

# Oil in the United States

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# Units of Measurement

- Benchmark Crude
  - West Texas Intermediate
  - Brent Blend
  - Dubai
- Blue barrels (bbl)
- Btu Equivalents:
  - 1 barrel crude oil: 5.8 million
  - 1 kilowatt hour: 3412

# Major Production Players

Late 1990s

- 43 Companies

■ 2006

- Devon
- BP America
- ConocoPhillips
- Amerada Hess
- Williams
- ExxonMobil
- El Paso
- Andarko

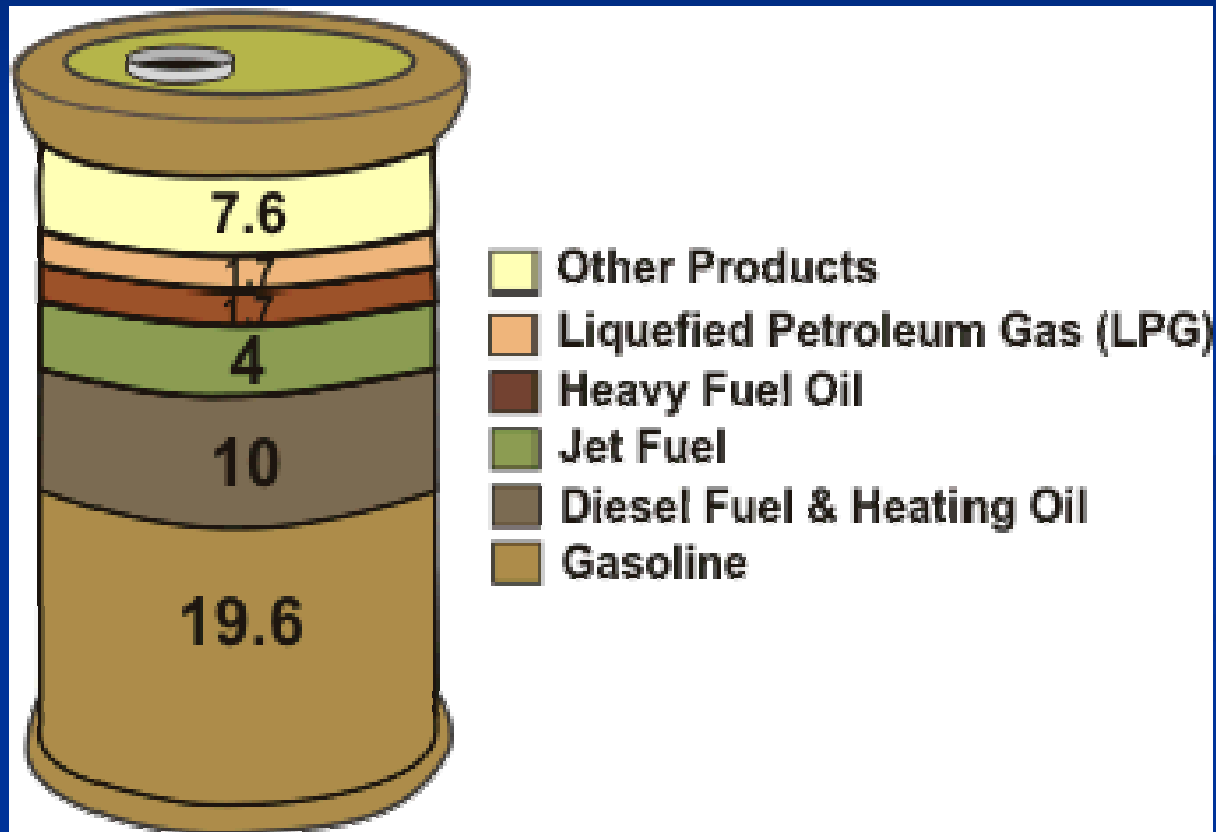
# Major Refining Players

- Late 1990s
  - 40
- 2006
  - BP America
  - Valero
  - Sunoco
  - Marathon
  - Lyondell
  - CITGO
  - HovensaLLC
  - Motiva Enterprises
  - Shell Oil
  - Deep Park Refining
  - Tesoro
  - Chevron
  - Total Holdings USA
  - Exxon Mobil
  - Calmette Refining LLC

# Basic Facts

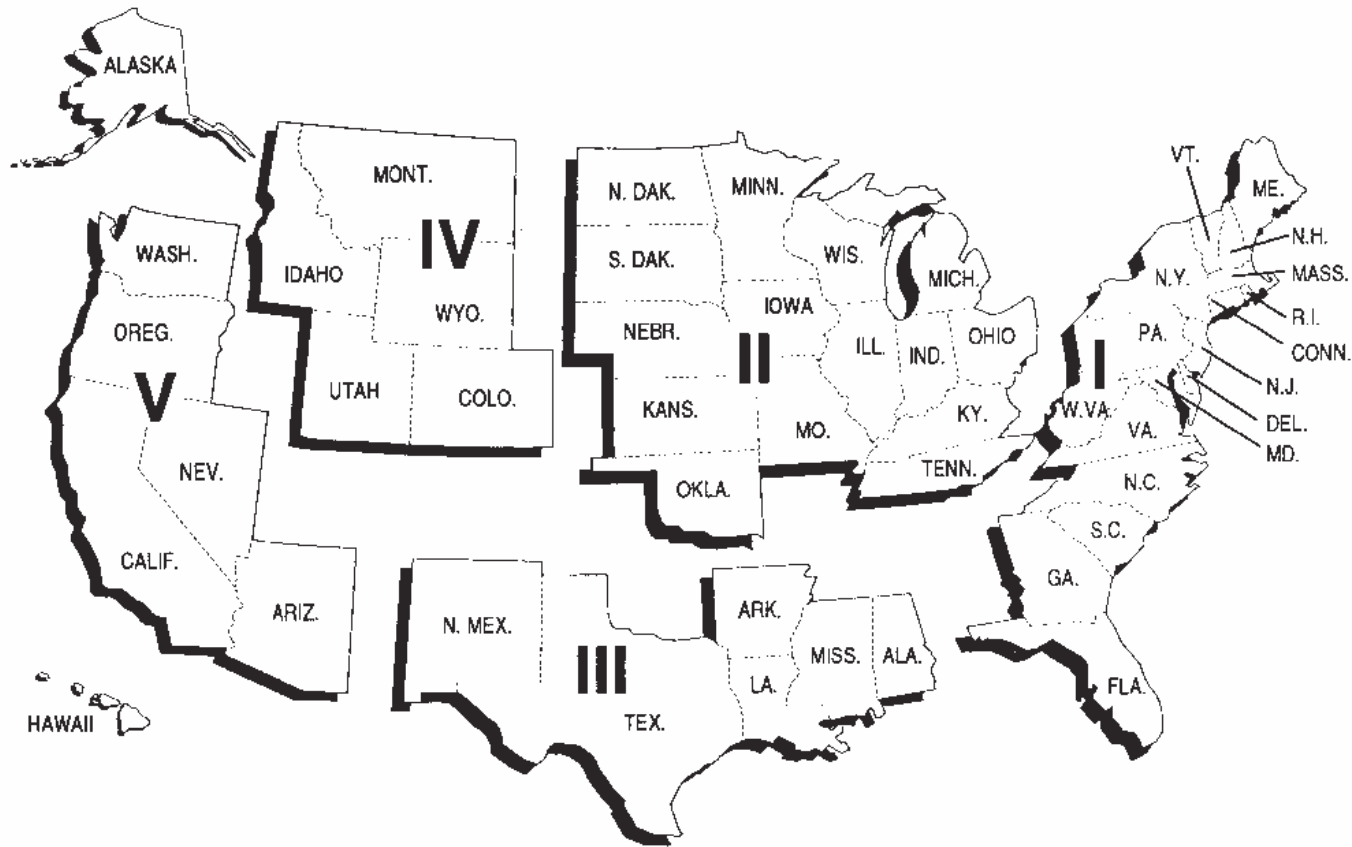
- Domestic Production: 5,178,000 barrels/day
- Domestic Consumption: 20,802,000 barrels/day
- Domestic Proven Reserves: 21,371 million barrels (2004)
- Strategic Reserves: 685 million barrels
- World Production: 84,411,000 barrels/day
- World Consumption: 83,990,000
- Dependence: 60.3%

# Production

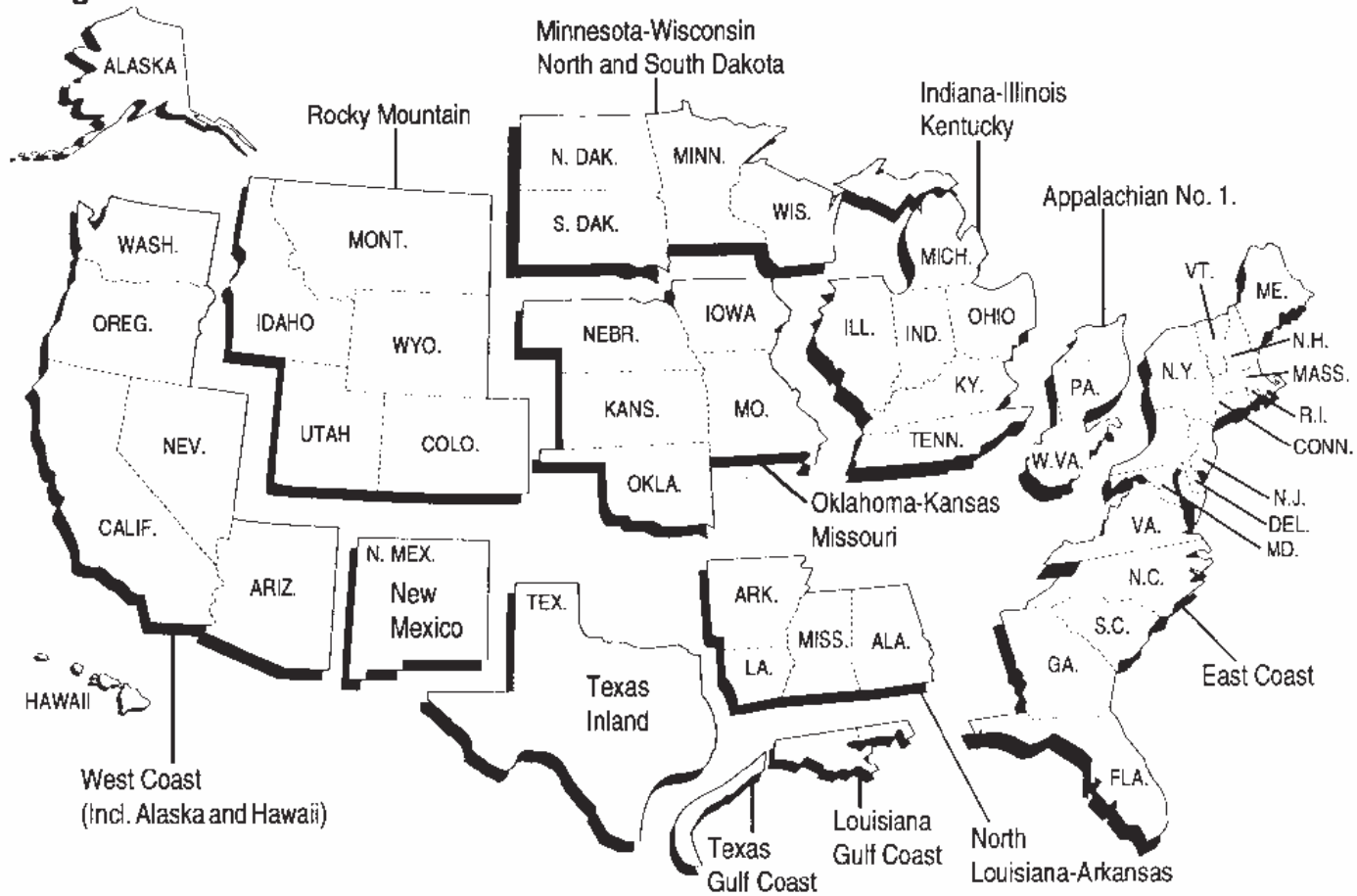


# Production

Petroleum Administration for Defense (PAD) Districts

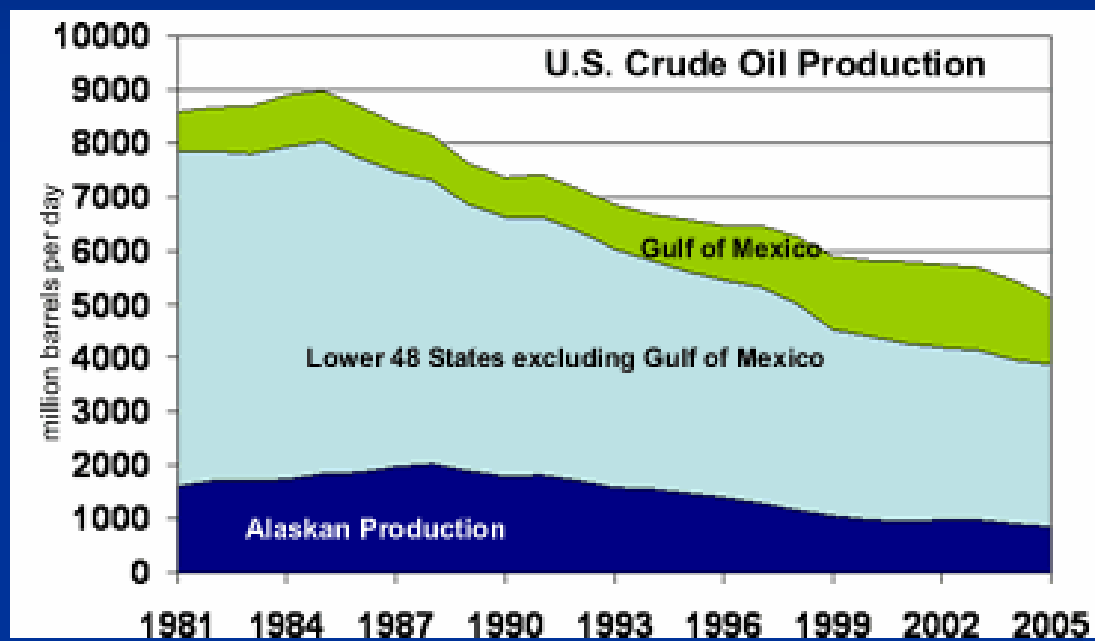


## Refining Districts



# Production

- Crude Production: 5,178,000 barrels/day
- Total Production: 6,895,000 barrels/day
  - East Coast (PADD 1): 23,000
  - Midwest (PADD 2): 443,000
  - Gulf Coast (PADD 3): 2,804,000; Offshore 1,282,000
  - Rocky Mountains (PADD 4): 340,000
  - West Coast (PADD 5): 1,569,000
- BP - 827,000 barrels/day (2004)
- Texas - 1,062,000 barrels/day
- Prudhoe Bay (2004): 118,900,000 barrels

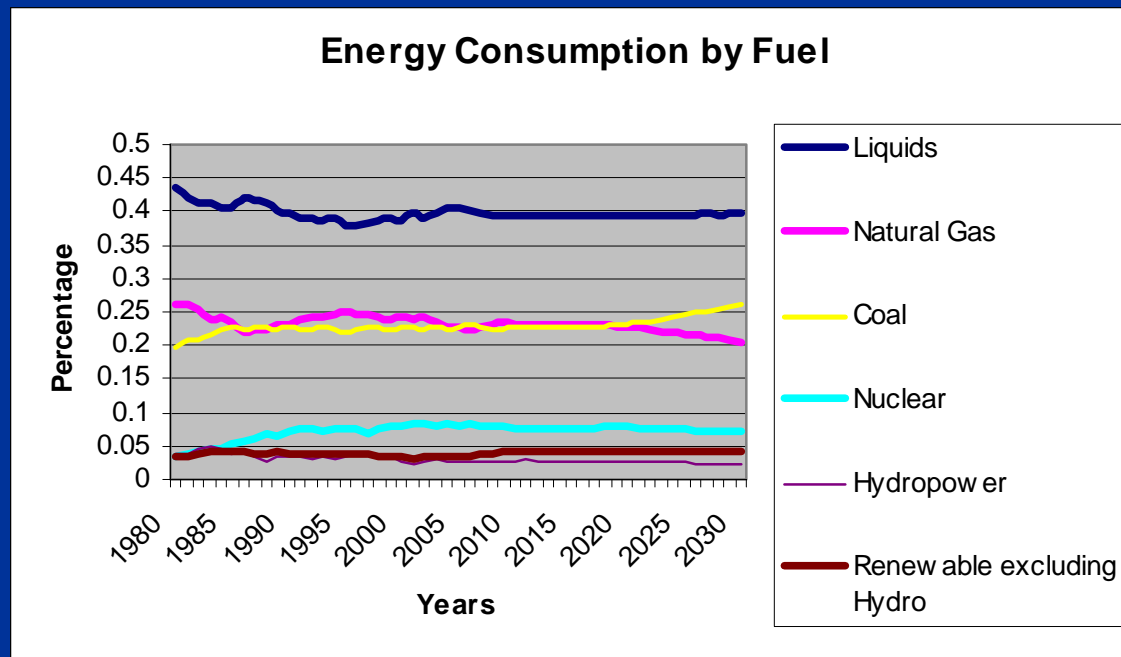


# Refining

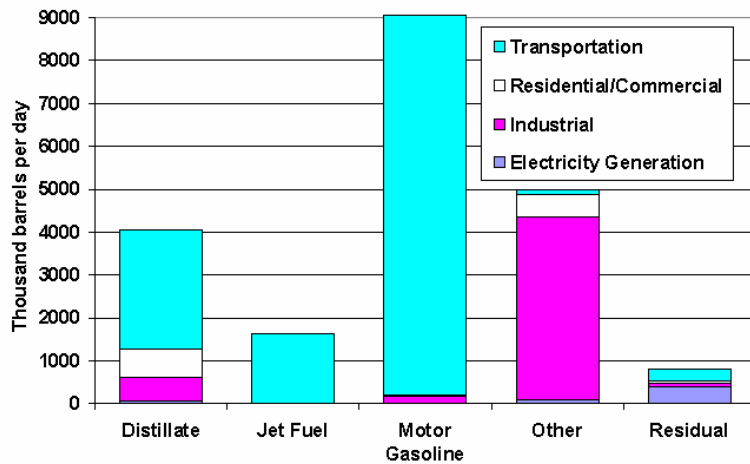
- Operable Petroleum Refineries: 149
- Total Capacity: ~15.5 million barrels/day
- Baytown, Texas (ExxonMobil): 562,500 barrels/day
- Texas 4,241,000 barrels/day

# Consumption

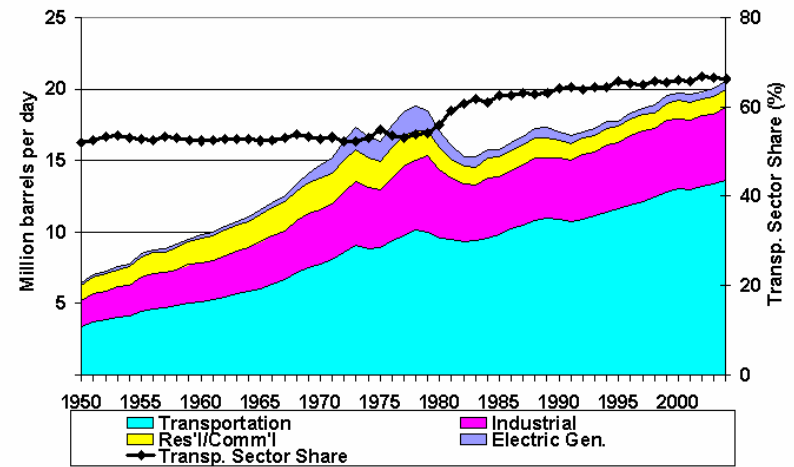
- 20,802,000 barrels/day
- 25% of World Total



**U.S. Oil Demand by Product, by Sector, 2004**



**U.S. Oil Demand by Sector, 1950-2004**



# Primary Energy Figures (2004)

- Total primary energy production (quadrillion Btu): 69.2
- As a percentage of energy source:
  - Coal: 33%
  - Natural Gas: 27%
  - Crude Oil and NGPL: 19%
  - Nuclear: 12%
  - Renewable: 9%
- Total Consumption of Primary Energy:
  - Petroleum: 40%
  - Coal: 23%
  - Natural Gas: 23%
  - Nuclear: 8%
  - Renewable: 6%
- Total primary energy consumption: 99.9

# Sources

- Energy Information Agency (EIA)

[www.eia.doe.gov](http://www.eia.doe.gov)

- Annual Energy Outlook 2006 with Projections to 2030. “Table 2. Energy Consumption by Sector and Source”.
- Mergers and Acquisitions by U.S. Major Oil Companies
- Petroleum.  
[www.eia.doe.gov/oil\\_gas/petroleum/info\\_glance/petroleum.html](http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html)

- Petroleum Basics 101.

[http://www.eia.doe.gov/basics/petroleum\\_basics.html](http://www.eia.doe.gov/basics/petroleum_basics.html)