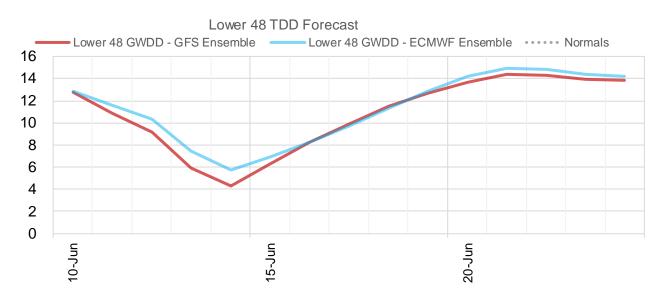
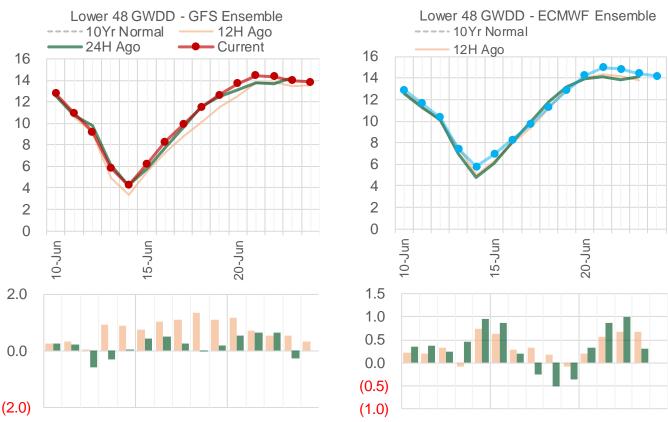
ion.	NERGY	Marke	et Repo	rt		10 June 20	20		
	Curre	nt ∆ from `	rD Δ from 7 Avg	Page M		n Madal Oválaska			
Nat Gas Prompt	\$1	.73 🔻 \$ (0.0	04) 🔻 \$ (0.0	D7) Lower 4	8 Compone	<u>er Model Outlooks</u> ent Models els Storage Projectio	on		
Current Δ from YD Δ from 7D Weather Model Storage Projection WTI Δ from YD Avg Supply – Demand Trends									
Prompt \$ 38.00 ▼ \$ (0.94) ▼ \$ (0.6) <u>Nat Gas Futures Open Interest</u> Price Summary									
Drant	Curre	nt ∆ from `	rD Δ from 7 Avg	7D					
Brent Prompt	\$ 40	.40 🔻 \$ (0.7	78) 🔻 \$ (0	.8)					
00z GWDD Change Cooler Change Warmer Change									
ECMV		nble 00z	1-5 Day	6-10 Day	11-15 Da				
		2 Hr Chg	1.4	1.3	2.1	4.9			
		4 Hr Chg	2.4	-0.1	2.5	4.8			
GF		nble 00z	1-5 Day	6-10 Day	11-15 Da				
		2 Hr Chg	2.5	5.4	3.3	11.1			
	.2	4 Hr Chg	-0.4	1.4	1.6	2.6			
	Current	Δ from YD	∆ from 7D Avg		Current	Δ from YD Δ from Avg			
US Dry Production	83.8	▼ -0.42	▼ -0.45	US Power Burns	36.5	▲ 0.48 ▲ 2.6	38		
	Current	Δ from YD	∆ from 7D Avg		Current	Δ from YD Δ from Avg			
US ResComm	8.0	▼ -0.46	▼ -0.06	Canadian Imports	3.7	▼ -0.12 ▼ -0.3	30		
	Current	Δ from YD	∆ from 7D Avg		Current	Δ from YD Δ from Avg			
Net LNG Exports	3.9	▲ 0.41	▼ -0.21	Mexican Exports	5.9	▲ 0.07 ▲ 0.3	35		



Short-term Weather Model Outlooks (00z)





Source: WSI, Bloomberg



Market Report

Daily Balances

	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	DoD	vs.7D
Lower 48 Dry Production	84.4	84.5	84.2	83.8	84.4	84.2	83.8	▼ -0.4	▼ -0.4
Canadian Imports	4.7	4.5	3.5	3.4	3.4	3.8	3.7	▼ -0.1	▼ -0.2
L48 Power	35.9	34.8	31.4	30.0	32.7	36.0	36.5	a 0.5	3 .0
L48 Residential & Commercial	7.9	7.7	7.8	8.3	8.4	8.5	8.0	▼ -0.5	▼ -0.1
L48 Industrial	18.2	18.1	18.1	18.1	18.2	18.4	18.5	A 0.1	a 0.3
L48 Lease and Plant Fuel	4.8	4.8	4.7	4.7	4.8	4.7	4.7	▼ 0.0	▼ 0.0
L48 Pipeline Distribution	2.1	2.0	1.9	1.8	2.0	2.1	2.1	▲ 0.0	a 0.1
L48 Regional Gas Consumption	68.9	67.4	63.9	62.9	66.0	69.8	69.9	0.0	3.4
Net LNG Exports	5.2	4.4	3.9	3.8	3.6	3.5	3.9	a 0.4	▼ -0.1
Total Mexican Exports	5.7	5.8	5.4	5.2	5.5	5.8	5.9	A 0.1	A 0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity	9.2	11.4	14.5	15.3	12.8	8.8	7.8		

Lower 48 Component Models

Daily Model Error

EIA Storage Week Balances

	1-May	8-May	15-May	22-May	29-May	5-Jun	WoW	vs. 4W
Lower 48 Dry Production	89.9	87.0	86.5	83.9	83.9	84.5	0.6	▼ -0.8
Canadian Imports	3.4	3.6	4.0	4.1	4.1	4.2	0.1	0.3
L48 Power	24.8	24.6	25.0	26.7	30.1	32.1	2 .0	▲ 5.5
L48 Residential & Commercial	16.8	14.5	19.3	10.8	8.2	8.5	a 0.3	▼ -4.7
L48 Industrial	18.3	18.7	17.3	18.8	19.3	18.5	▼ -0.7	a 0.0
L48 Lease and Plant Fuel	5.1	4.9	4.8	4.7	4.7	4.7	A 0.1	▼ 0.0
L48 Pipeline Distribution	2.0	1.9	2.2	1.9	1.9	2.0	A 0.1	a 0.0
L48 Regional Gas Consumption	67.0	64.6	68.7	62.9	64.1	65.8	1.8	A 0.8
Net LNG Exports	7.5	7.7	6.9	6.3	6.1	5.1	▼ -1.0	▼ -1.7
Total Mexican Exports	4.8	4.7	4.7	5.2	5.0	5.3	0.4	0.4
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	14.0 15.6 -1.6	13.5 14.7 -1.2	10.2 11.6 -1.4	13.7 15.6 -1.8	12.9 14.6 -1.6	12.5	-0.4	

Monthly Balances

	2Yr Ago	LY					MTD		
	Jun-18	Jun-19	Feb-20	Mar-20	Apr-20	May-20	Jun-20	МоМ	vs. LY
Lower 48 Dry Production	81.6	89.6	91.8	92.2	91.2	85.3	84.2	▼ -1.1	▼ -5.4
Canadian Imports	5.6	4.7	5.2	4.1	3.9	3.9	3.9	▲ 0.0	▼ -0.8
L48 Power	31.8	33.0	30.0	28.3	25.7	26.9	33.7	6.8	A 0.7
L48 Residential & Commercial	8.6	9.0	39.9	27.7	21.6	12.8	8.2	▼ -4.5	▼ -0.7
L48 Industrial	21.3	21.4	24.3	21.6	18.9	18.6	18.3	▼ -0.3	▼ -3.1
L48 Lease and Plant Fuel	4.5	5.0	5.2	5.2	5.2	4.8	4.7	▼ 0.0	▼ -0.3
L48 Pipeline Distribution	1.9	2.0	3.0	2.5	2.3	2.0	2.0	A 0.1	▼ 0.0
L48 Regional Gas Consumption	68.2	70.4	102.3	85.4	73.6	64.9	67.0	2.1	▼ -3.4
Net LNG Exports	3.2	5.5	8.5	8.5	8.2	6.7	4.0	▼ -2.7	▼ -1.5
Total Mexican Exports	4.5	5.3	5.3	5.6	4.9	4.9	5.6	0.7	0.3
Implied Daily Storage Activity EIA Reported Daily Storage Activity Daily Model Error	11.3	13.1	-19.0	-3.1	8.4	12.7	11.6		

Source: Bloomberg, analytix.ai

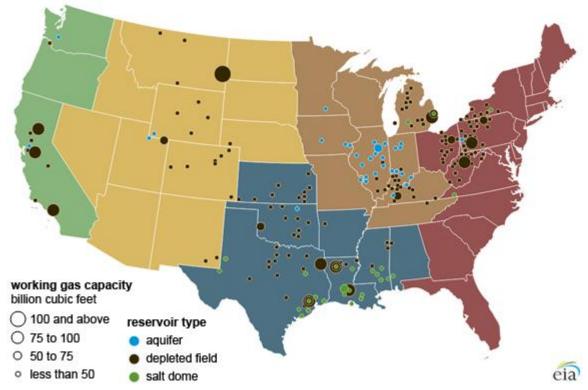


Regional S/D Models Storage Projection

Week Ending	5-Jun			
			Daily	
			Average	Weekly
		Daily	Storage	Adjusted
	Daily Raw	Adjustment	Activity	Storage
	Storage	Factor	(Adjusted) *	Activity
L48	12.2	1.9	14.1	97
East	1.8	2.2	4.0	28
Midwest	4.0	0.5	4.5	30
Mountain	3.6	-2.1	1.5	10
South Central	1.5	1.7	3.2	22
Pacific	1.4	-0.5	0.9	7

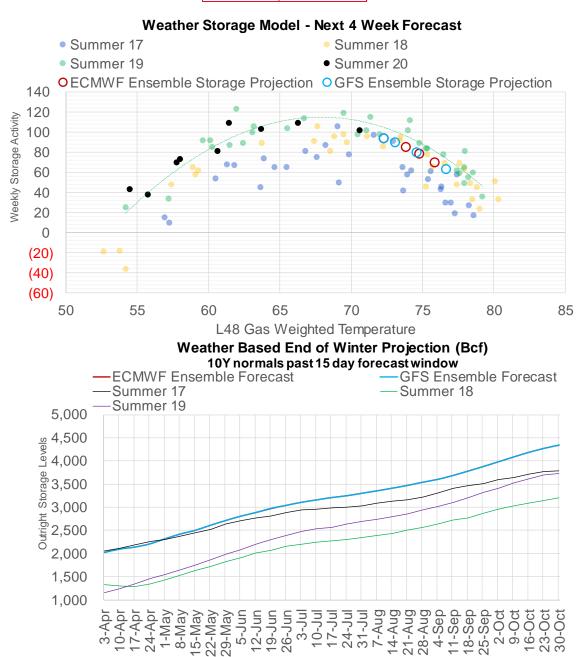
*Adjustment Factor is calcuated based on historical regional deltas

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

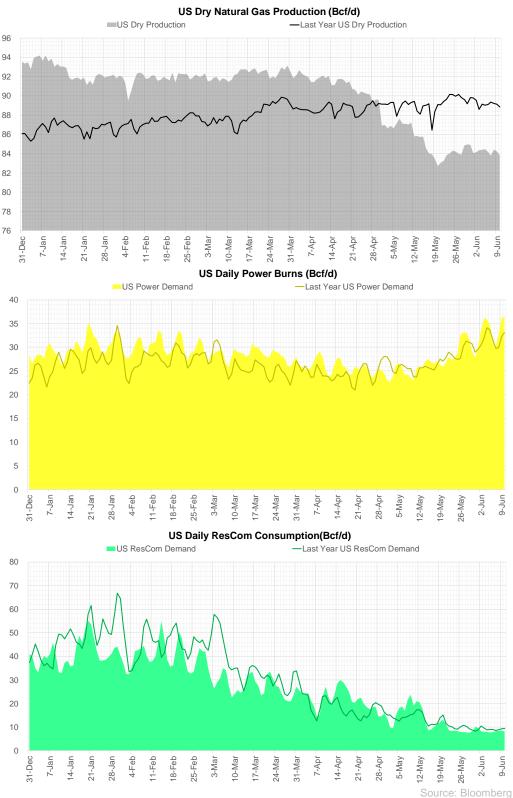


Weather Model Storage Projection

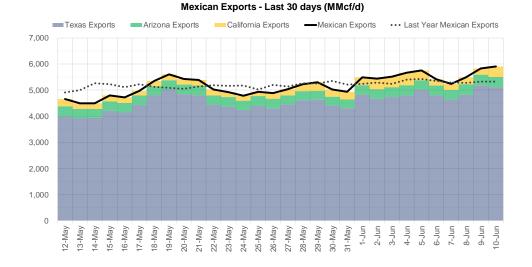
	Week Storage
Week Ending	Projection
5-Jun	94
12-Jun	80
19-Jun	88
26-Jun	67



Supply – Demand Trends



ENERGY



Net LNG Exports - Last 30 days (MMcf/d) Cameron Exports Cove Point Exports Elba Exports Sabine Pass Exports Everett Exports Freeport Exports Golden Pass Exports Lake Charles Exports Neptune Exports Northeast Exports Chorpus Christie Import LNG Exports 7,000 6,000 5,000 4.000 3.000 2.000 1,000 0 (1,000) 1-Jun 3-Jun 22-May 23-May 24-May 25-May 26-May 27-May 28-May 30-May 31-May 2-Jun 13-May 14-May 15-May 16-May 17-May 18-May 19-May 20-May 21-May 29-May 4-Jun 5-Jun e-Jun 7-Jun 8-Jun 9-Jun unC-0 12-May

Source: Bloomberg



Nat Gas Options Volume and Open Interest

CME, ICE and Nasdaq Combined

CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE VOL	CONTRACT MONTH	CONTRACT YEAR	PUT/CALL	STRIKE	CUMULATIVE OI
7	2020	С	1.95	8404	10	2020	Р	1.50	37373
10	2020	Р	1.75	7124	10	2020	С	3.00	35695
10	2020	Р	1.50	7045	3	2021	Р	2.00	32737
7	2020	Р	1.75	6898	10	2020	С	2.75	32519
7	2020	С	2.00	5127	10	2020	Р	1.60	32295
8	2020	С	2.50	3207	7	2020	Р	1.50	30475
7	2020	Р	1.60	3016	7	2020	Р	1.75	30221
11	2020	С	4.00	2901	10	2020	С	2.50	27644
9	2020	Р	1.50	2318	10	2020	Р	2.00	27523
8	2020	Р	1.65	1504	7	2020	С	2.50	25797
11	2020	Р	1.50	1407	9	2020	С	2.50	25489
7	2020	С	1.90	1393	10	2020	Р	1.25	24611
11	2020	Р	1.80	1300	9	2020	Р	1.50	22759
12	2020	С	4.00	1291	8	2020	Р	1.50	21960
8	2020	С	2.25	1150	10	2020	Р	1.75	21486
7	2020	Р	1.65	1102	8	2020	С	2.50	21204
12	2020	С	3.50	1100	7	2020	С	2.25	20099
10	2020	Р	1.80	1000	7	2020	Р	2.00	19906
10	2020	Р	1.90	1000	7	2020	С	2.00	19889
3	2021	С	7.00	1000	9	2020	Р	1.00	19731
9	2020	P	1.85	951	7	2020	С	3.00	19520
1	2021	С	3.05	950	9	2020	С	2.75	19444
7	2020	C	1.80	914	9	2020	Р	1.75	18223
8	2020	P	1.50	880	10	2020	С	2.25	18201
10	2020	C	2.25	852	10	2020	Р	2.10	18144
7	2020	P	1.50	800	7	2020	С	2.30	17894
9	2020	P	1.60	778	11	2020	С	4.00	17864
1	2021	C	3.50	726	1	2021	С	3.50	17676
1	2021	C	3.00	700	8	2020	Р	1.00	17383
9	2020	P	1.75	695	1	2021	С	3.00	17118
7	2020	P	1.80	679	10	2020	С	3.25	16509
7	2020	C	1.85	670	7	2020	С	2.75	16365
1	2021	c	3.25	650	7	2020	P	1.60	16134
8	2020	P	1.75	603	10	2020	Р	1.00	16100
10	2020	P	1.60	542	9	2020	Р	1.20	15342
7	2020	P	1.70	519	8	2020	Р	1.20	15287
5	2020	C	3.00	500	3	2021	С	3.00	15146
9	2020	c	2.25	493	9	2020	С	2.25	15117
9	2020	P	1.25	459	9	2020	С	3.00	14949
9 7	2020	C	2.05	455	4	2021	С	3.00	14704
8	2020	P	1.55	455	10	2020	Р	1.20	14644
11	2020	C	3.25	450	8	2020	С	3.00	14634
7	2020	c	2.10	430	7	2020	P	1.25	14618
8	2020	P	1.60		7	2020	С	2.35	14044
		P		408	8	2020	С	2.75	13856
8	2020		1.70	400	9	2020	P	2.00	13652
11	2020	P P	1.85	400	8	2020	С	2.25	13644
11	2020		2.15	400	8	2020	P	1.75	13295
8	2020	С	2.05	363	7	2020	C	1.95	13260
10	2020	С	2.40	351	7	2020	Р	1	13088

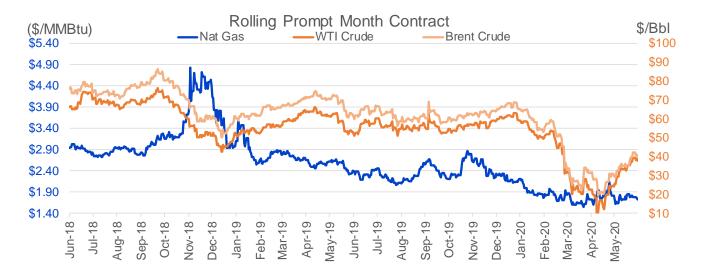
Source: CME, Nasdaq, ICE

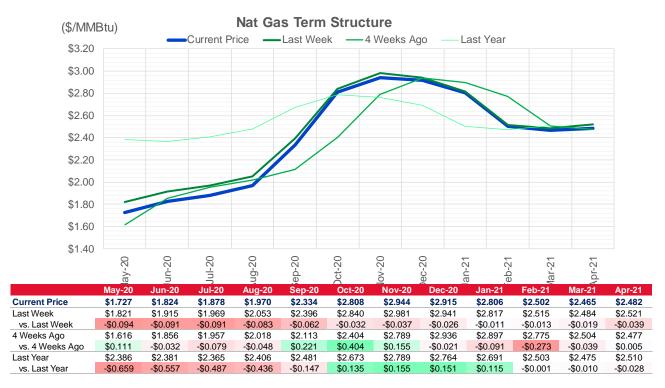


Nat Gas Futures Open Interest CME, ICE and Nasdag Combined

CME Henry	Hub Futures (1	0,000 MMBti	u)	ICE Henry I	Hub Futures Cor	ntract Equiva	alent (10,000 MN	INASDAQ H	enry Hub Future	s (10,000	MMBtu)
	Current	Prior	Daily Change		Current	Prior	Daily Change		Current	Prior	Daily Change
JUL 20	241559	284913	-43354	JUL 20	75167	78374	-3206.75	JUL 20			
AUG 20	134236	119997	14239	AUG 20	81173	81618	-444.75	AUG 20			
SEP 20	168076	160777	7299	SEP 20	67919	68930	-1011.75	SEP 20			
OCT 20	118208	120603	-2395	OCT 20	82331	82009	321.75	OCT 20			
NOV 20	51817	51872	-55	NOV 20	61187	61542	-355	NOV 20			
DEC 20	60133	59855	278	DEC 20	58324	58459	-135.25	DEC 20			
JAN 21	105751	105883	-132	JAN 21	72593	72840	-247.5	JAN 21			
FEB 21	37829	36984	845	FEB 21	45625	45593	32	FEB 21			
MAR 21	73416	70107	3309	MAR 21	62196	61798	397.75	MAR 21			
APR 21	70603	70359	244	APR 21	49540	49570	-30	APR 21			
MAY 21	25457	25651	-194	MAY 21	46494	45404	1089.25	MAY 21			
JUN 21	17785	17124	661	JUN 21	43091	43101	-10.25	JUN 21			
JUL 21	13850	13582	268	JUL 21	44073	43842	231	JUL 21			
AUG 21	10888	10756	132	AUG 21	44759	44533	226.25	AUG 21			
SEP 21	12792	12436	356	SEP 21	42258	42287	-29.25	SEP 21			
OCT 21	29270	29088	182	OCT 21	54125	54213	-87.25	OCT 21			
NOV 21	17765	17658	107	NOV 21	36482	36402	80.75	NOV 21			
DEC 21	15009	14775	234	DEC 21	37136	36792	344.25	DEC 21			
JAN 22	11494	11365	129	JAN 22	29210	28855	354.5	JAN 22			
FEB 22	8516	8518	-2	FEB 22	25759	25556	202.25	FEB 22			
MAR 22	14823	14797	26	MAR 22	27705	27410	294.5	MAR 22			
APR 22	10684	10684	0	APR 22	24195	24158	36.5	APR 22			
MAY 22	4670	4672	-2	MAY 22	21864	21808	56	MAY 22			
JUN 22	2061	2060	1	JUN 22	21033	20986	47	JUN 22			
JUL 22	1788	1788	0	JUL 22	21577	21535	41.5	JUL 22			
AUG 22	1243	1243	0	AUG 22	21335	21291	44	AUG 22			
SEP 22	1311	1311	0	SEP 22	21105	21058	47	SEP 22			
OCT 22	1882	1882	0	OCT 22	23869	23822	46.25	OCT 22			
NOV 22	1344	1344	0	NOV 22	19158	18871	287	NOV 22			
DEC 22	1261	1261	0	DEC 22	19879	19900	-20.75	DEC 22			

Source: CME, Nasdaq, ICE





	Units	Cash Settled	Prompt Settle	Cash to Prompt
AGT Citygate	\$/MMBtu	1.80	1.56	-0.24
TETCO M3	\$/MMBtu	1.60	1.48	-0.12
FGT Zone 3	\$/MMBtu	1.56	1.81	0.25
Zone 6 NY	\$/MMBtu	1.56	1.49	-0.08
Chicago Citygate	\$/MMBtu	1.62	1.67	0.05
Michcon	\$/MMBtu	1.68	1.65	-0.03
Columbia TCO Pool	\$/MMBtu	1.48	1.52	0.04
Ventura	\$/MMBtu	1.56	1.64	0.08
Rockies/Opal	\$/MMBtu	1.67	1.53	-0.14
El Paso Permian Basin	\$/MMBtu	1.17	1.52	0.35
Socal Citygate	\$/MMBtu	2.15	1.98	-0.17
Malin	\$/MMBtu	1.50	1.63	0.13
Houston Ship Channel	\$/MMBtu	1.70	1.79	0.09
Henry Hub Cash	\$/MMBtu	1.68	1.63	-0.05
AECO Cash	C\$/GJ	1.44	1.41	-0.03
Station2 Cash	C\$/GJ	1.43	1.67	0.24
Dawn Cash	C\$/GJ	1.64	1.63	-0.01

Source: CME, Bloomberg



		vs. 4 Weeks						
	Units	Current Price	vs.	Last Week		Ago	vs	. Last Year
NatGas Jan/Apr	\$/MMBtu	-0.52		0.000		0.000	$\mathbf{\nabla}$	-0.229
NatGas Mar/Apr	\$/MMBtu	0.187		0.000		0.000	$\mathbf{\nabla}$	-0.008
NatGas Oct/Nov	\$/MMBtu	0.34		0.004		0.088		0.282
NatGas Oct/Jan	\$/MMBtu	0.93		0.004		0.201		0.599
WTICrude	\$/Bbl	38.19		2.750		14.050	$\mathbf{\nabla}$	-15.070
Brent Crude	\$/Bbl	40.80		2.480		11.170	$\mathbf{\nabla}$	-21.490
Fuel Oil, NY Harbour 1%	\$/Bbl	98.03		0.000		0.000		0.000
Heating Oil	cents/Gallon	112.13		9.230		25.260	$\mathbf{\nabla}$	-68.500
Propane, Mt. Bel	cents/Gallon	0.50		0.021		0.131		0.060
Ethane, Mt. Bel	cents/Gallon	0.23	$\mathbf{\nabla}$	-0.010		0.028		0.053
Coal, PRB	\$/MTon	12.30		0.000		0.000	$\mathbf{\nabla}$	-0.150
Coal, ILB	\$/MTon	31.05		0.000		0.000	\checkmark	-9.500