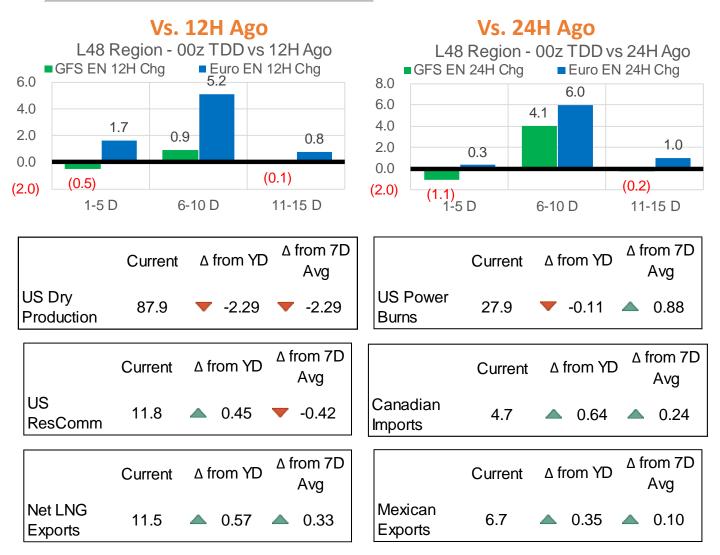


68.38 🔺 \$ 0.82 🔺 \$

Brent

Prompt

\$



1.0

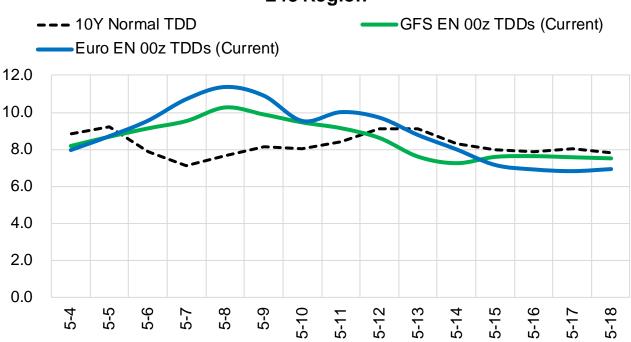
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Regional S/D Models Storage Projection Weather Model Storage Projection Nat Gas Options Volume and Open Interest Nat Gas Futures Open Interest

1

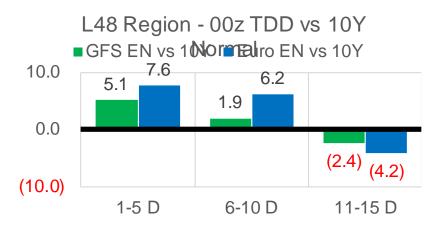


Short-term Weather Model Outlooks (00z)



L48 Region

Vs. 10Y Normal



Source: WSI, Bloomberg

Market Report

4 May 2021

Daily Balances

	28-Apr	29-Apr	30-Apr	1-May	2-May	3-May	4-May	DoD	vs.7D
Lower 48 Dry Production	90.0	90.2	90.5	90.5	89.7	90.1	87.9	▼ -2.3	▼ -2.3
Canadian Imports	4.9	5.0	4.8	4.0	4.0	4.1	4.7	0.6	0.3
L48 Power	29.1	28.6	26.4	24.1	25.1	28.0	27.9	- 0.1	1.0
L48 Residential & Commercial	11.5	12.1	15.1	13.0	9.3	11.3	11.8	a 0.4	▼ -0.2
L48 Industrial	18.4	19.2	20.1	20.2	19.9	19.6	18.4	▼ -1.2	▼ -1.2
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	5.0	4.9	▼ -0.1	▼ -0.1
L48 Pipeline Distribution	2.0	2.0	2.0	1.9	1.8	2.0	2.0	0 .0	A 0.1
L48 Regional Gas Consumption	65.9	66.8	68.6	64.1	61.0	66.0	64.9	T-1.0	V -0.5
Net LNG Delivered	10.69	11.18	11.61	11.65	10.49	10.91	11.48	0.6	0.4
Total Mexican Exports	7.0	7.0	6.8	6.5	5.8	6.4	6.7	0.4	0.2
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	11.2	10.2	8.3	12.2	16.3	11.0	9.4		

Lower 48 Component Models

Daily Model Error

EIA Storage Week Balances

	26-Mar	2-Apr	9-Apr	16-Apr	23-Apr	30-Apr	WoW	vs. 4W
Lower 48 Dry Production	90.7	91.5	91.3	90.9	90.3	90.6	0.3	▼-0.4
Canadian Imports	4.5	4.5	4.2	4.3	5.3	4.6	▼ -0.7	▲ 0.0
L48 Power	24.1	24.6	23.2	24.6	25.9	26.7	a 0.8	2 .1
L48 Residential & Commercial	25.0	23.4	18.6	18.6	24.0	16.5	▼ -7.5	- 4.6
L48 Industrial	19.1	20.1	20.6	21.1	19.5	18.7	▼ -0.7	T -1.6
L48 Lease and Plant Fuel	5.0	5.0	5.0	5.0	5.0	5.0	0.0	▼ 0.0
L48 Pipeline Distribution	2.3	2.3	2.1	2.1	2.5	2.1	V -0.3	- 0.1
L48 Regional Gas Consumption	75.5	75.4	69.5	71.4	76.8	69.0	▼ -7.8	▼-4.3
Net LNG Exports	11.6	11.7	11.5	11.4	11.6	11.4	-0.2	T-0.1
Total Mexican Exports	6.6	6.4	6.2	7.3	6.8	6.7	▼ -0.1	▲ 0.0
Implied Daily Storage Activity	1.6	2.4	8.3	5.2 5.4	0.5	8.1	7.6	•
EIA Reported Daily Storage Activity Daily Model Error	2.0 -0.4	2.9 -0.4	8.7 -0.4	5.4 -0.3	2.1 -1.7			

Monthly Balances

	2Yr Ago	LY							
	May-19	May-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	MoM	vs. LY
Lower 48 Dry Production	90.1	86.5	90.3	83.2	90.7	90.8	89.5	▼ -1.3	6.3
Canadian Imports	4.7	3.9	6.3	6.4	4.8	4.7	4.2	-0.4	▼ -2.2
L48 Power	26.9	26.9	28.2	27.9	25.0	25.2	26.3	A 1.1	T -1.7
L48 Residential & Commercial	12.8	12.7	43.9	47.9	28.4	19.7	11.4	▼ -8.4	▼-36.5
L48 Industrial	22.7	18.9	23.1	20.2	18.8	20.0	19.5	▼ -0.5	- 0.7
L48 Lease and Plant Fuel	5.0	4.8	5.0	4.7	5.0	5.0	5.0	▼ 0.0	0.3
L48 Pipeline Distribution	2.1	2.0	3.2	3.3	2.5	2.2	1.9	v -0.3	▼-1.4
L48 Regional Gas Consumption	69.4	65.3	103.4	103.9	79.8	72.2	64.0	▼ -8.1	▼-39.9
Net LNG Exports	5.6	6.7	10.5	8.4	11.1	11.5	11.1	▼ -0.3	2.7
Total Mexican Exports	5.0	4.8	6.2	5.7	6.5	6.7	6.4	▼ -0.3	0.7
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	14.8	13.6	-23.5	-28.5	-1.9	5.1	12.2		

Source: Bloomberg, analytix.ai

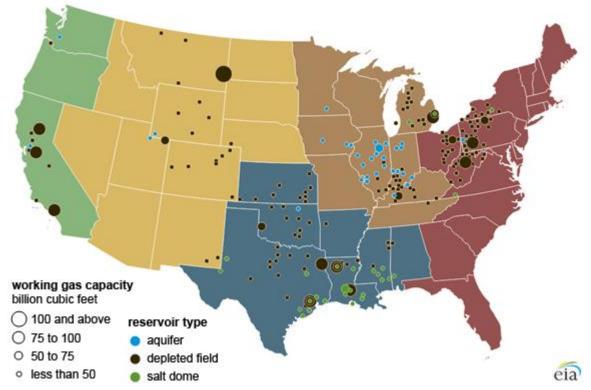


Regional S/D Models Storage Projection

Week Ending	30-Apr			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
<u>L</u> 48	7.8	1.3	9.1	64
East	0.2	2.0	2.3	16
Midwest	2.7	0.1	2.7	19
Mountain	3.6	-3.1	0.5	4
South Central	0.1	2.8	2.8	20
Pacific	1.2	-0.5	0.7	5

*Adjustment Factor is calcuated based on historical regional deltas

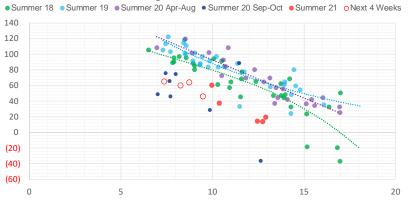
U.S. underground natural gas storage facilities by type (July 2015)



Weather Model Storage Projection

Next report and beyond		
Week Ending	GWDDs	Week Storage Projection
30-Apr	8.8	64
07-May	8.3	60
14-May	9.5	46
21-May	7.4	65

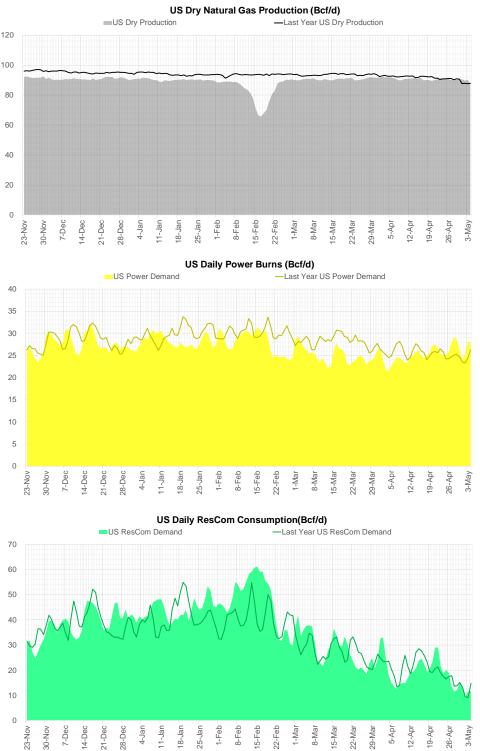
Weather Storage Model - Next 4 Week Forecast



Go to larger image

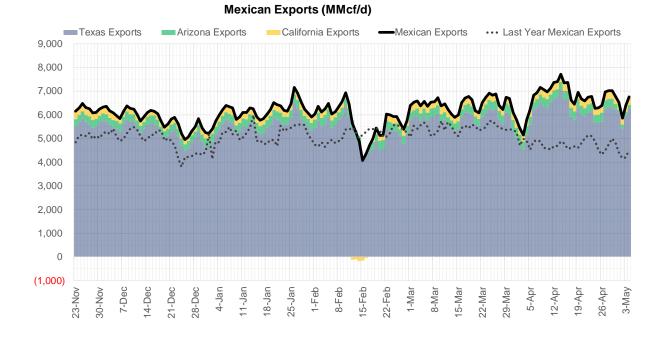


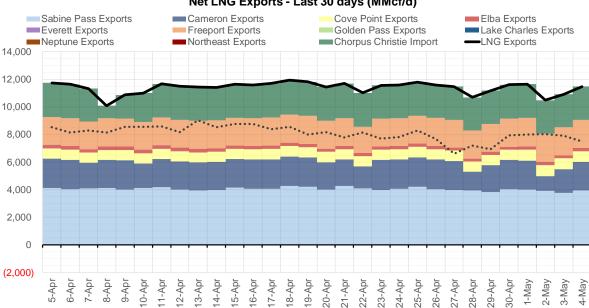




Source: Bloomberg







Net LNG Exports - Last 30 days (MMcf/d)

Source: Bloomberg

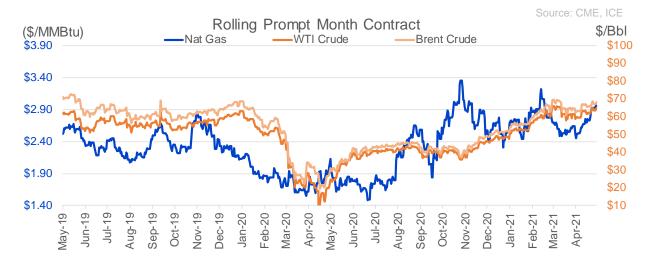


Nat Gas Options Volume and Open Interest CME, ICE and Nasdaq Combined

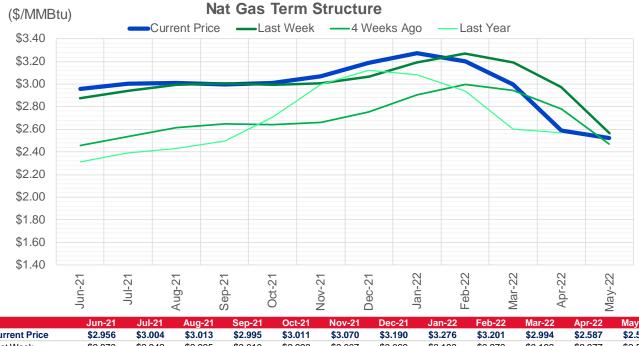
	CONTRACT	PUT/CALL	STRIKE	CUMULATIVE	CONTRA MONT		PUT/CALL	STRIKE	CUMULATIVE OI
MONTH	YEAR			VOL	WONT	I TEAK			
6	2021	С	3.25	4705	10	2021	С	4.00	39630
6	2021	Р	2.55	4388	6	2021	С	3.00	33582
6	2021	Р	2.50	3731	8	2021	С	4.00	32589
6	2021	C	3.00	3348	10	2021	С	3.25	31235
10	2021	P	1.75	3340	6	2021	С	3.25	29977
6	2021	P	2.60	3048	6	2021	Р	2.50	29659
6	2021	P	2.40	3002	8	2021	С	3.50	28272
10	2021	C	4.00	2823	7	2021	С	4.00	28268
6	2021	P	2.70	2455	6	2021	Р	2.65	28193
12	2021	Ċ	3.75	2365	6	2021	С	4.00	27949
7	2021	P	2.75	1961	10	2021	C	5.00	26619
6		P		1949	8	2021	C	3.25	26373
	2021	P C	2.65		7	2021	C	3.25	25673
8	2021		3.00	1921	10	2021	P	2.50	24373
9	2021	С	4.00	1899	10	2021	c	3.50	23339
6	2021	Р	2.75	1813	6	2021	č	3.50	23204
7	2021	Р	2.50	1786	9	2021	c	3.50	20442
10	2021	С	3.50	1670	7	2021	c	3.50	20306
7	2021	С	3.25	1588	, 10	2021	c	3.00	20251
10	2021	С	3.25	1533	9	2021	c	4.00	20231
6	2021	Р	2.90	1466	8	2021	P	2.50	19510
10	2021	С	3.00	1384	o 12	2021	F C	2.50 4.00	
7	2021	С	3.00	1383					19465
9	2021	С	3.25	1380	4	2022	С	3.00	19174
6	2021	С	3.50	1375	10	2021	P P	2.25	19077
6	2021	Р	2.85	1336	6	2021		2.25	19056
9	2021	С	3.00	1210	7	2021	P	2.50	18495
10	2021	Р	2.30	1200	8	2021	Р	2.25	18220
7	2021	С	4.00	1189	6	2021	Р	2.75	17936
8	2021	C	3.50	1150	9	2021	Р	2.00	17869
1	2022	P	2.00	1130	6	2021	P	2.00	17062
8	2021	C	3.25	933	9	2021	С	3.25	16907
6	2021	c	2.95	760	11	2021	С	4.00	16731
6	2021	P	2.95	707	10	2021	Р	2.00	16500
6	2021	C	3.20	697	7	2021	Р	2.00	16035
7	2021	c	3.20	684	7	2021	С	3.00	15865
6	2021	c	3.15	648	8	2021	Р	2.00	15795
		c			8	2021	С	3.00	15702
3	2022		5.00	618	6	2021	С	3.75	15656
10	2021	С	6.00	600	3	2022	С	4.00	14990
8	2021	С	4.00	592	6	2021	С	2.75	14885
6	2021	С	4.00	532	9	2021	Р	2.50	14835
1	2022	С	4.00	530	10	2021	С	4.50	14034
2	2022	С	4.00	530	12	2021	Р	2.00	14031
3	2022	С	4.00	530	9	2021	Р	1.90	13733
10	2021	С	4.25	500	3	2022	С	5.00	13625
1	2022	С	5.00	500	10	2021	С	6.00	13182
2	2022	С	5.00	500	5	2022	С	3.00	13147
7	2021	Р	2.25	443	8	2021	С	3.75	13032
6	2021	Р	2.80	402	6	2021	Р	2.60	13000
6	2021	С	3.05	393	6	2021	Р	24	12934 25
							Sourc	e: CME, ICE	

Nat Gas Futures Open Interest CME, and ICE Combined

CME Henry H	Hub Futures (1						lent (10,000 MM			
	Current	Prior	Daily Change	FOR JUNE 26	Current	Prior	Daily Change			
JUN 21	201051	204949	-3898	JUN 21	87618	87301	317			
JUL 21	202390	197415	4975	JUL 21	85666	85341	325			
AUG 21	70563	70960	-397	AUG 21	79223	79313	-89			
SEP 21	107253	108285	-1032	SEP 21	69617	69378	239			
OCT 21	130282	128667	1615	OCT 21	89132	88538	594			
NOV 21	68318	67359	959	NOV 21	61937	61465	473			
DEC 21	46170	46153	17	DEC 21	60113	59490	623			
JAN 22	76304	74664	1640	JAN 22	65990	65732	258			
FEB 22	23498	23150	348	FEB 22	47580	47416	164			
MAR 22	48460	47266	1194	MAR 22	52773	52707	66			
APR 22	49937	49535	402	APR 22	47886	47755	132			
MAY 22	29752	28959	793	MAY 22	43314	43132	182			
JUN 22	16348	16461	-113	JUN 22	40600	40320	280			
JUL 22	9999	9984	15	JUL 22	40644	40494	149			
AUG 22	8897	8822	75	AUG 22	39140	38971	169			
SEP 22	9372	9245	127	SEP 22	40017	39769	248			
OCT 22	22361	22155	206	OCT 22	45281	44976	305			
NOV 22	11022	10590	432	NOV 22	35811	35602	209			
DEC 22	10063	10102	-39	DEC 22	39756	39679	77			
JAN 23	5233	5215	18	JAN 23	22705	22598	107			
FEB 23	2547	2548	-1	FEB 23	21199	21023	176			
MAR 23	5124	5068	56	MAR 23	22745	22675	70			
APR 23	5748	5718	30	APR 23	18577	18593	-16			
MAY 23	4407	4411	-4	MAY 23	18750	18659	91			
JUN 23	960	955	5	JUN 23	17151	17069	81			
JUL 23	1077	1077	0	JUL 23	17255	17147	109			
AUG 23	754	754	0	AUG 23	17398	17290	109			
SEP 23	763	763	0	SEP 23	16796	16691	105			
OCT 23	1754	1754	0	OCT 23	17564	17473	91			
NOV 23	608	608	0	NOV 23	16889	16839	50			



Market Report



Current Price	\$2.956	\$3.004	\$3.013	\$2.995	\$3.011	\$3.070	\$3.190	\$3.276	\$3.201	\$2.994	\$2.587	\$2.524
Last Week	\$2.873	\$2.942	\$2.995	\$3.010	\$2.993	\$3.007	\$3.069	\$3.193	\$3.273	\$3.192	\$2.977	\$2.566
vs. Last Week	\$0.083	\$0.062	\$0.018	-\$0.015	\$0.018	\$0.063	\$0.121	\$0.083	-\$0.072	-\$0.198	-\$0.390	-\$0.042
4 Weeks Ago	\$2.456	\$2.536	\$2.618	\$2.650	\$2.642	\$2.661	\$2.751	\$2.902	\$2.996	\$2.943	\$2.779	\$2.469
vs. 4 Weeks Ago	\$0.500	\$0.468	\$0.395	\$0.345	\$0.369	\$0.409	\$0.439	\$0.374	\$0.205	\$0.051	-\$0.192	\$0.055
Last Year	\$2.134	\$2.312	\$2.388	\$2.430	\$2.498	\$2.705	\$2.994	\$3.125	\$3.080	\$2.935	\$2.605	\$2.568
vs. Last Year	\$0.822	\$0.692	\$0.625	\$0.565	\$0.513	\$0.365	\$0.196	\$0.151	\$0.121	\$0.059	-\$0.018	-\$0.044

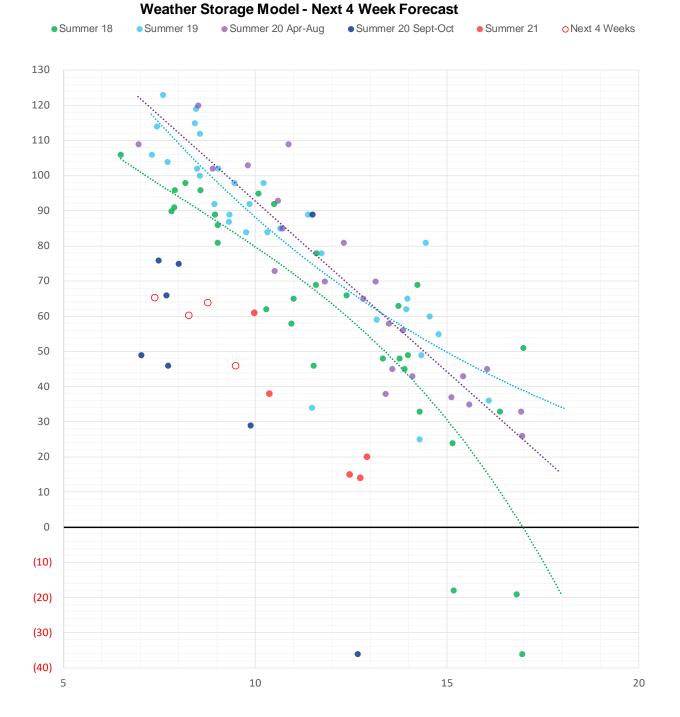
		Cash	Prompt	Cash to
	Units	Settled	Settle	Prompt
AGT Citygate	\$/MMBtu	3.25	2.23	-1.02
TETCO M3	\$/MMBtu	2.32	2.14	-0.18
FGT Zone 3	\$/MMBtu	2.38	2.93	0.55
Zone 6 NY	\$/MMBtu	2.38	2.02	-0.36
Chicago Citygate	\$/MMBtu	2.76	2.82	0.06
Michcon	\$/MMBtu	2.75	2.76	0.01
Columbia TCO Pool	\$/MMBtu	2.52	2.41	-0.12
Ventura	\$/MMBtu	2.56	2.74	0.18
Rockies/Opal	\$/MMBtu	2.76	2.67	-0.09
El Paso Permian Basin	\$/MMBtu	2.56	2.72	0.16
Socal Citygate	\$/MMBtu	3.35	3.11	-0.24
Malin	\$/MMBtu	2.80	2.85	0.05
Houston Ship Channel	\$/MMBtu	2.94	2.96	0.02
Henry Hub Cash	\$/MMBtu	2.95	2.73	-0.22
AECO Cash	C\$/GJ	2.45	2.35	-0.10
Station2 Cash	C\$/GJ	2.17	2.75	0.58
Dawn Cash	C\$/GJ	2.74	2.77	0.03

Source: CME, Bloomberg

Π	NERGY

					VS	s. 4 Weeks		
	Units	Current Price	vs.	Last Week		Ago	vs	. Last Year
NatGas Jul21/Oct21	\$/MMBtu	0.007		-0.005		-0.036		0.009
NatGas Oct21/Nov21	\$/MMBtu	0.059	▼	-0.003	▼	-0.031		0.020
NatGas Oct21/Jan22	\$/MMBtu	0.265		-0.001		-0.070	▼	-0.009
NatGas Apr22/Oct22	\$/MMBtu	0.020		-0.002		-0.020	▼	-0.030
WTI Crude	\$/Bbl	65.21		2.270		5.880		40.650
Brent Crude	\$/Bbl	68.38		1.960		5.640		37.410
Fuel Oil, NY Harbour 1%	\$/Bbl	97.18		0.000		0.000		0.000
Heating Oil	cents/Gallon	198.08		7.510		18.670		108.480
Propane, Mt. Bel	cents/Gallon	0.80		-0.010		-0.120		0.436
Ethane, Mt. Bel	cents/Gallon	0.25		0.018		0.033		0.036
Coal, PRB	\$/MTon	12.30		0.000		0.000		0.000
Coal, PRB	\$/MMBtu	0.70						
Coal, ILB	\$/MTon	31.05		0.000		0.000		0.000
Coal, ILB	\$/MMBtu	1.32						





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12