

LOUISIANA ENERGY FACTS ANNUAL

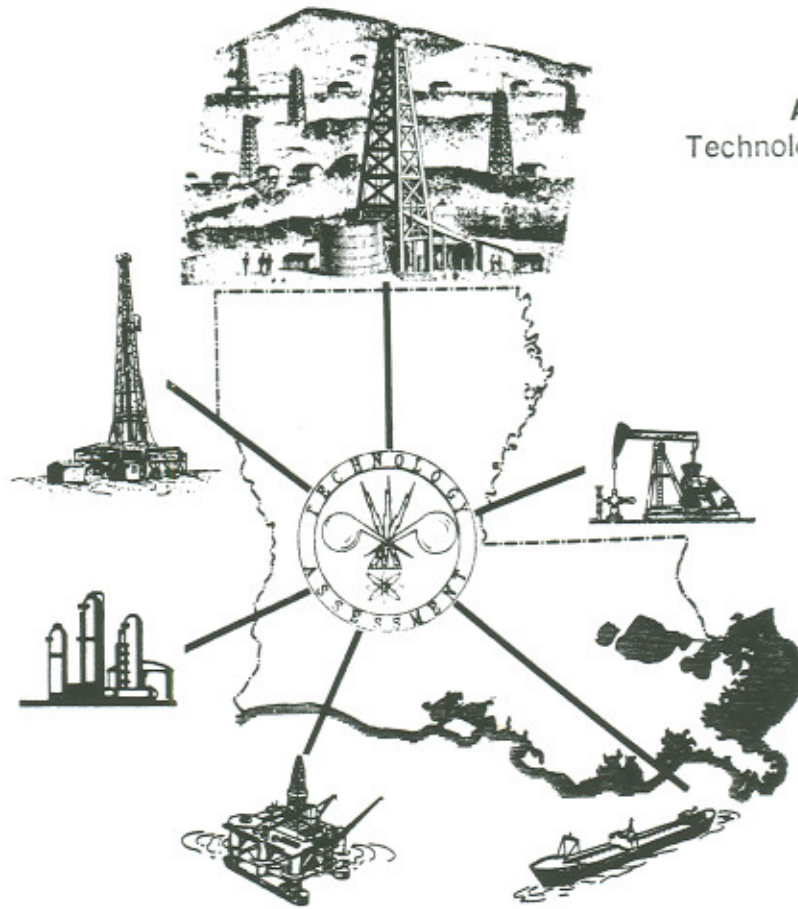
1989

Department of Natural Resources

Ron Gomez
Secretary of Natural Resources

ARCHIVE COPY
Technology Assessment Division

DNR



Technology Assessment Division
T. Michael French, Director
William J. Delmar Jr., Assistant Director
Manuel L. Lam, Senior Analyst
Phyllis S. Ortego, Editor

October 10, 1990

This issue of **Louisiana Energy Facts Annual-1989** is funded 100% (\$456.40) with Petroleum Violation Escrow funds as part of the State Energy Conservation Program as approved by the U.S. Department of Energy and the Department of Natural Resources.

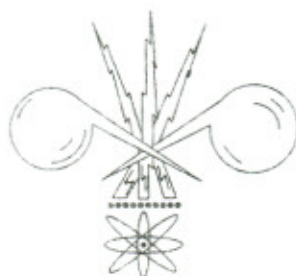
This public document was published at a total cost of \$456.40. 280 copies of this public document were published in this first printing at a total cost of \$456.40. The total cost of all printings of this document, including reprints, is \$456.40. This document was published by the Department of Natural Resources, P.O. Box 94396, Baton Rouge, LA 70804-9396, to promulgate the State Energy Conservation Plan developed under authority of P.L. 94-163. This material was printed in accordance with the standards for printing by State agencies established pursuant to R.S. 43:31.

LOUISIANA ENERGY FACTS ANNUAL

1989

Department of Natural Resources

**Ron Gomez
Secretary of Natural Resources**



**Technology Assessment Division
T. Michael French, Director
William J. Delmar Jr., Assistant Director
Manuel L. Lam, Senior Analyst
Phyllis S. Ortego, Editor**

October 10, 1990

TABLE OF CONTENTS

<u>Table</u>	<u>Page</u>
Introduction	1
PRODUCTION	
1 Louisiana State Crude Oil Production	3
2 Louisiana State Condensate Production	4
3 Louisiana State Oil Production	5
4 Louisiana Oil Production (State and OCS)	6
5 Louisiana Crude Oil and Condensate Severance Taxed Volumes	8
6 United States Crude Oil Production and Imports	9
7 Louisiana State Natural Gas Production	10
8 Louisiana State Casinghead Gas Production	11
9 Louisiana State Gas Production (including casinghead)	12
10 Louisiana Total Gas Production (including OCS)	14
11 Louisiana Gas Severance Taxed Volumes	15
12 Federal OCS Natural Gas Production	16
13 U.S. Natural Gas and Casinghead Production	17
PRICES	
14 Louisiana Average Crude Oil Prices	19
15 U.S. Average Crude Oil Prices	20
16 Louisiana Average Natural Gas Prices	21
17 Louisiana Average Natural Gas Prices Delivered to Consumers	23
18 United States Average Natural Gas Prices	24
DRILLING	
19 Louisiana State Oil and Gas Drilling Permits Issued	26
20 Louisiana Average Rigs Running	27
21 Louisiana Producing Crude Oil Wells	28
22 Louisiana Producing Natural Gas Wells	29
23 Louisiana Well Completions by Type and by Region	31
REVENUE	
24 Louisiana Mineral Royalty Revenue	32
25 Louisiana Mineral Bonuses, Rentals and Royalty Override Revenue	33
26 Louisiana Mineral Severance Tax Revenue	34
RESERVES	
27 Louisiana Estimated Crude Oil Proved Reserves	36
28 Louisiana Estimated Dry Natural Gas Proved Reserves	36
29 Louisiana Estimated Lease Condensate Proved Reserves	37
30 Louisiana Estimated Natural Gas Liquids Proved Reserves ...	37
OTHER	
31 Louisiana Nonagricultural Employment	39
32 Louisiana Energy Consumption Estimate by Source	41
33 Louisiana Refinery Statistics	42
APPENDICES	
A. Data Sources	43
B. Glossary	44
C. Standard Abbreviations for State Names	48
Gas Production at 14.73 psia	49

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
Subdivisions of Louisiana	2
1 Louisiana State Oil Production Actual and Forecasted	7
2 1989 United States Oil Production by State	7
3 Louisiana State Gas Production Actual and Forecasted	13
4 1989 United States Gas Production by State	13
5 Louisiana Oil Production and Price	18
6 Louisiana Gas Production and Price	18
7 Crude Oil Average Prices	22
8 Natural Gas Average Prices	22
9 Louisiana State Drilling Permits Issued	25
10 Louisiana Average Active Rigs	25
11 Louisiana Well Completions by Type	30
12 1989 United States Crude Oil Reserves	35
13 1989 United States Natural Gas Reserves	38
14 Louisiana Energy Consumption by Source	40

INTRODUCTION

Many of the recipients of this publication are also users of our monthly publication, **Louisiana Energy Facts**. The **Energy Facts Annual-1989** contains all of the information and data of the monthly **Facts** issues of January through December of 1989. Once the **Annual** is issued each year, it will no longer be necessary to save the monthly issues from the previous calendar year. Data in the **Annual** is more current, as some preliminary data has been updated or revised since publication in the monthly **Facts**.

Additionally, data coverage in the 1989 annual issue is somewhat extended - historical data is shown for a longer period of time; gas production data is expanded by the addition of marketed production, and the separation of state natural gas production from casinghead gas production; oil production is expanded by the separation of state oil and condensate production; plots are provided of U.S. oil and gas production versus price; reserves figures are added for gas condensate and gas plant liquids; and mineral revenue figures from royalties and severance are added.

We hope you will find this **Annual** useful, and we welcome any comments you may have.

SUBDIVISIONS OF LOUISIANA

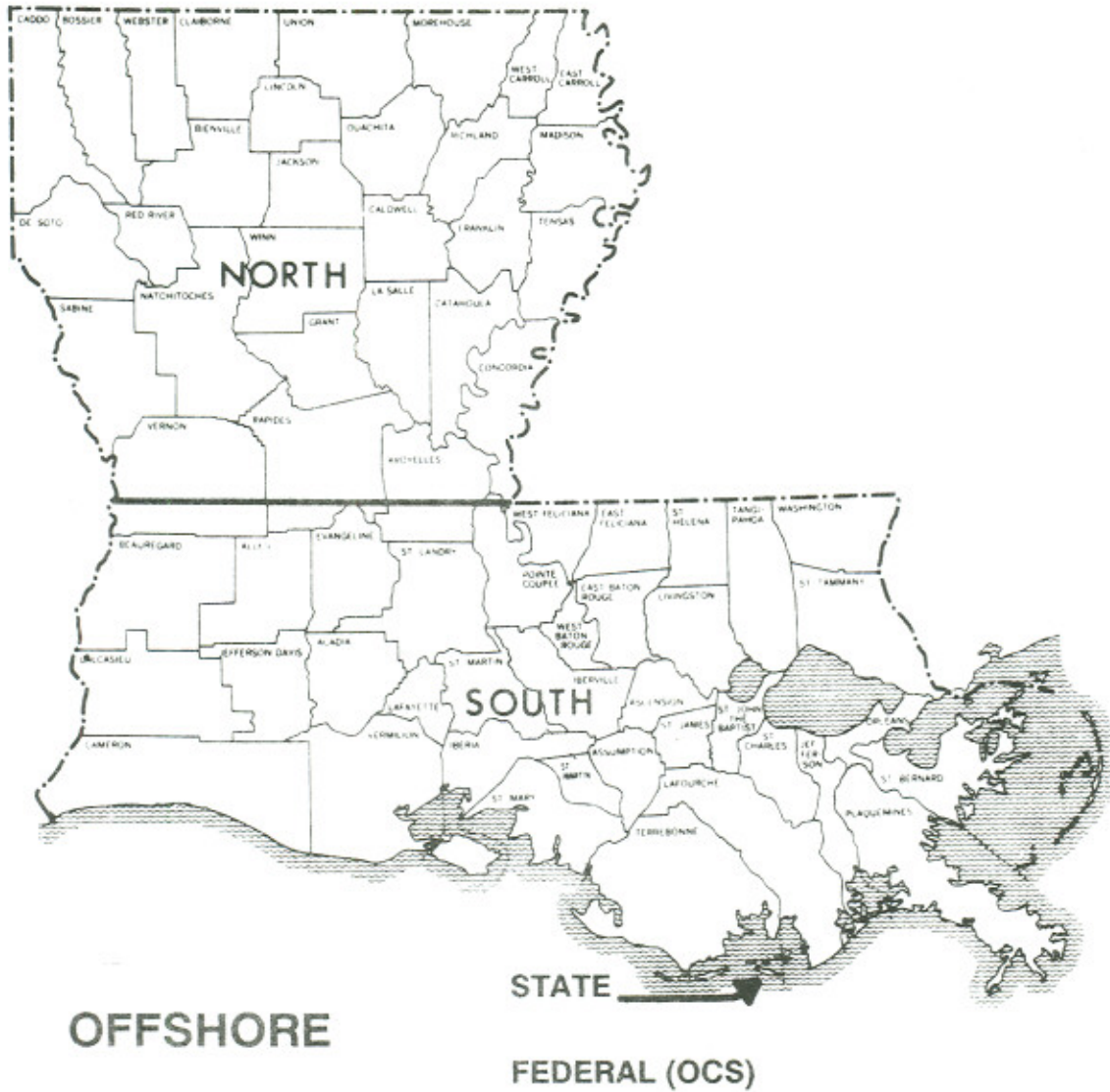


TABLE 1

LOUISIANA STATE CRUDE OIL PRODUCTION
Excluding Federal OCS
(Barrels)

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	43,264,125	367,692,163	64,580,312	475,536,570
1971	42,265,931	367,611,746	63,011,646	472,889,306
1972	40,577,610	333,909,815	65,180,877	439,668,333
1973	36,226,984	293,292,932	49,794,736	379,314,618
1974	35,454,400	246,327,848	42,399,559	324,181,802
1975	34,072,947	211,500,329	37,017,111	282,590,380
1976	34,843,495	190,567,875	34,695,349	260,106,710
1977	33,548,991	169,446,753	30,477,122	233,472,864
1978	31,666,528	151,493,817	28,840,730	212,001,082
1979	28,754,078	130,214,450	26,013,605	184,982,136
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	26,282,310	97,602,333	24,187,900	148,072,543
1987	24,937,474	97,003,536	23,344,055	145,285,065
January	1,961,618	7,632,169	1,975,506	11,569,293
February	1,997,259	7,191,768	1,913,942	11,102,969
March	2,090,733	7,693,177	2,060,229	11,844,139
April	1,972,470	7,417,830	1,945,710	11,336,010
May	2,016,333	7,693,704	2,121,206	11,831,243
June	1,937,010	7,369,770	1,908,330	11,215,110
July	2,005,049	7,503,116	2,003,902	11,512,067
August	2,015,558	7,661,092	1,910,623	11,587,273
September	1,936,590	6,911,640	1,485,420	10,333,650
October	1,994,602	7,342,722	1,921,566	11,258,890
November	1,906,860	7,092,480	1,807,170	10,806,510
December	1,946,304	7,126,807	1,844,159	10,917,270
1988 TOTAL	23,780,386	88,636,275	22,897,763	135,314,424
January	1,897,324	7,252,171	1,801,317	10,950,812
February	1,613,892	6,407,688	1,671,264	9,692,844
March	1,890,907	6,877,102	1,771,743	10,539,752
April	1,845,420	6,675,750	1,759,350	10,280,520
May	1,863,503	6,901,003	1,897,324	10,661,830
June	1,755,810	6,778,320	1,796,280	10,330,410
July	1,830,023	6,670,642	1,867,006	10,367,671
August	1,876,461	6,639,859	1,773,045	10,289,365
September	1,821,750	6,419,850	1,709,100	9,950,700
October	2,051,766	6,286,304	1,672,047	10,010,117
November	1,868,190	6,413,940	1,711,830	9,993,960
December	1,763,590	5,630,251	1,483,040	8,876,881
1989 TOTAL	22,078,636	78,952,880	20,913,346	121,944,862

TABLE 2

LOUISIANA STATE CONDENSATE PRODUCTION
Excluding Federal OCS
(Barrels)

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	4,086,770	78,716,261	8,076,137	90,879,171
1971	3,720,015	71,775,491	7,094,330	82,589,836
1972	3,622,897	67,610,686	6,020,191	77,253,777
1973	3,478,226	63,526,253	5,178,153	72,182,635
1974	3,243,520	53,978,333	4,302,137	61,523,992
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	36,763,102	3,524,770	44,024,584
1979	3,186,441	35,246,616	3,319,153	41,752,216
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	2,673,527	26,907,354	2,068,821	31,649,702
1987	2,578,517	25,104,312	2,009,186	29,692,015
January	257,548	2,389,821	151,342	2,798,711
February	245,891	2,050,793	147,755	2,444,439
March	250,387	2,197,311	171,306	2,619,004
April	215,970	2,147,130	136,050	2,499,150
May	221,464	2,092,593	138,167	2,452,224
June	212,670	1,779,150	134,070	2,125,890
July	190,557	1,857,613	139,593	2,187,763
August	209,653	2,323,450	127,906	2,661,009
September	224,760	1,863,720	118,560	2,207,040
October	232,283	1,903,121	135,532	2,270,936
November	224,190	2,255,190	142,350	2,621,730
December	242,420	2,315,793	160,735	2,718,948
1988 TOTAL	2,727,793	25,175,685	1,703,366	29,606,844
January	251,565	2,337,121	155,589	2,744,275
February	231,280	1,782,928	133,140	2,147,348
March	263,407	2,260,923	147,777	2,672,107
April	242,400	2,260,410	143,760	2,646,570
May	232,097	2,233,457	127,472	2,593,026
June	223,020	2,048,610	144,510	2,416,140
July	219,542	2,076,163	153,512	2,449,217
August	205,344	2,110,108	158,968	2,474,420
September	213,480	2,095,740	128,880	2,438,100
October	217,186	2,128,491	150,319	2,495,996
November	248,670	2,184,450	167,490	2,600,610
December	303,490	2,141,449	144,708	2,589,647
1989 TOTAL	2,851,481	25,659,850	1,756,125	30,267,456

TABLE 3

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

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	47,350,895	446,408,424	72,656,449	566,415,741
1971	45,985,946	439,387,237	70,105,977	555,479,142
1972	44,200,508	401,520,502	71,201,068	516,922,110
1973	39,705,210	356,819,184	54,972,889	451,497,254
1974	38,697,920	300,306,181	46,701,696	385,705,794
1975	37,272,676	257,422,981	40,984,894	335,680,549
1976	38,395,533	232,063,259	38,358,180	308,816,965
1977	37,227,112	209,144,843	33,804,680	280,176,638
1978	35,403,242	188,256,919	32,365,500	256,025,666
1979	31,940,519	165,461,067	29,332,758	226,734,353
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	28,955,837	124,509,687	26,256,721	179,722,245
1987	27,515,991	122,107,848	25,353,241	174,977,080
January	2,219,166	10,021,990	2,126,848	14,368,004
February	2,243,150	9,242,561	2,061,697	13,547,408
March	2,341,120	9,890,488	2,231,535	14,463,143
April	2,188,440	9,564,960	2,081,760	13,835,160
May	2,237,797	9,786,297	2,259,373	14,283,467
June	2,149,680	9,148,920	2,042,400	13,341,000
July	2,195,606	9,360,729	2,143,495	13,699,830
August	2,225,211	9,984,542	2,038,529	14,248,282
September	2,161,350	8,775,360	1,603,980	12,540,690
October	2,220,885	9,245,843	2,057,098	13,529,826
November	2,131,050	9,347,670	1,949,520	13,428,240
December	2,188,724	9,442,600	2,004,894	13,636,218
1988 TOTAL	26,508,179	113,811,960	24,601,129	164,921,268
January	2,148,889	9,589,292	1,956,906	13,695,087
February	1,845,172	8,190,616	1,804,404	11,840,192
March	2,154,314	9,138,025	1,919,520	13,211,859
April	2,087,820	8,936,160	1,903,110	12,927,090
May	2,095,600	9,134,460	2,024,796	13,254,856
June	1,978,830	8,826,930	1,940,790	12,746,550
July	2,049,565	8,746,805	2,020,518	12,816,888
August	2,081,805	8,749,967	1,932,013	12,763,785
September	2,035,230	8,515,590	1,837,980	12,388,800
October	2,268,952	8,414,795	1,822,366	12,506,113
November	2,116,860	8,598,390	1,879,320	12,594,570
December	2,067,080	7,771,700	1,627,748	11,466,528
1989 TOTAL	24,930,117	104,612,730	22,669,471	152,212,318

TABLE 4

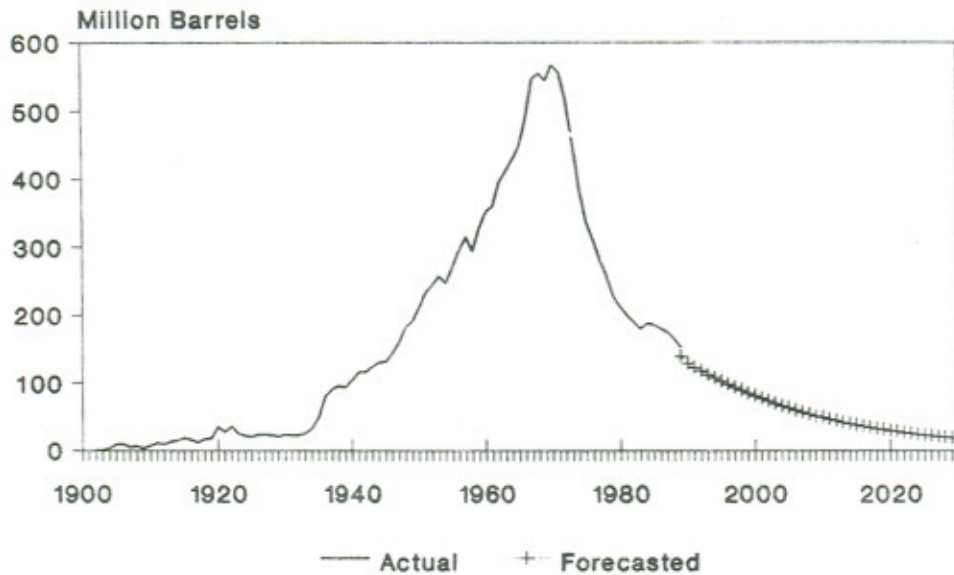
LOUISIANA TOTAL OIL PRODUCTION
CRUDE OIL AND CONDENSATE
(Barrels)

DATE	ONSHORE	-----OFFSHORE-----		TOTAL
		STATE	FEDERAL OCS ¹¹	
1970	493,759,320	72,656,449	333,411,492	899,827,260
1971	485,373,183	70,105,977	385,760,351	941,239,511
1972	445,721,009	71,201,068	387,590,662	904,512,739
1973	396,524,394	54,972,889	374,196,856	825,694,139
1974	339,004,101	46,701,696	342,435,496	728,141,293
1975	294,695,657	40,984,894	313,592,559	649,273,109
1976	270,458,793	38,358,180	301,887,002	610,703,974
1977	246,371,955	33,804,680	290,771,605	570,948,240
1978	223,660,161	32,365,500	278,071,535	534,097,196
1979	197,401,585	29,332,758	271,008,916	497,743,259
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	153,465,524	26,256,721	340,152,276	519,874,521
1987	149,623,839	25,353,241	307,950,881	482,927,961
January	12,241,156	2,126,848	23,397,119	37,765,123
February	11,485,711	2,061,697	21,237,829	34,785,237
March	12,231,608	2,231,535	23,269,148	37,732,291
April	11,752,400	2,081,760	21,958,794	35,793,954
May	12,024,094	2,259,373	23,101,524	37,384,991
June	11,298,600	2,042,400	22,123,715	35,464,715
July	11,556,335	2,143,495	22,219,242	35,919,072
August	12,209,753	2,038,529	21,054,884	35,303,166
September	10,936,710	1,603,980	18,143,086	30,683,776
October	11,472,728	2,057,098	21,017,034	34,546,860
November	11,478,720	1,949,520	21,584,794	35,013,034
December	11,631,324	2,004,894	22,829,360	36,465,578
1988 TOTAL	140,320,139	24,601,129	261,936,530	426,857,798
January	11,738,181	1,956,906	21,912,831	35,607,918
February	10,035,788	1,804,404	21,067,500	32,907,692
March	11,292,339	1,919,520	21,178,348	34,390,207
April	11,023,980	1,903,110	22,241,771	35,168,861
May	11,230,060	2,024,796	22,501,319	35,756,175
June	10,805,760	1,940,790	19,885,117	32,631,667
July	10,796,370	2,020,518	21,620,840	34,437,728
August	10,831,772	1,932,013	20,223,971	32,987,756
September	10,550,820	1,837,980	20,071,667	32,460,467
October	10,683,747	1,822,366	19,427,304	31,933,417
November	10,715,250	1,879,320	19,048,798	31,643,368
December	9,838,780	1,627,748	19,334,480	30,801,008
1989 TOTAL	129,542,847	22,669,471	248,513,946	400,726,264

Note: The 1989 OCS production values are estimated by DOE.

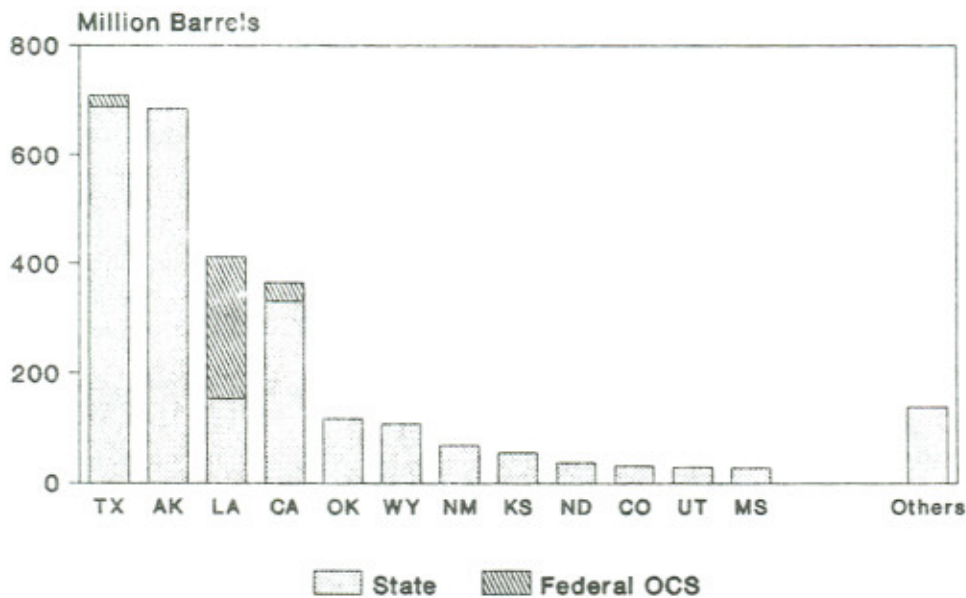
See footnotes in Appendix A.

FIGURE 1
LOUISIANA STATE OIL PRODUCTION
ACTUAL AND FORECASTED THROUGH YEAR 2030



Federal OCS excluded
 Lease condensate included

FIGURE 2
1989 UNITED STATES OIL PRODUCTION
BY STATE



SOURCE: U.S. Department of Energy

TABLE 5

LOUISIANA CRUDE OIL AND CONDENSATE SEVERANCE TAXED VOLUMES⁷
(Barrels)

<u>DATE</u>	<u>FULL RATE</u>	<u>INCAPABLE WELL RATE</u>	<u>STRIPPER WELL RATE</u>	<u>TAXED VOLUME</u>
1970	N/A	N/A	N/A	525,670,228
1971	N/A	N/A	N/A	517,281,402
1972	N/A	N/A	N/A	513,886,345
1973	N/A	N/A	N/A	468,114,075
1974	N/A	N/A	N/A	400,763,777
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
January	18,187,716	374,154	787,272	19,349,921
February	6,305,972	157,652	489,403	6,953,026
March	15,230,707	352,044	799,337	16,382,421
April	14,507,132	234,308	670,097	15,413,110
May	8,070,164	338,875	807,207	9,216,246
June	10,925,137	514,097	830,576	12,271,761
July	16,612,370	322,852	705,680	17,641,257
August	6,844,651	13,784	613,078	7,471,512
September	12,870,179	287,574	706,736	13,865,938
October	9,404,931	208,074	518,315	10,223,453
November	9,616,754	173,871	606,382	10,399,415
December	13,940,034	311,711	708,248	14,962,093
1988 TOTAL	142,605,746	3,288,994	8,242,330	154,150,151
January	12,845,690	281,368	707,716	13,836,108
February	16,185,775	393,576	846,083	17,428,349
March	11,853,593	264,936	612,656	12,735,714
April	10,680,793	390,527	484,976	11,557,955
May	11,433,889	131,610	756,343	2,321,843
June	10,200,511	148,902	621,582	10,984,792
July	12,640,062	188,940	536,981	13,365,983
August	11,465,210	265,344	501,298	12,234,069
September	10,520,921	275,433	712,946	11,509,301
October	9,396,540	339,580	543,074	10,279,194
November	9,105,509	268,836	523,982	9,898,707
December	13,113,759	316,375	581,874	14,013,539
1989 TOTAL	139,442,253	3,265,429	7,429,510	150,165,554

See footnotes in Appendix A.

TABLE 6

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

<u>DATE</u>	<u>ALL FEDERAL¹¹ O C S</u>	<u>TOTAL⁶</u>	<u>IMPORTS⁶</u>
1970	360,646	3,517,500	483,293
1971	418,549	3,453,900	613,417
1972	411,886	3,455,400	811,135
1973	394,730	3,360,900	1,183,966
1974	360,594	3,202,600	1,269,155
1975	330,237	3,056,800	1,498,181
1976	316,920	2,976,200	1,935,012
1977	303,948	3,009,300	2,414,327
1978	292,265	3,178,200	2,319,826
1979	285,566	3,121,300	2,379,541
1980	277,389	3,146,502	1,926,258
1981	289,765	3,128,780	1,640,540
1982	321,211	3,156,885	1,273,120
1983	348,331	3,171,120	1,215,085
1984	370,239	3,249,506	1,253,950
1985	389,324	3,274,553	1,168,297
1986	389,216	3,176,545	1,500,602
1987	366,142	3,033,336	1,672,718
January	28,517	255,582	143,190
February	25,861	242,892	136,080
March	28,146	258,771	148,434
April	27,016	248,028	153,782
May	28,275	254,291	162,269
June	27,088	255,731	151,662
July	27,143	249,820	155,201
August	26,002	249,966	156,194
September	22,583	236,994	155,485
October	25,914	247,206	171,811
November	26,400	239,553	150,497
December	27,722	247,210	161,980
1988 TOTAL	320,667	2,986,044	1,846,585
January	26,873	245,313	171,156
February	25,757	219,245	147,364
March	26,107	235,922	154,783
April	27,190	232,401	172,336
May	27,670	242,013	175,660
June	24,819	229,797	177,449
July	26,904	231,690	192,208
August	25,282	235,271	202,139
September	25,092	226,881	180,936
October	24,285	231,321	191,510
November	23,777	226,932	184,377
December	24,339	228,545	169,988
1989 TOTAL	308,095	2,785,331	2,119,906

See footnotes in Appendix A.

TABLE 7

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

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	403,946,538	3,817,361,693	549,960,194	4,771,268,273
1971	368,528,436	3,773,335,033	542,726,215	4,684,589,683
1972	379,990,285	3,753,810,544	528,116,944	4,661,917,869
1973	361,558,498	3,478,045,408	491,750,423	4,331,354,319
1974	323,453,398	3,071,861,535	459,030,720	3,854,345,600
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	281,294,062	2,060,987,400	460,027,651	2,802,309,118
1979	318,107,055	1,950,222,201	452,020,045	2,720,349,340
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	310,172,187	1,117,276,515	214,603,884	1,642,052,586
1987	303,468,521	1,056,871,942	200,919,741	1,561,260,204
January	26,327,122	87,827,774	19,396,359	133,551,255
February	25,962,221	85,029,972	16,545,399	127,537,592
March	28,241,003	92,049,540	17,970,421	138,261,054
April	26,085,660	87,189,720	16,092,630	129,368,010
May	26,153,026	87,281,864	17,241,828	130,676,718
June	25,517,940	84,719,310	16,487,580	126,724,830
July	26,676,833	88,839,366	16,451,483	131,967,682
August	27,313,604	91,517,456	15,775,466	134,606,526
September	27,255,750	88,501,620	12,812,640	128,570,010
October	27,529,085	91,962,709	15,224,720	134,716,514
November	27,452,100	90,356,670	14,297,400	132,106,170
December	28,640,652	93,468,968	14,581,997	136,691,617
1988 TOTAL	323,155,086	1,068,744,969	192,877,923	1,584,777,978
January	29,177,045	92,265,424	14,400,337	135,842,806
February	26,403,468	82,700,100	13,116,376	122,219,944
March	29,343,081	92,576,540	14,880,186	136,799,807
April	27,961,110	88,076,340	14,399,700	130,437,150
May	28,346,586	89,561,883	15,027,560	132,936,029
June	28,033,860	84,364,710	14,890,260	127,288,830
July	28,346,958	86,611,675	15,674,189	130,632,822
August	27,698,996	86,155,169	16,838,301	130,692,466
September	26,044,170	82,461,690	15,945,090	124,450,950
October	25,573,946	86,465,541	16,253,579	128,293,066
November	28,742,370	85,430,400	16,656,900	130,829,670
December	28,328,420	81,118,537	14,984,036	124,430,993
1989 TOTAL	334,000,010	1,037,788,009	183,066,514	1,554,854,533

TABLE 8

LOUISIANA STATE CASINGHEAD GAS PRODUCTION
Excluding Federal OCS

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

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	51,361,205	608,220,808	66,007,346	725,589,348
1971	47,690,628	580,984,607	76,843,380	705,518,639
1972	43,022,392	530,087,798	82,453,049	655,563,172
1973	37,854,972	436,389,199	65,042,853	539,287,015
1974	35,988,202	339,544,264	57,901,180	433,433,635
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	51,844,750	218,284,389	29,701,044	299,830,185
1979	40,778,004	183,139,583	25,920,034	249,837,622
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	52,868,060	107,270,295	31,532,598	191,670,953
1987	52,923,301	112,459,791	29,292,611	194,675,703
January	4,532,789	9,649,494	2,064,817	16,247,100
February	4,451,761	9,144,454	1,876,648	15,472,863
March	4,942,330	10,156,499	1,995,997	17,094,826
April	4,150,620	9,553,890	2,068,410	15,772,920
May	4,123,527	9,684,338	2,299,177	16,107,042
June	4,077,900	9,121,620	2,162,010	15,361,530
July	4,217,333	9,450,071	2,256,614	15,924,018
August	4,122,349	9,287,600	2,104,683	15,514,632
September	4,030,020	8,313,150	1,552,530	13,895,700
October	4,075,446	9,365,286	2,147,060	15,587,792
November	4,109,190	9,033,300	1,964,040	15,106,530
December	4,066,053	8,901,185	2,046,589	15,013,827
1988 TOTAL	50,899,318	111,660,887	24,538,575	187,098,780
January	4,085,552	8,556,930	1,934,617	14,577,099
February	3,574,228	7,701,512	1,826,748	13,102,488
March	3,895,708	8,147,761	1,705,031	13,748,500
April	3,725,820	8,644,140	2,013,720	14,383,680
May	3,733,981	8,395,823	2,258,877	14,388,681
June	3,441,270	7,895,100	2,117,670	13,454,040
July	3,493,514	8,046,546	2,166,776	13,706,836
August	3,550,709	8,170,236	1,975,072	13,696,017
September	3,229,230	8,184,510	1,959,300	13,373,040
October	3,210,515	7,910,828	2,012,489	13,133,832
November	3,413,400	7,841,130	1,874,850	13,129,380
December	3,262,471	7,192,217	1,700,381	12,155,069
1989 TOTAL	42,616,398	96,686,733	23,545,531	162,848,662

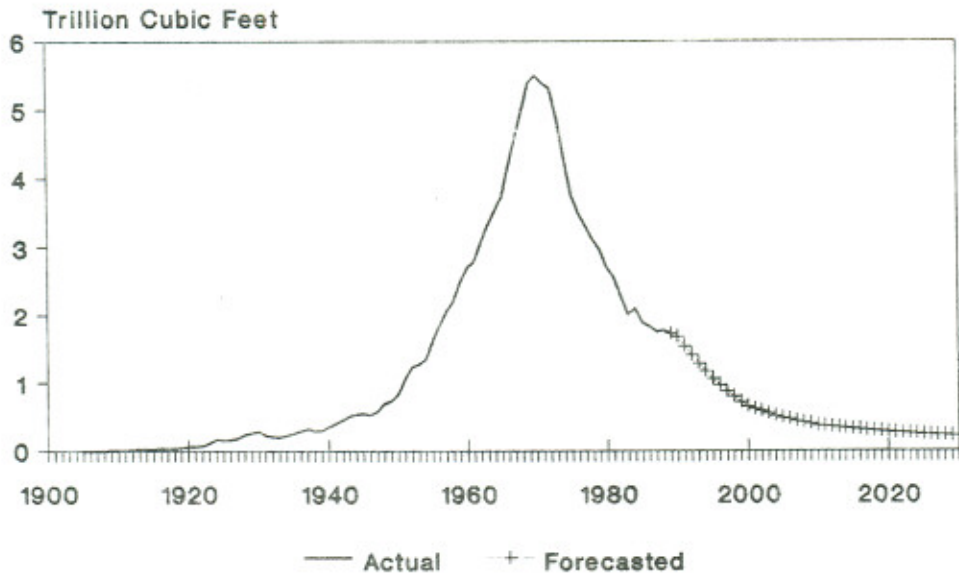
TABLE 9

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

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	455,307,743	4,425,582,501	615,967,540	5,496,857,621
1971	416,219,063	4,354,319,640	619,569,595	5,390,108,322
1972	423,012,677	4,283,898,342	610,569,993	5,317,481,041
1973	399,413,469	3,914,434,607	556,793,276	4,870,641,334
1974	359,441,600	3,411,405,799	516,931,900	4,287,779,235
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	333,138,812	2,279,271,789	489,728,695	3,102,139,303
1979	358,885,059	2,133,361,784	477,940,079	2,970,186,962
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	363,040,247	1,224,546,810	246,136,482	1,833,723,539
1987	356,391,822	1,169,331,733	230,212,352	1,755,935,907
January	30,859,911	97,477,268	21,461,176	149,798,355
February	30,413,982	94,174,426	18,422,047	143,010,455
March	33,183,423	102,206,039	19,966,418	155,355,880
April	30,236,280	96,743,610	18,161,040	145,140,930
May	30,276,553	96,966,202	19,541,005	146,783,760
June	29,595,840	93,840,930	18,649,590	142,086,360
July	30,894,166	98,289,437	18,708,097	147,891,700
August	31,435,953	100,805,056	17,880,149	150,121,158
September	31,285,770	96,814,770	14,365,170	142,465,710
October	31,604,731	101,327,995	17,371,780	150,304,306
November	31,561,290	99,389,970	16,261,440	147,212,700
December	32,706,705	102,370,153	16,628,586	151,705,444
1988 TOTAL	374,054,404	1,180,405,856	217,416,498	1,771,876,758
January	33,262,597	100,822,354	16,334,954	150,419,905
February	29,977,696	90,401,612	14,943,124	135,322,432
March	33,238,789	100,724,301	16,585,217	150,548,307
April	31,686,930	96,720,480	16,413,420	144,820,830
May	32,080,567	97,957,706	17,286,437	147,324,710
June	31,475,130	92,259,810	17,007,930	140,742,870
July	31,840,472	94,658,221	17,840,965	144,339,658
August	31,249,705	94,325,405	18,813,373	144,388,483
September	29,273,400	90,646,200	17,904,390	137,823,990
October	28,784,461	94,376,369	18,266,068	141,426,898
November	32,155,770	93,271,530	18,531,750	143,959,050
December	31,590,891	88,310,754	16,684,417	136,586,062
1989 TOTAL	376,616,408	1,134,474,742	206,612,045	1,717,703,195

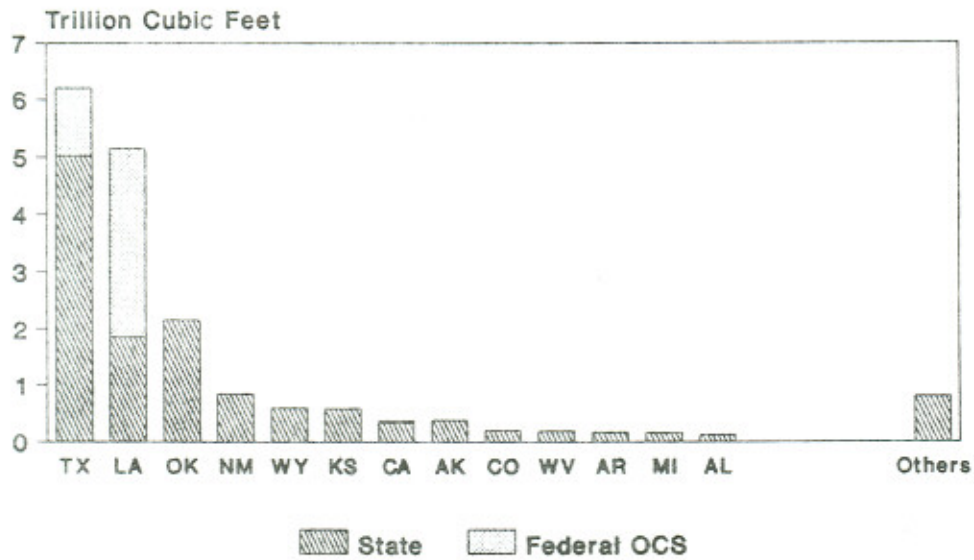
*See Appendix D-1 for corresponding table at 14.73 psia.

FIGURE 3
LOUISIANA STATE GAS PRODUCTION
ACTUAL AND FORECASTED THROUGH YEAR 2030



Federal OCS excluded
 Casinghead gas included

FIGURE 4
1989 UNITED STATES MARKETED GAS
PRODUCTION BY STATE



SOURCE: U.S. Department of Energy
 Federal OCS production is estimated
 from historical dry gas production.

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	-----OFFSHORE-----		TOTAL
		STATE	FEDERAL OCS ¹¹	
1970	4,880,890,081	615,967,540	2,229,258,049	7,726,115,670
1971	4,770,538,727	619,569,595	2,583,157,568	7,973,265,890
1972	4,706,911,048	610,569,993	2,825,732,524	8,143,213,565
1973	4,313,848,058	556,793,276	2,996,631,419	7,867,272,753
1974	3,770,847,335	516,931,900	3,284,506,447	7,572,285,682
1975	3,246,600,660	509,483,387	3,267,832,903	7,023,916,950
1976	2,979,623,179	512,934,932	3,432,291,925	6,924,850,035
1977	2,815,852,679	486,096,208	3,577,088,976	6,879,037,863
1978	2,612,410,607	489,728,695	4,069,609,829	7,171,749,132
1979	2,492,246,883	477,940,079	4,078,230,678	7,048,417,641
1980	2,301,444,051	408,784,123	3,936,212,417	6,646,440,591
1981	2,184,178,953	374,836,303	4,027,208,077	6,586,223,333
1982	1,914,048,856	359,584,749	3,730,298,997	6,003,932,602
1983	1,686,547,772	321,430,150	3,112,612,142	5,120,590,064
1984	1,777,589,302	318,007,698	3,509,643,715	5,605,240,715
1985	1,626,722,303	254,083,634	3,056,704,963	4,937,510,900
1986	1,587,587,057	246,136,482	2,871,302,879	4,705,026,418
1987	1,525,723,555	230,212,352	3,118,706,990	4,874,642,897
January	128,337,179	21,461,176	272,904,401	422,702,756
February	124,588,408	18,422,047	226,930,300	369,940,755
March	135,389,462	19,966,418	263,771,949	419,127,829
April	126,979,890	18,161,040	228,525,138	373,666,068
May	127,242,755	19,541,005	253,971,269	400,755,029
June	123,436,770	18,649,590	278,481,879	420,568,239
July	129,183,603	18,708,097	228,213,298	376,104,998
August	132,241,009	17,880,149	236,882,446	387,003,604
September	128,100,540	14,365,170	237,835,785	380,301,495
October	132,932,526	17,371,780	223,268,410	373,572,716
November	130,951,260	16,261,440	309,175,828	456,388,528
December	135,076,858	16,628,586	277,127,604	428,833,048
1988 TOTAL	1,554,460,260	217,416,498	3,037,088,308	4,808,965,066
January	134,084,951	16,334,954	282,069,960	432,489,865
February	120,379,308	14,943,124	234,551,808	369,874,240
March	133,963,090	16,585,217	272,630,792	423,179,099
April	128,407,410	16,413,420	236,200,209	381,021,039
May	130,038,273	17,286,437	262,500,954	409,825,664
June	123,734,940	17,007,930	287,834,759	428,577,629
July	126,498,693	17,840,965	235,877,896	380,217,554
August	125,575,110	18,813,373	244,838,199	389,226,682
September	119,919,600	17,904,390	245,823,556	383,647,546
October	123,160,830	18,266,068	230,766,932	372,193,830
November	125,427,300	18,531,750	319,559,572	463,518,622
December	119,901,645	16,684,417	286,435,000	423,021,062
1989 TOTAL	1,511,091,150	206,612,045	3,139,089,637	4,856,792,832

NOTE: The 1989 Federal OCS production is estimated from the marketed production using extrapolation.

See footnotes in Appendix A.

*See Appendix D-2 for corresponding table at 14.73 psia.

TABLE 11

LOUISIANA GAS SEVERANCE TAXED VOLUMES⁷
 (Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)

<u>DATE</u>	<u>FULL RATE</u>	<u>INCAPABLE GAS WELLS RATE</u>	<u>OTHER RATES</u>	<u>TOTAL TAXED GAS VOLUME</u>
1970	N/A	N/A	N/A	5,104,947,312
1971	N/A	N/A	N/A	5,036,677,142
1972	N/A	N/A	N/A	4,915,162,138
1973	N/A	N/A	N/A	4,542,119,855
1974	N/A	N/A	N/A	3,284,578,464
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	(4,425,787)	2,998,676,818
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
January	158,207,141	3,080,858	2,760,488	164,048,487
February	82,780,249	3,488,437	988,583	87,257,269
March	184,843,729	5,248,512	2,804,690	192,896,931
April	122,622,496	4,207,373	1,558,104	128,387,973
May	113,242,863	4,318,306	1,315,918	118,877,087
June	116,078,325	5,010,410	1,763,271	122,852,006
July	152,306,537	4,831,241	2,808,985	159,946,763
August	92,093,714	5,131,493	815,742	98,040,949
September	122,603,281	4,751,095	2,104,776	129,459,152
October	108,223,935	5,319,281	2,379,307	115,922,523
November	111,037,647	3,908,727	1,246,754	116,193,128
December	123,398,917	5,414,086	1,824,150	130,637,153
1988 TOTAL	1,487,438,834	54,709,819	22,370,768	1,564,519,421
January	142,767,091	5,561,225	5,537,739	153,866,055
February	163,871,943	3,686,446	2,845,215	170,403,604
March	137,767,552	6,731,882	2,786,117	147,285,551
April	107,258,245	3,023,864	2,714,042	112,996,151
May	126,624,598	4,183,175	1,826,273	132,634,046
June	139,151,129	4,938,303	3,163,612	147,253,044
July	130,537,938	4,311,546	2,398,429	137,247,913
August	120,391,036	3,928,422	2,386,721	126,706,179
September	125,433,786	6,004,575	2,526,326	133,964,687
October	106,869,847	3,840,526	1,311,506	112,021,879
November	103,437,534	3,644,565	1,954,932	109,037,031
December	124,947,230	4,565,113	2,349,474	131,861,817
1989 TOTAL	1,529,057,929	54,419,642	31,800,386	1,615,277,957

See footnotes in Appendix A.

TABLE 12

FEDERAL OCS GAS PRODUCTION, WET AFTER LEASE SEPARATION¹¹
 Natural Gas and Casinghead Gas
 (Thousand Cubic Feet (MCF) at 15.025 psia and 60 degrees Fahrenheit)*

<u>DATE</u>	<u>LOUISIANA</u>	<u>TEXAS</u>	<u>CALIFORNIA</u>	<u>TOTAL</u>
PRIOR	19,497,200	0	0	19,497,200
1954	55,237,581	0	0	55,237,581
1955	79,709,740	0	0	79,709,740
1956	81,292,083	0	0	81,292,083
1957	80,974,602	4,704	0	80,979,307
1958	125,227,407	0	0	125,227,407
1959	203,156,607	0	0	203,156,607
1960	267,762,814	0	0	267,762,814
1961	312,134,873	0	0	312,134,873
1962	443,226,542	0	0	443,226,542
1963	553,456,317	0	0	553,456,317
1964	609,727,302	0	0	609,727,302
1965	633,124,692	0	0	633,124,692
1966	946,748,536	41,247,321	0	987,995,857
1967	1,066,270,380	98,023,096	0	1,164,293,475
1968	1,386,176,953	107,788,675	784,245	1,494,749,873
1969	1,787,355,207	124,643,046	4,752,289	1,916,750,542
1970	2,229,258,049	130,726,694	11,993,032	2,371,977,775
1971	2,583,157,568	124,898,934	15,368,901	2,723,425,403
1972	2,825,732,524	144,315,222	9,839,857	2,979,887,604
1973	2,996,631,419	145,803,107	7,145,863	3,149,580,390
1974	3,284,506,447	156,890,584	5,466,028	3,446,863,059
1975	3,267,832,905	120,206,179	3,875,336	3,391,914,419
1976	3,432,291,925	90,794,882	3,408,103	3,526,494,909
1977	3,577,088,976	85,264,620	3,226,442	3,665,580,037
1978	4,069,609,829	227,380,841	3,405,250	4,300,395,921
1979	4,078,230,678	501,713,025	2,811,471	4,582,755,174
1980	3,936,212,417	612,582,184	3,047,034	4,551,841,635
1981	4,027,208,077	716,175,965	12,519,820	4,755,903,862
1982	3,730,298,987	841,453,994	17,408,196	4,589,161,188
1983	3,112,612,142	834,389,981	15,714,902	3,962,717,025
1984	3,509,643,715	913,312,547	27,270,015	4,450,226,277
1985	3,056,704,963	818,806,104	48,214,971	3,923,726,037
1986	2,871,302,879	959,480,575	41,864,799	3,872,648,253
1987	3,118,706,990	1,181,232,570	40,194,814	4,340,134,374
1988	3,037,088,308	1,155,670,061	33,903,162	4,226,661,531

See footnotes in Appendix A.

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

TABLE 13

U. S. NATURAL GAS AND CASINGHEAD PRODUCTION³
 (Billion Cubic Feet (BCF), at 15.025 psia and 60 degrees Fahrenheit)*

<u>DATE</u>	<u>GROSS</u>	<u>MARKETED</u>	<u>DRY</u>	<u>IMPORTS</u>
1970	23,327	21,497	20,608	805
1971	23,623	22,059	21,193	818
1972	23,552	22,097	21,206	1,000
1973	23,603	22,210	21,311	1,013
1974	22,409	21,183	20,313	941
1975	20,696	19,720	18,865	935
1976	20,539	19,567	18,730	945
1977	20,690	19,639	18,793	991
1978	20,897	19,588	18,753	947
1979	21,461	20,076	19,284	1,229
1980	21,447	19,790	19,028	966
1981	21,171	19,571	18,811	886
1982	19,820	18,162	17,415	915
1983	18,238	16,497	15,723	902
1984	19,802	17,878	17,056	827
1985	19,157	16,866	16,065	931
1986	18,695	16,467	15,683	736
1987	19,669	17,014	16,217	973
January	1,884	1,622	1,548	136
February	1,715	1,477	1,445	115
March	1,787	1,540	1,469	111
April	1,649	1,410	1,346	94
May	1,388	1,444	1,378	92
June	1,620	1,372	1,309	91
July	1,639	1,390	1,326	98
August	1,655	1,410	1,345	92
September	1,575	1,330	1,269	93
October	1,709	1,445	1,379	104
November	1,734	1,473	1,405	119
December	1,825	1,553	1,482	125
1988 TOTAL	20,477	17,464	16,664	1,269
January	1,818	1,559	1,487	117
February	1,671	1,442	1,374	105
March	1,764	1,527	1,455	114
April	1,696	1,456	1,389	111
May	1,727	1,475	1,406	104
June	1,640	1,411	1,346	103
July	1,672	1,435	1,368	99
August	1,663	1,421	1,354	104
September	1,600	1,359	1,295	114
October	1,680	1,433	1,366	119
November	1,731	1,498	1,428	120
December	1,858	1,599	1,525	143
1989 TOTAL	20,521	17,597	16,772	1,351

See footnotes in Appendix A.

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

FIGURE 5
LOUISIANA OIL PRODUCTION AND PRICE

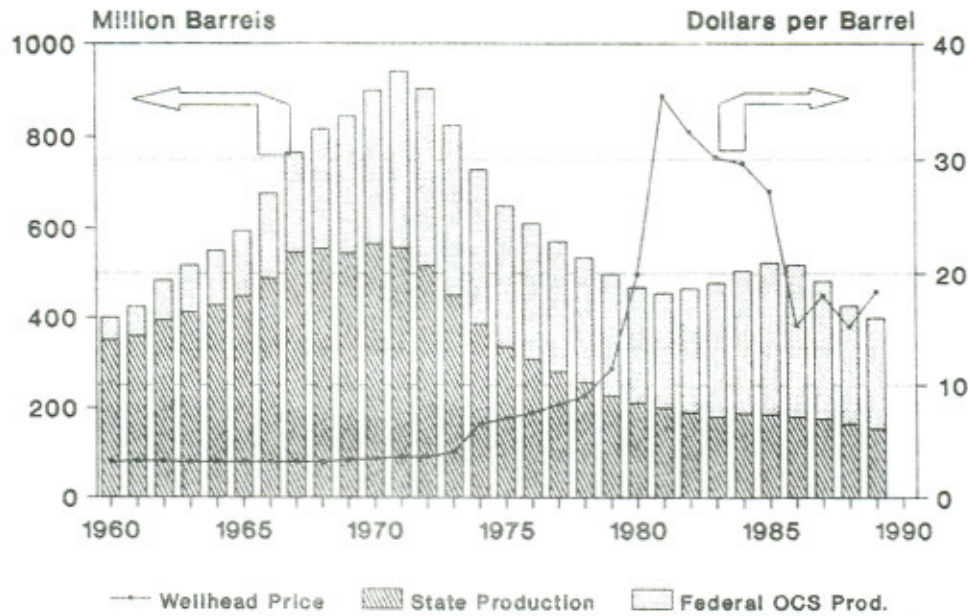


FIGURE 6
LOUISIANA GAS PRODUCTION AND PRICE

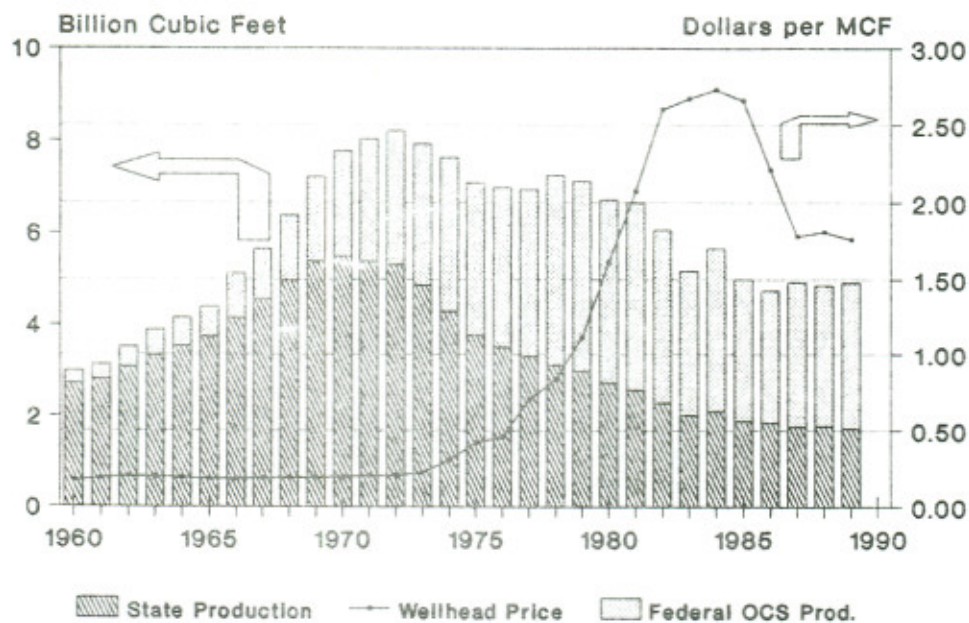


TABLE 14

LOUISIANA AVERAGE CRUDE OIL PRICES
(Dollars/Barrel)

DATE	SOUTH LOUISIANA SWEET		-----ALL GRADES AT WELLHEAD-----			
	SPOT ⁹ MARKET	REFINERY POSTED	STATE ⁵	FEDERAL OCS GULF ⁵	SEVERANCE ⁷ TAXED VOLUME	STATE ROYALTY VOLUME
1970	N/A	N/A	3.38	3.34	N/A	3.04
1971	N/A	N/A	3.59	3.57	N/A	3.59
1972	N/A	N/A	3.59	3.55	N/A	3.59
1973	N/A	N/A	4.00	4.14	N/A	4.11
1974	N/A	N/A	6.53	6.75	N/A	6.29
1975	N/A	8.14	7.09	7.51	6.88	6.75
1976	N/A	11.67	7.51	8.14	7.39	7.13
1977	N/A	12.49	8.33	9.00	7.79	7.46
1978	N/A	13.48	9.03	9.93	8.59	9.85
1979	N/A	19.07	11.42	11.09	10.23	10.03
1980	N/A	23.32	19.87	18.83	17.64	17.80
1981	N/A	33.33	35.45	34.28	33.07	34.94
1982	N/A	32.82	32.44	32.35	33.55	32.33
1983	N/A	30.51	30.20	30.05	30.38	29.02
1984	29.90	30.05	29.67	30.00	29.98	29.47
1985	28.51	27.89	27.22	27.81	27.18	27.41
1986	15.27	16.10	15.32	16.88	17.23	15.77
1987	19.37	18.52	17.97	17.82	17.55	17.79
January	17.77	16.83	16.34	15.97	21.95	16.03
February	17.29	16.53	16.28	15.83	21.22	16.04
March	16.27	16.04	15.59	15.09	16.21	15.35
April	17.77	17.10	16.63	15.99	15.59	16.33
May	17.28	17.29	16.86	16.34	16.37	16.46
June	16.45	16.26	16.16	15.87	16.83	15.31
July	15.63	15.23	14.87	14.47	16.55	14.21
August	15.33	15.07	14.68	14.19	15.17	14.57
September	14.31	14.44	14.10	13.70	14.68	13.63
October	13.70	13.55	13.12	12.69	14.51	13.11
November	14.07	13.90	12.95	12.37	14.34	12.76
December	16.55	15.57	14.61	13.71	13.08	14.72
1988 AVERAGE	16.11	15.66	15.21	15.60	16.37	14.84
January	18.65	17.41	16.63	16.03	13.89	18.19
February	18.11	17.29	16.73	16.55	15.67	16.59
March	19.69	19.28	18.25	17.65	16.76	17.90
April	17.28	20.21	19.51	18.87	18.15	19.69
May	16.72	19.22	19.15	18.79	19.59	19.30
June	14.86	19.49	18.91	18.45	19.34	18.93
July	14.89	18.87	18.81	18.25	19.09	14.27
August	18.12	17.68	17.27	16.75	19.08	16.81
September	19.57	18.92	18.15	17.46	18.05	18.10
October	20.42	19.42	18.70	18.21	17.25	18.72
November	20.41	18.95	18.68	18.26	18.76	18.80
December	21.10	20.28	19.34	18.67	18.83	19.60
1989 AVERAGE	18.32	18.92	18.34	17.83	17.87	18.07

See footnotes in Appendix A.

TABLE 15

U. S. AVERAGE CRUDE OIL PRICES²
(Dollars/Barrel)

DATE	REFINERY ACQUISITION COSTS			WELLHEAD	---IMPORTS---	
	DOMESTIC	IMPORTS	COMBINED		F. O. B.	LANDED
1970	3.46	2.96	3.40	3.18	2.75	N/A
1971	3.68	3.17	3.60	3.39	2.95	N/A
1972	3.67	3.22	3.58	3.39	2.99	N/A
1973	4.17	4.08	4.15	3.89	3.75	N/A
1974	7.18	12.52	9.07	6.74	11.27	N/A
1975	8.39	13.93	10.38	7.56	11.69	12.75
1976	8.84	13.48	10.89	8.19	12.17	13.34
1977	9.55	14.53	11.96	8.57	13.24	14.31
1978	10.61	14.57	12.46	9.00	13.30	14.38
1979	14.27	21.67	17.72	12.64	20.19	21.65
1980	24.23	33.89	28.07	21.59	32.27	33.95
1981	34.33	37.05	35.24	31.77	35.10	36.52
1982	31.32	33.55	31.87	28.52	32.11	33.18
1983	28.87	29.30	28.99	26.19	27.73	28.93
1984	28.53	28.88	28.63	25.88	27.44	28.46
1985	26.66	26.99	26.75	24.09	25.83	26.72
1986	14.82	14.00	14.55	12.51	12.52	13.49
1987	17.76	18.13	17.90	15.40	16.78	17.65
January	15.80	15.45	15.68	13.64	13.66	14.92
February	15.58	15.43	15.53	13.43	13.79	14.72
March	14.91	14.73	14.84	12.96	13.43	14.47
April	15.87	15.62	15.77	13.92	14.28	15.17
May	16.35	15.93	16.18	14.12	14.49	15.52
June	15.74	15.50	15.65	13.59	13.97	14.87
July	14.46	14.81	14.71	12.38	13.25	14.07
August	14.36	14.32	14.34	12.22	12.84	13.64
September	13.96	13.84	13.91	11.63	12.24	13.03
October	12.90	13.05	12.96	10.62	11.69	12.42
November	12.61	12.66	12.63	10.31	11.94	12.49
December	13.88	14.11	13.98	11.99	13.21	14.10
1988 AVERAGE	14.70	14.62	14.68	12.57	13.23	14.12
January	15.49	15.98	15.70	13.79	14.67	15.69
February	16.11	16.59	16.31	14.23	15.49	16.40
March	17.39	17.77	17.55	15.63	16.72	17.48
April	18.92	19.59	19.22	17.01	18.23	18.97
May	19.02	19.06	19.03	16.75	17.52	18.33
June	18.56	18.27	18.43	16.40	16.80	17.61
July	18.31	17.97	18.16	16.32	16.47	17.39
August	17.23	17.23	17.23	15.01	16.12	16.83
September	17.70	17.62	17.66	15.58	16.49	17.28
October	18.20	18.29	18.24	16.24	17.10	17.29
November	18.46	18.32	18.39	16.30	17.34	18.16
December	19.16	20.04	19.54	17.00	18.83	19.55
1989 AVERAGE	17.88	18.06	17.96	15.86	16.82	17.58

F. O. B. = Free on Board

See footnotes in Appendix A.

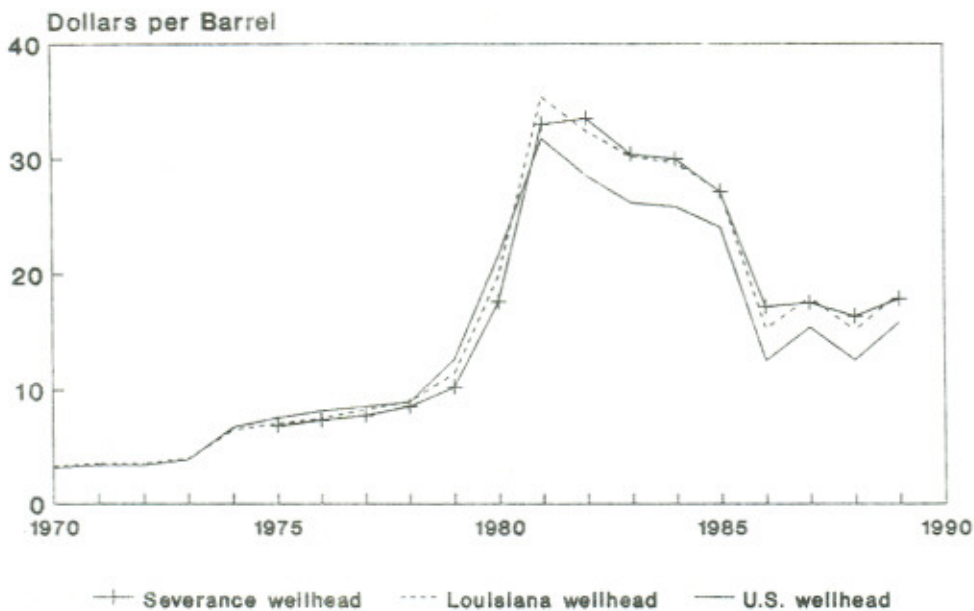
TABLE 16

LOUISIANA AVERAGE NATURAL GAS PRICES
(Dollars/MCF)

DATE	AVERAGE WELLHEAD PRICES FROM				AVERAGE PRICE ³ DELIVERED TO CITY GATES
	FEDERAL ³ OCS WELLS	DOE FILES ³ ALL WELLS	ROYALTY FILES STATE WELLS	SPOT MARKET ⁴ ALL WELLS	
1970	0.18	0.19	0.21	N/A	N/A
1971	0.20	0.20	0.21	N/A	N/A
1972	0.22	0.20	0.22	N/A	N/A
1973	0.23	0.22	0.23	N/A	N/A
1974	0.25	0.31	0.32	N/A	N/A
1975	0.35	0.42	0.39	N/A	N/A
1976	0.46	0.46	0.46	N/A	N/A
1977	0.74	0.70	0.60	N/A	N/A
1978	0.93	0.84	0.79	N/A	N/A
1979	1.26	1.12	1.00	N/A	N/A
1980	1.64	1.61	1.26	N/A	N/A
1981	2.11	2.07	1.67	N/A	N/A
1982	2.65	2.60	2.22	N/A	N/A
1983	2.72	2.67	2.48	N/A	N/A
1984	2.70	2.73	2.54	N/A	3.78
1985	2.72	2.66	2.36	2.51	3.55
1986	2.26	2.21	1.99	1.69	2.95
1987	1.82	1.78	1.66	1.49	2.38
January			1.93	2.04	2.93
February			2.02	2.01	2.97
March			2.02	1.80	3.12
April			1.87	1.49	3.13
May			1.79	1.39	2.91
June			1.68	1.39	3.18
July			1.67	1.46	3.37
August			1.42	1.59	3.36
September			1.63	1.72	3.52
October			1.60	1.69	3.53
November			1.89	1.91	2.75
December			1.91	2.18	3.14
1988 AVERAGE	1.84	1.81	1.79	1.72	2.93
January			2.07	2.16	3.19
February			1.76	1.76	2.89
March			1.43	1.45	2.82
April			1.60	1.55	2.83
May			1.90	1.69	3.04
June			2.01	1.67	2.95
July			1.20	1.64	3.03
August			1.73	1.59	3.13
September			1.50	1.50	3.17
October			2.00	1.55	2.91
November			1.86	1.76	3.00
December			2.15	2.11	3.03
1989 AVERAGE	N/A	N/A	1.73	1.70	3.00

See footnotes in Appendix A.

**FIGURE 7
CRUDE OIL AVERAGE PRICES**



**FIGURE 8
NATURAL GAS AVERAGE PRICES**

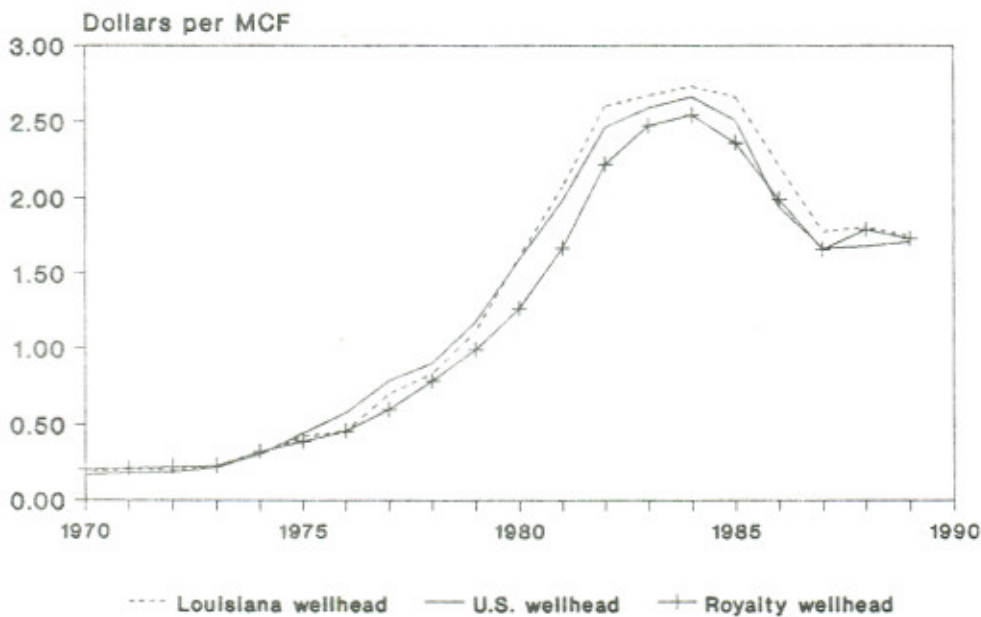


TABLE 17

LOUISIANA AVERAGE NATURAL GAS PRICES DELIVERED TO CONSUMERS³
(Dollars/MCF)

<u>DATE</u>	<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>	<u>INDUSTRIAL</u>	<u>UTILITY</u>	<u>ALL CONSUMERS</u>
1970	0.77	0.38	0.24	0.22	0.27
1971	0.84	0.41	0.27	0.24	0.30
1972	0.91	0.46	0.33	0.27	0.35
1973	0.97	0.51	0.38	0.29	0.40
1974	1.12	0.60	0.63	0.49	0.63
1975	1.37	0.80	0.76	0.54	0.75
1976	1.57	1.10	0.94	0.83	0.96
1977	1.97	1.40	1.18	0.96	1.19
1978	2.47	1.44	0.96	1.18	1.11
1979	2.71	2.28	0.92	1.54	1.27
1980	3.40	2.69	1.28	2.09	1.65
1981	4.15	3.69	1.88	2.82	2.30
1982	5.32	4.93	3.16	3.23	3.36
1983	6.12	5.71	3.13	3.30	3.45
1984	5.96	5.54	3.18	3.18	3.40
1985	5.67	5.28	3.03	2.86	3.19
1986	5.77	5.25	1.91	1.94	2.19
1987	5.56	4.97	1.80	1.67	2.15
January	5.22	5.21	1.90	1.87	2.57
February	4.89	4.80	2.16	1.84	2.73
March	5.23	4.93	2.13	1.56	2.55
April	5.50	4.86	2.09	1.52	2.30
May	6.13	4.98	1.87	1.54	2.03
June	6.53	5.07	1.79	1.62	1.97
July	6.79	5.26	1.78	1.69	1.96
August	7.33	5.48	1.80	1.75	2.00
September	7.02	5.34	1.87	1.83	2.12
October	7.51	6.49	1.94	1.73	2.25
November	6.90	6.29	2.03	1.82	2.41
December	5.43	5.64	2.23	1.63	2.68
1988 AVERAGE	5.31	5.27	1.92	1.63	2.23
January	5.37	5.19	2.34	1.80	2.78
February	5.21	4.97	2.29	1.81	2.74
March	4.86	4.74	1.99	1.59	2.37
April	5.75	5.02	1.78	1.66	2.16
May	6.40	4.88	1.82	1.82	2.07
June	7.08	5.49	1.90	1.85	2.12
July	7.21	5.27	1.91	1.86	2.11
August	7.59	5.62	1.89	1.79	2.09
September	7.56	5.65	1.87	1.71	2.07
October	7.28	5.56	1.82	1.69	2.07
November	6.76	5.79	1.89	1.66	2.30
December	5.95	5.66	2.10	2.03	2.82
1989 AVERAGE	6.42	5.32	1.97	1.77	2.31

See footnotes in Appendix A.

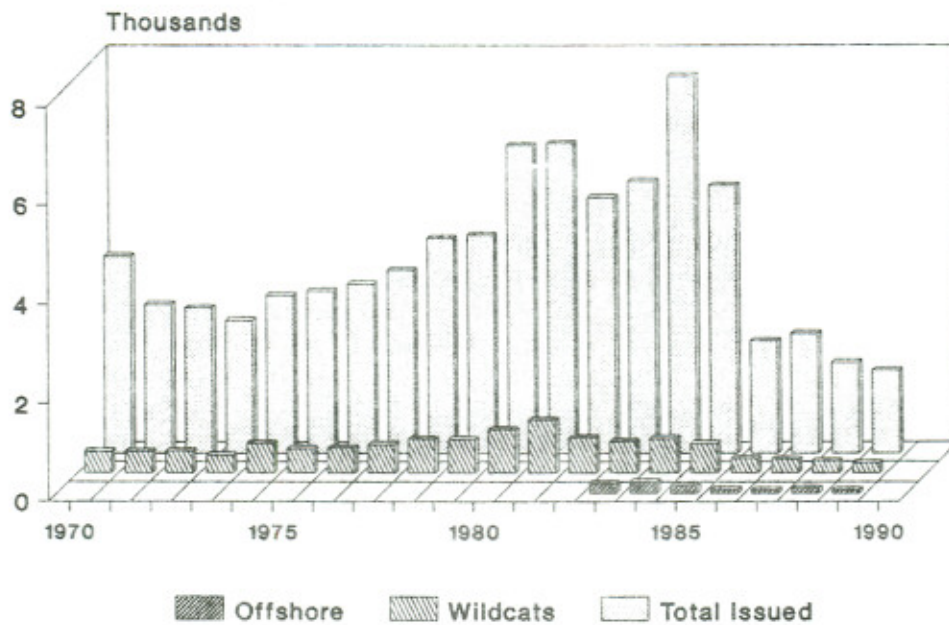
TABLE 18

 UNITED STATES AVERAGE NATURAL GAS PRICES³
 (Dollars/MCF)

DATE	---MAJOR PIPELINES---			CITY GATE	DELIVERED TO CONSUMERS
	WELLHEAD ALL WELLS	FOREIGN IMPORTS	PURCHASE FROM PRODUCERS		
1970	0.17	N/A	N/A	0.35	0.59
1971	0.18	N/A	N/A	0.39	0.63
1972	0.19	N/A	N/A	0.43	0.68
1973	0.22	N/A	N/A	0.46	0.73
1974	0.30	N/A	N/A	0.57	0.89
1975	0.45	N/A	N/A	0.80	1.19
1976	0.58	N/A	N/A	0.98	1.47
1977	0.79	N/A	N/A	1.31	1.78
1978	0.91	2.21	0.83	1.47	1.98
1979	1.18	2.60	1.22	1.81	2.34
1980	1.59	4.42	1.63	2.41	2.91
1981	1.98	4.84	2.15	2.88	3.51
1982	2.46	4.94	2.72	3.60	4.32
1983	2.59	4.51	2.93	4.04	4.82
1984	2.66	4.08	2.91	3.89	4.85
1985	2.51	3.10	2.85	3.75	4.72
1986	1.94	2.53	2.39	3.22	4.13
1987	1.67	2.14	2.10	2.87	4.05
January	1.96	1.64	2.04	2.92	4.41
February	1.84	2.03	2.22	2.95	4.39
March	1.70	2.09	2.03	2.87	4.26
April	1.59	2.01	2.12	2.79	4.10
May	1.52	2.02	1.17	2.75	3.84
June	1.53	1.98	2.05	2.88	3.54
July	1.56	2.34	1.94	2.87	3.36
August	1.62	1.88	2.09	2.93	3.39
September	1.53	2.00	2.13	3.05	3.60
October	1.68	1.94	2.31	2.92	3.94
November	1.76	1.98	2.19	2.98	4.31
December	1.89	2.14	2.25	3.08	4.55
1988 AVERAGE	1.68	2.00	2.05	2.92	3.97
January	2.00	1.77	2.35	3.16	4.65
February	1.82	2.21	2.16	3.11	4.58
March	1.70	1.99	2.17	2.89	4.42
April	1.57	2.01	2.22	2.83	4.13
May	1.62	2.02	2.11	2.94	3.91
June	1.65	2.04	2.04	2.98	3.67
July	1.66	1.88	1.99	3.08	3.52
August	1.62	2.24	2.05	3.04	3.53
September	1.59	2.02	2.07	2.99	3.60
October	1.62	2.17	2.04	2.84	3.83
November	1.72	2.13	2.23	2.97	4.24
December	1.91	2.08	2.39	3.09	4.58
1989 AVERAGE	1.71	2.05	2.15	2.99	4.06

See footnotes in Appendix A.

FIGURE 9
LOUISIANA STATE DRILLING PERMITS ISSUED



Federal OCS excluded

FIGURE 10
LOUISIANA AVERAGE ACTIVE RIGS

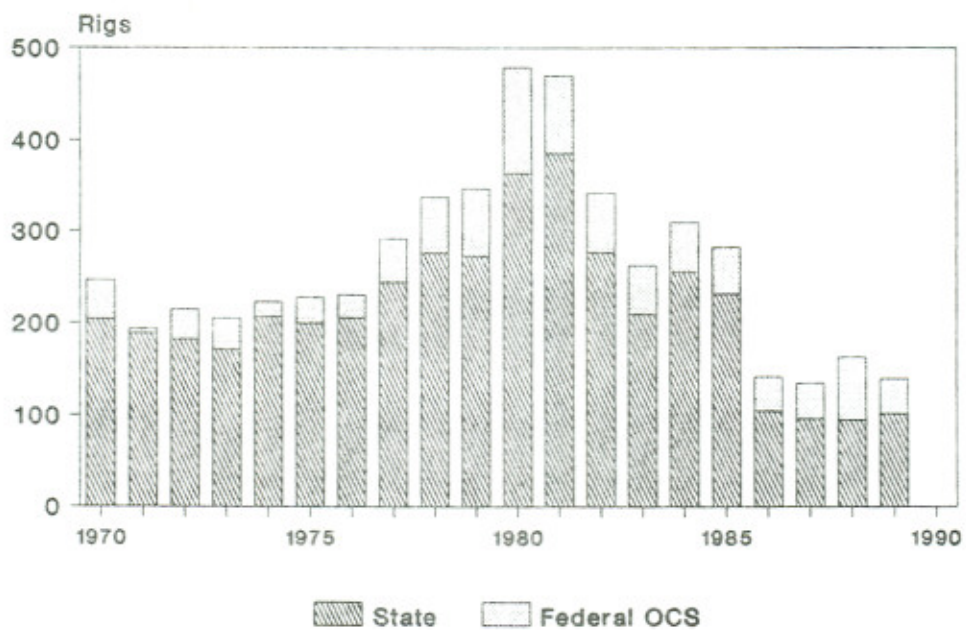


TABLE 19

LOUISIANA STATE OIL AND GAS DRILLING PERMITS ISSUED
BY TYPE FOR AREAS UNDER STATE JURISDICTION

<u>DATE</u>	<u>WILDCATS</u>	<u>+ DEVELOPMENTAL</u>	<u>= TOTAL</u>	<u>= OFFSHORE</u>	<u>+ ONSHORE</u>
1970	447	3,535	3,982	N/A	N/A
1971	441	2,570	3,011	N/A	N/A
1972	453	2,487	2,940	N/A	N/A
1973	370	2,318	2,688	N/A	N/A
1974	610	2,584	3,194	N/A	N/A
1975	513	2,773	3,286	N/A	N/A
1976	515	2,913	3,428	N/A	N/A
1977	588	3,119	3,707	N/A	N/A
1978	695	3,657	4,352	N/A	N/A
1979	694	3,725	4,419	N/A	N/A
1980	893	5,344	6,237	N/A	N/A
1981	1,086	5,195	6,281	N/A	N/A
1982	727	4,454	5,181	N/A	N/A
1983	642	4,852	5,494	201	5,293
1984	702	6,929	7,631	231	7,400
1985	599	4,811	5,410	165	5,245
1986	298	1,984	2,282	84	2,198
1987	284	2,148	2,432	73	2,359
January	18	125	143	8	135
February	17	126	143	4	139
March	21	137	158	4	154
April	16	145	161	8	153
May	22	160	182	7	175
June	27	206	233	15	218
July	24	128	152	7	145
August	21	133	154	6	148
September	23	126	149	10	139
October	24	121	145	8	137
November	21	94	115	7	108
December	15	100	115	10	105
1988 TOTAL	249	1,601	1,850	94	1,756
January	13	74	87	3	84
February	14	74	88	7	81
March	10	113	123	6	117
April	18	113	131	9	122
May	17	134	151	5	146
June	23	132	155	7	148
July	15	106	121	6	115
August	26	173	199	0	199
September	20	130	150	7	143
October	23	183	206	7	199
November	17	140	157	10	147
December	8	114	122	8	114
1989 TOTAL	204	1,486	1,690	75	1,615

TABLE 20

LOUISIANA AVERAGE RIGS RUNNING (BAKER HUGHES)

DATE	NORTH ⁴	SOUTH-INLAND ⁴		OFFSHORE	TOTAL	FEDERAL	TOTAL ⁴
		WATER	LAND		STATE	O C S	
1970	12	57	56	79*	204*	N/A	204
1971	16	50	54	74*	193*	N/A	193
1972	20	54	60	82*	216*	N/A	216
1973	23	56	55	71*	205*	N/A	205
1974	29	58	49	67*	203*	N/A	203
1975	31	55	64	50	200	27	227
1976	34	49	65	57	205	26	231
1977	45	56	81	62	245	47	292
1978	40	63	114	60	277	62	338
1979	35	62	112	64	273	75	347
1980	55	77	156	76	364	63	427
1981	58	83	160	85	386	69	456
1982	40	60	108	69	277	67	344
1983	29	47	82	51	210	73	283
1984	30	51	96	78	256	54	310
1985	25	44	86	78	232	52	283
1986	12	20	42	31	105	38	143
1987	11	23	36	26	100	39	135
January	10	34	47	15	106	76	82
February	14	41	32	21	108	68	176
March	10	31	39	18	97	72	169
April	12	29	40	20	101	70	171
May	13	36	30	20	99	67	166
June	13	25	36	18	91	74	165
July	13	25	34	33	105	59	164
August	16	28	27	15	86	69	155
September	19	18	31	25	93	54	147
October	15	18	34	16	82	66	148
November	16	18	36	22	91	66	157
December	16	17	38	15	85	76	161
1988 AVERAGE	14	27	35	20	95	68	163
January	14	13	36	16	79	63	142
February	14	15	33	23	84	44	128
March	12	17	37	26	91	36	127
April	18	17	40	27	101	31	132
May	16	16	36	20	88	42	130
June	14	20	33	23	89	48	137
July	9	19	28	31	87	50	137
August	21	18	29	44	111	33	144
September	17	15	33	48	112	22	134
October	20	20	33	51	124	20	144
November	19	19	38	45	120	35	155
December	22	20	45	48	135	32	167
1989 AVERAGE	16	17	35	33	102	38	140

*Includes Louisiana Federal OCS

See footnotes in Appendix A.

TABLE 21

LOUISIANA PRODUCING CRUDE OIL WELLS
Excluding Federal OCS

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	13,166	3,341	1,179	17,685
1971	12,889	3,188	1,107	17,184
1972	12,475	3,002	1,048	16,526
1973	11,698	2,838	1,025	15,561
1974	11,984	2,798	985	15,766
1975	12,259	2,827	936	16,022
1976	12,393	2,819	1,073	16,285
1977	12,915	2,797	1,067	16,778
1978	13,019	7,219	1,086	21,324
1979	12,961	6,859	1,078	20,898
1980	13,981	6,832	1,073	21,885
1981	15,084	6,777	1,105	22,966
1982	15,540	6,608	1,112	23,259
1983	16,299	6,374	1,037	23,710
1984	17,544	6,300	1,038	24,882
1985	18,794	6,223	1,014	26,031
1986	19,346	6,061	1,001	26,408
1987	18,630	5,768	945	25,343
January	18,224	5,687	1,001	24,912
February	17,668	5,763	993	24,424
March	18,425	5,916	984	25,325
April	18,243	5,735	987	24,965
May	17,989	5,773	988	24,750
June	17,926	5,702	980	24,608
July	17,926	5,777	943	24,646
August	17,968	5,687	923	24,578
September	17,601	5,628	925	24,154
October	17,852	5,562	948	24,362
November	17,857	5,577	946	24,380
December	17,759	5,569	950	24,278
1988 TOTAL	17,953	5,698	964	24,615
January	17,133	5,664	968	23,765
February	17,003	5,710	938	23,651
March	16,974	5,604	934	23,512
April	17,198	5,489	931	23,618
May	17,196	5,551	934	23,681
June	16,552	5,392	928	22,872
July	17,002	5,486	894	23,382
August	16,856	5,489	925	23,270
September	16,419	5,436	923	22,778
October	16,049	5,300	925	22,274
November	17,114	5,310	924	23,348
December	16,691	5,253	903	22,847
1989 TOTAL	16,849	5,474	927	23,250

TABLE 22

LOUISIANA PRODUCING NATURAL GAS WELLS
Excluding Federal OCS

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	4,511	1,643	311	6,465
1971	4,449	1,581	327	6,357
1972	4,664	1,517	316	6,498
1973	4,927	1,492	332	6,751
1974	5,159	1,473	313	6,944
1975	5,373	1,394	308	7,075
1976	5,851	1,396	362	7,609
1977	6,343	1,408	449	8,200
1978	6,915	3,253	472	10,640
1979	7,372	3,214	514	11,100
1980	8,360	3,277	551	12,188
1981	9,479	3,226	557	13,262
1982	10,154	3,136	564	13,855
1983	10,502	3,065	549	14,116
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
January	10,863	2,565	424	13,852
February	10,754	2,555	432	13,741
March	10,709	2,551	439	13,699
April	10,673	2,558	435	13,666
May	10,833	2,585	455	13,873
June	10,896	2,599	455	13,950
July	10,715	2,546	444	13,705
August	10,805	2,572	444	13,821
September	10,954	2,479	428	13,861
October	10,903	2,459	431	13,793
November	10,811	2,437	475	13,723
December	10,835	2,561	477	13,873
1988 TOTAL	10,813	2,539	445	13,796
January	10,914	2,491	478	13,883
February	11,128	2,530	475	14,133
March	11,026	2,542	486	14,054
April	10,812	2,512	495	13,819
May	10,956	2,497	484	13,937
June	10,899	2,473	501	13,873
July	10,849	2,419	507	13,775
August	10,856	2,464	525	13,845
September	10,816	2,400	501	13,717
October	10,511	2,418	513	13,442
November	10,748	2,441	521	13,710
December	10,811	2,499	528	13,838
1989 TOTAL	10,861	2,474	501	13,836

FIGURE 11
 LOUISIANA WELL COMPLETIONS BY TYPE
 Excluding Federal OCS

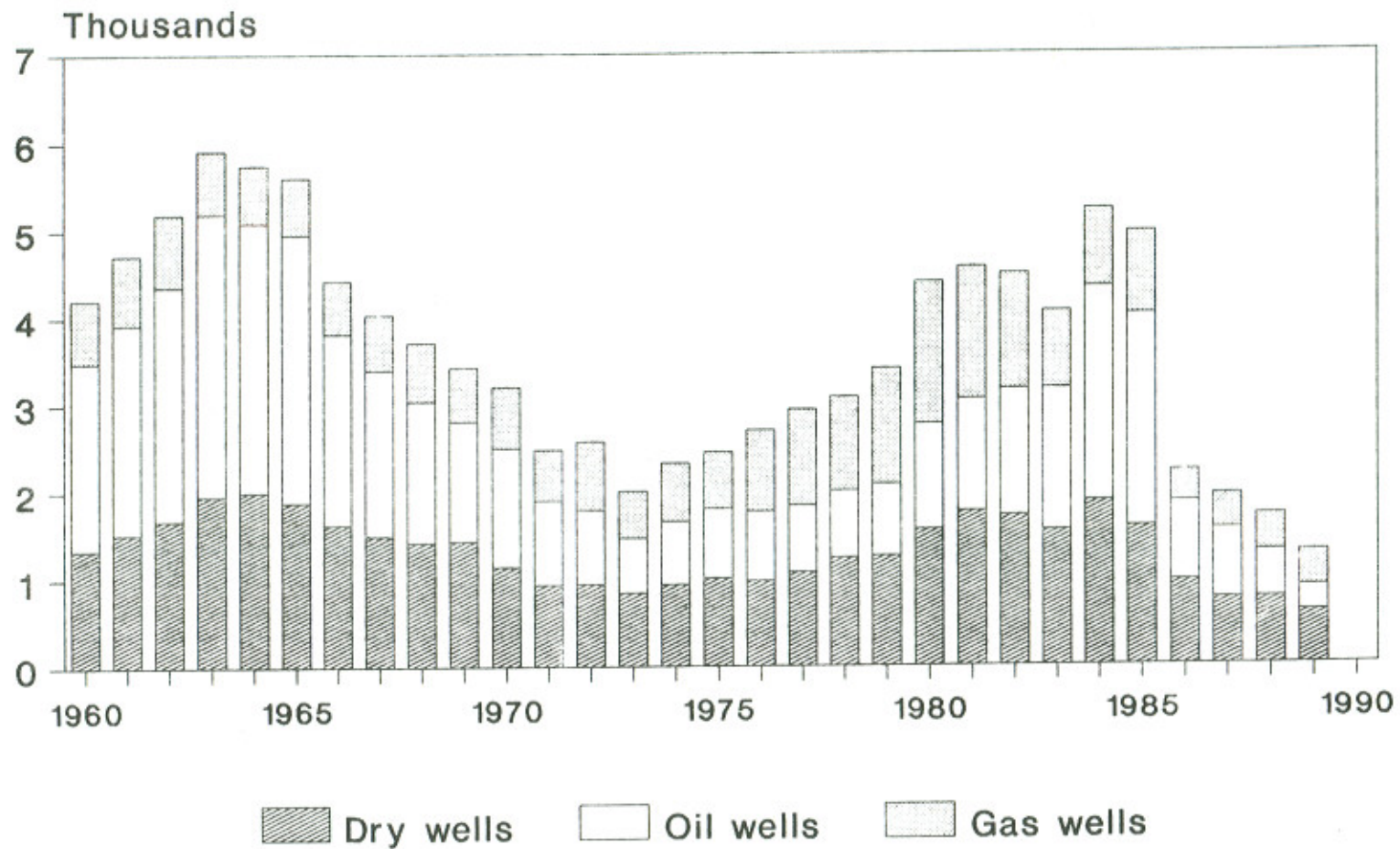


TABLE 23

LOUISIANA WELL COMPLETIONS BY TYPE AND BY REGION

	<u>YEAR</u>	<u>OFFSHORE</u>	<u>SOUTH</u>	<u>NORTH</u>	<u>TOTAL</u>
C R O U I D L E	1975	31	370	395	796
	1976	31	332	434	797
	1977	28	279	453	760
	1978	42	262	467	771
	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	160	293	
N A T G U A R S A L	1975	23	205	420	648
	1976	19	211	705	935
	1977	28	297	773	1,098
	1978	43	302	722	1,067
	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	15	133	250	398	
D R Y	1975	40	580	390	1,010
	1976	32	536	404	972
	1977	23	565	490	1,078
	1978	18	631	589	1,238
	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	751
1988	17	325	418	760	
1989	11	235	352	598	

TABLE 24

LOUISIANA MINERAL ROYALTY REVENUE
Excluding Federal OCS
(Million Dollars)

<u>DATE</u>	<u>OIL</u>	<u>GAS</u>	<u>PLANT PRODUCTS</u>	<u>OTHER MINERALS</u>	<u>TOTAL</u>
1970	108.36	34.55	2.55	1.11	146.57
1971	113.73	35.29	3.04	1.03	153.09
1972	101.63	38.83	3.15	1.21	144.83
1973	100.03	38.67	4.05	1.15	143.90
1974	118.23	42.47	7.01	1.18	168.89
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	195.91
1979	98.30	113.65	11.50	3.36	226.81
1980	158.27	131.95	17.05	3.34	310.61
1981	291.90	160.24	18.20	3.28	473.61
1982	248.44	204.25	14.35	1.82	468.86
1983	224.62	211.84	13.00	1.53	450.99
1984	226.64	210.99	13.06	2.29	452.97
1985	201.14	174.45	9.55	2.62	387.75
1986	122.37	154.13	6.27	1.96	284.74
1987	125.21	119.02	4.68	1.60	250.52
January	9.19	11.95	0.35	0.13	21.62
February	8.45	10.92	0.32	0.12	19.82
March	8.74	11.26	0.39	0.12	20.51
April	8.91	9.35	0.38	0.12	18.75
May	9.44	10.19	0.40	0.13	20.16
June	8.88	8.89	0.36	0.12	18.24
July	8.07	9.57	0.36	0.12	18.12
August	7.63	9.08	0.39	0.10	17.19
September	6.46	8.28	0.34	0.09	15.18
October	7.41	10.07	0.35	0.11	17.94
November	6.85	10.49	0.33	0.09	17.75
December	8.40	11.00	0.35	0.10	19.85
1988 TOTAL	98.42	121.05	4.31	1.34	225.13
January	10.46	11.65	0.35	0.11	22.58
February	8.26	9.02	0.30	0.10	17.68
March	9.73	8.79	0.36	0.12	19.00
April	10.44	8.93	0.34	0.12	19.83
May	10.43	9.52	0.40	0.13	20.48
June	9.63	9.07	0.35	0.12	19.17
July	9.83	9.19	0.34	0.12	19.48
August	8.65	9.28	0.31	0.11	18.35
September	9.03	8.57	0.30	0.11	18.01
October	9.04	9.00	0.30	0.12	18.47
November	9.19	10.26	0.27	0.11	19.84
December	8.28	9.99	0.23	0.12	18.62
1989 TOTAL	112.96	113.29	3.85	1.39	231.49

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

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

TABLE 25

LOUISIANA MINERAL BONUSES, RENTALS AND ROYALTY OVERRIDE REVENUE
 Excluding Federal OCS
 (Million Dollars)

<u>DATE</u>	<u>BONUSES</u>	<u>OVERRIDE ROYALTY</u>	<u>RENTALS</u>	<u>TOTAL</u>
1970	8.05	0.01	N/A	8.06
1971	12.53	0.00	N/A	12.53
1972	8.53	0.00	N/A	8.53
1973	6.56	0.00	N/A	6.56
1974	47.41	0.00	N/A	47.41
1975	27.96	0.00	N/A	27.96
1976	56.02	0.02	N/A	56.04
1977	19.16	0.27	13.62	33.05
1978	97.58	0.48	8.48	106.54
1979	108.67	0.33	22.19	131.18
1980	140.29 ^R	0.51	31.55	281.94 ^R
1981	150.70 ^R	0.81 ^R	49.31	200.82 ^R
1982	61.23 ^R	0.70 ^R	53.66	115.60 ^R
1983	53.03 ^R	0.67 ^R	27.73	81.43 ^R
1984	67.98 ^R	0.80 ^R	21.21	89.99 ^R
1985	32.08 ^R	0.90 ^R	20.86	53.84 ^R
1986	15.89 ^R	0.50 ^R	12.25	28.64 ^R
1987	26.82	0.39	6.70	33.90
January	1.56	0.03	0.83	2.42
February	3.57	0.03	0.48	4.08
March	1.39	0.02	0.74	2.15
April	0.73	0.05	0.51	1.29
May	0.88	0.02	0.43	1.33
June	0.92	0.02	0.26	1.20
July	0.72	0.02	0.62	1.36
August	1.49	0.02	0.58	2.09
September	1.66	0.02	2.17	3.85
October	0.61	0.02	0.61	1.25
November	1.57	0.01	1.36	2.94
December	2.56	0.01	0.69	3.26
1988 TOTAL	17.65	0.29	9.28	27.22
January	0.57	0.01	0.48	1.07
February	1.42	0.02	0.78	2.21
March	0.18	0.02	0.64	0.84
April	1.49	0.01	0.88	2.38
May	0.36	0.02	0.32	0.70
June	1.93	0.02	0.24	2.18
July	0.77	0.04	0.28	1.10
August	1.00	0.02	0.52	1.53
September	0.67	0.02	2.08	2.78
October	0.67	0.04	0.46	1.18
November	2.26	0.02	0.82	3.11
December	0.25	0.03	0.84	1.12
1989 TOTAL	11.59	0.29	8.34	20.21

^RRevised

TABLE 26

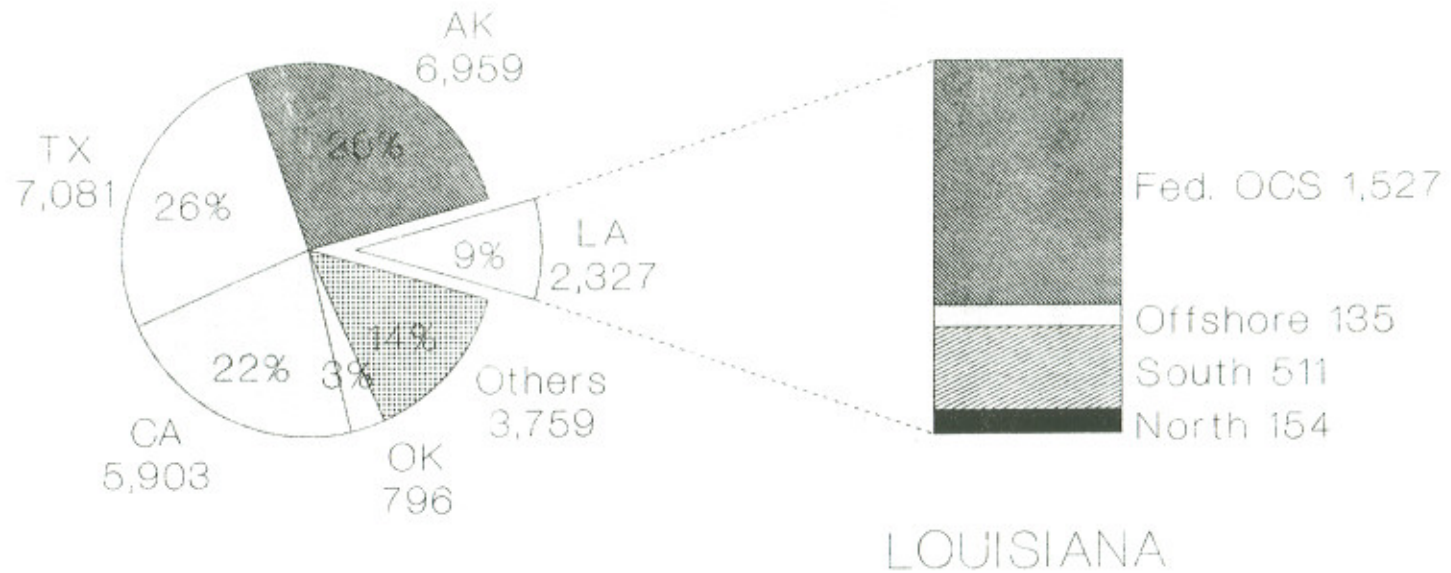
LOUISIANA MINERAL SEVERANCE TAX REVENUE⁷
 Excluding Federal OCS
 (Million Dollars)

<u>DATE</u>	<u>OIL</u>	<u>GAS</u>	<u>OTHER MINERALS</u>	<u>SEVERANCE TOTAL</u>
1970	129.80	116.31	3.57	249.67
1971	127.76	115.03	3.59	246.38
1972	117.29	130.68	3.41	251.38
1973	106.62	169.80	3.62	280.05
1974	276.71	221.58	3.67	501.95
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
January	50.87	10.70	0.26	61.84
February	17.34	6.72	0.22	24.27
March	31.16	13.08	0.20	44.44
April	28.34	8.68	0.21	37.24
May	16.71	8.02	0.24	24.97
June	23.41	8.24	0.25	31.90
July	34.57	10.81	0.21	45.60
August	13.05	6.54	0.25	19.85
September	23.83	8.71	0.19	32.74
October	17.34	7.73	0.19	25.27
November	17.00	7.95	0.24	25.20
December	22.82	9.10	0.17	32.09
1988 TOTAL	296.45	106.29	2.65	405.39
January	22.42	10.22	0.17	32.81
February	32.23	11.77	0.08	44.09
March	25.02	9.82	0.28	35.12
April	24.61	7.63	0.18	32.42
May	28.24	8.98	0.21	37.43
June	24.87	9.91	0.24	35.01
July	30.28	9.27	0.22	39.77
August	27.61	8.55	0.21	36.36
September	24.14	8.92	0.20	33.25
October	20.55	7.56	0.23	28.34
November	21.72	7.35	0.25	29.31
December	31.32	8.88	0.16	40.35
1989 TOTAL	312.99	108.84	2.43	424.26

Note: Forest and shell severance are not included in the above table.
 Other Minerals include: sulfur, salt, lignite, etc.

See footnotes in Appendix A.

FIGURE 12
 1989 UNITED STATES CRUDE OIL RESERVES
 Million Barrels



SOURCE: U.S. Department of Energy

TABLE 27

LOUISIANA ESTIMATED CRUDE OIL PROVED RESERVES⁸
 EXCLUDING LEASE CONDENSATE
 As of December 31st of Each Year
 (Million Barrels)

<u>YEAR</u>	<u>NORTH</u>	<u>SOUTH ONSHORE</u>	<u>SOUTH OFFSHORE</u>	<u>FEDERAL O C S</u>	<u>TOTAL STATE</u>
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

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

TABLE 28

LOUISIANA ESTIMATED DRY NATURAL GAS PROVED RESERVES⁸
 As of December 31st of Each Year
 (Billion Cubic Feet, at 14.73 psia and 60 degrees Fahrenheit)

<u>YEAR</u>	<u>NORTH</u>	<u>SOUTH ONSHORE</u>	<u>SOUTH OFFSHORE</u>	<u>FEDERAL O C S</u>	<u>TOTAL STATE</u>
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

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

*Alabama State and Federal Offshore are included.

See footnotes in Appendix A.

TABLE 29

LOUISIANA ESTIMATED LEASE CONDENSATE PROVED RESERVES⁸
 As of December 31st of Each Year
 (Million Barrels)

<u>YEAR</u>	<u>NORTH</u>	<u>SOUTH ONSHORE</u>	<u>SOUTH OFFSHORE</u>	<u>FEDERAL O C S</u>	<u>TOTAL STATE</u>
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

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

Table 30

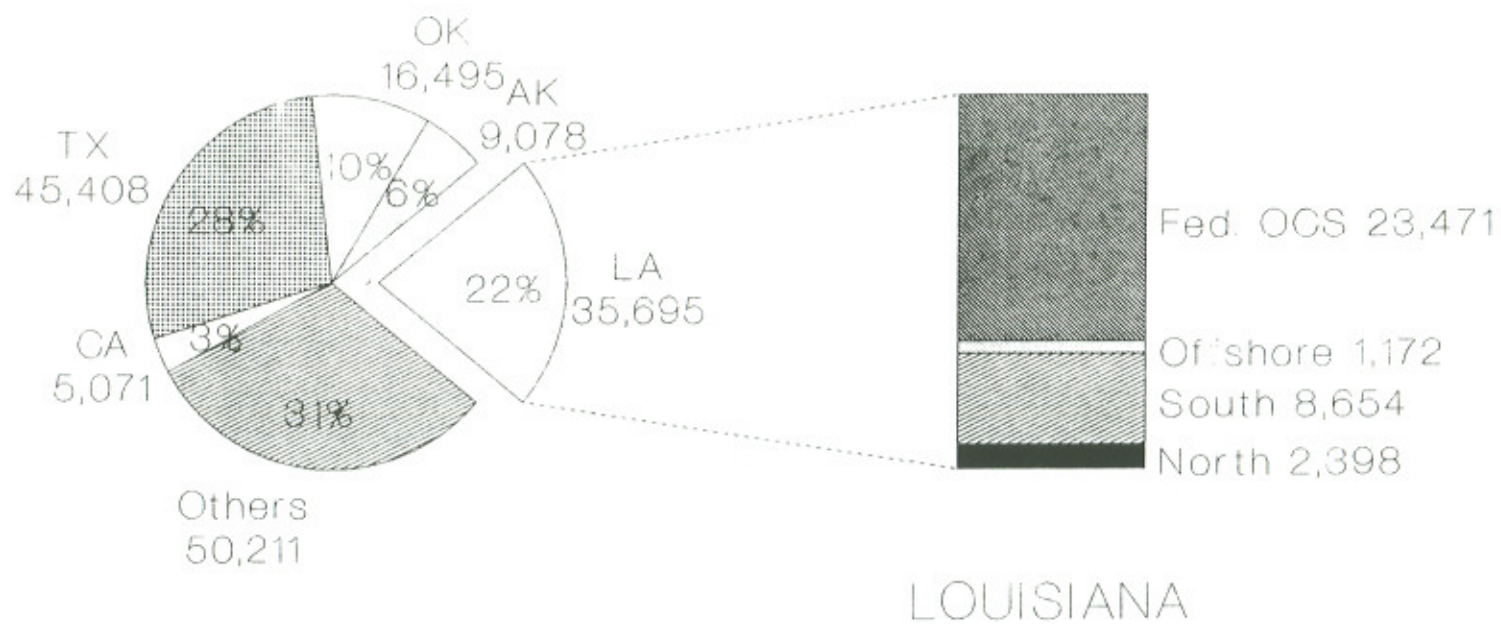
LOUISIANA ESTIMATED NATURAL GAS LIQUIDS PROVED RESERVES⁸
 EXCLUDING LEASE CONDENSATE
 As of December 31st of Each Year
 (Million Barrels)

<u>YEAR</u>	<u>NORTH</u>	<u>SOUTH ONSHORE</u>	<u>SOUTH OFFSHORE</u>	<u>FEDERAL O C S</u>	<u>TOTAL STATE</u>
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

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

See footnotes in Appendix A.

FIGURE 13
 1989 UNITED STATES NATURAL GAS RESERVES
 Billion Cubic Feet



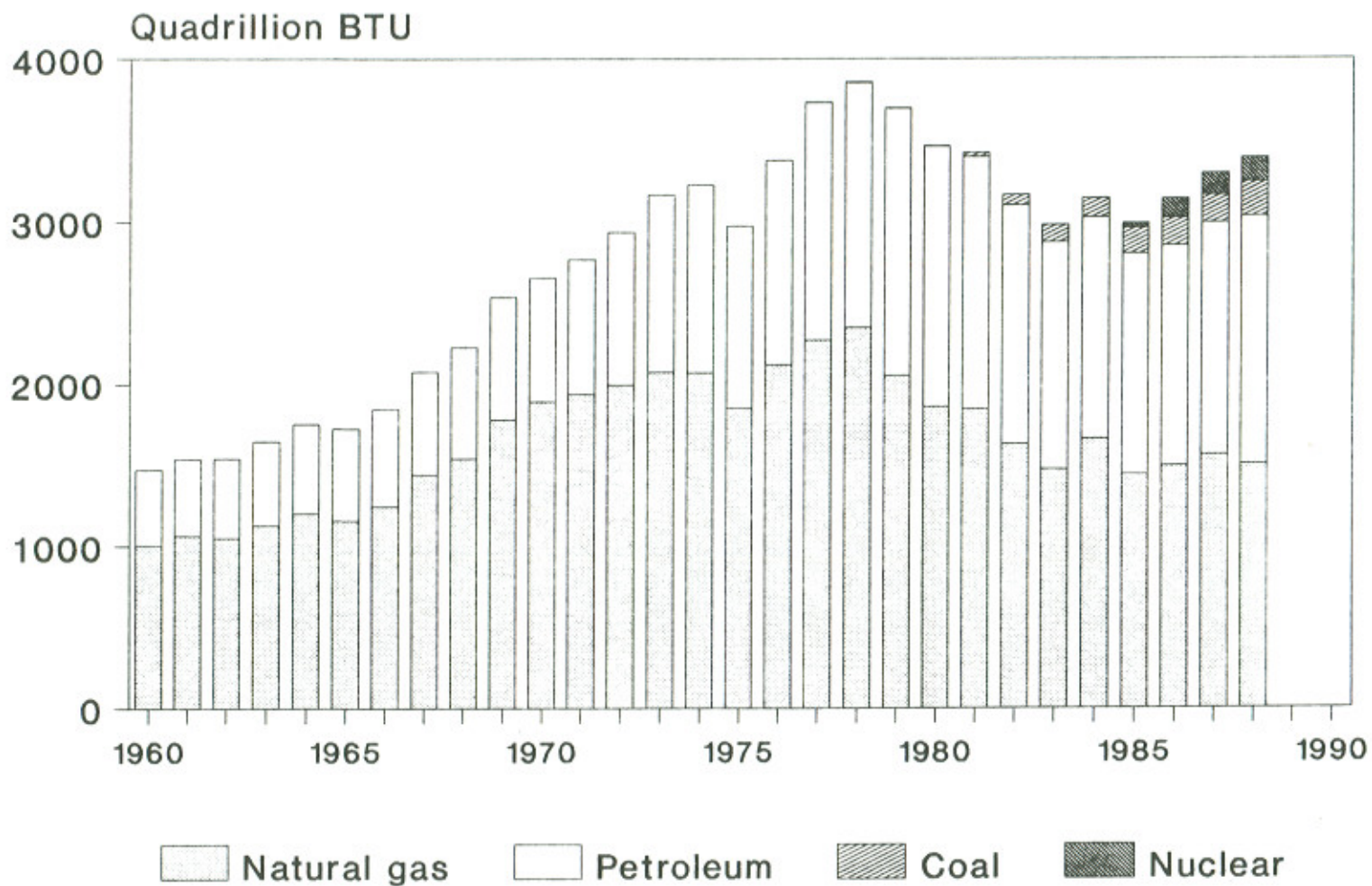
SOURCE: U.S. Department of Energy

TABLE 31
LOUISIANA NONAGRICULTURAL EMPLOYMENT¹

<u>DATE</u>	<u>OIL & GAS PRODUCTION</u>	<u>CHEMICAL INDUSTRY</u>	<u>OIL REFINING</u>	<u>OIL PIPELINE</u>	<u>TOTAL EMPLOYMENT</u>
1970	47,300	23,700	9,600	900	1,203,000
1971	48,000	23,900	9,600	900	1,230,000
1972	49,200	24,300	9,500	900	1,241,000
1973	49,800	25,300	9,600	900	1,287,000
1974	49,900	26,800	9,900	900	1,280,000
1975	54,800	27,300	9,600	950	1,336,000
1976	58,200	29,300	9,700	900	1,285,500
1977	61,300	31,100	9,300	900	1,444,600
1978	70,100	31,800	10,800	1,000	1,509,100
1979	71,400	33,200	11,500	1,100	1,554,370
1980	83,300	33,500	12,100	1,200	1,599,600
1981	93,500	32,300	15,100	1,200	1,627,796
1982	95,522	33,862	14,098	1,033	1,571,017
1983	78,586	30,113	13,005	1,282	1,531,480
1984	77,865	29,063	13,053	1,247	1,568,064
1985	78,974	28,407	12,598	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
January	53,627	26,445	11,306	1,033	1,431,157
February	53,726	26,517	11,261	1,030	1,435,620
March	54,557	26,583	11,306	1,026	1,450,728
April	54,512	26,547	11,293	1,033	1,462,768
May	54,681	26,623	11,322	1,038	1,472,134
June	55,144	26,907	11,385	1,049	1,479,884
July	55,166	27,300	11,328	1,057	1,463,902
August	55,068	27,055	11,323	1,051	1,468,930
September	54,961	27,204	11,331	1,049	1,485,684
October	54,577	27,371	11,091	1,031	1,487,854
November	54,420	27,426	11,064	1,029	1,488,087
December	54,341	27,502	11,088	1,043	1,495,352
1988 AVERAGE	54,565	26,957	11,258	1,039	1,468,508
January	52,484	27,737	11,407	1,012	1,448,582
February	52,270	27,714	11,503	1,009	1,453,812
March	52,313	27,774	11,501	1,006	1,457,828
April	51,995	27,841	11,310	1,015	1,490,245
May	52,310	28,020	11,365	1,009	1,503,069
June	52,709	28,358	11,495	1,022	1,513,755
July	52,463	28,276	11,312	1,032	1,485,058
August	53,021	28,421	11,283	1,034	1,495,198
September	52,688	23,305	11,267	1,024	1,505,938
October	52,166	28,363	11,117	1,007	1,516,362
November	52,657	28,407	11,130	1,008	1,518,938
December	53,250	28,475	11,167	1,017	1,526,156
1989 AVERAGE	52,527	27,724	11,321	1,016	1,492,912

See footnotes in Appendix A.

FIGURE 14
LOUISIANA ENERGY CONSUMPTION BY SOURCE



SOURCE: U.S. Department of Energy

TABLE 32

LOUISIANA ENERGY CONSUMPTION ESTIMATES BY SOURCE¹⁰

<u>YEAR</u>	<u>TOTAL ENERGY</u> TBTU	<u>NATURAL GAS</u> BCF	<u>TOTAL PETROLEUM</u> MBBLS	<u>COAL</u> MST	<u>NUCLEAR</u> MMKWH
1960	1,467	970	88,442	N/A	0
1961	1,531	1,029	89,476	N/A	0
1962	1,545	1,015	93,592	N/A	0
1963	1,648	1,091	98,951	N/A	0
1964	1,752	1,144	105,763	N/A	0
1965	1,726	1,110	108,911	N/A	0
1966	1,841	1,202	115,490	N/A	0
1967	2,084	1,394	122,625	N/A	0
1968	2,252	1,521	134,314	N/A	0
1969	2,529	1,763	147,627	N/A	0
1970	2,658	1,841	149,774	0	0
1971	2,765	1,884	162,900	0	0
1972	2,944	1,941	186,077	0	0
1973	3,179	2,010	212,348	0	0
1974	3,267	2,008	222,287	0	0
1975	2,985	1,789	213,761	0	0
1976	3,374	2,044	237,153	0	0
1977	3,748	2,191	270,942	79	0
1978	3,882	2,249	279,435	172	0
1979	3,777	1,978	307,680	118	0
1980	3,594	1,794	296,302	111	0
1981	3,615	1,782	295,536	1,363	0
1982	3,369	1,556	287,807	3,724	0
1983	3,209	1,413	276,207	6,154	0
1984	3,414	1,594	258,617	6,855	0
1985	3,212	1,386	260,869	9,217	2,457
1986	3,244	1,439	256,143	10,459	10,637
1987	3,409	1,501	267,360	10,391	12,324
1988	3,450	1,446	283,355	12,848	13,785

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

See footnotes in Appendix A.

TABLE 33

LOUISIANA REFINERY STATISTICS
(Barrels)

<u>YEAR</u>	<u>AVERAGE STOCK ON HAND</u>	<u>DAILY AVERAGE RUNS TO STILL</u>	<u>ACTIVE REFINERIES</u>
1970	5,802,000	1,228,313	18
1971	6,055,223	1,247,880	18
1972	6,438,253	1,444,129	18
1973	6,393,788	1,511,498	18
1974	7,311,888	1,494,528	18
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
January	13,271,501	2,053,740	22
February	13,962,951	2,032,835	21
March	16,167,752	2,024,545	21
April	15,455,491	1,891,215	21
May	13,320,580	1,787,259	21
June	14,560,597	1,733,460	21
July	13,795,049	1,918,902	21
August	14,636,600	1,941,590	21
September	15,265,171	1,921,052	21
October	14,131,354	1,974,993	21
November	13,993,763	1,996,862	21
December	12,986,277	2,085,883	21
1988 AVERAGE	14,295,591	1,946,861	21
January	14,938,282	2,181,471	20
February	13,721,987	2,156,294	21
March	15,087,505	2,056,843	22
April	14,191,413	2,029,557	22
May	14,987,072	2,105,847	23
June	12,906,605	2,082,224	23
July	13,928,307	2,094,073	23
August	14,794,047	2,027,055	23
September	14,383,544	2,025,214	23
October	13,927,032	1,939,336	23
November	13,671,753	2,161,737	24
December	13,362,127	1,755,992	24
1989 AVERAGE	14,158,306	2,051,304	23

APPENDIX A

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-- OIL & GAS JOURNAL, Tulsa, OK: PennWell Publishing Co.
- 5-- PETROLEUM MARKETING MONTHLY and PETROLEUM MARKETING ANNUAL, Washington D.C.: U.S. Department of Energy, Energy Information Administration.
- 6-- PETROLEUM SUPPLY MONTHLY and PETROLEUM SUPPLY ANNUAL, Washington D.C.: U.S. Department of Energy, Energy Information Administration.
- 7-- SEVERANCE TAX, Baton Rouge, LA: Louisiana Department of Revenue and Taxation, Severance Tax Section.
- 8-- U.S. CRUDE OIL, NATURAL GAS and NATURAL GAS LIQUIDS RESERVES, Washington D.C.: U.S. Department of Energy, Energy Information Administration.
- 9-- THE WALL STREET JOURNAL, Gulf Coast Edition, Beaumont, TX: Dow Jones and Company.
- 10-- STATE ENERGY DATA REPORT, Washington D.C.: U.S. Department of Energy, Energy Information Administration.
- 11-- FEDERAL OFFSHORE STATISTICS, Washington D.C.: U.S. Department of the Interior, Minerals Management Service.

APPENDIX B

GLOSSARY

CASINGHEAD GAS -- All natural gas released from oil during the production of oil from underground reservoirs.

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

F.O.B. -- Literally means "Free on Board". The f.o.b. price of imported crude oil is the price actually charged at the producing country's port of loading. It is the responsibility of the buyer to arrange for the transportation and insurance.

LANDED -- The landed price of imported crude oil represents 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.

LOUISIANA FEDERAL 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.

LOUISIANA REFINERY POSTED -- The average price from a survey of selected refiners postings for South Louisiana Sweet crude, which are effective on the middle and the end of the month.

LOUISIANA ROYALTY VOLUME -- The average wellhead price calculated from revenue received and volumes reported to the Louisiana Department of Natural Resources.

LOUISIANA SEVERANCE TAXED VOLUME -- The average wellhead price calculated from oil severance taxes paid to the Louisiana Department of Revenue and Taxation.

LOUISIANA STATE WELLHEAD -- The average price at which all Louisiana crude oil is first purchased as reported in a survey by the U.S. Department of Energy, Energy Information Administration.

REFINERY ACQUISITION COSTS (RAC) -- The RAC of crude oil is 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) **COMBINED** -- The weighted average of domestic and imported prices.
- b) **DOMESTIC** -- The average price of crude oil that is produced in the United States or from the outer continental shelf.

c) **IMPORTS** -- The average price of any crude oil that is not reported as domestic.

WELLHEAD -- The wellhead price represents the average price at which all domestic crude oil is first purchased.

DRY GAS -- (See **NATURAL GAS, "DRY"**).

FEDERAL OFFSHORE or **FEDERAL OCS** -- (See **LOUISIANA OCS**)

FOB Price (Free on board) -- The FOB price is 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.

LEASE CONDENSATE -- A mixture consisting primarily of pentane and heavier hydrocarbons which 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 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.

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.

NATURAL GAS -- A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons 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 nonhydrocarbon gases which 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 volumes of natural gas which remain after: (1) the liquefiable hydrocarbon portion has been removed from the gas stream, and (2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable.

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 nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

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 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.

NATURAL GAS, Wet After Lease Separation -- The volume of natural gas remaining after removal of lease condensate in lease and/or field separation facilities, if any, and after exclusion of nonhydrocarbon gases where they occur in sufficient quantities to render the gas unmarketable. Natural gas liquids may be recovered from volumes of natural gas, wet after lease separation, at natural gas processing plants.

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.

PROVED RESERVES OF CRUDE OIL -- Proved reserves of crude oil as of December 31 of the report year are 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 -- Proved reserves of lease condensate as of December 31 of the report year are the volumes of lease condensate 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 -- Proved reserves of natural gas as of December 31 of the report year are the estimated quantities 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 -- Proved reserves of natural gas liquids as of December 31 of the report year are those volumes of natural gas liquids (including lease condensate), 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.

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: (1) that portion delineated by drilling and defined by gas-oil and/or gas-water contacts, if any; and (2) 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.

STATE OFFSHORE -- (See LOUISIANA OFFSHORE).

APPENDIX C

STANDARD ABBREVIATIONS FOR STATE NAMES

AL	Alabama	MT	Montana
AK	Alaska	NE	Nebraska
AZ	Arizona	NV	Nevada
AR	Arkansas	NH	New Hampshire
CA	California	NJ	New Jersey
CO	Colorado	NM	New Mexico
CT	Connecticut	NY	New York
DE	Delaware	NC	North Carolina
DC	District of Columbia	ND	North Dakota
FL	Florida	OH	Ohio
GA	Georgia	OK	Oklahoma
HA	Hawaii	OR	Oregon
ID	Idaho	PA	Pennsylvania
IL	Illinois	PR	Puerto Rico
IN	Indiana	RI	Rhode Island
IA	Iowa	SC	South Carolina
KS	Kansas	SD	South Dakota
KY	Kentucky	TN	Tennessee
LA	Louisiana	TX	Texas
ME	Maine	UT	Utah
MD	Maryland	VT	Vermont
MA	Massachusetts	VA	Virginia
MI	Michigan	WA	Washington
MN	Minnesota	WV	West Virginia
MS	Mississippi	WI	Wisconsin
MO	Missouri	WY	Wyoming

APPENDIX D-1

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

<u>DATE</u>	<u>NORTH</u>	<u>SOUTH</u>	<u>OFFSHORE</u>	<u>TOTAL</u>
1970	464,426,262	4,514,214,330	628,303,618	5,606,944,043
1971	424,554,747	4,441,524,276	631,977,812	5,498,056,859
1972	431,484,418	4,369,692,640	622,797,973	5,423,975,060
1973	407,412,585	3,992,829,597	567,944,261	4,968,186,425
1974	366,640,193	3,479,726,554	527,284,576	4,373,651,256
1975	348,087,180	2,963,533,686	519,686,890	3,831,307,726
1976	354,699,747	2,684,596,894	523,207,559	3,562,504,115
1977	355,168,688	2,517,077,585	495,831,333	3,368,077,531
1978	339,810,635	2,324,919,119	499,536,568	3,164,266,329
1979	366,072,506	2,176,086,952	487,511,859	3,029,671,358
1980	377,031,668	1,970,503,760	416,970,906	2,764,506,335
1981	428,405,772	1,799,516,073	382,343,208	2,610,265,052
1982	386,004,470	1,566,377,340	366,786,209	2,319,168,019
1983	372,027,023	1,348,297,504	327,867,482	2,048,192,008
1984	394,640,402	1,418,548,957	324,376,488	2,137,565,847
1985	363,537,229	1,295,763,694	259,172,206	1,918,473,130
1986	370,310,910	1,249,070,999	251,065,896	1,870,447,805
1987	363,529,336	1,192,750,121	234,822,851	1,791,102,308
January	31,477,947	99,429,460	21,890,982	152,798,390
February	31,023,088	96,060,472	18,790,988	145,874,548
March	33,847,993	104,252,935	20,366,289	158,467,216
April	30,841,827	98,681,109	18,524,754	148,047,690
May	30,882,906	98,908,159	19,932,356	149,723,421
June	30,188,560	95,720,297	19,023,088	144,931,946
July	31,512,888	100,257,895	19,082,767	150,853,550
August	32,065,526	102,823,895	18,238,238	153,127,658
September	31,912,935	98,753,694	14,652,863	145,318,893
October	32,237,480	103,357,307	17,719,687	153,314,474
November	32,193,373	101,380,468	16,587,110	150,160,952
December	33,361,727	104,420,336	16,961,609	154,743,673
1988 TOTAL	381,545,650	1,204,046,028	221,770,732	1,807,362,409
January	33,928,752	102,841,539	16,662,097	153,432,388
February	30,578,064	92,212,099	15,242,392	138,032,555
March	33,904,467	102,741,522	16,917,372	153,563,361
April	32,321,529	98,657,516	16,742,134	147,721,179
May	32,723,050	99,919,520	17,632,635	150,275,205
June	32,105,487	94,107,512	17,348,550	143,561,549
July	32,478,146	96,553,956	18,198,269	147,230,371
August	31,875,548	96,214,475	19,190,151	147,280,174
September	29,859,663	92,461,586	18,262,964	140,584,212
October	29,360,932	96,266,459	18,631,885	144,259,276
November	32,799,759	95,139,493	18,902,888	146,842,140
December	32,223,567	90,079,367	17,018,558	139,321,492
1989 TOTAL	384,158,963	1,157,195,044	210,749,897	1,752,103,904

*See Table 9 for corresponding volumes at 15.025 psia.

APPENDIX D-2

LOUISIANA TOTAL 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-----		TOTAL
		STATE	FEDERAL OCS ¹¹	
1970	4,976,983,640	628,094,532	2,273,147,040	7,878,225,212
1971	4,864,459,720	631,767,503	2,634,014,031	8,130,241,254
1972	4,799,579,358	622,590,719	2,881,364,733	8,303,534,810
1973	4,398,777,857	567,755,262	3,055,628,236	8,022,161,355
1974	3,845,086,692	527,109,107	3,349,170,864	7,721,366,662
1975	3,310,518,799	519,513,949	3,332,169,057	7,162,201,806
1976	3,038,285,143	523,033,447	3,499,865,900	7,061,184,489
1977	2,871,290,376	495,666,330	3,647,513,674	7,014,470,381
1978	2,663,842,995	499,370,333	4,149,731,136	7,312,944,464
1979	2,541,313,522	487,349,626	4,158,521,710	7,187,184,858
1980	2,346,754,219	416,832,147	4,013,707,434	6,777,293,800
1981	2,227,180,440	382,215,972	4,106,494,590	6,715,891,002
1982	1,951,732,099	366,664,150	3,803,740,050	6,122,136,299
1983	1,719,752,039	327,758,374	3,173,892,354	5,221,402,767
1984	1,812,585,969	324,268,542	3,578,740,570	5,715,595,081
1985	1,658,748,743	359,085,959	3,116,884,490	5,034,719,193
1986	1,618,843,014	250,982,346	2,927,832,264	4,797,657,624
1987	1,555,761,561	234,744,707	3,180,107,195	4,970,613,463
January	130,863,844	21,883,697	278,277,265	431,024,806
February	127,041,269	18,784,735	231,398,039	377,224,042
March	138,054,971	20,359,511	268,965,015	427,379,497
April	129,479,834	18,518,589	233,024,275	381,022,698
May	129,747,874	19,925,723	258,971,382	408,644,978
June	125,866,958	19,016,758	283,964,550	428,848,266
July	131,726,933	19,076,417	232,706,296	383,509,645
August	134,844,532	18,232,168	241,546,119	394,622,819
September	130,622,547	14,647,987	242,518,227	387,788,761
October	135,542,663	17,713,791	227,664,054	380,927,508
November	133,529,391	16,581,591	315,262,793	465,373,774
December	137,736,212	16,955,965	282,583,612	437,275,789
1988 TOTAL	1,585,064,026	221,696,931	3,096,881,628	4,903,642,586
January	136,724,777	16,656,552	287,623,272	441,004,601
February	122,749,301	15,237,320	239,169,597	377,156,218
March	136,600,517	16,911,742	277,998,269	431,510,528
April	130,935,458	16,736,563	240,850,451	388,522,472
May	132,598,429	17,626,767	267,668,997	417,894,193
June	126,170,998	17,342,777	293,501,567	437,015,342
July	128,989,163	18,192,213	240,521,792	387,703,168
August	128,047,397	19,183,765	249,658,503	396,889,665
September	122,280,543	18,256,886	250,663,259	391,200,688
October	125,585,585	18,625,685	235,310,205	379,521,475
November	127,896,677	18,896,598	325,850,969	472,644,243
December	122,262,234	17,012,895	292,074,249	431,349,379
1989 TOTAL	1,540,841,078	210,679,763	3,200,891,130	4,952,411,971

NOTE: The 1989 Federal OCS production is estimated from the market production using extrapolation.

See footnotes in Appendix A.

*See Table 10 for corresponding volumes at 15.025 psia

APPENDIX D-3

FEDERAL OCS GAS PRODUCTION, WET AFTER LEASE SEPARATION ¹¹
 Natural Gas and Casinghead Gas
 (Thousand Cubic Feet (MCF) at 14.73 psia and 60 degrees Fahrenheit)*

<u>DATE</u>	<u>LOUISIANA</u>	<u>TEXAS</u>	<u>CALIFORNIA</u>	<u>TOTAL</u>
PRIOR	19,881,055		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	3,499,835,900	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

*See Table 12 for corresponding volumes at 15.025 psia.

See footnotes in Appendix A.

APPENDIX D-4

U. S. NATURAL GAS AND CASINGHEAD PRODUCTION³
 (Billion Cubic Feet (BCF) at 14.73 psia and 60 degrees Fahrenheit)*

<u>DATE</u>	<u>GROSS</u>	<u>MARKETED</u>	<u>DRY</u>	<u>IMPORTS</u>
1970	23,786	21,921	21,014	821
1971	24,088	22,493	21,610	835
1972	24,016	22,532	21,624	1,019
1973	24,067	22,648	21,731	1,033
1974	22,850	21,601	20,713	959
1975	21,104	20,109	19,236	953
1976	20,944	19,952	19,098	964
1977	21,097	20,025	19,163	1,011
1978	21,309	19,974	19,122	966
1979	21,883	20,471	19,663	1,253
1980	21,870	20,180	19,403	985
1981	21,587	19,956	19,181	904
1982	20,210	18,520	17,758	933
1983	18,597	16,822	16,033	920
1984	20,192	18,230	17,392	843
1985	19,534	17,198	16,382	949
1986	19,063	16,791	15,991	750
1987	20,056	17,349	16,536	992
January	1,921	1,654	1,578	139
February	1,749	1,506	1,473	117
March	1,822	1,570	1,498	113
April	1,681	1,438	1,372	96
May	1,721	1,472	1,405	94
June	1,652	1,399	1,335	93
July	1,671	1,417	1,352	100
August	1,688	1,437	1,371	94
September	1,606	1,356	1,294	95
October	1,743	1,473	1,406	106
November	1,768	1,502	1,433	121
December	1,861	1,584	1,511	127
1988 TOTAL	20,880	17,808	16,992	1,294
January	1,854	1,590	1,516	119
February	1,704	1,470	1,401	107
March	1,799	1,557	1,484	116
April	1,729	1,485	1,416	113
May	1,761	1,504	1,434	106
June	1,672	1,439	1,372	105
July	1,705	1,463	1,395	101
August	1,696	1,449	1,381	106
September	1,632	1,386	1,321	116
October	1,713	1,461	1,393	121
November	1,765	1,527	1,456	122
December	1,895	1,631	1,555	146
1989 TOTAL	20,925	17,943	17,102	1,378

See footnotes in Appendix A.

*See Table 13 for corresponding volumes at 15.025 psia.