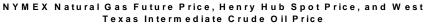


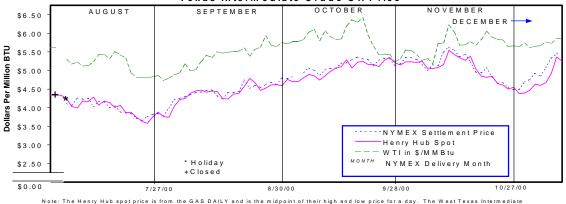
## EIA

**Energy Information Administration** Office of Oil and Gas November 13, 2000

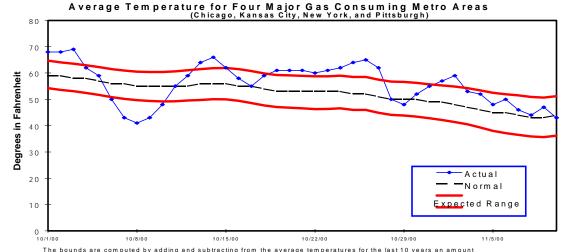
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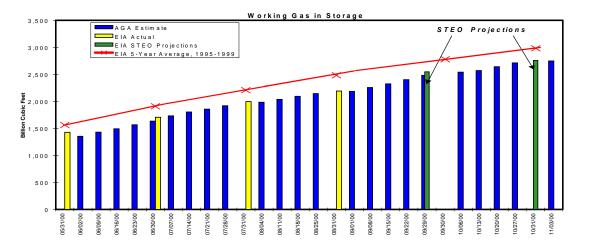
HENRY HUB PRICE						
	(\$ per MMBtu)					
SPOT		FUTURES				
Oc	tober	November				
	Del	Del				
11/06	4.50-4.70	) 4.849				
11/07	4.60-4.75	5 5.081				
11/08	4.89-4.95	5 5.338				
11/09	5.30-5.42	2 5.445				
11/10	5.21-5.28	3 5.456				



Note: The Henry Hub spot price is from the GAS DAILY and is the midpoint of their high crude oil price, in dollars per barrel, is the "sell price" from the GAS DAILY, and is conve MMBtu per barrel. The dates marked by vertical lines are the NYMEX near-month cont and low price for a day. The WestTexas Intermediate rted to \$/MMBtu using a conversion factor of 5.80 tract settlement dates. n verted contract



The bounds are computed by adding and subtracting from the average temperatures for the last 10 years an equal to twice an estimate of the standard deviation for temperatures ona day. amount



Average Temperature for Four Major Gas Consuming Areas							
	Actual	Normal	Diff				
11/04	52	46	6				
11/05	48	45	3				
11/06	50	45	5				
11/07	46	44	2				
11/08	44	43	1				
11/09	47	43	4				
11/10	43	44	-1				

Working Gas Volume as of 11/03/00					
	BCF	% Full			
East	1678	91			
West	383	76			
Prod Area	687	72			
U. S.	2748	83			
Source: AGA					

On November 7, the near-month futures price for natural gas at the Henry Hub ended the trading day at \$5.081 per MMBtu, breaking the \$5 mark for the fist time since October 23. The spot natural gas price at the Henry Hub was also higher, ending the week at \$5.25 per MMBtu for a \$0.62 gain from the previous week. A number of events coalesced to force prices higher . First, the warm temperatures that prevailed the first week of the heating season ended abruptly Tuesday, November 7 as forecasts called for further below normal temperatures throughout much of the country. Much of the country's mid section from Texas westward has had up to 70 percent less heating degree days in the first week of the heating season. The National Weather Service (NWS), though, is calling for below normal temperatures over most of the country from November 15 through the 19. Second, the reported stock addition for the week ending November 3, while over twice the average, fell short of industry's optimistic expectations. Third, slight increases in crude oil prices may have been a contributing factor as crude oil markets reacted to export problems in Nigeria and a move by Iraq to halt exports through Turkey for 24 hours. By the end of the week, the West Texas Intermediate marker crude was up \$1.30 compared to the previous Friday and ended at \$34.05 per barrel (\$5.87 per MMBtu).

**Storage:** The American Gas Association (AGA) estimated net injections of 36 Bcf for the week ended Friday, November 3, bringing EIA's estimate of total inventories as of this date to 2,758 Bcf, 7.0 percent less than the 5-year average. The injection estimate is the largest for this particular week in the year for the 7 years that AGA has been publishing weekly estimates, and is over two and one-half times the average (12.3 Bcf) for that period. Consequently (with the exception of the West Region, which experienced net withdrawals), inventories relative to the EIA-estimated 5-year (1995-99) average continued to improve. As of November 3, East Region working gas volumes, at an estimated 1,780 Bcf, are just 2.5 percent below the 5-year average. The strong 21 Bcf injections into Producing Region facilities raised its estimated level to 666 Bcf and improved its position by over 2 percentage points from the previous week to 13.2 percent below average.

**Spot Prices:** With cooler temperatures pervading many parts of the country, weather-related demand started to expand, causing spot prices in nearly all locations to spike mid week then retreat on Friday. Chicago and New York citygate prices ended trading at \$5.46 and \$5.73 per MMBtu on Thursday. When prices softened on Friday, most markets moved down 10 to 30 cents. Actions to limit excessive draws in the Northwest and on the El Paso transmission system pushed spot prices in the West higher before Friday's corrections took hold. Prices in Sumas, Washington and San Juan Basin, New Mexico went up about \$1, reaching \$6.58 and \$5.50. The PG&E and SOCAL sales to high volume customers were at least \$1.24 more than the previous week, reaching \$6.53 and \$6.89 on Thursday.

**Futures Prices:** The December NYMEX futures contract settlement price has moved up 8 out of 9 days since Monday (10/30), increasing by \$0.971per MMBtu since then. After declining briefly on Monday, the near-month turned in two successive increases of about 25 cents before the price increase decelerated to a penny at week's end. The January, February, and March contracts saw at least a \$0.310 advance over the course of the week to settle at \$5.492, \$5.212, and \$4.912 respectively, on Friday.

**Summary:** Traders reacted strongly this week to cooler weather and a stock position that, while adequate in the East consuming region, is 7.0 percent below the national 5-year average for this time of year. The following supplement provides an outlook of the domestic natural gas transmission capability during the 2000-01 heating season.

**Natural Gas Transmission Outlook, 2000-01 Heating Season:** In the "Status of Natural Gas Pipeline System Capacity Entering the 2000-2001 Heating Season" (<u>http://www.eia.doe.gov/oil\_gas/natural\_gas/feature\_articles/nat\_feature\_articles.html</u>), EIA concluded that absent an extremely cold upcoming heating season and other unforeseen situations, the nation's natural gas interstate pipeline infrastructure appears more than adequate to meet the differing regional market demand requirements that are likely to be placed upon it. The conclusion was based on a number of factors, including the amount of surplus transportation capacity as suggested by usage rates on interregional pipeline systems (see table). In addition, the opening of the Alliance Pipeline in Canada, now

expected for the first week in December, will improve the U.S. supply picture by an eventual 1.3 Bcf per year through enhanced deliveries from the Midwest to New England. There are some points on the system, though, where the potential exists for temporary capacity constraints during heavy demand periods:

- In the New York City area, capacity constraint problems have occurred in recent years during periods of unusual weather.
- In the Boston area, where pipeline capacity is already heavily utilized, demand has been growing and is expected to grow rapidly over the next several years, especially from developers of gas-fired power generation plants.
- The Leidy area of north central Pennsylvania, where a number of major interstate natural gas pipelines interconnect, has the potential to become a constraint point for pipeline gas flowing to the East Coast, and particularly into the northern New Jersey, New York City area.
- Portions of the Western Region, notably the California market, have growing demand for natural gas for electrical generation, especially during very warm summer weather periods. Utilization levels on the major transmission pipelines serving the State have been well above 90 percent in recent months so have limited flexibility to meet future demand increases.
- Service needs in the southern Nevada area continue to remain at a very high level, suggesting

Receiving Region	Sending Region		Average Flow (MMcf/d)	Usage Rate On Active Systems (percent)
		Estimated 2000 Capacity (MMcf/d)	1999	1999
Canada	Central Midwest Western	66 3,329 51	1,456	 60 
Total into Region	western	3,446	1,456	60
Mexico	Southwest Western	1,605 448	187 22	19 15
Total into Region		2,053	209	14
Central	Canada Midwest Southwest	3,673 3,054 8,878	2,221 2,105 4,097	95 89 49
Total into Region	Western	298 15,904	86 8,509	29 65
Midwest	Canada Central Northeast Southeast	3,267 12,867 2,090 9,821	2,849 7,750 657 6,088	87 67 32 62
Total into Region	oounouor	28,045	17,344	65
Northeast Total into Region	Canada Midwest Southeast	2,956 4,887 5,480 13,323	2,158 3,290 4,045 9,493	83 76 74 77
Southeast	Northeast Southwest	532 21,311	13 14,251	35 67
Total into Region		21,844	14,264	67
Southwest	Central Mexico Southeast	2,604 565 405	1,240 149 16	54 43 23
Total into Region	Councilou	3,574	1,405	52
Western	Canada Central Southwest	4,412 1,219 5,487	3,331 762 2,949	78 98 55
Total into Region	Gouinweal	11,118	7,043	68
Total Within Lower 48 States		93,808	59,638	66

Source: Energy Information Administration, "Status of Natural Gas Pipeline System Capacity Entering the 2000-2001 Heating Season," *Natural Gas Monthly*, DOE/EIA-0130 (Washington, DC, October 2000), Table SR-1.

the need for system expansion in that area as well.

NWS's forecast for this winter calls for normal weather in the country's northern tier (*Natural Gas Weekly Update*, October 27, 2000), suggesting that natural gas deliveries could progress through the upcoming winter as usual.