



# ENERGY SITUATION ANALYSIS REPORT

May 23, 2002



*next scheduled update: May 24, 2002*

*Note: updates will be twice per week beginning on May 28*

**Energy Information Administration  
US Department of Energy  
Washington, DC 20585  
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[Petroleum](#) [Natural Gas](#) [Coal](#) [Electricity](#)

## Latest Energy Market Developments

(updated May 23, 2002)

NYMEX futures prices for July delivery of West Texas Intermediate (WTI) crude oil were basically unchanged -- down 6 cents per barrel -- on Wednesday, May 22. NYMEX contracts for June delivery expired as the "front-month" contract switched over to July. This resulted in the near-month WTI price falling 96 cents per barrel, given the approximately \$0.90 per barrel differential between June and July WTI prices. While the Energy Information Administration (EIA) and American Petroleum Institute (API) reported that overall, nationwide U.S. crude oil stocks increased unexpectedly last week, crude stocks were reported lower in the Midwest (PADD 2), site of the key Cushing, Oklahoma trading center for WTI. Gasoline stocks were down, with a pickup in demand leading up to the Memorial Day weekend and peak summer driving season. Both EIA and API also reported reduced refinery capacity utilization rates, in part due to poor profit margins at refineries. In general, fundamental market strength, owing in large part to OPEC production cuts during 2001 and early 2002 (plus continued concerns over the political situation in the Middle East), continues to support oil prices, as it has for several months now.

Other topics affecting **world oil markets** include:

- On May 22, news reports indicated that Venezuela's Oil Ministry had ordered the state oil company, PdVSA, to increase oil production by 200,000 barrels per day. Venezuela currently is facing a fiscal crisis, and also suffered the loss of oil revenues due to a strike and political unrest in April. However, Venezuelan Energy Minister Alvaro Silva repeated the Venezuelan stance that no OPEC production quota increase is necessary.
- Early indications suggest that Syria will reach its highest oil export level ever in May 2002, suggesting that illegal Iraqi oil exports through Syria increased during Iraq's 30-day suspension of oil-for-food exports in April and May.
- Non-OPEC producers Russia, Norway, and Mexico, which coordinated reduced oil production policies with OPEC beginning in January 2002, are mixed in their commitments to extend their reductions into the third quarter. Mexico is expected to continue to support OPEC. Norway sees no reason to extend its cuts beyond the second quarter, but is determined to meet its output target for the second quarter, even if it requires some fields

to shut down temporarily. Russia, whose fulfillment of its reductions has remained questionable, does not plan to extend cuts. On May 23, for instance, Russia's Finance Minister Alexei Kudrin stated that Russia would not curb its oil exports in the future as long as oil prices stayed above \$20 per barrel.

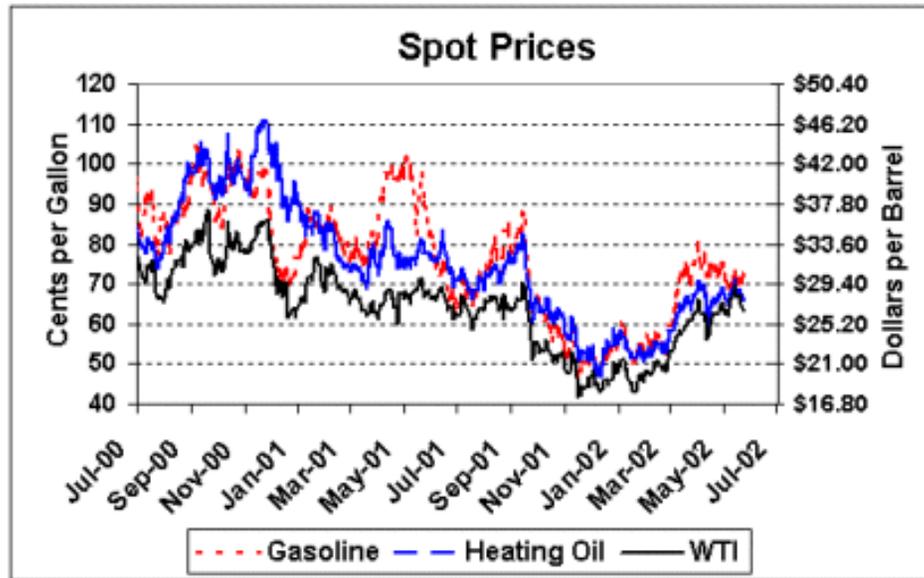
Other recent developments in **U.S. energy markets** include:

- As of May 23, the [U.S. Strategic Petroleum Reserve](#) (SPR) contained 569.4 million barrels of oil. The SPR has a maximum drawdown capability of 4.18 million barrels per day for 90 days, with oil beginning to arrive in the marketplace 15 days after a presidential decision to initiate a drawdown.
- Both the decrease in U.S. crude oil inventories during the week ending May 10 and the increase last week reflected shifts in West Coast supply patterns that are largely irrelevant to West Texas Intermediate crude oil price pressures. More important is the continuing decline in Midwest crude oil inventories, which remain at very low levels for this time of year.
- As the Memorial Day weekend kicks off the traditional peak summer driving season, U.S. gasoline prices are about 17% below year-ago levels. Gasoline demand is expected to be strong this summer as the economy recovers and as Americans have been flying less (and driving more) since 9/11.
- On the NYMEX, the settlement price for the near-month (June delivery) natural gas futures contract rose for the first time in six trading sessions, gaining \$0.064 per MMBtu, to \$3.459 per MMBtu. Prior to Wednesday, May 22, the June natural gas contract had fallen by a cumulative 46 cents per MMBtu since Tuesday, May 14.
- U.S. coal prices in recent months have either fallen or held relatively steady. Year-to-date, western U.S. coal production is 1.5% below the levels of a year ago, whereas eastern U.S. coal production is estimated to be 9.8% below last year's level.
- Western U.S. wholesale electricity prices have been mixed over the past seven days (excluding weekend transactions) coinciding with fluctuations in weather and electricity demand. Similarly, prices in the Northeast have been mixed over the past seven days

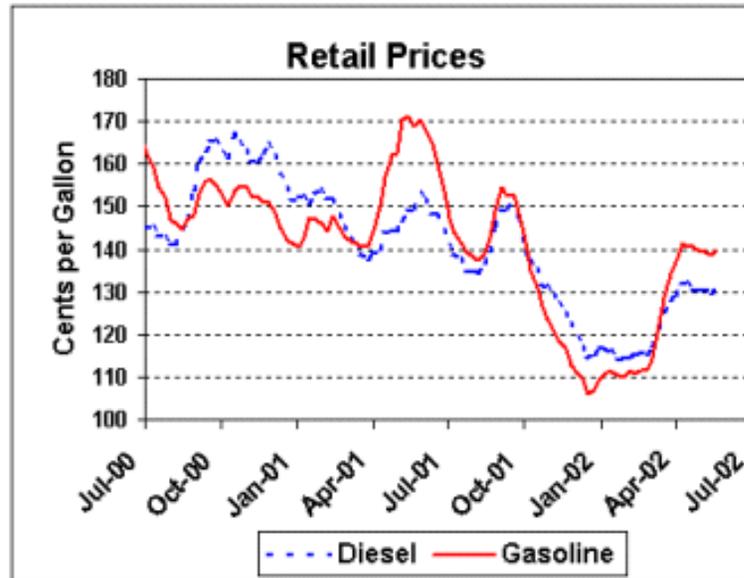
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## U.S. Petroleum Prices

(updated May 23, 2002)



Source: Closing quote as reported by Reuters News Service



Source: Energy Information Administration (EIA)

### Crude Oil and Oil Products Price Table

Date	WTI Crude Oil		Gasoline		Heating Oil		Kerojet	Propane		EIA Weekly Retail	
	Spot	Futures	Spot	Futures	Spot	Futures	Spot	Spot	Spot	US Average	
	Cushing		NYH		NYH		NYH	Mt. Behieu	Conway	Gasoline	Diesel
	\$/bbl	\$/bbl	cents per gallon		cents per gallon		c/gal	cents per gallon		cents per gallon	
4/5/2002	\$26.21	\$26.21	73.70	81.70	68.15	68.22	70.05	43.00	42.19		
4/8/2002	\$26.16	\$26.54	77.57	84.19	69.57	69.30	71.20	43.82	42.94	141.3	132.3
4/9/2002	\$25.45	\$25.82	75.13	83.39	66.80	67.80	68.50	41.19	40.13		
4/10/2002	\$26.15	\$26.13	76.00	83.44	67.35	67.84	68.98	41.00	40.13		
4/11/2002	\$24.93	\$24.99	72.53	78.87	64.73	64.71	66.50	39.00	37.69		
4/12/2002	\$23.51	\$23.47	66.48	72.96	60.03	60.05	61.93	38.07	36.63		
4/15/2002	\$24.53	\$24.57	73.00	78.63	63.07	63.34	65.09	39.50	38.00	140.4	132.0
4/16/2002	\$24.92	\$24.75	74.73	79.29	64.23	63.78	66.25	39.50	38.00		
4/17/2002	\$25.94	\$25.94	74.70	80.77	65.10	65.40	67.25	40.25	38.75		
4/18/2002	\$25.86	\$26.18	74.57	81.13	65.30	65.58	67.25	41.13	39.13		
4/19/2002	\$26.43	\$26.38	73.95	80.40	65.65	65.91	67.75	40.38	37.88		
4/22/2002	\$26.28	\$26.27	72.82	79.02	65.55	65.81	67.65	41.00	38.50	140.4	130.4
4/23/2002	\$26.28	\$26.62	74.11	80.16	66.40	66.53	69.07	41.69	39.32		
4/24/2002	\$26.28	\$26.38	71.89	78.76	66.10	66.12	68.28	41.13	39.19		
4/25/2002	\$26.36	\$26.73	72.50	79.37	66.70	67.20	69.10	41.50	39.69		
4/26/2002	\$27.12	\$27.11	74.00	81.39	67.60	67.90	70.00	40.69	39.25		
4/29/2002	\$27.45	\$27.57	74.95	83.36	68.95	69.20	71.20	41.57	39.25	139.3	130.2
4/30/2002	\$27.32	\$27.29	74.93	82.30	68.65	68.90	70.90	42.00	39.88		
5/1/2002	\$26.58	\$26.75	72.75	80.48	67.33	67.42	69.65	41.63	39.51		
5/2/2002	\$26.31	\$26.24	71.73	78.49	66.38	66.07	68.48	41.09	38.50		
5/3/2002	\$26.75	\$26.62	70.78	78.77	66.40	66.53	68.28	41.07	38.63		
5/6/2002	\$26.11	\$26.12	69.07	77.45	64.40	64.98	66.00	40.75	38.13	139.5	130.5
5/7/2002	\$26.79	\$26.63	68.94	78.28	65.80	65.86	67.75	41.00	38.63		
5/8/2002	\$27.76	\$27.85	68.78	78.77	66.80	67.40	68.85	42.50	40.38		
5/9/2002	\$27.78	\$27.68	68.79	77.46	67.35	67.79	69.38	41.38	39.25		
5/10/2002	\$27.92	\$27.99	70.33	79.05	68.25	68.92	70.13	41.38	39.25		
5/13/2002	\$28.62	\$28.38	72.03	79.73	69.25	69.45	71.38	41.26	39.07	138.8	129.9
5/14/2002	\$29.17	\$29.36	72.93	82.63	70.90	71.68	73.00	42.75	39.69		
5/15/2002	\$28.17	\$28.15	69.49	78.82	67.67	67.79	69.77	41.82	37.88		
5/16/2002	\$28.00	\$27.95	70.38	79.53	68.12	68.16	70.22	41.13	39.00		
5/17/2002	\$28.19	\$28.18	71.35	80.38	68.40	68.60	70.60	41.13	39.00		
5/20/2002	\$28.24	\$28.33	71.25	80.64	68.20	68.99	70.40	41.50	38.63	139.7	130.9
5/21/2002	\$27.35	\$27.33	69.90	78.44	66.35	66.77	69.10	40.82	37.76		
5/22/2002	\$27.01	\$26.37	72.70	79.68	66.80	66.95	69.80	40.44	37.07		
5/23/2002	\$26.60	\$26.15	71.38	78.83	65.90	66.50	69.30	40.57	36.57		

Source: Spot and futures closing quotes as reported by Reuters News Service, retail prices reported by EIA

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## Latest U.S. Weekly EIA Petroleum Information

(updated May 22, 2002)

**Foregone Conclusion**

Only a few weeks remain before the June 26 policy-setting meeting of OPEC oil ministers, where they will decide whether to raise or leave flat crude oil output levels through the end of the third quarter 2002. So far the cartel has indicated that it will maintain crude oil production quotas at current levels, which were cut to 21.7 million barrels per day in January. While western nations view this decision as likely to squeeze future crude oil supplies, OPEC producers have an entirely different perspective. The International Energy Agency (IEA) recently issued a statement predicting that oil supplies could tighten significantly in the next six months and inventories could plunge to dangerously low levels if the OPEC cartel maintained its supply curbs. Conversely, some OPEC members view world oil markets as essentially balanced, with global and U.S. inventories at comfortable levels, thereby suggesting no increase in output is necessary at this time. Some OPEC members argue that the recent run-up in crude oil prices is not the result of reduced supplies but rather rising Middle East tensions from the Israeli-Palestinian conflict that some observers say may include a “war premium” on top of already high prices. Presumably, much of the difference in viewpoint stems from differing points of focus. OPEC tends to focus on current conditions, while the IEA and others focus on the declining trend already evident and set to deepen over the second half of the year, if demand grows as expected. While less noted, both camps expect world markets to tighten in the third quarter of 2002. The real difference may lie in the pace of expected demand growth and thereby, the rate at which current perceived inventory surpluses may be worked off.

The unexpected increase in crude oil inventories last week appears to have fed support to market bears. It should be noted, however, that both the decrease in crude oil inventories during the week ending May 10 and the increase last week reflected shifts in West Coast supply patterns that are largely irrelevant to West Texas Intermediate crude oil price pressures. More notable is the continuing decline in PADD II (Midwest) crude oil inventories, which remain at very low levels for this time of year. Moreover, since crude oil inventories in general normally build during the spring, even the roughly flat pattern of the last several weeks supports higher prices and the notion of tightening fundamentals. One factor that could weaken this pattern would be lower refinery inputs than currently expected. Of course, this would cause product stocks to fall in order to supply expected increases in demand, particularly for motor gasoline.

**Crude Oil Inventories Post Unexpected Increase**

As noted, U.S. commercial crude oil inventories (excluding those in the Strategic Petroleum Reserve) posted an unexpected 4.6 million barrel build last week as refiners apparently began to pare inputs into refineries in an attempt to reduce the overhang in product inventories. While inputs into refineries declined by 0.3 million barrels per day last week, crude oil imports increased by 0.4 million barrels per day during this same period, in part because of an increase in imports from Iraq. This calls into question whether Iraq’s 30-day cut-off last month has had an effect on reducing imports yet. Despite the increase last week, crude oil inventories remain 5 million barrels below year-ago levels, and are still generally expected to remain flat over the next several weeks, spurred in part by the effects of the production cuts made by OPEC earlier this year.

**Product Inventories Mixed**

While inventory gains were reported for distillate and jet fuel last week, motor gasoline inventories reported a modest decline despite record imports during this same period. But more importantly, petroleum product inventories continued to show gasoline and distillate stocks exceeding year-ago levels, with distillate showing the largest year-over-year increase of nearly 17%, followed by gasoline inventories with a 4.5% gain. Inventories of jet fuel continued to track slightly below last year’s level by 1%. Recent gains in product inventories occurred during a period of increasing crude oil prices but with softening product prices. Consequently, this situation contributed to severely eroding refining margins over the period. But in a move to help rein in high product inventories and reduce operating costs, several independent refiners announced last week that they would reduce the level of crude oil they process over the next several months. And, if joined by other refiners, which is expected, a concerted effort to work off excess product inventories would probably occur, possibly relieving some of the pressure on future crude oil inventories.

### **Crude Oil Inventories Revised Up for March**

Based on EIA's weekly survey, U.S. commercial crude oil inventories at the end of March were estimated at 325.1 million barrels. However, the monthly survey data put U.S. commercial crude oil inventories at the end of March at 331.4 million barrels, or 6.4 million barrels above the estimate from the weekly survey. Does this mean that in fact our current estimate for the week ending May 17 is really 6.4 million barrels higher, or 326.8 million barrels rather than the 320.4 million barrels reported? No, it doesn't. When the latest monthly data are available, EIA "benchmarks" to that data, essentially adjusting the weekly data to account for any differences from the monthly. Therefore, the weekly estimate of 320.4 million barrels is indeed our best estimate based on the data reported on our weekly survey. Over the last 27 months (January 2000 through March 2002) in which we have monthly data, there have been 13 upward revisions and 14 downward revisions to crude oil inventories. The largest amount crude oil inventories have been revised up during this period is 9.0 million barrels, while the largest downward revision has been 9.1 million barrels. Thus, a 6.4 million barrel revision is not too unusual.

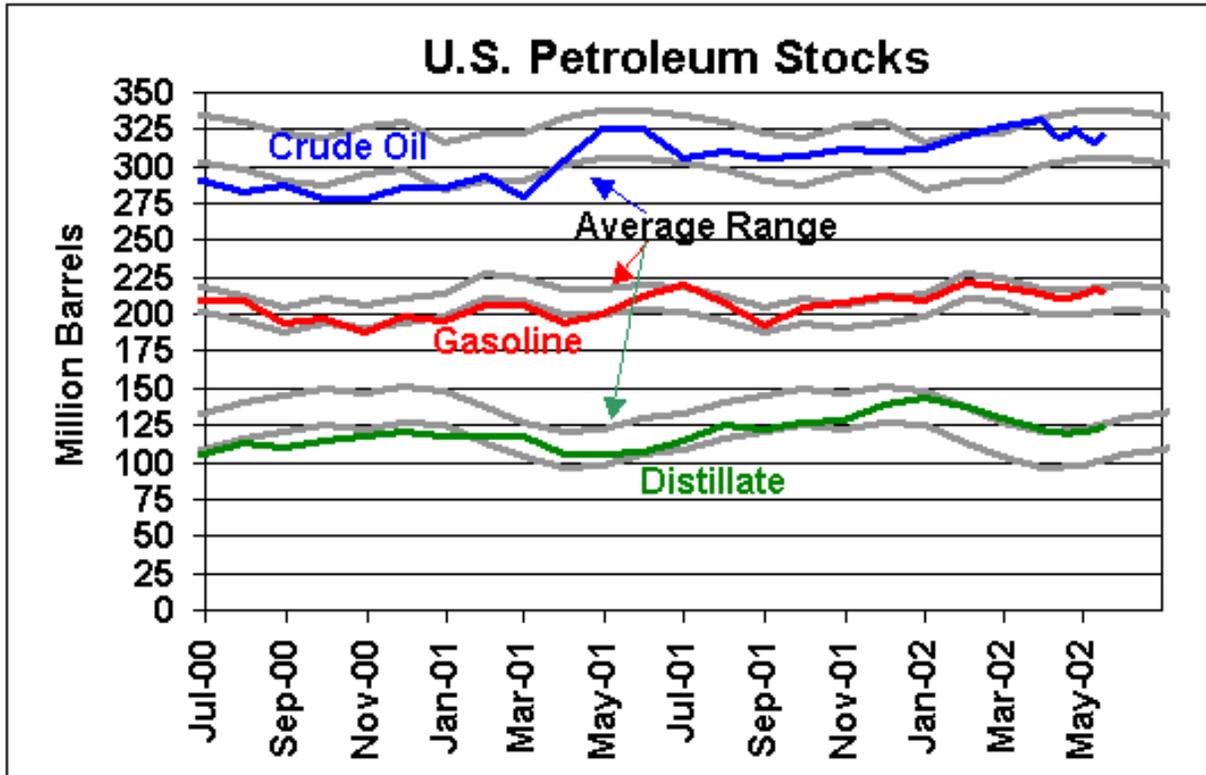
### **Retail Gasoline Prices Edge Upwards, Powered by a Midwest Increase**

The retail gasoline market saw a small gain last week, with the national average retail price for regular motor gasoline ending up 0.9 cent on May 20 to end at 139.7 cents per gallon. This price is 29.0 cents per gallon lower than last year. Prices have remained relatively flat over the past six weeks, with small up and down changes. Prices were mostly down throughout the country on May 20, with the increase in the U.S. price stemming from a large increase in the Midwest price. The Midwest retail price for regular motor gasoline increased by 3.9 cents per gallon from the previous week, ending at 140.5 cents per gallon. Prices have remained stable over the last several weeks, with very few changes in the spot market indicating that retail gasoline prices may have reached a new equilibrium for the very near-term. However, prices at the pump may rise if gasoline demand increases around Memorial Day. Retail diesel fuel prices increased by 1.0 cent per gallon to a national average of 130.9 cents per gallon as of May 20 after falling the previous week.

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## U.S. Petroleum Supply (updated May 22, 2002)

(Thousand Barrels per Day)	Four Weeks Ending		vs. Year Ago	
	5/17/2002	5/17/2001	Diff.	% Diff.
<b>Refinery Activity</b>				
Crude Oil Input	15,321	15,668	-347	-2.2%
Operable Capacity	16,800	16,641	159	1.0%
Operable Capacity Utilization (%)	91.9%	95.7%	-3.8%	
<b>Production</b>				
Motor Gasoline	8,585	8,562	23	0.3%
Jet Fuel	1,496	1,589	-93	-5.8%
Distillate Fuel Oil	3,725	3,654	71	1.9%
<b>Imports</b>				
Crude Oil (incl. SPR)	9,109	9,726	-617	-6.3%
Motor Gasoline	960	778	182	23.4%
Jet Fuel	102	169	-67	-39.6%
Distillate Fuel Oil	229	318	-89	-28.0%
<b>Total</b>	<b>11,690</b>	<b>12,272</b>	<b>-582</b>	<b>-4.7%</b>
<b>Exports</b>				
Crude Oil	32	56	-24	-43.3%
Products	933	987	-54	-5.4%
<b>Total</b>	<b>965</b>	<b>1,044</b>	<b>-79</b>	<b>-7.5%</b>
<b>Products Supplied</b>				
Motor Gasoline	8,740	8,644	96	1.1%
Jet Fuel	1,538	1,697	-159	-9.4%
Distillate Fuel Oil	3,647	3,763	-116	-3.1%
<b>Total</b>	<b>19,488</b>	<b>19,534</b>	<b>-46</b>	<b>-0.2%</b>
<b>vs. Year Ago</b>				
<b>Stocks</b> (Million Barrels)	<b>5/17/2002</b>	<b>5/17/2001</b>	<b>Diff.</b>	<b>% Diff.</b>
Crude Oil (excl. SPR)	320.4	325.5	-5.1	-1.6%
Motor Gasoline	216.1	206.7	9.4	4.5%
Jet Fuel	40.9	41.5	-0.6	-1.4%
Distillate Fuel Oil	123.9	106.3	17.6	16.6%
<b>Total (excl. SPR)</b>	<b>1,015.4</b>	<b>992.6</b>	<b>22.8</b>	<b>2.3%</b>



Source: Energy Information Administration, Weekly Petroleum Status Report, Petroleum Supply Monthly.

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## World Oil Market Highlights

(updated May 7, 2002)

According to second quarter 2002 estimates, the world holds about 6.8 million barrels per day of excess oil production capacity, over 90% of which lies in OPEC countries. This figure does not include Iraqi spare capacity.

<b>Major Sources of U.S. Petroleum Imports, 2001*</b>			
(all volumes in million barrels per day)			
	Total Oil Imports	Crude Oil Imports	Petroleum Product Imports
<b>Canada</b>	1.79	1.32	0.47

<b>Saudi Arabia</b>	1.66	1.61	0.05
<b>Venezuela</b>	1.54	1.28	0.26
<b>Mexico</b>	1.42	1.38	0.04
<b>Nigeria</b>	0.86	0.81	0.04
<b>Iraq</b>	0.78	0.78	0.00
<b>Norway</b>	0.33	0.27	0.06
<b>Angola</b>	0.32	0.31	0.07
<b>United Kingdom</b>	0.31	0.23	0.08
<b>Total Imports</b>	11.62	9.15	2.47

\* Table includes all countries from which the U.S. imported more than 300,000 barrels per day in 2001.

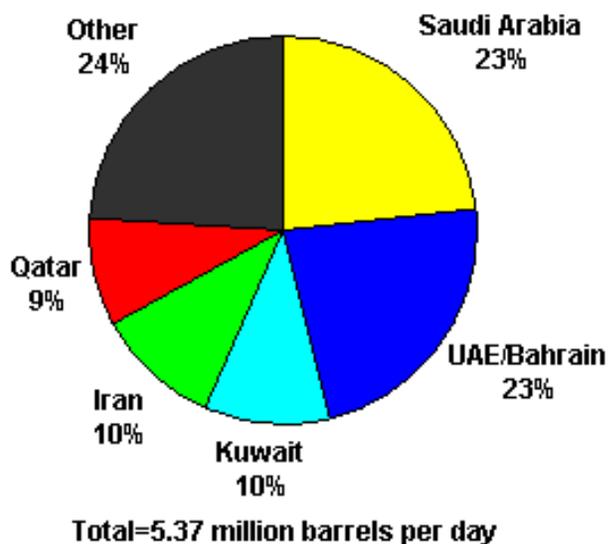
<b>Top World Oil Net Exporters, 2001*</b>		
	<b>Country</b>	<b>Net Exports (million barrels per day)</b>
1)	Saudi Arabia	7.38
2)	Russia	4.76
3)	Norway	3.22
4)	Iran	2.74
5)	Venezuela	2.60
6)	United Arab Emirates	2.09
7)	Nigeria	2.00
8)	Iraq	2.00
9)	Kuwait	1.80
10)	Mexico	1.65
11)	Libya	1.24
12)	Algeria	1.24

*\*Table includes all countries with net exports exceeding 1 million barrels per day in 2001.*

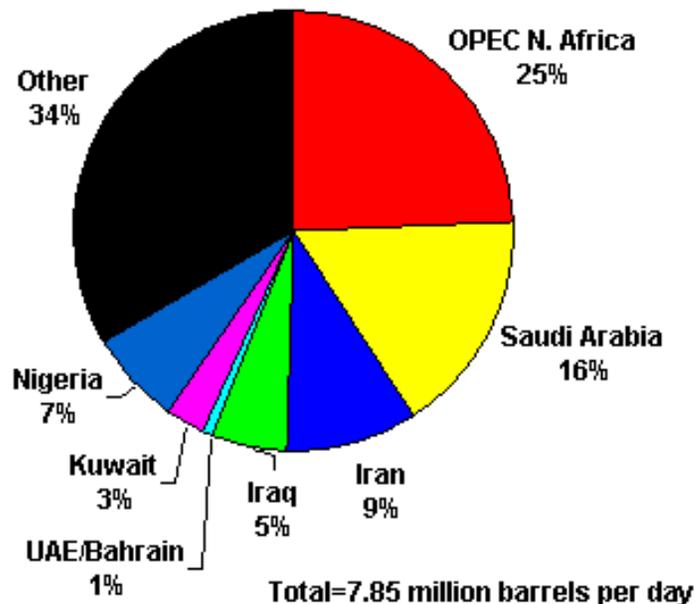
During 2001, about 48% of U.S. crude oil imports came from the Western Hemisphere (19% from South America, 15% from Mexico, 14% from Canada), while 30% came from the Persian Gulf region (18% from Saudi Arabia, 9% from Iraq, 3% from Kuwait).

In general, OECD Europe depends far more heavily on the Persian Gulf and North Africa for oil imports than the United States. During 2001, about 35% of OECD Europe's net oil imports came from the Persian Gulf (mainly Saudi Arabia, Iran, Iraq, and Kuwait), around one-third from Africa (mainly Libya, Algeria, and Nigeria), and much of the remainder from Russia. Japan receives over three-quarters of its oil supplies from the Persian Gulf (mainly the UAE, Saudi Arabia, Kuwait, Iran, and Qatar) with the remainder coming from Indonesia, China, and other sources.

**Japanese Net Oil Imports by Country, 2001**



**OECD European Net Oil Imports by Country, 2001**



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## Latest U.S. Weekly Natural Gas Information

(updated May 23, 2002)

[Industry/Market Developments](#)

*Merchants' Exchange to Launch Energy Futures Trading:* The Chicago-based Merchants' Exchange announced that it will launch its new on-line cash-settled energy futures exchange this week. Trading in Henry Hub natural gas futures

and West Texas Intermediate (WTI) crude oil futures will commence for the first time at 10:00 am on Friday, May 24. The specifications of the Henry Hub natural gas futures contract will be similar to those of the natural gas contract that is traded on the New York Mercantile Exchange (NYMEX). Trading will be conducted in each month within the next 36 months following the current calendar month, and the exchange's board of managers will set trading hours. The contract will be traded in lots of 10,000 MMBtu with no limits set on daily prices. The exchange is subject to oversight by the Commodity Futures Trading Commission (CFTC). CFTC also approved four other futures contracts for the Merchants' Exchange that will likely begin trading in the near future; these include Brent crude, New York Harbor unleaded gasoline, New York Harbor heating oil, and European gas oil.

*Natural Gas Rig Counts:* The number of rigs exploring for natural gas increased by 27 to 696 for the week ended Friday, May 17, according to Baker-Hughes Incorporated. Natural gas rigs are nearly 30% below last year at this time when they numbered 992. However, since the week ended April 5, 2002, when natural gas rigs numbered 591, the number of rigs has increased for six straight weeks, climbing almost 3% per week on average. The rig count now is almost 18% above the level recorded on April 5 and is at its highest level since early February 2002. According to the EIA *Short-Term Energy Outlook* (released May 6), aggregate lease revenues from domestic oil and gas production are expected to move up this year and settle at about \$300 million per month in 2003, which would be an increase of approximately 50% over the rates seen at the end of 2001. Inasmuch as these revenues are a strong determinant of industry cash flow, which in turn is a powerful driver of drilling activity levels, an upward trend in gas drilling levels is anticipated for this year and into 2003.

### Storage

Net injections into storage were 68 Bcf during the week ended May 17, according to EIA's [Weekly Natural Gas Storage Report](#), bringing total inventories to 1,725 Bcf. This marks the third consecutive week that total net injections have been less than the prior 5-year (1997-2001) average of stock change for the week. (See the *Historical Weekly Storage Estimates* database.) The total of 68 Bcf is about 11% below the 5-year average of 77 Bcf. Although the surplus of stocks with respect to the 5-year average has decreased, inventories remain over 300 Bcf greater than the 5-year average.

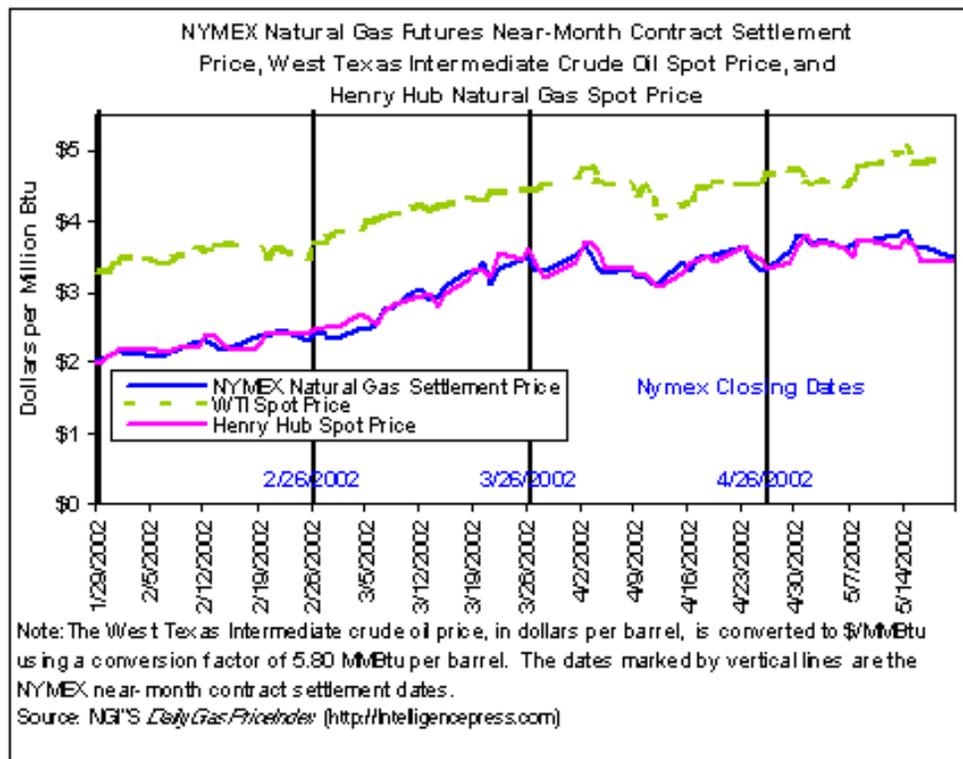
<b>All Volumes in Bcf</b>	<b>Current Stocks (Fri,5/17)</b>	<b>Estimated Prior 5-Year (1997-2001) Average</b>	<b>Percent Difference from 5 Year Average</b>	<b>Net Change from Last Week</b>	<b>One-Week Prior Stocks (Fri, 5/10)</b>
<b>East Region</b>	813	737	10.4%	34	779
<b>West Region</b>	259	205	26.5%	6	253
<b>Producing Region</b>	653	462	41.3%	28	625
<b>Total Lower 48</b>	1,725	1,404	22.9%	68	1,657

Source: Energy Information Administration: Form EIA-912, "Weekly Underground Natural Gas Storage Report," and the Historical Weekly Storage Estimates Database.

### Prices

Spot prices edged up modestly in most regional markets in Wednesday, May 22 trading. Virtually all gains were below a dime; at the Henry Hub, the average spot price rose a nickel to \$3.38 per MMBtu. Exceptions to this pattern were seen primarily in the Rockies and in northern California. In the Rockies, a general lack of demand contributed to prices holding steady or easing down a few cents at most market locations. At the Cheyenne Hub, the price was unchanged from Tuesday, May 22, at \$1.64 per MMBtu, while the average price on the Questar Pipeline system dropped 9 cents per MMBtu, to \$1.57 per MMBtu. In California, the PG&E citygate price declined 7 cents per MMBtu, to \$2.86 per MMBtu, as the system's operating volume approached maximum capacity, raising the prospect of an Operational Flow Order to reduce linepack.

On the NYMEX, the settlement price for the near-month (June delivery) futures contract rose for the first time in six trading sessions, gaining \$0.064 per MMBtu, to \$3.459 per MMBtu. Prior to Wednesday, May 22, the June contract had fallen by a cumulative 46 cents per MMBtu since Tuesday, May 14. Currently, the highest-priced gas for delivery in the coming heating season is for January delivery, at \$4.229 per MMBtu.



<i>All prices in \$ per MMBtu</i>	<b>California Composite</b>				<b>NYMEX futures contract-</b>	<b>NYMEX futures contract-</b>
	<b>Average Price*</b>	<b>Henry Hub</b>	<b>New York City</b>	<b>Chicago</b>	<b>June delivery</b>	<b>July delivery</b>
4/26/2002	2.70	3.32	3.66	3.33	3.372	3.407
4/29/2002	3.14	3.44	3.79	3.48	3.561	3.589
4/30/2002	3.27	3.65	3.95	3.67	3.795	3.823
5/1/2002	3.32	3.79	4.06	3.81	3.735	3.767
5/2/2002	3.15	3.65	3.91	3.66	3.684	3.721
5/3/2002	2.91	3.71	3.92	3.69	3.745	3.787
5/6/2002	3.23	3.61	3.81	3.58	3.595	3.639
5/7/2002	3.16	3.49	3.74	3.49	3.673	3.719
5/8/2002	3.30	3.74	4.01	3.74	3.746	3.794
5/9/2002	3.39	3.72	4.05	3.74	3.719	3.768
5/10/2002	3.16	3.71	4.00	3.73	3.749	3.800
5/13/2002	3.25	3.61	3.91	3.64	3.783	3.831
5/14/2002	3.37	3.75	4.06	3.79	3.855	3.912
5/15/2002	3.21	3.62	3.92	3.63	3.598	3.681
5/16/2002	3.00	3.44	3.73	3.49	3.609	3.689
5/17/2002	2.88	3.42	3.76	3.50	3.490	3.570
5/20/2002	3.07	3.44	3.80	3.53	3.395	3.473
5/21/2002	2.93	3.33	3.69	3.39	3.395	3.473
5/22/2002	2.91	3.38	3.75	3.42	3.459	3.537
5/23/2002	2.79	3.38	3.73	3.43	3.438	3.521

\* Average of NGI's reported average prices for: Malin, PG&E citygate, and Southern California Border Average.

Source: NGI's Daily Gas Price Index (<http://intelligencepress.com>)

## Latest U.S. Coal Information

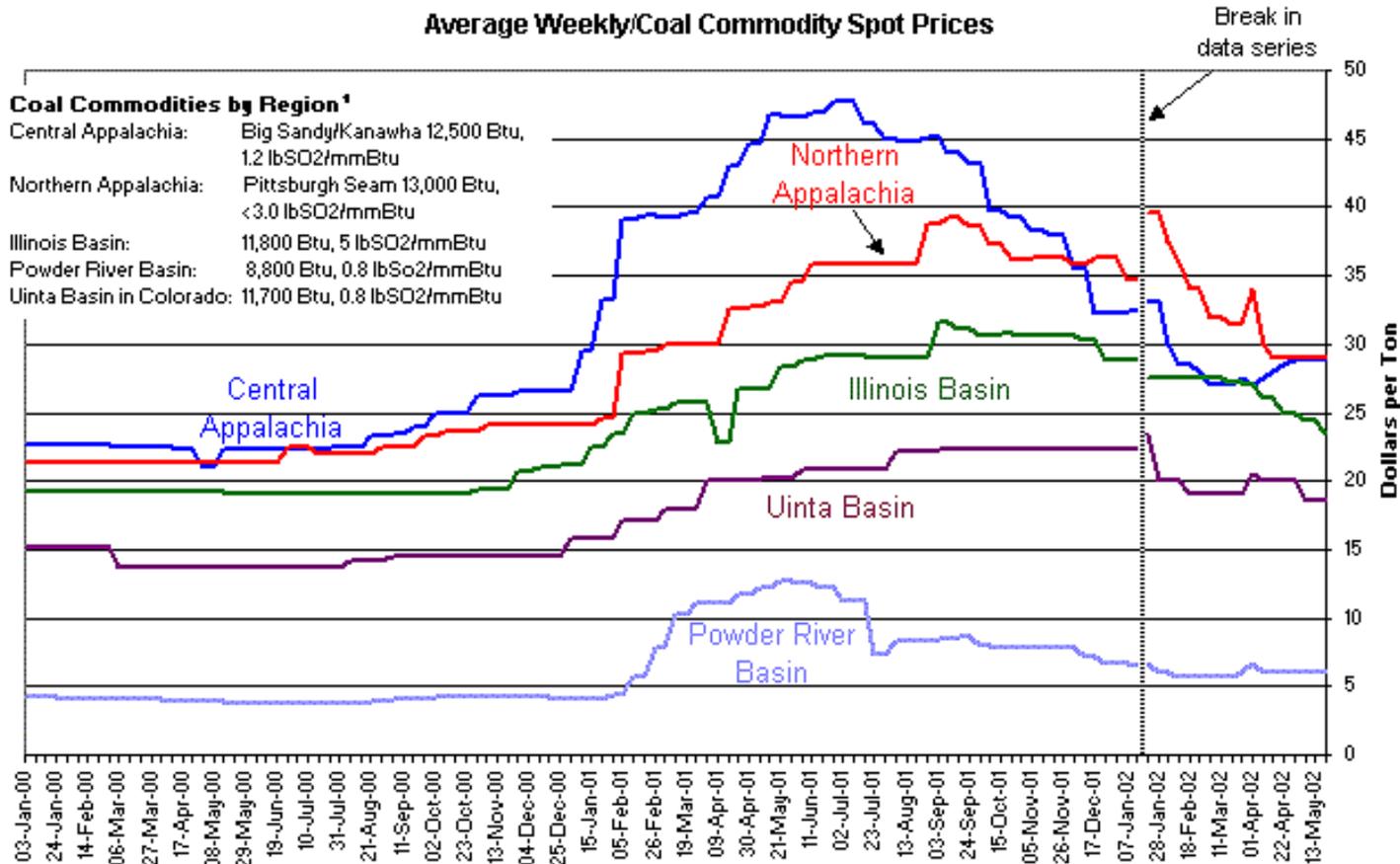
(updated May 23, 2002)

### Coal Production

For the week ending May 18, rail car loadings of coal and national [coal production](#) have fallen by 4.8% and 5.5%, respectively, compared to their levels a year ago. Year-to-date, western U.S. coal production is 1.5% below the levels of a year ago, whereas eastern U.S. coal production is estimated to be 9.8% below last year's level. The estimated production for the first four months of 2002 was 356.2 million short tons (mst). Lower production at this time correlates with higher-than-usual coal stockpiles at consuming facilities and with a long spring period of low seasonal demand at electric power plants, as well as slowed economic activity.

### Coal Prices

U.S. coal prices in recent months have either fallen or held relatively steady. Allowing for changes in the price indexes since last summer, Illinois, Uinta, and Powder River Basin coals continue the level-to-slowly-declining price profiles established under the 2001 spot data. Since peaking in summer 2001, Central and Northern Appalachian coal prices have fallen significantly (by about \$19.00 and \$10.00 per short ton, respectively). The latest indexed spot prices, \$28.75 per short ton for Central Appalachian and \$29.00 per short ton for Northern Appalachian coal, are respectively 29% and 36% above prices in the summer of 2000, prior to escalation. Those two prices have held steady now for the past 4 weeks and 6 weeks, respectively. Other prices are also running higher than the summer 2000 baseline: by about 35% for the Uinta Basin, 30% for the Illinois Basin, and 60% for the Powder River Basin.



Source: with permission, selected from listed prices in Platts Coal Outlook, "Weekly Price Survey"

\*Prior to January 14, 2002 EIA averaged 12-month "forward" spot prices for several coal specifications; after that date, the values shown are based on a single specification in each region for delivery by the end of the next quarter.

In the latest week, near-quarter over-the-counter (OTC) coal prices mostly held steady or moved down by small percentages (graphic above). Although [NYMEX](#) trade volumes are erratic, trading on Tuesday, May 14, reached a new high as 264 trades were settled. Prices for NYMEX trades for calendar

year 2003 rose to \$28.95 per short ton, from \$28.50 per short ton, and some OTC trades for Appalachian bituminous broke above \$29 per short ton for calendar year 2003. On average, however, settled prices since early February 2002 have been relatively level, in the \$25 to \$28 per short ton range with generally low daily volumes.

### **Coal Mining Legal Rulings**

In a brief filed May 13, the Federal Government argued that a recent court order “casts a tremendous cloud of uncertainty over all future coal mining in Appalachia.” The near-term effects in the region predicted in the Department of Justice’s motion would include suspension of future coal mining projects, laying off existing workers, and suspending plans for hiring new ones. Reactions have been swift since the ruling, which ordered the U.S. Army Corps of Engineers to cease issuing permits that allow filling of valleys and burial of streambeds adjoining mountaintop removal coal mining projects. Chief U.S. District Judge Charles H. Haden II issued the 44-page opinion on May 8, 2002, in Charleston, West Virginia, in a suit filed by Kentuckians for the Commonwealth, Inc., a citizens group, against the Corps' Huntington, West Virginia, District.

The disputed practice, known as "valley fill," has been allowed for almost 20 years and mining companies consider it an important component of economical coal recovery at the mammoth mountaintop operations. Haden wrote that the Corps' "rule change was designed simply for the benefit of the mining industry and its employees" and that the "practice is illegal because it is contrary to the spirit and the letter of the Clean Water Act." This ruling came just as the Government was taking steps to remove regulatory impediments to mountaintop mining, including plans to shift all permitting to individual States. On May 9, the Corps published a final rule in the Federal Register that allows mine overburden to be dumped in streams regulated under Section 404 of the Clean Water Act.

The National Mining Association warned that Haden's ruling would threaten more than 15,000 jobs in the region. In its May 13 motion, pending appeal, the Justice Department contends that the ruling is broad and, if fully implemented, would stop all new surface coal mining (not just mountaintop removal) in steep terrain, because some valley filling is necessary even in less expansive operations. It also contemplates possible impacts on underground mining in steep terrain, which generally requires preparation plants, with waste impoundments in valleys, and may use valley fill for mine roads. Further, the motion questions whether the ruling might be applied to other mining besides coal. *Platts Coal Outlook* reported on May 20 that the Kentucky Coal Association filed a motion designed to stay Judge Haden's ruling and as a request for clarification on several points. For example, would the ruling in fact restrict surface coal slurry impoundments, and what geographic extent is implicated? If the ruling is interpreted broadly, said one Kentucky coal operator, "we are going to be losing a lot of coal."

In a separate issue affecting mostly Appalachian coal mining, on April 24 the National Mining Association filed a motion to stay a March 28 ruling restricting land subsidence associated with underground coal mining. On April 25, Secretary of the Interior and co-defendant Gale Norton filed for a stay of the same decision. The ruling by U.S. District Judge James Robertson of the federal district court in Washington, DC, would restrict underground coal mining beneath national parks, inhabited residences, and other protected areas. The court sided with the Citizens Coal Council, an environmental advocacy group, which challenged how the Department of the Interior permits underground coal mining, especially "longwall" mining that may cause ground subsidence in protected areas. The ruling would negate long-standing permit practices that have regularly been challenged almost since the inception of the Surface Mining Control and Reclamation Act of 1977.

In the long term, EIA expects domestic coal supplies to be adequate for projected consumption. Most coal is still sold under multi-year contracts, and average prices for all coal supply contracts, incorporating spot and long-term, are projected to stabilize at well below current spot prices. EIA's projections of average coal prices decline slightly in inflation-adjusted dollars because nominal prices rise more slowly than the rate of inflation between 2000 and 2020.

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## Latest U.S. Electricity Information

(updated May 23, 2002)

**Selected Wholesale Electricity Prices:** Western U.S. wholesale electricity prices have been mixed over the past seven days (excluding weekend transactions) coinciding with fluctuations in weather and electricity demand. Prices at the COB have ranged between a high of \$32.50 per megawatthour on May 15 and a low of \$24.02 per megawatthour on May 22. Prices at the Palo Verde trading center have ranged between a high of \$35.67 per megawatthour on May 15 and a low of \$24.34 per megawatthour on May 22.

Similarly, prices in the Northeast have been mixed over the past seven days. At the New England ISO, high off-peak electricity demand due to overnight temperatures approaching the freezing mark drove prices to a high of \$41.77 per megawatthour on May 21, dropping back to \$36.47 per megawatthour on May 22.

Prices at the New York ISO ranged from a high of \$37.09 per megawatthour on May 15 to a low of \$32.19 per megawatthour on May 20.

The average price at all trading centers has been mixed, ranging between a high of \$32.47 on May 15 and a low of \$25.50 per megawatthour on May 22.

### U.S. Regional Electricity Prices at Major Trading Centers (Dollars per megawatthour)

Trading Centers	Date							Price Range		
	5/15/02	5/16/02	5/17/02	5/20/02	5/21/02	5/22/02	5/23/02	Max	Min	Average
<b>COB</b>	32.50	29.96	26.25	28.05	24.25	24.02	17.10	32.50	17.10	26.02
<b>Palo Verde</b>	35.67	30.86	27.40	29.48	25.79	24.34	20.22	35.67	20.22	27.68
<b>Mid-Columbia</b>	30.89	27.92	24.18	24.21	20.89	17.17	10.82	30.89	10.82	22.30
<b>Mead/Marketplace</b>	35.10	31.88	29.25	30.78	26.94	25.29	21.33	35.10	21.33	28.65
<b>4 Corners</b>	34.29	30.58	26.00	29.00	25.95	24.30	19.79	34.29	19.79	27.13
<b>NP 15</b>	35.23	32.06	27.92	30.67	27.41	27.41	22.45	35.23	22.45	29.02
<b>SP 15</b>	35.82	32.41	28.54	30.56	27.55	26.63	22.84	35.82	22.84	29.19
<b>PJM West</b>	26.00	28.51	28.60	26.28	25.43	26.63	26.35	28.60	25.43	26.83
<b>ISO New England</b>	35.65	35.81	36.95	35.97	41.77	36.47	35.23	41.77	35.23	36.83
<b>New York ISO</b>	37.09	34.87	34.41	32.19	33.21	32.86	37.03	37.09	32.19	34.53
<b>Cinergy</b>	18.96	17.78	18.30	18.38	16.15	15.41	15.69	18.96	15.41	17.24
<b>Average Price</b>	32.47	30.24	27.98	28.69	26.85	25.50	22.62	32.47	22.62	27.77

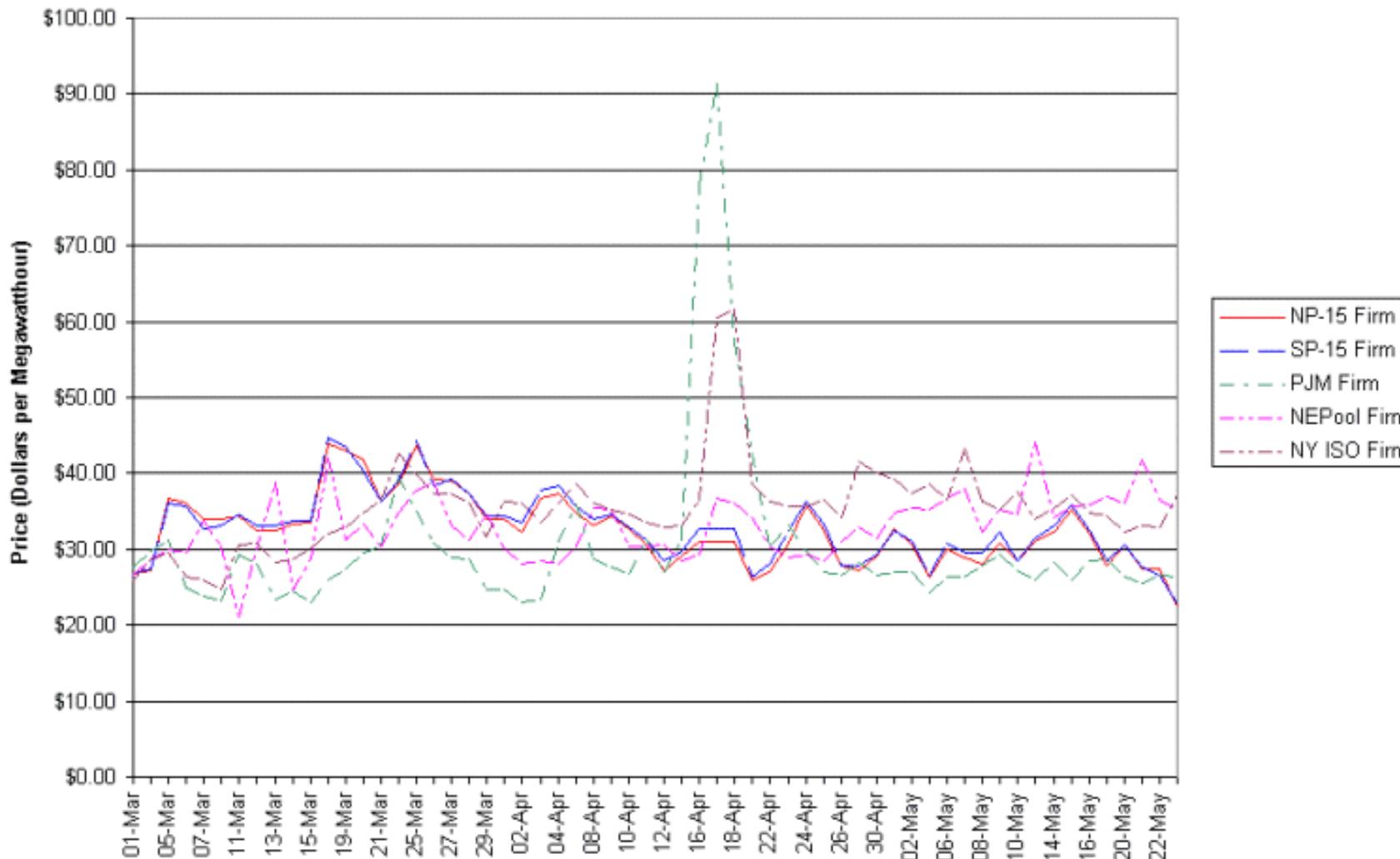
**Sources:** COB, Palo Verde, Mid-Columbia, Mead/Market Place, Four Corners, NP-15, SP-15, PJM-West, and Cinergy trading centers. Used with permission from Bloomberg L.P. ([www.bloomberg.com](http://www.bloomberg.com)); ISO New England (<http://www.iso-ne.com>); and New York ISO (<http://www.nyiso.com>).

**Notes:**

n.q. - No quotes available for the day.

**COB:** Average price of electricity traded at the California-Oregon and Nevada-Oregon Borders.  
**Palo Verde:** Average price of electricity traded at Palo Verde and the West Wing, Arizona.  
**Mid-Columbia:** Average price of electricity traded at Mid-Columbia.  
**Mead/Market Place:** Average price of electricity traded at Mead Market Place, McCullough and Eldorado.  
**Four Corners:** Average price of electricity traded at Four Corners, Shiprock, and San Juan, New Mexico.  
**NP-15:** Average price of electricity traded at NP-15.  
**SP-15:** Average price of electricity traded at SP-15.  
**PJM-West:** Average price of electricity traded at PJM Western hub.  
**ISO New England:** Average price of electricity traded at the New England ISO, formerly Nepool.  
**New York ISO:** Average price of electricity traded at the New York ISO.  
**Cinergy:** Average price of electricity traded into the Cinergy control area.

### Average Wholesale Electricity Prices in the U.S.



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File last modified: May 23, 2002

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