | OXBOW | |
| 1985 | 392,815 | -0- | 392,815 |
| 1986 | 2,067,867 | -0- | 2,067,867 |
| 1987 | 2,750,652 | -0- | 2,750,652 |
| 1988 | 2,889,489 | -0- | 2,889,489 |
| 1989 | 2,879,806 | 102,753 | 2,982,559 |
| 1990 | 2,746,096 | 440,093 | 3,186,189 |
| 1991 | 2,740,733 | 410,015 | 3,150,748 |
| 1992 | 2,653,455 | 553,950 | 3,207,405 |
| 1993 | 2,643,806 | 460,099 | 3,103,905 |
| 1994 | 2,697,322 | 765,817 | 3,463,138 |
| 1995 | 2,546,210 | 803,936 | 3,350,146 |




Sources: 1985-1992 Louisiana Geological Survey
1993-1994 Dolet Hills-CLECO
Oxbow-Red River Mining Co.
1995 Louisiana DNR, Office of Conservation

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 |
| KWH | Kilowatt-hours |
| MBBLS | Thousand Barrels |
| MCF | Thousand Cubic Feet |
| 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 |
| AK | Alaska |
| CA | California |
| CO | Colorado |
| KS | Kansas |
| LA | Louisiana |
| MI | Michigan |
| MS | Mississippi |
| NM | New Mexico |
| OK | Oklahoma |
| TX | Texas |
| UT | Utah |
| WY | Wyoming |

APPENDIX B

## DATA SOURCES

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

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 from OIL & GAS JOURNAL, Tulsa, OK: PennWell Publishing Co.

5. NATURAL GAS CLEARINGHOUSE SURVEY OF DOMESTIC SPOT MARKET PRICES, Houston, TX: 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 and Taxation, Severance Tax Section.

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, Minerals Management Service.

13. STATISTICAL YEARBOOK OF THE ELECTRIC UTILITY INDUSTRY, Washington, D.C.: Edison Electric Institute.

14. ELECTRIC POWER MONTHLY, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.

15. MINERAL REVENUE, Washington, D.C.: U.S. Department of the Interior, Minerals Management Service, Royalty Management Program.

16. MONTHLY POWER PLANT REPORT, Washington, D.C.: U.S. Department of Energy, Energy Information Administration.

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 nonmanufacturing 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 nonmanufacturing 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 FOB.** 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 FOB.** 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 South Louisiana Sweet (SLS) crude, which are effective on the middle and 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 South Louisiana Sweet (SLS) 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)*

**FOB 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.

**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.** 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 repressurizing, quantities vented and flared, and non-hydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

**NATURAL GAS, OCS GAS.** OCS gas volume is as reported. It is mostly "dry" gas and some is "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.**

**Spot Market.** The average price of natural gas paid at the regional spot market receipt points or zones as reported by the Natural Gas Clearinghouse (NGC) in Houston, Texas. The data is from the NGC's survey of the domestic natural gas spot market receipt points.

The Louisiana natural gas spot market is a subset of the U.S. spot market. It only includes spot market receipt points or zones located in Louisiana. These points or zones are:

Eunice, Louisiana - Market accessed by ANR
Onshore Lateral, La - Market accessed by Columbia Gulf
Anywhere On System - Market accessed by Faustina, Louisiana Intrastate Gas, Bridgeline and Monterrey
South Louisiana - Market accessed by Southern Natural
Vinton Louisiana - Market accessed by Tennessee Gas Pipeline
Northern Louisiana - Market accessed by Texas Gas Transmission
Onshore Louisiana - Market accessed by United

**OCS.** The average wellhead price calculated from sales and volumes from Louisiana OCS natural gas as reported by the U.S. Department of Interior, Minerals Management Service.

**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, 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 (Including Royalty Override) 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 therefrom. 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 interest in oil and gas produced at the surface free of any cost of production. It is royalty in addition to the usual landowner's royalty reserved to the lessor. The Layman's Guide to Oil & Gas by Brown & Miller defines overriding royalty as a percentage of all revenue earned by a well and carrying no cost obligation.

**STATE OFFSHORE.** (See *LOUISIANA OFFSHORE*).

**WET AFTER LEASE SEPARATION.** (See *NATURAL GAS, WET AFTER LEASE SEPARATION*).

APPENDIX D-1

## LOUISIANA STATE GAS PRODUCTION, WET AFTER LEASE SEPARATION
### Natural Gas and Casinghead Gas, Excluding OCS
### (Thousand Cubic Feet (MCF), at 14.73 psia and 60 degrees Fahrenheit)*

| DATE | NORTH | SOUTH | OFFSHORE | TOTAL |
|---|---|---|---|---|
| 1975 | 348,087,178 | 2,963,533,670 | 519,686,887 | 3,831,307,734 |
| 1976 | 354,699,745 | 2,684,596,879 | 523,207,556 | 3,562,504,180 |
| 1977 | 355,168,686 | 2,517,077,571 | 495,831,330 | 3,368,077,587 |
| 1978 | 339,810,635 | 2,324,919,111 | 499,536,520 | 3,164,266,266 |
| 1979 | 366,665,384 | 2,182,260,056 | 486,517,478 | 3,035,442,919 |
| 1980 | 377,031,666 | 1,970,503,750 | 416,970,904 | 2,764,506,320 |
| 1981 | 428,405,769 | 1,799,516,063 | 382,343,206 | 2,610,265,038 |
| 1982 | 386,004,468 | 1,566,377,332 | 366,786,207 | 2,319,168,006 |
| 1983 | 372,027,021 | 1,348,297,497 | 327,867,480 | 2,048,191,997 |
| 1984 | 394,640,400 | 1,418,548,949 | 324,376,486 | 2,137,565,835 |
| 1985 | 363,537,227 | 1,295,763,687 | 259,172,205 | 1,918,473,120 |
| 1986 | 376,365,114 | 1,260,415,323 | 254,824,829 | 1,891,605,266 |
| 1987 | 368,201,116 | 1,190,281,030 | 235,533,381 | 1,794,015,527 |
| 1988 | 385,240,490 | 1,203,110,971 | 220,427,212 | 1,808,778,674 |
| 1989 | 389,753,869 | 1,162,596,403 | 208,995,087 | 1,761,345,359 |
| 1990 | 390,844,876 | 1,135,530,512 | 182,241,160 | 1,708,616,548 |
| 1991 | 391,695,665 | 1,144,790,650 | 153,601,393 | 1,690,087,709 |
| 1992 | 377,846,592 | 1,142,511,650 | 149,550,553 | 1,669,908,795 |
| 1993 | 361,037,978 | 1,127,223,468 | 157,011,151 | 1,645,272,597 |
| January | 30,313,987 | 91,496,292 | 12,838,620 | 134,648,898 |
| February | 27,191,351 | 83,468,917 | 12,148,108 | 122,808,376 |
| March | 31,034,493 | 90,317,470 | 13,483,525 | 134,835,488 |
| April | 30,060,315 | 86,799,344 | 13,311,817 | 130,171,477 |
| May | 31,408,913[R] | 90,525,710[R] | 13,509,359[R] | 135,443,982[R] |
| June | 29,952,403[R] | 89,303,569[R] | 13,530,149[R] | 132,786,120[R] |
| July | 31,657,318[R] | 90,372,730[R] | 13,883,550[R] | 135,913,597[R] |
| August | 30,419,691[R] | 90,373,769[R] | 13,355,107[R] | 134,148,568[R] |
| September | 29,439,689[R] | 85,432,971[R] | 13,025,907[R] | 127,898,567[R] |
| October | 30,184,370[R] | 87,151,597[R] | 13,838,693[R] | 131,174,660[R] |
| November | 30,126,948[R] | 85,819,705[R] | 13,163,817[R] | 129,110,469[R] |
| December | 31,236,655[R] | 87,978,891[R] | 14,165,081[R] | 133,380,627[R] |
| **1994 Total** | **363,026,133[R]** | **1,059,040,963[R]** | **160,253,733[R]** | **1,582,320,828[R]** |
| January | 31,573,780 | 86,513,395 | 13,763,115 | 131,850,289 |
| February | 27,466,918 | 80,104,694 | 12,200,396 | 119,772,007 |
| March | 31,492,864 | 86,206,629 | 14,037,659 | 131,737,151 |
| April | 30,355,610 | 87,474,624 | 13,040,251 | 130,870,486 |
| May | 31,820,516 | 89,594,199 | 13,716,615 | 135,131,330 |
| June | 30,758,795 | 85,754,361 | 12,881,577 | 129,394,733 |
| July | 31,826,956 | 87,974,266 | 14,403,396 | 134,204,619 |
| August | 31,060,203[E] | 87,149,889[E] | 13,550,618[E] | 131,760,710[E] |
| September | 30,973,671[E] | 87,338,541[E] | 13,453,210[E] | 131,765,422[E] |
| October | 31,097,283[E] | 87,311,325[E] | 13,535,802[E] | 131,944,410[E] |
| November | 30,952,637[E] | 86,854,750[E] | 13,499,639[E] | 131,307,025[E] |
| December | 30,991,405[E] | 87,074,828[E] | 13,623,251[E] | 131,689,484[E] |
| **1995 Total** | **370,370,639[E]** | **1,039,351,500[E]** | **161,705,529[E]** | **1,571,427,668[E]** |

See Table 9 for corresponding volumes at 15.025 psia.

[E]Estimated

## LOUISIANA GAS PRODUCTION, WET AFTER LEASE SEPARATION
### Natural Gas and Casinghead Gas
### (Thousand Cubic Feet (MCF), at 14.73 psia and 60 degrees Fahrenheit)*

| DATE | ONSHORE | OFFSHORE STATE | OCS[12] | TOTAL |
|---|---|---|---|---|
| 1975 | 3,311,620,847 | 519,686,887 | 3,332,169,057 | 7,163,476,791 |
| 1976 | 3,039,296,624 | 523,207,556 | 3,499,865,900 | 7,062,370,080 |
| 1977 | 2,872,246,257 | 495,831,330 | 3,647,513,674 | 7,015,591,261 |
| 1978 | 2,664,729,746 | 499,536,520 | 4,149,731,136 | 7,313,997,402 |
| 1979 | 2,548,925,441 | 486,517,478 | 4,158,521,710 | 7,193,964,629 |
| 1980 | 2,347,535,416 | 416,970,904 | 4,013,707,434 | 6,778,213,754 |
| 1981 | 2,227,921,833 | 382,343,206 | 4,106,494,590 | 6,716,759,628 |
| 1982 | 1,952,381,800 | 366,786,207 | 3,803,740,050 | 6,122,908,056 |
| 1983 | 1,720,324,517 | 327,867,480 | 3,173,892,354 | 5,222,084,351 |
| 1984 | 1,813,189,350 | 324,376,486 | 3,578,740,570 | 5,716,306,405 |
| 1985 | 1,659,300,915 | 259,172,205 | 3,116,884,490 | 5,035,357,610 |
| 1986 | 1,636,780,437 | 254,824,829 | 2,927,832,264 | 4,819,437,530 |
| 1987 | 1,558,482,146 | 235,533,381 | 3,180,107,195 | 4,974,122,722 |
| 1988 | 1,588,351,461 | 220,427,212 | 3,096,881,628 | 4,905,660,302 |
| 1989 | 1,552,350,272 | 208,995,087 | 3,006,576,061 | 4,767,921,420 |
| 1990 | 1,526,375,388 | 182,241,160 | 3,706,324,044 | 5,414,940,592 |
| 1991 | 1,536,486,315 | 153,601,393 | 3,289,968,602 | 4,980,056,311 |
| 1992 | 1,520,358,242 | 149,550,553 | 3,338,101,447 | 5,008,010,242 |
| 1993 | 1,488,261,446 | 157,011,151 | 3,386,808,653 | 5,032,081,250 |
| January | 121,810,278 | 12,838,620 | 340,998,732[R] | 475,647,631[R] |
| February | 110,660,268 | 12,148,108 | 310,959,120[R] | 433,767,496[R] |
| March | 121,351,963 | 13,483,525 | 301,033,699[R] | 435,869,186[R] |
| April | 116,859,659 | 13,311,817 | 303,697,810[R] | 433,869,287[R] |
| May | 121,934,623[R] | 13,509,359[R] | 299,656,919[R] | 435,100,901[R] |
| June | 119,255,971[R] | 13,530,149[R] | 285,474,014[R] | 418,260,134[R] |
| July | 122,030,047[R] | 13,883,550[R] | 277,277,670[R] | 413,191,267[R] |
| August | 120,793,460[R] | 13,355,107[R] | 278,035,470[R] | 412,184,038[R] |
| September | 114,872,660[R] | 13,025,907[R] | 251,557,853[R] | 379,456,419[R] |
| October | 117,335,967[R] | 13,838,693[R] | 272,713,638[R] | 403,888,298[R] |
| November | 115,946,652[R] | 13,163,817[R] | 274,724,253[R] | 403,834,722[R] |
| December | 119,215,546[R] | 14,165,081[R] | 296,277,583[R] | 429,658,210[R] |
| **1994 Total** | **1,422,067,095[R]** | **160,253,733[R]** | **3,492,406,762[R]** | **5,074,727,590[R]** |
| January | 118,087,174 | 13,763,115 | 321,876,702[E] | 453,726,992[E] |
| February | 107,571,611 | 12,200,396 | 263,180,123[E] | 382,952,131[E] |
| March | 117,699,493 | 14,037,659 | 310,850,207[E] | 442,587,358[E] |
| April | 117,830,235 | 13,040,251 | 306,028,983[E] | 436,899,469[E] |
| May | 121,414,715 | 13,716,615 | 312,826,012[E] | 447,957,343[E] |
| June | 116,513,156 | 12,881,577 | 296,321,751[E] | 425,716,484[E] |
| July | 119,801,223 | 14,403,396 | 319,510,931[E] | 453,715,550[E] |
| August | 121,041,918 | 15,005,359 | 288,506,351[E] | 424,553,628[E] |
| September | 117,190,262 | 14,775,356 | 287,721,987[E] | 419,687,606[E] |
| October | 118,889,676 | 15,295,627 | 268,943,323[E] | 403,128,626[E] |
| November | 116,359,499 | 14,749,936 | 289,985,784[E] | 421,095,220[E] |
| December | 118,214,844[E] | 14,780,653[E] | 314,250,434[E] | 447,245,931[E] |
| **1995 Total** | **1,410,613,805[E]** | **168,649,943[E]** | **3,580,002,588[E]** | **5,159,266,336[E]** |

NOTE: The 1994 and 1995 Federal OCS production is estimated from the marketed

See Table 10 for corresponding volumes at 15.025 psia.

[R]revised

[E]Estimated

See footnotes in Appendix A.

## LOUISIANA NATURAL GAS AND CASINGHEAD GAS PRODUCTION

(Billion Cubic Feet (BCF), at 14.73 psia and 60 degrees Fahrenheit)*

| | MARKETED | | | | EXTRACTION |
|---|---|---|---|---|---|
| DATE | STATE | OCS | TOTAL[3] | LOSS[3] | DRY[3] |
| 1975 | 3,422 | 3,669 | 7,091 | 190 | 6,901 |
| 1976 | 3,196 | 3,811 | 7,007 | 173 | 6,834 |
| 1977 | 2,989 | 4,226 | 7,215 | 166 | 7,049 |
| 1978 | 2,788 | 4,689 | 7,476 | 162 | 7,315 |
| 1979 | 2,685 | 4,581 | 7,266 | 166 | 7,101 |
| 1980 | 2,439 | 4,200 | 6,639 | 142 | 6,497 |
| 1981 | 2,264 | 4,517 | 6,780 | 142 | 6,638 |
| 1982 | 2,013 | 4,159 | 6,172 | 129 | 6,043 |
| 1983 | 1,757 | 3,575 | 5,332 | 124 | 5,208 |
| 1984 | 1,872 | 3,953 | 5,825 | 133 | 5,693 |
| 1985 | 1,689 | 3,325 | 5,014 | 118 | 4,896 |
| 1986 | 1,658 | 3,238 | 4,895 | 116 | 4,780 |
| 1987 | 1,575 | 3,548 | 5,123 | 125 | 4,998 |
| 1988 | 1,697 | 3,483 | 5,180 | 120 | 5,060 |
| 1989 | 1,652 | 3,426 | 5,078 | 121 | 4,957 |
| 1990 | 1,629 | 3,613 | 5,242 | 119 | 5,123 |
| 1991 | 1,575 | 3,459 | 5,034 | 129 | 4,905 |
| 1992 | 1,691 | 3,223 | 4,914 | 133 | 4,782 |
| 1993 | 1,631 | 3,360 | 4,991 | 130 | 4,861[R] |
| January | 136 | 351[R] | 487[R] | | |
| February | 126 | 320[R] | 446[R] | | |
| March | 142 | 309[R] | 452[R] | | |
| April | 120 | 312[R] | 432[R] | | |
| May | 135 | 308[R] | 443[R] | | |
| June | 134 | 293[R] | 427[R] | | |
| July | 134 | 285[R] | 419[R] | | |
| August | 135 | 286[R] | 421[R] | | |
| September | 135 | 259[R] | 393[R] | | |
| October | 124 | 280[R] | 404[R] | | |
| November | 127 | 282[R] | 410[R] | | |
| December | 131 | 305[R] | 436[R] | | |
| **1994 Total** | **1,580** | **3,590[R]** | **5,170[R]** | **129[R]** | **5,041[R]** |
| January | 124 | 331 | 455 | | |
| February | 131 | 271 | 402 | | |
| March | 120 | 320 | 440 | | |
| April | 120 | 315 | 434 | | |
| May | 133 | 322 | 454 | | |
| June | 130 | 305 | 434 | | |
| July | 117 | 328 | 445 | | |
| August | 132 | 297 | 428 | | |
| September | 133 | 296 | 429 | | |
| October | 123 | 276 | 400 | | |
| November | 115 | 298 | 413 | | |
| December | 123 | 323 | 446 | | |
| **1995 Total** | **1,501** | **3,680** | **5,181** | | |

See Table 11 for corresponding volumes at 15.025 psia.

[R]Revised

See footnotes in Appendix A.

## UNITED STATES OCS GAS PRODUCTION[12]

### Natural Gas and Casinghead Gas

### (Thousand Cubic Feet (MCF), at 14.73 psia and 60 degrees Fahrenheit)*

| YEAR | LOUISIANA | TEXAS | CALIFORNIA | TOTAL |
|---|---|---|---|---|
| Prior | 19,881,055 | 0 | 0 | 19,881,055 |
| 1954 | 56,325,083 | 0 | 0 | 56,325,083 |
| 1955 | 81,279,042 | 0 | 0 | 81,279,042 |
| 1956 | 82,892,538 | 0 | 0 | 82,892,538 |
| 1957 | 82,568,807 | 4,797 | 0 | 82,573,604 |
| 1958 | 127,692,848 | 0 | 0 | 127,692,848 |
| 1959 | 207,156,296 | 0 | 0 | 207,156,296 |
| 1960 | 273,034,451 | 0 | 0 | 273,034,451 |
| 1961 | 318,280,095 | 0 | 0 | 318,280,095 |
| 1962 | 451,952,659 | 0 | 0 | 451,952,659 |
| 1963 | 564,352,606 | 0 | 0 | 564,352,606 |
| 1964 | 621,731,438 | 0 | 0 | 621,731,438 |
| 1965 | 645,589,469 | 0 | 0 | 645,589,469 |
| 1966 | 965,387,849 | 42,059,386 | 0 | 1,007,447,235 |
| 1967 | 1,087,262,804 | 99,952,946 | 0 | 1,187,215,750 |
| 1968 | 1,413,467,606 | 109,910,787 | 799,685 | 1,524,178,078 |
| 1969 | 1,822,544,142 | 127,096,982 | 4,845,851 | 1,954,486,975 |
| 1970 | 2,273,147,040 | 133,300,404 | 12,229,147 | 2,418,676,591 |
| 1971 | 2,634,014,031 | 127,357,908 | 15,671,479 | 2,777,043,418 |
| 1972 | 2,881,364,733 | 147,156,459 | 10,033,581 | 3,038,554,773 |
| 1973 | 3,055,628,236 | 148,673,637 | 7,286,549 | 3,211,588,422 |
| 1974 | 3,349,170,864 | 159,979,401 | 5,573,642 | 3,514,723,907 |
| 1975 | 3,332,169,057 | 122,572,764 | 3,951,633 | 3,458,693,454 |
| 1976 | 3,499,865,900 | 92,582,425 | 3,475,201 | 3,595,923,526 |
| 1977 | 3,647,513,674 | 86,943,285 | 3,289,963 | 3,737,746,922 |
| 1978 | 4,149,731,136 | 231,857,450 | 3,472,292 | 4,385,060,878 |
| 1979 | 4,158,521,710 | 511,590,607 | 2,866,822 | 4,672,979,139 |
| 1980 | 4,013,707,434 | 624,642,526 | 3,107,023 | 4,641,456,983 |
| 1981 | 4,106,494,590 | 730,275,831 | 12,766,307 | 4,849,536,728 |
| 1982 | 3,803,740,050 | 858,020,298 | 17,750,924 | 4,679,511,272 |
| 1983 | 3,173,892,354 | 850,817,211 | 16,024,292 | 4,040,733,857 |
| 1984 | 3,578,740,570 | 931,293,582 | 27,806,899 | 4,537,841,051 |
| 1985 | 3,116,884,490 | 834,926,523 | 49,164,213 | 4,000,975,226 |
| 1986 | 2,927,832,264 | 978,370,552 | 42,689,021 | 3,948,891,837 |
| 1987 | 3,180,107,195 | 1,204,488,337 | 40,986,158 | 4,425,581,690 |
| 1988 | 3,096,881,628 | 1,178,422,561 | 34,570,638 | 4,309,874,827 |
| 1989 | 3,006,576,061 | 1,165,112,953 | 28,574,912 | 4,200,263,926 |
| 1990 | 3,706,324,044 | 1,348,075,361 | 38,531,764 | 5,092,931,169 |
| 1991 | 3,289,968,602 | 1,184,936,494 | 40,626,577 | 4,515,531,673 |
| 1992 | 3,338,101,447 | 1,239,389,547 | 40,873,660 | 4,685,644,725 |
| 1993 | 3,386,808,653 | 1,027,937,755 | 42,082,090 | 4,533,389,731 |
| 1994 | 3,492,406,762 | 1,014,204,135 | 41,679,064 | 4,657,017,829 |

*See Table 12 for corresponding volumes at 15.025 psia.

See footnotes in Appendix A.

## UNITED STATES NATURAL GAS AND CASINGHEAD PRODUCTION[3]
### (Billion Cubic Feet (BCF), at 14.73 psia and 60 degrees Fahrenheit)*

| DATE | GROSS | SEPARATION | WET AFTER LEASE MARKETED | DRY | IMPORTS |
|---|---|---|---|---|---|
| 1975 | 21,104 | 20,243 | 20,109 | 19,236 | 953 |
| 1976 | 20,944 | 20,084 | 19,952 | 19,098 | 964 |
| 1977 | 21,097 | 20,162 | 20,025 | 19,163 | 1,011 |
| 1978 | 21,309 | 20,127 | 19,974 | 19,122 | 966 |
| 1979 | 21,883 | 20,638 | 20,471 | 19,663 | 1,253 |
| 1980 | 21,870 | 20,305 | 20,180 | 19,403 | 985 |
| 1981 | 21,587 | 20,054 | 19,956 | 19,181 | 904 |
| 1982 | 20,272 | 18,675 | 18,582 | 17,820 | 933 |
| 1983 | 18,659 | 16,979 | 16,884 | 16,094 | 918 |
| 1984 | 20,267 | 18,412 | 18,304 | 17,466 | 843 |
| 1985 | 19,607 | 17,365 | 17,270 | 16,454 | 950 |
| 1986 | 19,131 | 16,956 | 16,859 | 16,059 | 750 |
| 1987 | 20,140 | 17,557 | 17,433 | 16,621 | 993 |
| 1988 | 20,999 | 18,061 | 17,918 | 17,103 | 1,294 |
| 1989 | 21,074 | 18,237 | 18,095 | 17,311 | 1,382 |
| 1990 | 21,523 | 18,744 | 18,594 | 17,810 | 1,532 |
| 1991 | 21,750 | 18,702 | 18,532 | 17,698 | 1,773 |
| 1992 | 22,132 | 18,879 | 18,712 | 17,840 | 2,138 |
| 1993 | 22,725 | 19,209 | 18,982 | 18,095 | 2,350 |
| January | 2,025 | 1,704 | 1,685 | 1,609 | 241 |
| February | 1,818 | 1,529 | 1,510 | 1,442 | 199 |
| March | 2,031 | 1,710 | 1,691 | 1,614 | 223 |
| April | 1,926 | 1,625 | 1,607 | 1,534 | 212 |
| May | 1,986 | 1,681 | 1,663 | 1,588 | 206 |
| June | 1,883 | 1,608 | 1,587 | 1,515 | 201 |
| July | 1,945 | 1,662 | 1,643 | 1,569 | 221 |
| August | 1,973 | 1,678 | 1,660 | 1,576 | 219 |
| September | 1,880 | 1,587 | 1,567 | 1,496 | 210 |
| October | 1,984 | 1,646 | 1,627 | 1,554 | 222 |
| November | 2,038 | 1,689 | 1,671 | 1,596 | 226 |
| December | 2,118 | 1,752 | 1,733 | 1,655 | 245 |
| **1994 Total** | **23,607** | **19,870** | **19,643** | **18,748** | **2,625** |
| January | 2,080 | 1,721 | 1,711 | 1,631 | 251 |
| February | 1,864 | 1,537 | 1,528 | 1,457 | 228 |
| March | 2,030 | 1,687 | 1,678 | 1,600 | 250 |
| April | 1,983 | 1,651 | 1,641 | 1,565 | 199 |
| May | 2,055 | 1,712 | 1,703 | 1,623 | 217 |
| June | 1,969 | 1,647 | 1,634 | 1,558 | 217 |
| July | 1,994 | 1,675 | 1,661 | 1,584 | 222 |
| August | 1,985 | 1,660 | 1,647 | 1,570 | 231 |
| September | 1,954 | 1,641 | 1,628 | 1,552 | 228 |
| October | 1,992 | 1,647 | 1,634 | 1,558 | 234 |
| November | 1,996 | 1,650 | 1,636 | 1,560 | 225 |
| December | 2,105 | 1,739 | 1,724 | 1,644 | 251 |
| **1995 Total** | **24,007** | **19,967** | **19,825** | **18,902** | **2,753** |

*See Table 13 for corresponding volumes at 15.025 psia.

See footnotes in Appendix A.

APPENDIX E

## Section 8(g) Revenues from Louisiana's Outer Continental Shelf

Royalty revenues from federal offshore leases on the Outer Continental Shelf (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 Outer Continental Shelf Lands Act 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 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 law provided for the following distribution of revenues to the states under section 8(g):

Escrow funds disbursed in FY 1986-87;

A series of annual settlement payments to be disbursed to the states over a 15-year period from FY 1987-2001; and

Recurring annual disbursement of 27 percent of royalty, rental, and bonus revenues received within each affected state's 8(g) zone.

Louisiana received $589 million in 1987 from the escrow funds and expects to receive $2.52 million per year as the annual escrow settlement payments from 1987 through 2001.

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

*See Table 27 for revenue figures from Louisiana's 8(g) zone.

APPENDIX F

## 1995 LOUISIANA ENERGY TOPICS

# LOUISIANA CRUDE OIL REFINERIES INCREASE CAPACITY IN 1995

by Alan A. Troy, P.E.

With major capital expenditures to comply with environmental and safety regulations behind them, Louisiana refineries continued to focus primarily on projects to improve profitability in 1995. These included major process reconfigurations to improve efficiency or alter the product mix to include more higher value products. Since December 1994, these projects have resulted in a total crude operating capacity increase of almost 70,000 barrels per calendar day (bcd). Eight of Louisiana's eighteen refineries that were operating as of November 30, 1995, increased capacity.

For the twelve month period ending June 30, 1995, total Louisiana refinery operating rates decreased slightly from 92.2% to 91.6%. Total operating capacity increased from 2,345,664 bcd to 2,410,341 bcd, or about 3%. While there were some changes in the product mix of individual refineries, the overall mix remained about the same. The trend to less mid-grade gasoline production continued into its fifth year. Crude capacity, operating rates, and product slate for each operating refinery are shown in the table on the back of this sheet.

Of the nineteen refineries that operated during the year ending June 30, 1995, nine produced reformulated gasoline (RFG) for sale in those markets where the EPA had mandated its use effective January 1, 1995. None of these areas are in Louisiana. RFG accounted for nearly 11% of all gasoline production by Louisiana refineries. However, RFG production came at the expense of the other grades as total gasoline production remained virtually the same as the previous twelve month period. Some refineries have reduced or eliminated RFG production altogether because they felt the market for it was too uncertain in that the EPA had granted waivers to certain areas allowing them to "opt out" of the program.

Since the beginning of the year through July, the monthly Gulf Coast Refinery Margin has been very volatile. After a steady decline to a low of -$1.33/bbl in March, it rebounded to its peak of $2.13/bbl in May, and then declined sharply again to -$0.01/bbl in July.

Two operating refineries changed ownership in 1995. One of them, the St. Rose refinery, was purchased from Enjet by Shell Chemical and is being used to provide feedstock to its Olefins Feed Process Unit (OFPU) at its Norco facility. No non-operating refineries changed hands. Spokesmen for the 200,000 bcd TransAmerican refinery at Norco and Gold Line's 14,800 bcd refinery at Jennings indicated that both facilities would reopen.

The above information was obtained from DNR's November 30, 1995, Louisiana Crude Oil Refinery Survey Report, which is now available. Other information in the report includes new projects, key personnel, mailing addresses, and geographical location descriptions. Tabulated statistical data, charts, and graphs relating to oil production, refinery crude oil sources, refinery margins, capacities, operating rates, and product slate are also contained in the report. New developments on the status of the non-operating refineries that are still intact are also presented.

# LOUISIANA OPERATING REFINERIES
## CRUDE CAPACITY (barrels/calendar day) AND PERCENT PRODUCT SLATE

| NAME | OPERATING CAPACITY As of June 30,1995 | IDLE CPCTY | OPR RATE % | % OF TOTAL PRODUCT SLATE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | GASOLINE | | | | OTHER FUELS | | | MISCELLANEOUS | | | OTHER PRODUCTS | | | |
| | | | | REG | MID-GRADE | PREM | ALL RFG | DIESEL | JET/ KERO | FUEL OIL | LPG's | NAPTH | COKE/ RESID | PRODUCT 1 | PRODUCT 2 | PRODUCT 3 | ALL OTHER |
| Arcadia Refng & Mktg/ Lisbon Ref. | 12,500 | 0 | 59.5 | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 | 8.0 | 25.0 | 4.0 | 35.0 | 0.0 | 15.0 | 0.0 | 0.0 | 2.0 |
| Atlas Processing Co. (Pennzoil) | 46,200 | 0 | 84.2 | 13.0 | 1.6 | 2.3 | 0.0 | 17.9 | 18.3 | 0.0 | 0.0 | 4.8 | 7.4 | Solvents 19.1 | 6.1 | 2.0 | 6.6 |
| B. P. Oil Co./Alliance Refinery | 249,141 | 859 | 100.0 | 33.0 | 0.0 | 12.3 | 0.1 | 28.8 | 11.0 | 0.1 | 1.9 | 0.0 | 1.5 | Lubes/Motor Oil 3.1 | Catfeed 1.6 | Waxes 0.6 | 5.8 |
| Calcasieu Refining Company | 13,300 | 0 | 89.5 | 0.0 | 0.0 | 0.0 | 0.0 | 25.9 | 20.1 | 0.0 | 3.8 | 33.0 | 0.0 | Aromatics 17.2 | Carbon Black 0.0 | Intermediates 0.0 | 0.0 |
| Calumet Lubricants/Princeton Refinery | 9,000 | 0 | 78.8 | 0.0 | 0.0 | 0.0 | 0.0 | 14.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Catfeed 69.0 | 17.0 | 0.0 | 0.0 |
| Calumet Lubricants/Cotton Valley | 7,800 | 0 | 61.5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.9 | 0.0 | 0.0 | 0.0 | 39.3 | 0.0 | 29.3 | 24.5 | 0.0 | 0.1 |
| Canal Refining Co. | 10,000 | 0 | 67.1 | 18.0 | 0.0 | 5.0 | 0.0 | 53.0 | 0.0 | 0.0 | 1.5 | 0.0 | 20.0 | Gas Oil 0.0 | Straight Run 0.0 | 0.0 | 2.5 |
| CITGO Petroleum Corp. | 300,000 | 0 | 91.0 | 26.2 | 0.0 | 14.3 | 8.0 | 8.5 | 15.8 | 5.2 | 2.8 | 0.0 | 8.3 | 2.7 | 1.6 | 0.0 | 6.6 |
| Conoco Inc./Lake Charles Refinery | 195,500 | 0 | 91.5 | 15.9 | 0.0 | 5.8 | 4.7 | 28.5 | 9.1 | 1.9 | 3.5 | 7.0 | 9.8 | Petrochemicals 11.8 | Lubes 0.0 | 0.0 | 2.0 |
| Exxon Co. U.S.A. | 424,000 | 0 | 98.6 | 20.5 | 3.7 | 11.1 | 4.5 | 17.0 | 13.4 | 3.0 | 2.2 | 1.1 | 3.8 | Gas Oil 12.0 | 3.8 | 3.6 | 0.3 |
| Gold Line Refining, Ltd./Lake Charles | 17,500 | 2,500 | 57.3 | 0.0 | 0.0 | 0.0 | 0.0 | 23.0 | 36.0 | 0.0 | 0.5 | 22.5 | 0.0 | Chem. Fdstck 18.0 | Internal Fuels 0.0 | Lube Oil 0.0 | 0.0 |
| Marathon Oil Co. | 255,000 | 0 | 81.9 | 41.3 | 0.4 | 9.2 | 3.3 | 0.0 | 1.1 | 30.0 | 5.2 | 1.0 | 8.1 | Gas Oil 0.4 | 0.0 | 0.0 | 0.0 |
| Mobil Oil Corp./Chalmette Refinery | 191,000 | 0 | 83.5 | 19.5 | 0.7 | 10.5 | 16.1 | 2.1 | 10.3 | 16.3 | 3.2 | 0.8 | 8.4 | Sulfur 5.8 | 4.5 | 1.4 | 0.4 |
| Murphy Oil U.S.A. Inc./Meraux Ref. | 100,000 | 0 | 80.9 | 36.2 | 0.5 | 16.2 | 1.0 | 21.2 | 10.0 | 10.4 | 3.3 | 0.2 | 0.0 | Refinery Fuel 0.8 | Aromatics 0.1 | Gas Oil 0.0 | 0.0 |
| Norco Refining Co. (Shell Oil Co.) | 215,000 | 0 | 99.7 | 35.2 | 4.2 | 13.1 | 6.2 | 2.3 | 15.8 | 6.1 | 6.3 | 0.6 | 4.6 | 5.6 | 0.0 | 0.0 | 0.0 |
| Phibro Energy U.S.A./Krotz Springs | 60,000 | 0 | 98.1 | 27.1 | 0.0 | 3.2 | 0.0 | 14.4 | 15.3 | 0.0 | 1.4 | 11.6 | 0.0 | Catfeed 23.9 | 2.9 | 0.2 | 0.0 |
| Placid Refining Co. | 47,000 | 0 | 96.6 | 31.3 | 5.1 | 7.7 | 0.0 | 20.7 | 10.3 | 8.7 | 3.8 | 0.0 | 6.2 | Gas Oil 3.6 | Lt.St. Run Gas 2.6 | Fuel Gas 0.0 | 0.0 |
| St. Rose Refinery, Inc. | 32,400 | 7,600 | 54.6 | 0.0 | 0.0 | 0.0 | 0.0 | 6.8 | 11.4 | 0.0 | 0.0 | 27.9 | 29.0 | Internal Fuel Gas 17.0 | Gas Oil 8.3 | 0.0 | 0.0 |
| Star Enterprise | 225,000 | 0 | 95.9 | 39.1 | 1.0 | 2.8 | 4.1 | 23.2 | 9.8 | 12.0 | 3.1 | 1.3 | 0.5 | Gas Oil 0.9 | Asphalt 0.4 | 0.2 | 1.6 |
| WEIGHTED STATE AVERAGE %* | | | 91.6 | 27.7 | 1.4 | 9.8 | 4.7 | 14.9 | 11.5 | 7.8 | 3.2 | 2.2 | 5.1 | Sulfur 6.7 | Gas Oil 1.9 | MTBE 0.9 | 2.0 |
| TOTAL LA OPERATING CAPACITY | 2,410,341 | | | | | | | | | | | | | | | | |

NOTE: All data are for the twelve month period ending June 30, 1995. It may differ slightly from data reported elsewhere for a different time frame.
Operating rates are computed by dividing the daily average crude input by the operating capacity provided by survey respondents.
* Individual product percentage components may not total 100% because of independent rounding.

# Louisiana Energy Access System (LEAS)

The Louisiana Department of Natural Resources (DNR) has extensive records and data on oil and gas drilling permits, well completions, production, transportation, lease records, state royalties, etc. DNR is the source of most Louisiana data ultimately reported in publications by others such as the U.S. Department of Energy, the American Petroleum Institute, the Interstate Oil and Gas Compact Commission, and numerous commercial publications. DNR data is also widely accessed directly by members of industry in DNR offices.

**Introduction**

The Department of Natural Resources (DNR) has developed a system to extend to the public the capability to more easily access public oil and gas records. Specifically, the Department offers dial-up on-line access to oil and gas information via the Louisiana Energy Access System (LEAS). Through LEAS, the Department provides the public customer with on-line access to specified services on the Department's computer. This involves transmitting designated types of the Department's public computerized oil and gas records directly to the customer's place of business.

**Services**

Two main services are currently offered:

- The first service, transaction-based, is similar in nature to that used by private sector users for a number of years in DNR offices statewide. Only inquiry capabilities are provided. Update capabilities are secured from dialup customers by a variety of security procedures and software.
- The second service provides access to oil and gas data in a table format, and offers SQL-like query capabilities that can be used to search for specific data, with subsequent sorting and printing of the selected records. Large reports can be printed at the DNR host site in Baton Rouge, and forwarded to the customer via UPS or Federal Express.

**Availability**

LEAS is available during prime hours, defined as Mondays thru Fridays from 7:30 a.m. (Central Time) thru 4:30 p.m., except State holidays. LEAS Help Desk support is available during these hours. The Department will make reasonable efforts to meet these service hours within the limited resources it has available. Access during other non-prime hours, including weekends and State holidays, is also available, but without LEAS Help Desk support. It should be noted that database updates are typically accomplished during the 5: 00 p.m. thru 10:00 p.m. time frame (weekdays only), and that during this time certain records may temporarily be unavailable as they are updated. Access atasynchronous rates of up to 9600 BAUD is supported.

**Invoicing**

Each customer is assigned a DNR Customer Number and password. These must be entered at the initiation of each session in order to log onto LEAS. The customer has the option of also entering a "customer-defined number" for each session; this number will appear on all invoices and allow DNR customers to bill their own clients if they so desire.

Invoicing is done on a monthly basis. Customers with unpaid, delinquent accounts are not allowed access until payment is received by the Department.

**Pricing**

Charges are detailed in the "LEAS Pricing Schedule". After paying a one-time set-up charge, the customer pays only for the time during which (s)he is connected to the DNR computer. Different hourly connect rates are provided for local Baton Rouge calls, in-state toll-free and out-of-state toll-free calls. There is no charge for each transaction completed. However, if the customer desires to enter the query-based area of LEAS, additional nominal charges are incurred. An annual renewal charge is also used. The Department reserves the right to change its pricing structure and/or prices as needed to recover operating costs in providing LEAS services.

The set-up fee provides to the customer two copies of DNR Oil & Gas On-Line Access Guide for LEAS, four hours of system training at DNR in Baton Rouge, and four hours of LEAS Help Desk support. The set-up fee also covers DNR expenses in application processing and Customer Number authorization and setup.

**Data warranties**

The Department makes no guarantee as to the timeliness of data provided. Delays sometime occur in securing required reporting data from industry, and levels of Department resources available for entering data into the computer often vary. The Department does not guarantee any specified response time for on-line transactions. The Customer is notified that any data provided by the Department is subject to a final audit. Neither the Department, nor any of its employees, makes any warranty, express or implied, or assumes any legalliability or responsibility for the accuracy, completeness or usefulness of any information provided. The Department shall not be responsible for data inconsistencies, whether caused by delay in operation or transmission, communications line failure, errors, omissions, unauthorized use of records, negligence or other causes.

**Hardware needed**

The LEAS customer must provide a personal computer, modem and PC communications software capable of communicating with the Department. LEAS supports VT-100 terminal emulation at speeds up to 9600 BAUD asynchronous. LEAS was developed with, and the Department internally uses, IBM PC-compatible personal computers running ProComm Plus 2.01 (or above) for MS DOS or ProComm Plus for Windows. DNR highly recommends this hardware/software configuration to potential LEAS customers. DNR has limited resources for troubleshooting other hardware configurations and software communication packages, and thus will not guarantee LEAS access using other than IBM compatibles running ProComm Plus.

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**For more information or for an application for on-line access:**

Louisiana Department of Natural Resources
Information Processing Services Division -- LEAS Project Coordinator
P. O. Box 94396, Baton Rouge, LA 70804-9396
PHONE (504) 342-1447 FAX (504) 342-2707
Internet Kenf @ dnr.state.la.us

The Information Processing Division also provides copies of oil and gas records in printed format as well as on magnetic media. Contact the Department for a copy of the publication entitled, "Handbook of Computerized Oil and Gas Information."

Additionally, comprehensive summary statistics, time series, and selected analyses on the entire energy industry (crude oil, natural gas, petroleum refining, cogeneration, electric utilities, lignite, compressed natural gas motor fuels, etc.) are available from the Technology Assessment Division at the address below.

Louisiana Department of Natural Resources
Technology Assessment Division
P. O. Box 94396, Baton Rouge, Louisiana 70804-9396
(504) 342-4593

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**KEN FREEMAN, Information Systems Management Consultant Supervisor**

The staff of LEAS functions under the arm of the department's Management and Finance office. Freeman, who directs the program, says without efficiency, careful planning, and foresight the program would not be as successful or useful as it is to its customers. He says that in a fast-changing, better, quicker, more-more-more age of information and computers, there is constant need for learning and adapting.

Freeman possesses a broad understanding of computer technology from having worked in the information processing field. He has experience on hardware and software from a number of vendors, from IBM, UNISYS and Honeywell mainframes to a variety of personal computer platforms. He has a degree in Mathematics, with emphasis in Computer and Statistical Technology from Louisiana Tech University.

His 30-year career in the information processing field includes work in banking, insurance, the military and in government. Freeman is also a contract technical writer. He is a native of Alexandria, and he and wife Paula have a 22-year old daughter, Julie.

## RODEMACHER ADMINISTERS OFFICE OF MINERAL RESOURCES

The Office of Mineral Resources is composed of four divisions and is responsible for assisting as well as providing staff support to the State Mineral Board. The Mineral Board grants and administers leases on state-owned lands and waterbottoms for the production and development of minerals, primarily oil and gas. Revenues generated from the state leases (including royalties and bonuses) are collected for the state's general fund.

The **Administration Division** issues geophysical permits for conducting geophysical surveys over state-owned lands and waterbottoms. It is responsible for budget, personnel, and purchasing matters and professional services.

The **Geological and Engineering Division** (G&E) provides expertise, advise and recommendations to the Board in the areas of geology and engineering. G&E must obtain, maintain, and analyze numerous kinds of geological, engineering, and related statistics. G&E staff are also responsible for the preparation of geological maps, studies, and research involving drainage, development and unitization problems. A comprehensive database is maintained here.

The **Petroleum Lands Division** handles and maintains the central files for state leases. This division processes all transfers of interest, partial releases, agreements, and is also responsible for keeping an up-to-date listing of the various ownerships of state leases.

The **Mineral Income Division** is the collection and auditing arm of the Mineral Resources Office. This office ensures that all mineral revenues due the State of Louisiana from its leases are collected in a timely manner and are paid accurately. It also monitors and evaluates the possible economic impact of proposed federal and state legislation.

Lease sales results for the 93-94 fiscal year were approximately $14 million. Payments were made to the state through offshore, onshore, dedicated, and agency leases. The 1994-95 fiscal year lease sales (through April) have already exceeded last year's total by $6 million. The Department of Natural Resources is the state's second major revenue collection agency collecting approximately $220 million annually in royalties, rentals and bonuses.

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**Gus Rodemacher**, Assistant Secretary Mineral Resources
A native of Lafayette, Rodemacher has extensive knowledge and experience in the field of economics and finance. With 24 years dedicated to oil and gas exploration, pipeline, processing and distribution interests, his particular specialities are lease management, accounting, and data processing. His former administrative duties have included Vice-President of Financial Services, Vice-President of Corporate Services and Assistant Treasurer for corporate companies. He is a University of Southwestern Louisiana graduate. Rodemacher and his wife, Sandy have three children, Angela, Kyle and Merrick.

"We are presently focusing on ways to increase and enhance exploration in the state as well as improve our information systems to allow industry more accessibility." Rodemacher further acknowledged that the Board has implemented an exclusive geophysical agreement program to study water bottoms. He noted, "the agreement allows exclusive 3-D seismic operations and the possible selection of tracts to enter into lease agreements." Other optional agreements are available through the Mineral Board's new seismic program which began in March. In line with this new direction, the Office of Mineral Resources has begun redesign and re-engineering work to a 20-year old data processing system to keep in step with modern technology.

*Originally Published in May 1995 Louisiana Energy Facts*

# NON-UTILITY GENERATION OF ELECTRICITY IN LOUISIANA

by Alan A. Troy, P.E.

In 1993 Louisiana's private, non-utility electric generating facilities (NUGs) produced 17,251 million Kilowatthours (KWH). This compares to 18,751 million KWH generated in 1992. Industrial plants, primarily cogenerators, generated 93% of the total and the Sidney A. Murray, Jr. Hydroelectric Station the remaining 7%. NUG 1993 production was 22.6% of all electricity generated by all sources within the state. NUG capacity increased about 5.6% to 2,762 egawatts (MW) from 2,608 MW in 1992 .

Although NUG production declined 8% in 1993, total generation by all sources within the state increased 3.5%. Utility net generation increased 7%, reflecting the state's gradually improving economy.

The chemical industry's cogeneration plants produced about 63% of the combined output of the nine industry groups that generated electricity in Louisiana in 1993 (See chart on back). Industrial cogenerators consumed nearly all of their output internally. Of the 16,054 million KWH produced by them, only 2.5% was sold to the electric utilities for distribution on the statewide power grid.

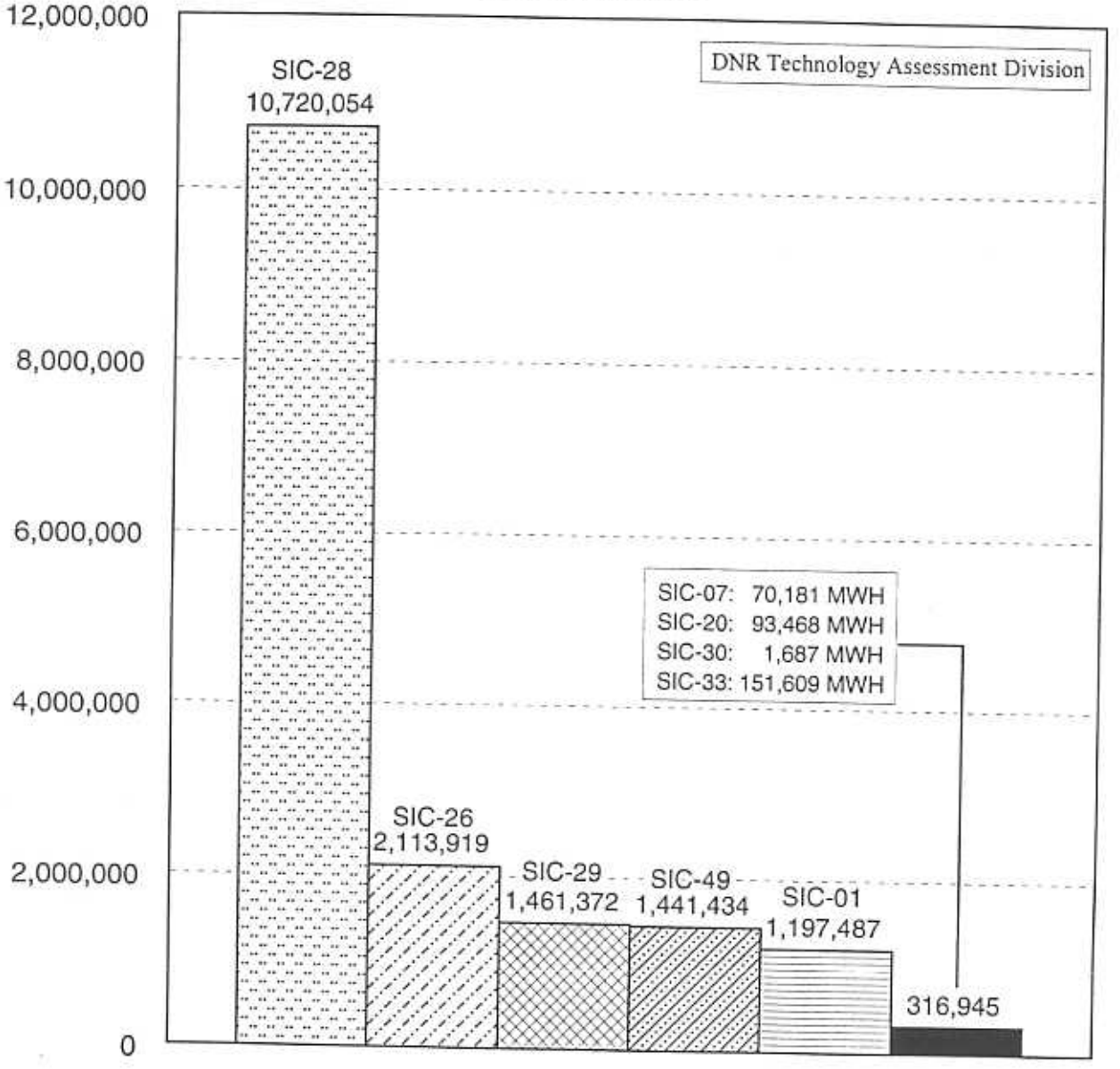
A total of 24 NUGs certified as "qualifying facilities" (QFs) under the Public Utilities Regulatory Policies Act of 1978 sold electricity to the five investor-owned utilities operating in Louisiana in 1994, up from 23 in 1993. Fourteen QFs are located in Louisiana and ten in Texas. Louisiana QFs accounted for about 59% of these sales. Both GSU and SWEPCO purchase cogenerated power from Texas QFs since the service area of both utilities includes portions of both states.

GSU continues to purchase the most QF power. In 1994 the company purchased over 73% of all QF power purchased by Louisiana utilities, slightly less than in 1993. LP&L was next with 25%. The other three utilities (CLECO, SWEPCO, and NOPSI) combined accounted for less than 2%.

The Energy Policy Act of 1992 is designed to foster competition in energy markets. A key provision provides open access to the transmission lines of the utilities by wholesale NUGs. In other parts of the country significant portions of new capacity are being supplied by NUGs, but in Louisiana there continues to be little interest as ample generating capacity appears to be available for several years.

The above information was obtained from DNR's March 1995 Non-Utility Generation of Electricity in Louisiana report, which is now available. The 67-page report is primarily a statistical compilation and graphical representation of data related to the large scale generation of electricity by Louisiana's privately owned industrial NUGs. It includes detailed information on NUG sales to Louisiana electric utilities and aggregate capacity and generating statistics of all identified Louisiana generating sources now in operation. The period covered is generally from 1988-1994, with special emphasis on 1993 and 1994 activity.

# 1993 LOUISIANA NON-UTILITY ELECTRICITY GENERATION
## BY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE
Megawatthours




SIC
Code Type of Industry
01 - Hydroelectric Facilities
07 - Agricultural Services
20 - Food and Kindred Products
26 - Paper and Allied Products
28 - Chemicals and Allied Products
29 - Petroleum Refining and Related Ind.
30 - Rubber and Misc. Plastic Products
33 - Primary Metal Industries
49 - Steam and Air-conditioning Supply

TOTAL GENERATION = 17,251,212 MWH

Source: Edison Electric Institute Statistics Dept.

# SELECTED LOUISIANA ENERGY STATISTICS

Among the 50 states, **Louisiana's** rankings (in 1995 unless otherwise indicated) were:

PRIMARY ENERGY PRODUCTION
(Including Louisiana OCS)
2ND in total energy
2ND in natural gas
3RD in crude oil

REFINING AND PETROCHEMICALS

2ND in refining capacity
2ND in primary petrochemical production

PRIMARY ENERGY PRODUCTION
(Excluding Louisiana OCS)
4TH in natural gas
4TH in crude oil
5TH in total energy

ENERGY CONSUMPTION (1994)

2ND in industrial energy
3RD in per capita energy
3RD in natural gas
5TH in petroleum
6TH in total energy
22ND in residential energy

## PRODUCTION

State controlled (i.e., excluding OCS) natural gas production peaked at 5.6 TCF per year in 1970 and had declined to 1.5 TCF by the end of 1995.

State controlled gas production is on a long term decline rate of 4.2% per year, though the current short term (1996-2000) forecast decline is around 2.0% per year.

State controlled crude oil and condensate production peaked at 566 million barrels per year in 1970 and had declined to 125 million barrels by the end of 1995.

State controlled crude oil production is on a long term decline rate of 4.4% per year, though the current short term (1996-2000) forecast decline is around 3.8% per year. Price changes have so far had little effect on this rate of decline.

Louisiana OCS (federal) territory is the most extensively developed and matured OCS territory in the U.S.

Louisiana OCS territory has produced 90.1% of the 10.2 billion barrels of crude oil and condensate and 83.6% of the 111 TCF of natural gas extracted from all federal OCS territories from the beginning of time through the end of 1994.

Louisiana OCS gas production peaked at 4.2 TCF per year in 1979, declined to 3.0 TCF in 1989, and rose to 3.5 TCF in 1994.

Louisiana OCS crude oil and condensate production peaked at 388 million barrels per year in 1972, declined to 246 million barrels in 1989, and rose to 330 million barrels in 1994.

## REVENUE

At their peak in Fiscal Year (FY) 1981/82, oil and gas revenues from severance, royalties and bonuses amounted to $1.6 billion, or 41% of total state taxes, licenses, and fees. For FY 1995/96, these revenues are estimated to be in the vicinity of $640 million or about 8.9% of total estimated taxes, licenses and fees.

At constant production, the State Treasury gains or loses about $20 million of direct revenue from oil severance taxes and royalty payments for every $1 per barrel change in oil prices. This figure rises to $30 to $40 million per dollar change when indirect revenue impacts are included (e.g., income tax, sales tax, etc.).

## DRILLING ACTIVITY

Drilling permits on state controlled territory peaked at 7631 permits issued in 1984, and had declined to 1065 permits in 1995.

The average active rotary rig count for Louisiana, excluding OCS, reached a high of 386 rigs in 1981, and had fallen 79% to 79 rigs in 1995. The previous low was 64 rigs in 1993.

The average active rotary rig count for Louisiana OCS reached a peak of 75 rigs in 1979 and had fallen 23% to 58 rigs in 1995, which is up from 48 rigs in 1994 and 40 rigs in 1993.

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Note: Louisiana OCS or Outer Continental Shelf is federal offshore territory adjacent to Louisiana's coast beyond the three mile limit of the state's offshore boundary.

TCF = trillion cubic feet

*Updated from Version Originally Published in August 1995 Louisiana Energy Facts*

# LOUISIANA AN ENERGY CONSUMING STATE A CURRENT UPDATE

by William J. Delmar, Jr., P.E.

Louisiana remains one of the leading oil and gas producing states in the country. It ranks sixth in overall energy consumption and second in energy use per capita. The high energy use per capita comes from a high industrial use of energy, and an above average transportation sector use, coupled with a moderate population size.

Statistics on Louisiana energy consumption are produced by the U.S. Department of Energy (DOE). The data normally becomes available long after the consuming period has passed. This year, the 1994 data, is no exception. What is notable is there has been an attempt by DOE to split out and quantify some types of renewable alternative fuel sources such as biofuels and hydropower.

Louisiana consumes 884.3 million BTUs per capita to achieve the ranking of second in energy use per capita. The United States average is 341.0 million BTUs. Louisiana ranks behind only Alaska in per capita energy use and just slightly above Wyoming. Alaska uses 1,050.8 million BTUs per capita by way of comparison.

Louisiana ranks second in industrial energy use and eleventh in transportation energy use. Louisiana also ranks second in the United States in LPG consumption, far behind Texas.

Most of these figures reflect the large refining, chemical and petrochemical industry infrastructure in the state. This energy is used in the manufacture of refined petroleum products and chemical intermediates such as ethylene or propylene, or to produce and deliver crude oil and natural gas throughout the country. Ultimately, this energy is consumed in other areas of the United States.

Much of the natural gas energy consumed in the state is shipped elsewhere in the form of nitrogen fertilizers; ammonia, urea and ammonium nitrate. All of these originate from the use of natural gas as a fuel and a raw material. The energy consumed in Louisiana to manufacture these products is actually energy that does not show in the consumption figures of other states that ultimately use these products.

Oil and gas production and offshore reserves continue to be key assets in Louisiana's economy. However on true balance, Louisiana remains an energy consuming state.

# LOUISIANA ENERGY PRODUCTION AND CONSUMPTION - 1994

| ENERGY SOURCE | PRODUCTION | | CONSUMPTION | NET STATE ENERGY PRODUCTION BY SOURCE | |
|---|---|---|---|---|---|
| | | | | Excluding OCS | Including OCS |
| PETROLEUM | STATE OIL* | 740.1 TBTU[1] (127.6 MMBBL) | 1,554.2 TBTU[2] (296.672 MMBBL) | -814.1 TBTU | +789.6 TBTU |
| | LA. OCS OIL* | 1,603.7 TBTU[3] (276.5 MMBBL) | | | |
| NATURAL GAS | STATE GAS** | 1,601.0 TBTU[1] (1.535 TCF) | 1,688.7 TBTU[2] (1.624 TCF) | -87.7 TBTU | +3,412.6 TBTU |
| | LA. OCS GAS** | 3,500.3 TBTU[3] (3.356 TCF) | | | |
| COAL | LIGNITE | 50.5 TBTU[2] (3.463 MMSTON) | 230.8 TBTU[2] (14,100 MMSTON) | -180.3 TBTU | -180.3 TBTU |
| NUCLEAR ELECTRIC POWER | | 136.4 TBTU[2] (12.779 Billion KWH) | 136.4 TBTU[2] (12.779 Billion KWH) | 0.0 TBTU | 0.0 TBTU |
| HYDROELECTRIC, BIOFUELS & OTHER | | 123.2 TBTU[2] | 123.2 TBTU[2] | 0.0 TBTU | 0.0 TBTU |
| NET INTERSTATE PURCHASES OF ELECTRICITY INCLUDING ASSOCIATED LOSSES | | | 84.5 TBTU[2] (24.772 Billion KWH) | -84.5 TBTU | -84.5 TBTU |
| | | **NET STATE ENERGY PRODUCTION ALL SOURCES** | | -11,166.6 TBTU | +3,937.4 TBTU |

This balance indicates that in 1994, Louisiana was a net consumer of energy if OCS production was not credited to the state. Louisiana imported 11,166.6 TBTU more energy than it produced. In 1994, total energy production in Louisiana was 7,755.3 TBTU (2,651.2 TBTU if OCS is excluded), and consumption totaled 3,817.8 TBTU.

All units are in TBTU except where noted.

*Includes Condensate
**Includes Gas Plant Liquids

DEFICIT(-)/SURPLUS(+)
TCF = Trillion Cubic Feet
TBTU = Trillion BTUs
MMBBL = Million Barrels
OCS = Outer Continental Shelf (Federal)
KWH = Kilowatt hour
MMSTON = Million Short Tons

DATA SOURCES
[1]Louisiana Department of Natural Resources
[2]U.S. Department of Energy
[3]U.S. Department of the Interior

## Louisiana Geological Survey -- Research, Exploration and Service

The first geological survey in Louisiana was authorized by the state legislature in 1841. Act 131 of 1934 permanently established the Louisiana Geological Survey (LGS) and the Executive Reorganization Act of 1975 placed the Survey under the umbrella of the Office of the Secretary of the Department of Natural Resources (DNR).

LGS is a non-regulatory agency. It is charged with conducting geological investigations that produce information useful in developing the state's natural resources and in protecting the environment. Programs are formulated to provide data and/or technical support to regulatory agencies, industry, the public, and academia.

The **Energy & Mineral Resources Section** of LGS conducts regional geological studies generating regional subsurface cross sections, stratigraphic maps, and exploration reports describing recent drilling activity and significant discoveries that could establish new production trends. This research is intended to encourage the exploration and development of oil and gas on state and private lands and maximize the production of the state's remaining oil and gas resources to generate income for Louisiana. Another objective of this section is to interface between science and the needs of the public and provide citizens a variety of information on the energy resources of Louisiana.

Another duty of LGS is the Geologic Review process in which LGS provides to state and federal agencies, including DNR's Coastal Management Division (CMD) and the U.S. Army Corps of Engineers, project specific and general geologic/engineering technical recommendations on matters regarding oil and gas exploration and production.

The **Water Resources Section** performs research on surface and subsurface water sources and various hydrologic processes. The section also offers a wide array of technical assistance to state and federal agencies. Specific studies have dealt with aquifers and water quality, waste site characterizations and assessments, and aquifer mapping. Instructional workshops are available to both regulatory and non-regulatory staff. Several of the workshops require no geological training while others require prior experience.

The **Stratigraphic Section** of LGS conducts ongoing geologic mapping activities, particularly for the recompilation of the geologic map of the state.

The Geological Survey has a **Cartographic Section** which prepares an oil and gas map of Louisiana (onshore and offshore), the official geologic map of the state, intrastate pipeline maps, a recent geologic floodplain map, and aquifer maps. The section also prepares many of the diagrams needed for documents and often designs special publication covers. An Editorial Section provides editing and publishing support.

The **Publications Section** is responsible for the sale of all LGS publications, including maps, booklets, and available geological surveys of Louisiana parishes. The section coordinates the sale and distribution of their materials. In addition, the section handles the preparation, setup, and explanation of exhibits at state and national conventions, seminars, and meetings.

In July of this year, LGS was placed under the Office of Mineral Resources at DNR. This change compliments and strengthens the close working ties the LGS and Mineral Resources have had for many

years. The following programs performed by the Survey demonstrate its mission toward research, exploration and service:

1. Geological Investigations
2. Economic Development
3. Educational Assistance
4. Technology Transfer
5. Natural Hazards
6. Cartography
7. Technical Assistance

Additionally, the Louisiana Geological Survey advises many boards and commissions, including the Low-Level Radioactive Waste Compact Commission and the Interstate Oil and Gas Compact Commission. The Survey is also Louisiana's Earth Science Information Center.

To contact the Louisiana Geological Survey for publications or for other information, call (504) 388-5320.

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**William E. Marsalis, State Geologist**
**Director, Geological Survey**

A native of Mississippi and a registered professional geologist, Marsalis has 31 years experience in the field of geology. He has served as Director of the Louisiana Geological Survey and State Geologist from 1993 until the present. He has also served as advisor to the Louisiana State Mineral Board, and performed a number of other functions for the Geology and Engineering Division of the Office of Mineral Resources. He has advised the Mineral Board on matters relating to the leasing of state property, prudent operation of state leases, interpretation of geologic and seismic data, and state royalties.

Marsalis notes that since the Survey is not a regulatory organization, it is able to conduct studies that are completely objective, ensuring results that are valuable to both the public and private sectors. "Our staff is very devoted and we all look forward to working with the geologists and engineers of the Office of Mineral Resources to combine our professional efforts." Marsalis said the Survey will soon move to office space within Mineral Resources in the downtown DNR building and the move should increase public awareness of LGS. The Survey has been housed on the LSU campus since 1934.

Included among Marsalis' fields of expertise are oil and gas permitting, field mapping, evaluation of water wells, marketing, and oil and gas exploration. He has also conducted risk assessments for the U.S. Dept. of Energy during his involvement with the National Uranium Resource Evaluation Program.

Marsalis earned his B.S. and M.S. in Geology from the University of Alabama. He also studied business at Albany Junior College in Georgia, and attended Tulane University in a Ph.D. program.

Marsalis and his wife Marian have six children, ages 22 - 35.

*Originally Published in September 1995 Louisiana Energy Facts*

# SUMMER HEAT WAVE CHALLENGES LOUISIANA ELECTRIC UTILITIES

by Alan A. Troy, P.E.

The prolonged summer heat wave produced numerous successive peak load records and curtailments to industry by some utilities. Through mid-August the utilities combined systems reserve margin shrank to 6.57% from the most recent historical low of 12.71% set in 1993. The non-coincidental combined systems peak load of 27,230 Megawatts (MW) was 6.2% higher than the 1993 record of 25,633 MW. Meanwhile, the combined generating capability of the state's utilities, including plants located in adjacent states, has remained at about 29,000 MW since 1990. Despite the challenges of the summer of 1995, the utilities continue to maintain that no new generating plants will be needed before the year 2000. If new capacity is needed sooner, they say they have more than 1,300 MW of mothballed plants they can bring into service at a fraction of the cost of a new unit. Total utility peak demand versus generating capability for the period 1982-1995 is shown on the accompanying chart.

Total 1994 generation of a record 60,170 Gigawatthours (GWH) by the state's utility generating plants continued a long-term upward trend. Total retail sales to ultimate consumers in 1994 also continued an upward trend that began in 1987. Since then sales have increased from 58,808 GWH to 70,012 GWH, or about 19%. Every customer sector experienced a gain over 1993 except residential, which declined about 1.5% after a strong 11% gain in 1993. The percent share of sales to each customer sector was 32.5% residential, 21.3% commercial, 42.7% industrial, and 3.5% other. These percent shares have varied little for over 30 years. While there have been some down years, the long-term upward trend of number of customers served, electricity sales, and revenues continues for all customer sectors.

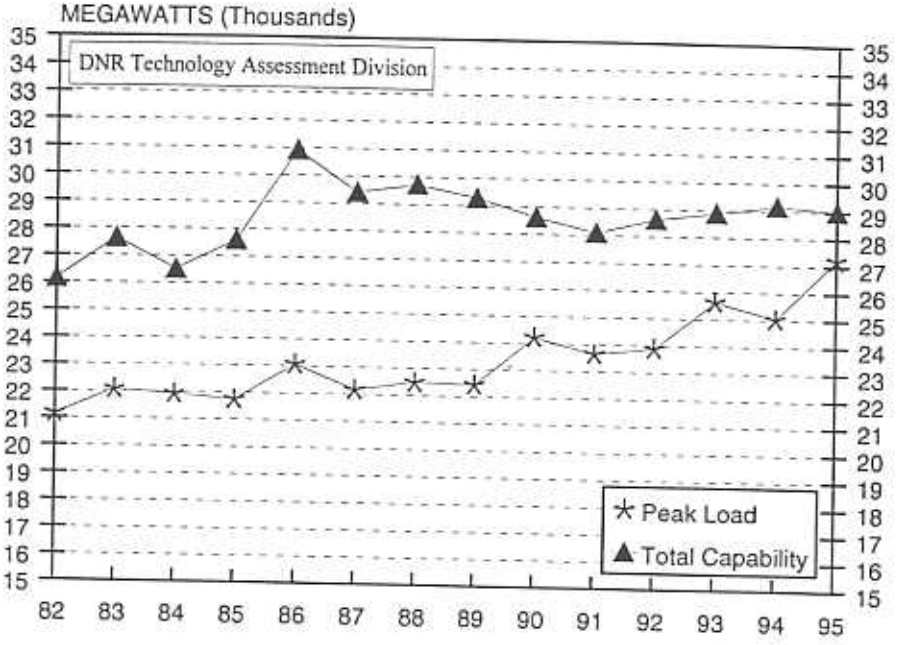
While the average retail price of electricity was lower in 1994 than 1993, the long-term trend is upward for all customer sectors except industrial. The average price paid for electricity by industrial customers peaked in 1985 at 5.18¢/KWH, then sharply declined the following year to 4.37¢/KWH and has been fairly stable ever since. This stability is due to special industrial incentive rates introduced by the utilities during the mid-1980s to discourage industry from building on-site cogeneration plants. These trends are depicted on the accompanying chart for the period 1960-1994.

In 1994 natural gas fueled 44.2% of all electricity generated by Louisiana utility generating plants, up from 40% in 1993. The percent shares of other fuels used were 26.2% coal, 7.3% Louisiana lignite, 21.2% nuclear, and 1.1% oil. These percentages have changed little since 1986, when the 650 MW Dolet Hills lignite-fired plant and the 931 MW River Bend nuclear plant went in service.

The above information was obtained from DNR's August 1995 report **Louisiana Electric Utilities - Volume 2**. The report is the second of a two-volume report on Louisiana's electric power industry that primarily focuses on the utilities operating within the state. Volume 1, published in July 1994, examined the early history and development of the industry as a whole and each utility in particular. Volume 2 focuses on statistics and trends for the period 1960-1995.

## LOUISIANA ELECTRIC UTILITIES COMBINED SYSTEMS NON-COINCIDENTAL PEAK LOAD VS. TOTAL CAPABILITY

1982-1995

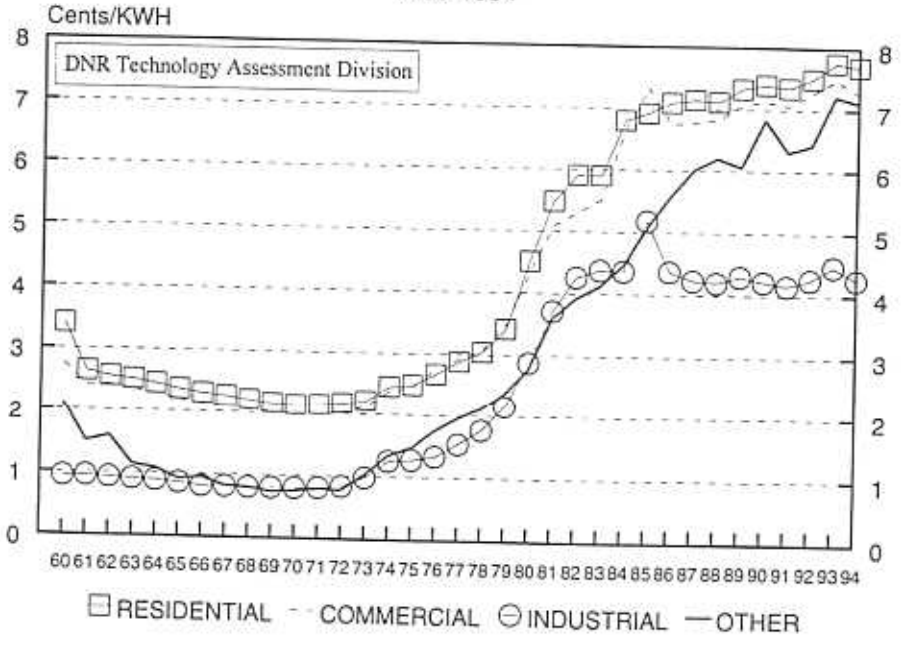



Sources: Annual Reports, Statistical Supplements to Annual Reports;
SEC Form 10-K of Central Louisiana Electric Co., Gulf States Utilities,
Southwestern Electric Power Co., Entergy Corp., & Central & South West Corp.;
and utility representatives.

## LOUISIANA ELECTRIC UTILITIES ELECTRICITY PRICES

BY CUSTOMER SECTOR

1960-1994




Sources: "Statistical Yearbook of the Electric Utility Industry", 1960-1993 Editions, Edison Electric Institute.
1994 only: "Electric Power Monthly", DOE/EIA-0226(95-03), March 1995, Tables 55, 59.