

MANAGING DROUGHT

IN THE SOUTHERN PLAINS

August 9, 2012

Regional Drought Monitor Update

Brian Fuchs, Climatologist

National Drought Mitigation Center
School of Natural Resources
University of Nebraska-Lincoln



SCIPP/NIDIS Drought Webinar Series, August 9, 2012

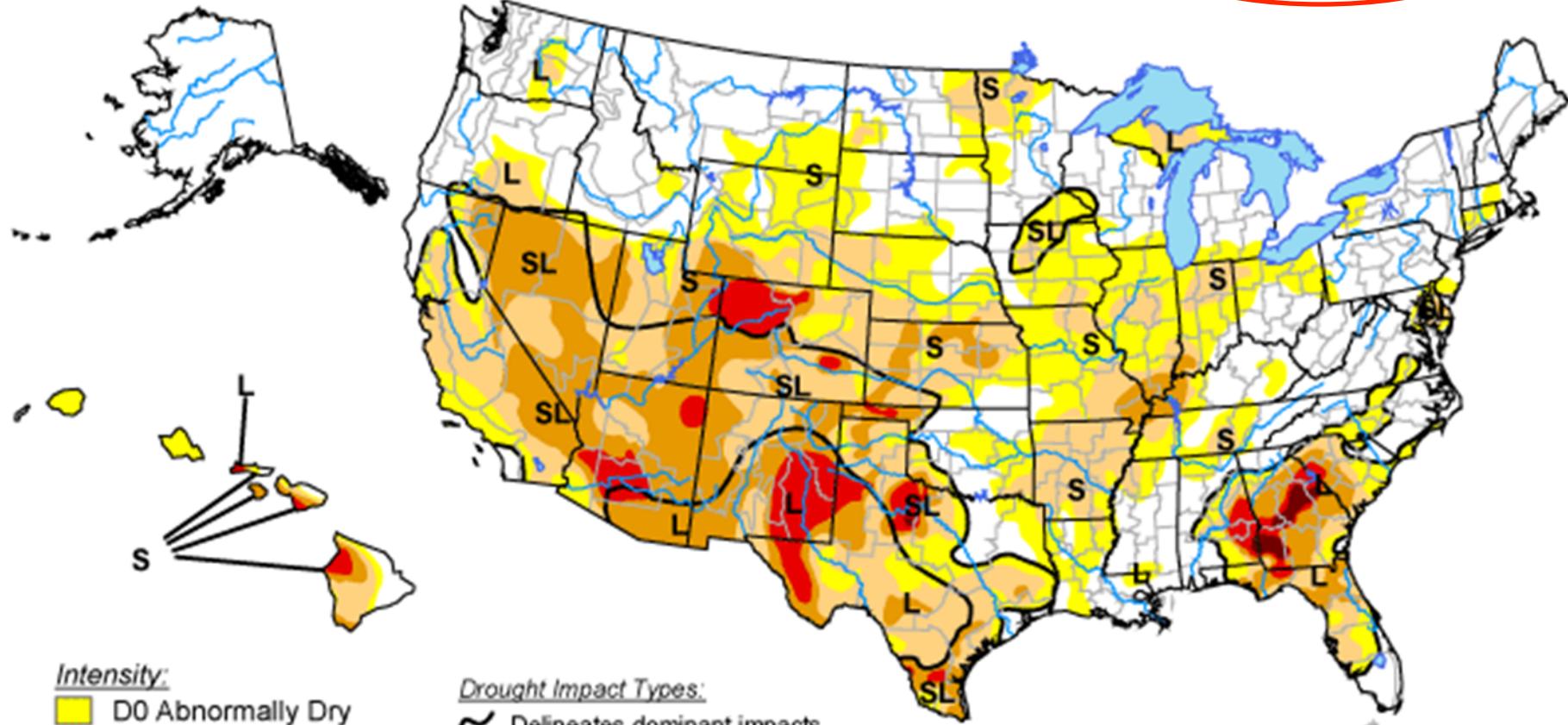


UNIVERSITY OF
Nebraska
Lincoln



U.S. Drought Monitor

June 12, 2012
Valid 7 a.m. EDT



Intensity:

- [Yellow square] D0 Abnormally Dry
- [Light Orange square] D1 Drought - Moderate
- [Medium Orange square] D2 Drought - Severe
- [Red square] D3 Drought - Extreme
- [Dark Red square] D4 Drought - Exceptional

Drought Impact Types:

- [Wavy line symbol] Delineates dominant impacts
- [S symbol] S = Short-Term, typically <6 months
(e.g. agriculture, grasslands)
- [L symbol] L = Long-Term, typically >6 months
(e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.

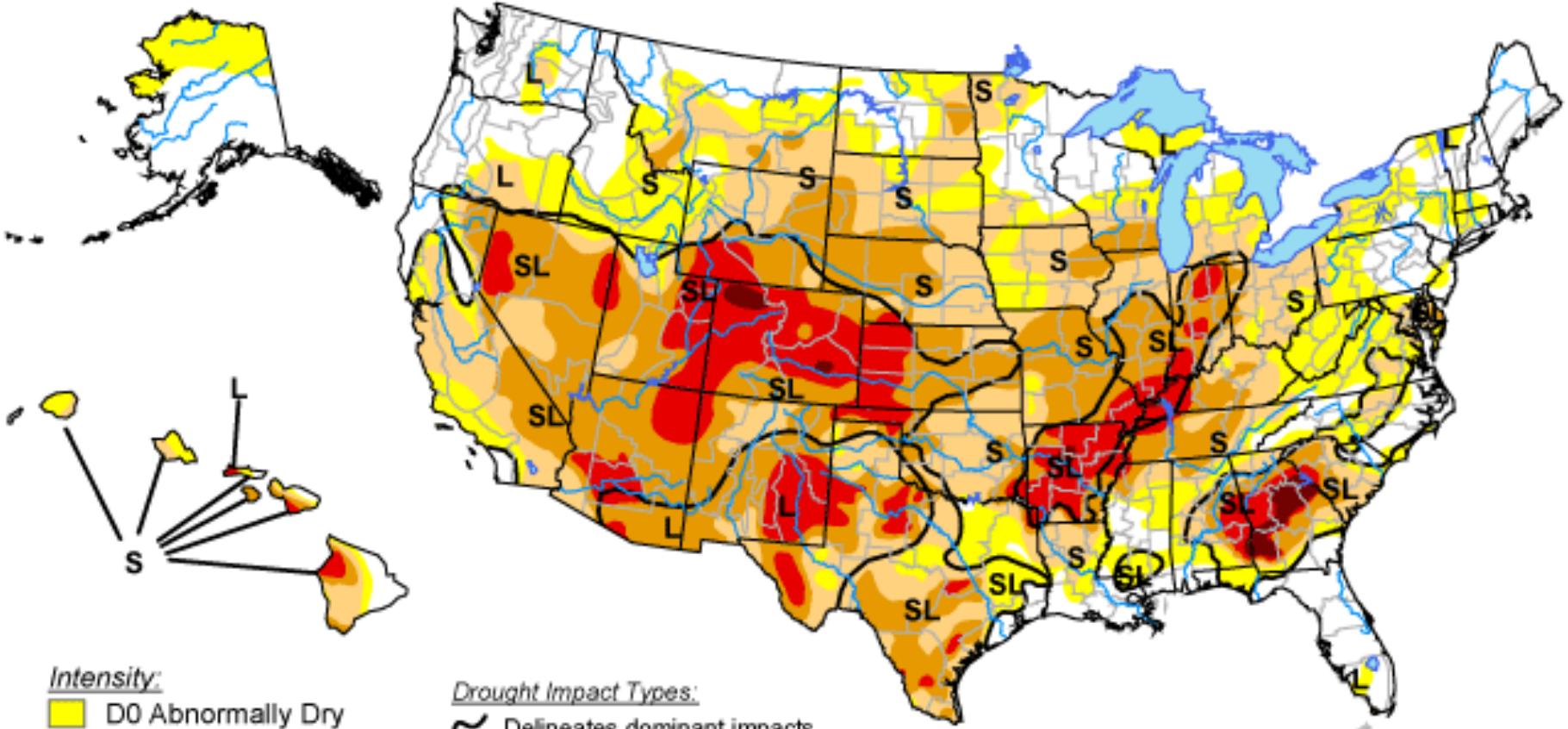
<http://droughtmonitor.unl.edu/>



Released Thursday, June 14, 2012
Author: David Miskus, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

July 10, 2012
Valid 7 a.m. EDT



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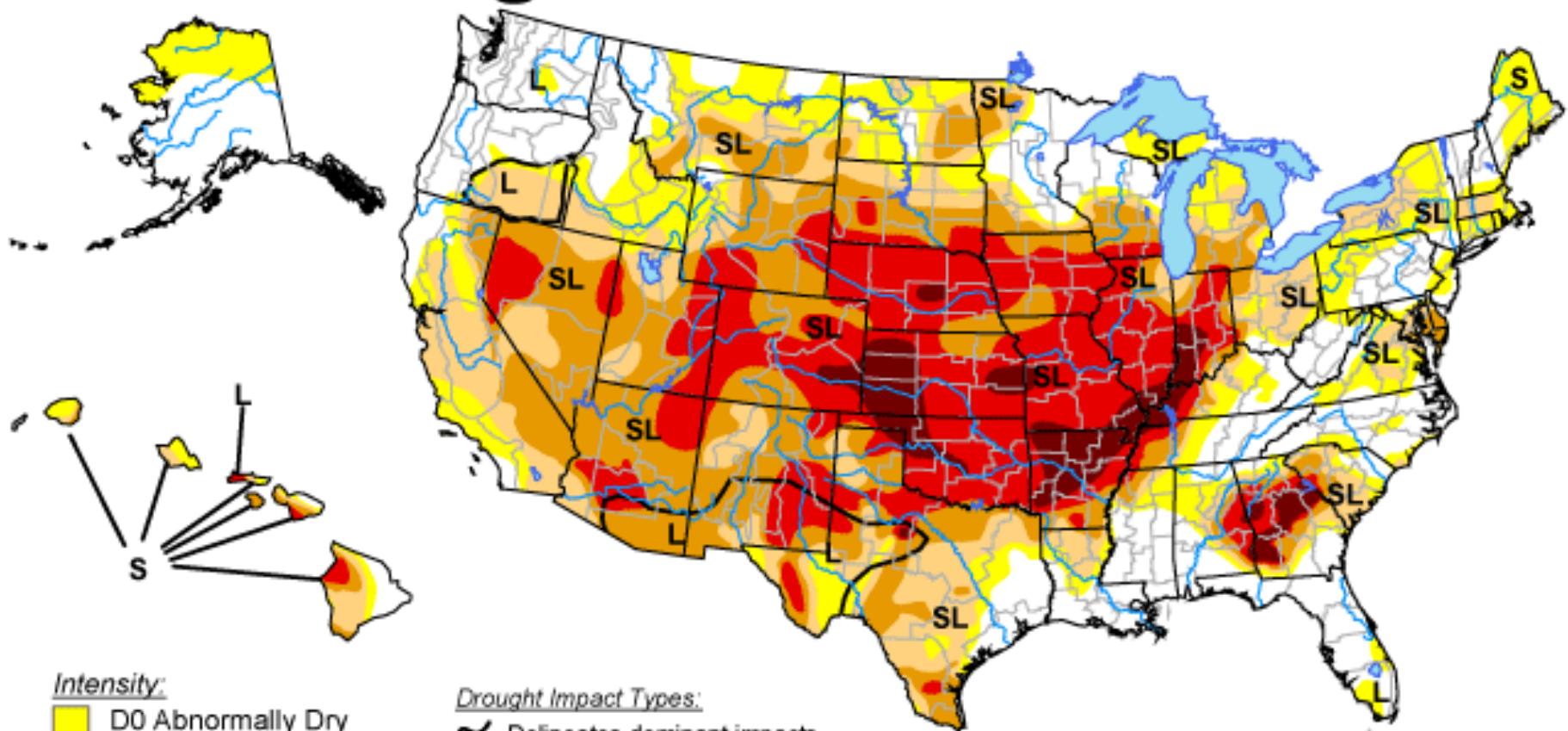
<http://droughtmonitor.unl.edu/>



Released Thursday, July 12, 2012
Author: Rich Tinker, NOAA/NWS/NCEP/CPC

U.S. Drought Monitor

August 7, 2012
Valid 7 a.m. EDT



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Released Thursday, August 9, 2012

Author: Mark Svoboda, National Drought Mitigation Center

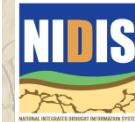
Drought Condition (Percent Area): United States

Conditions for the U.S., including Alaska, Hawaii and Puerto Rico

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	08/02/11	60.03	39.97	27.06	21.04	15.28	9.13
Start of Water Year	09/27/11	63.45	36.55	24.42	19.61	14.87	9.50
Start of Calendar Year	12/27/11	58.88	41.12	23.89	15.88	8.37	2.76
3 Months Ago	05/08/12	53.01	46.99	30.06	16.46	5.67	1.34
Last Week	07/31/12	28.78	71.22	52.65	38.12	18.62	2.52
Current	08/07/12	29.81	70.19	52.27	38.48	20.18	3.51

Conditions for the Contiguous U.S.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
One Year Ago	08/02/11	54.99	45.01	32.34	25.18	18.29	10.92
Start of Water Year	09/27/11	56.45	43.55	29.13	23.44	17.80	11.37
Start of Calendar Year	12/27/11	50.89	49.11	28.49	18.95	10.01	3.31
3 Months Ago	05/08/12	43.88	56.12	35.88	19.65	6.77	1.61
Last Week	07/31/12	20.62	79.38	62.91	45.57	22.27	3.01
Current	08/07/12	21.86	78.14	62.46	46.01	24.14	4.21



U.S. Drought Monitor

June 14, 2012

Valid 7 a.m. EST

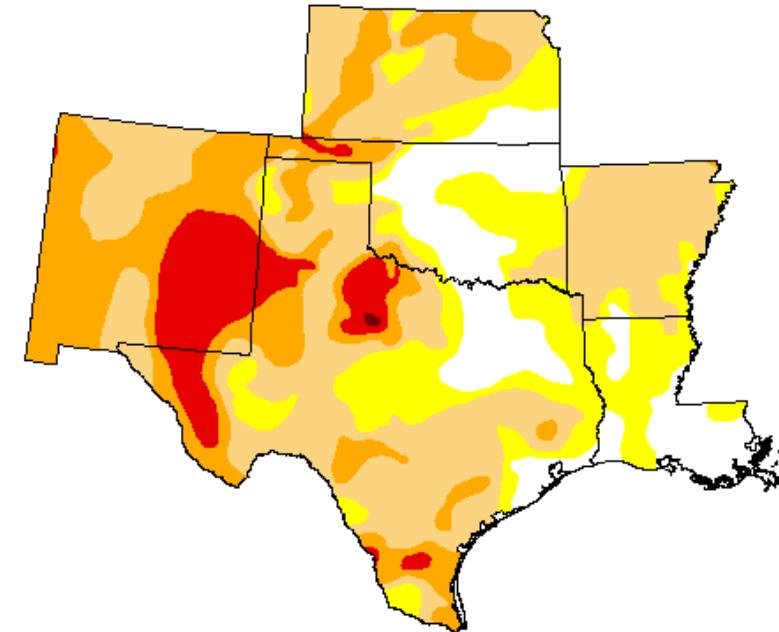
South Central United States

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	14.16	85.84	66.05	28.89	8.04	0.06
Last Week (6/5/2012)	7.85	92.15	63.89	26.69	8.66	0.16
3 Months Ago (3/13/2012)	23.71	76.28	64.42	44.53	24.21	10.63
1 Year Ago (6/14/2011)	13.30	86.70	80.18	72.81	60.31	38.71

Intensity:

- | | |
|---|--------------------------|
| ■ | D0 - Abnormally Dry |
| ■ | D1 - Drought Moderate |
| ■ | D2 - Drought Severe |
| ■ | D3 - Drought Extreme |
| ■ | D4 - Drought Exceptional |



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David Miskus, Climate Prediction Center, NCEP/NWS/NOAA

U.S. Drought Monitor

July 12, 2012

Valid 7 a.m. EST

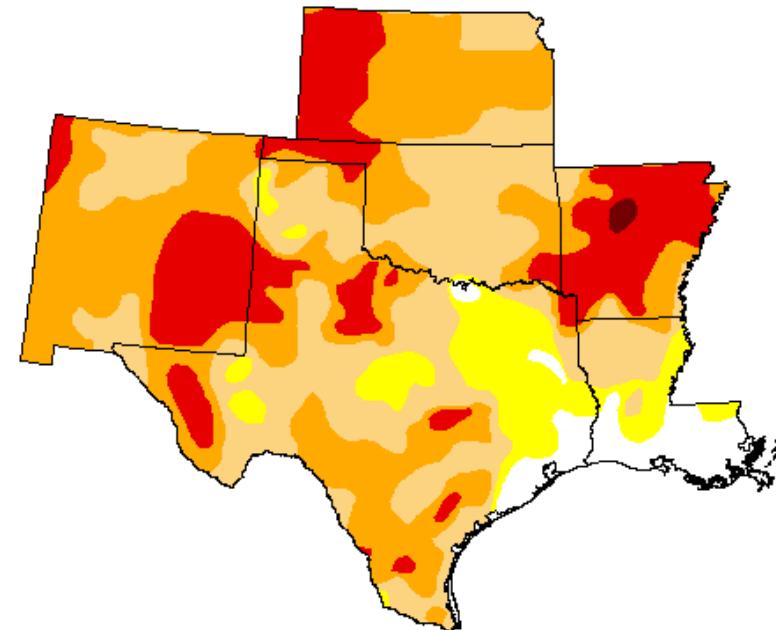
South Central United States

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	5.16	94.84	85.46	54.02	19.38	0.27
Last Week (7/3/2012)	3.59	96.41	80.87	51.37	16.04	0.00
3 Months Ago (4/10/2012)	39.05	60.95	45.65	33.92	18.04	7.29
1 Year Ago (7/5/2011)	3.23	96.77	85.54	76.05	65.94	47.44

Intensity:

- | | | | |
|---|-----------------------|--|--------------------------|
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| | D1 - Drought Moderate | | D4 - Drought Exceptional |
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Rich Tinker, Climate Prediction Center/NCEP/NWS/NOAA

U.S. Drought Monitor

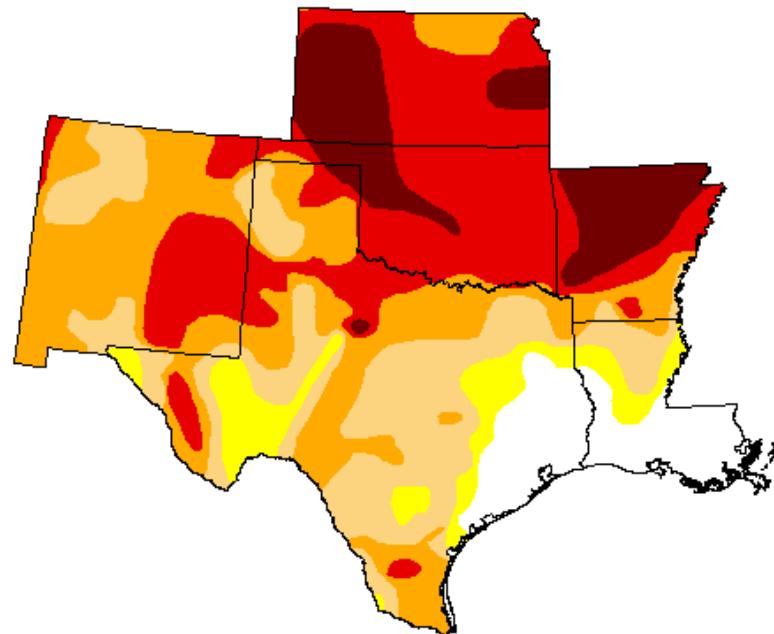
South Central United States

August 7, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0 - D4	D1 - D4	D2 - D4	D3 - D4	D4
Current	9.01	90.99	84.10	63.93	38.29	11.47
Last Week (7/31/2012)	9.77	90.23	81.87	61.02	34.99	6.83
3 Months Ago (5/8/2012)	39.71	60.29	48.49	34.42	15.33	3.73
1 Year Ago (8/2/2011)	40.05	96.44	94.32	87.60	70.59	49.78



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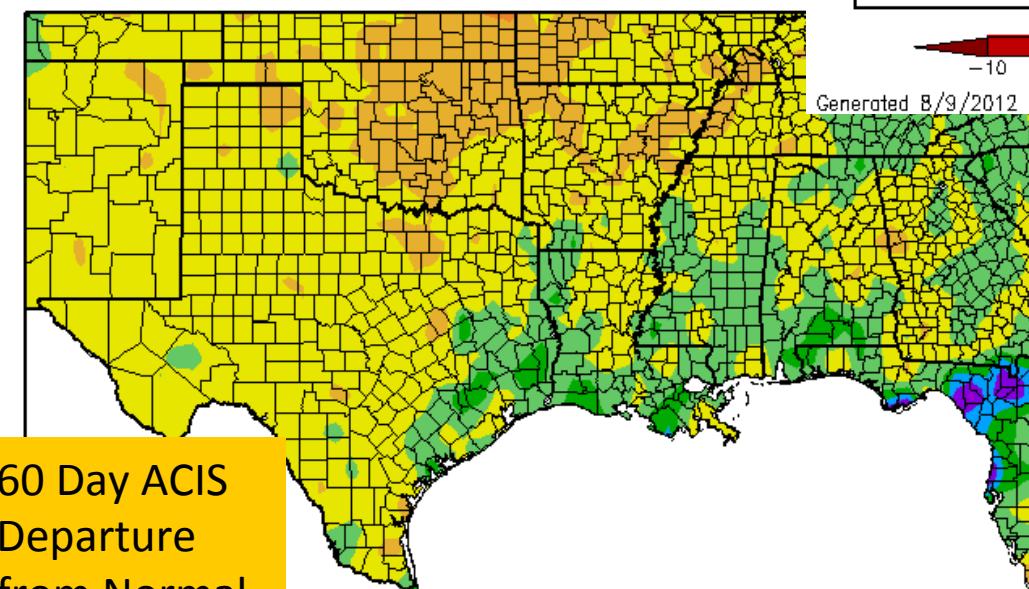


Released Thursday, August 9, 2012
Mark Svoboda, National Drought Mitigation Center

Departure from Normal Precipitation (in) 7/10/2012 – 8/8/2012

30 Day ACIS
Departure from
Normal

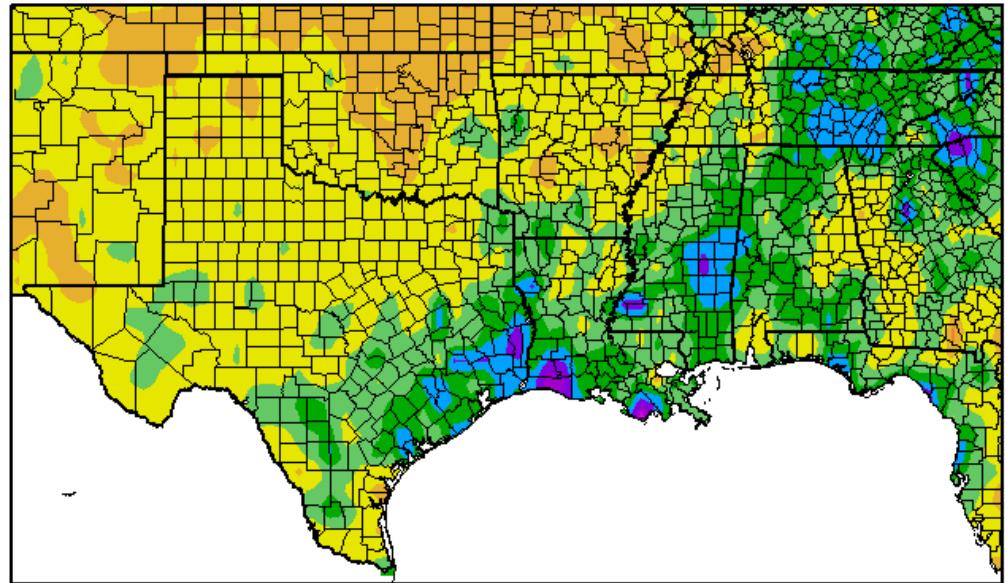
Departure from Normal Precipitation
6/10/2012 – 8/8/2012



60 Day ACIS
Departure
from Normal

Generated 8/9/2012 at HPRCC using provisional data.

Regional Climate Centers



Generated 8/3/2012 at HPRCC using provisional data.

Regional Climate Centers



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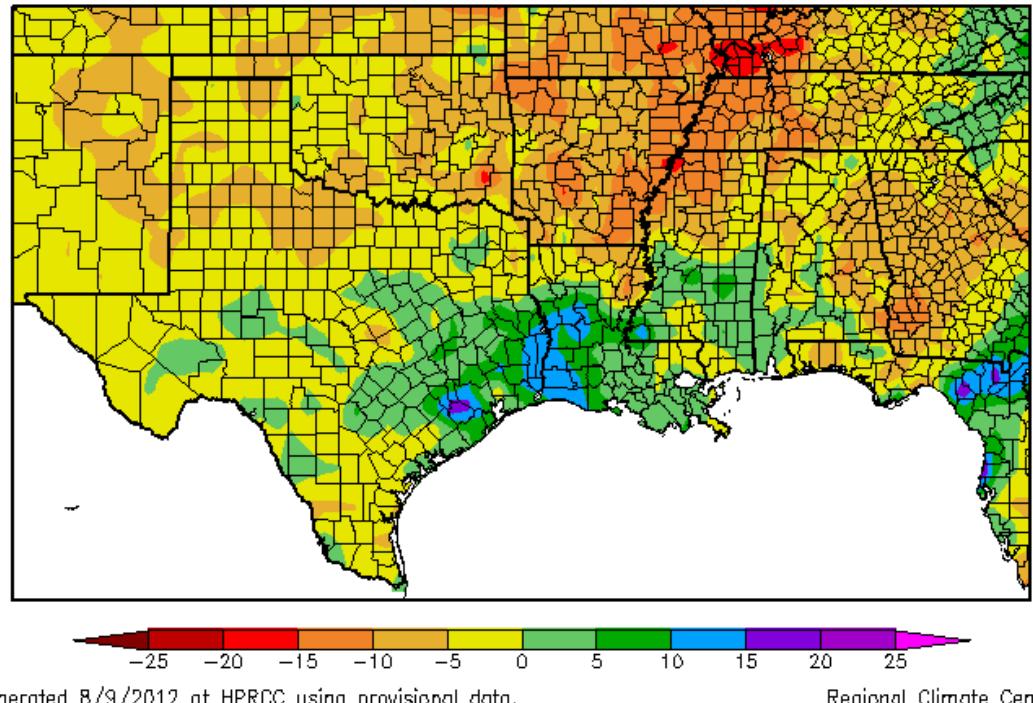
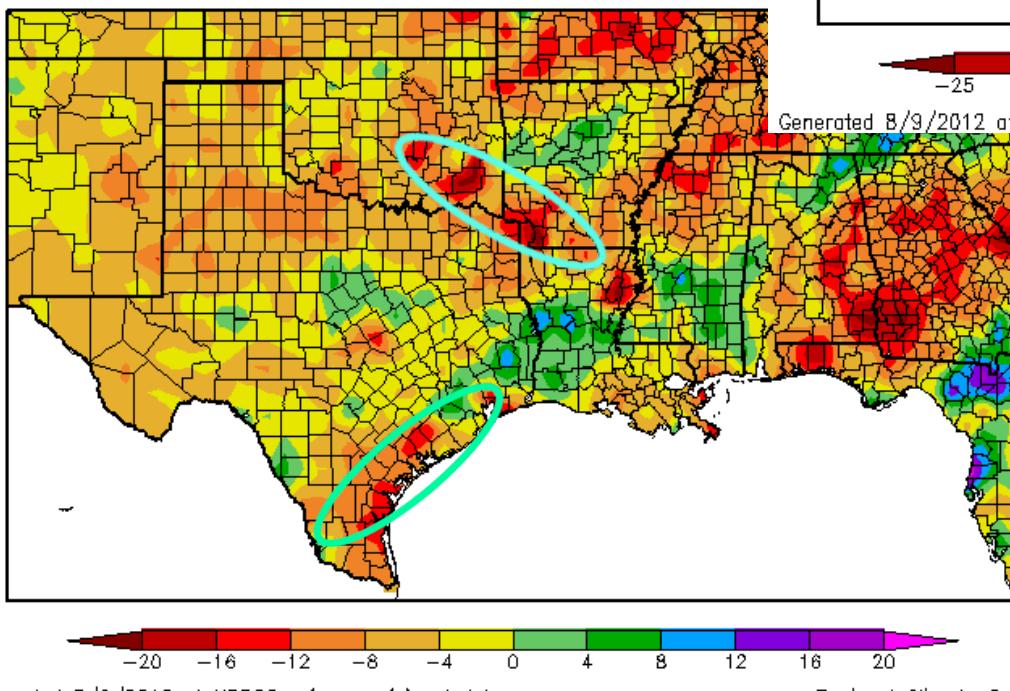
National Drought Mitigation Center

Departure from Normal Precipitation (in)

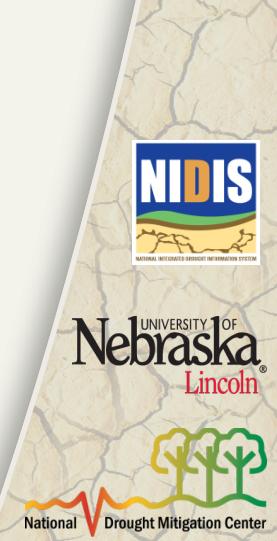
1/1/2012 – 8/8/2012

Year to Date
ACIS
Departure
from Normal

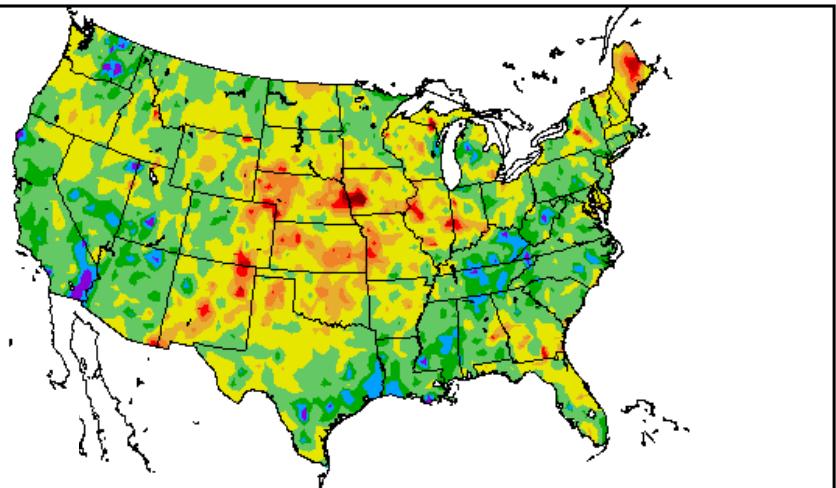
Departure from Normal Precipitation
8/9/2011 – 8/8/2012



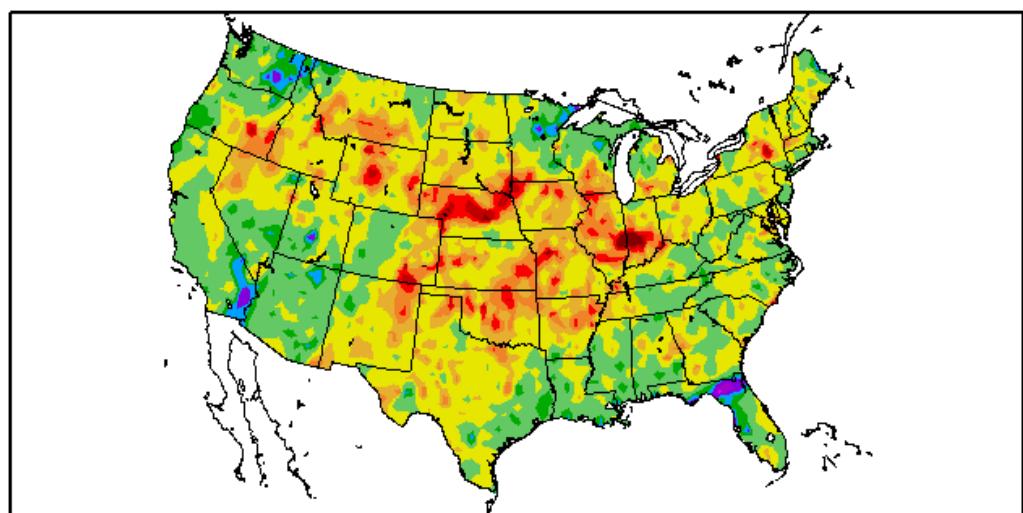
12 Month
ACIS
Departure
from
Normal



30 Day SPI
7/10/2012 – 8/8/2012



60 Day SPI
6/10/2012 – 8/8/2012



RCC using provisional data.

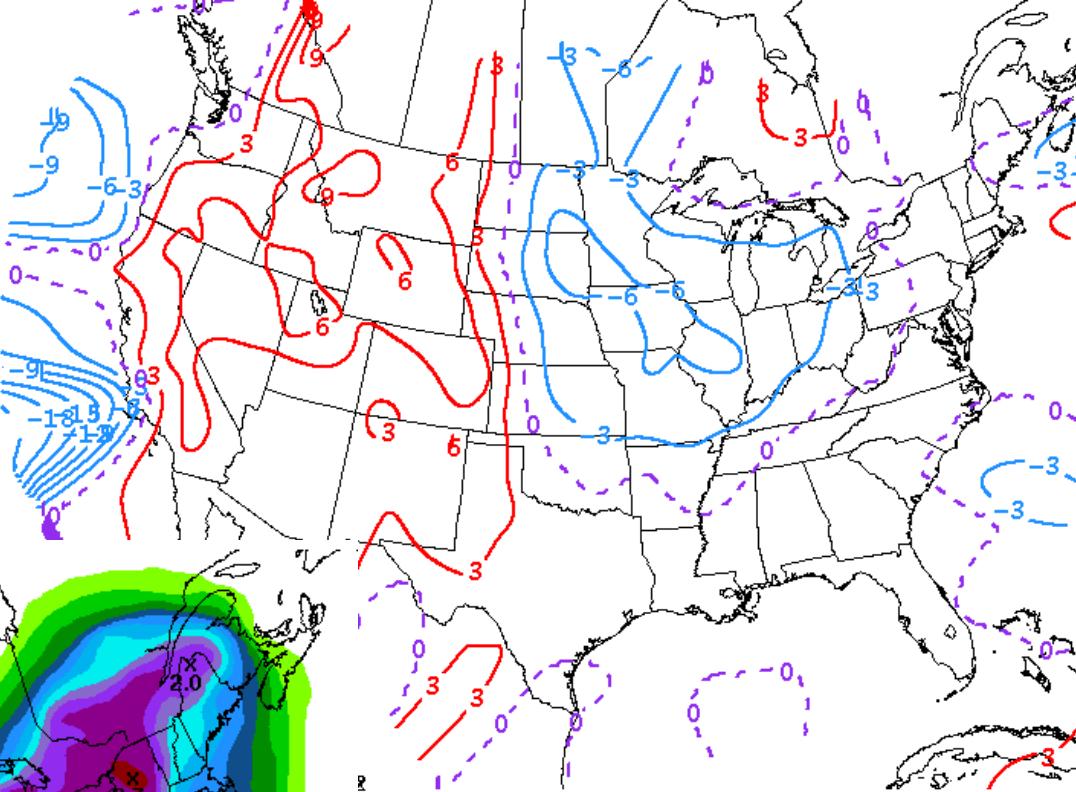
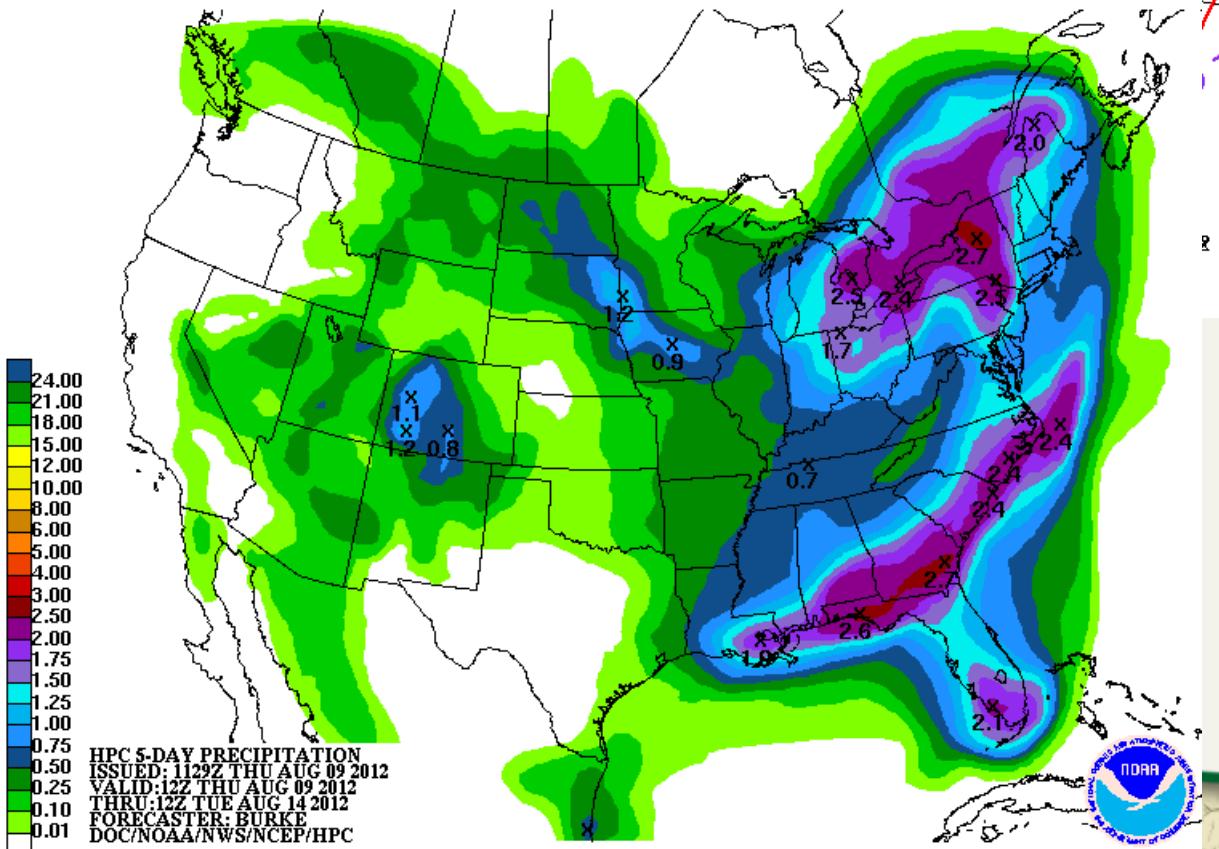
Regional Climate Centers



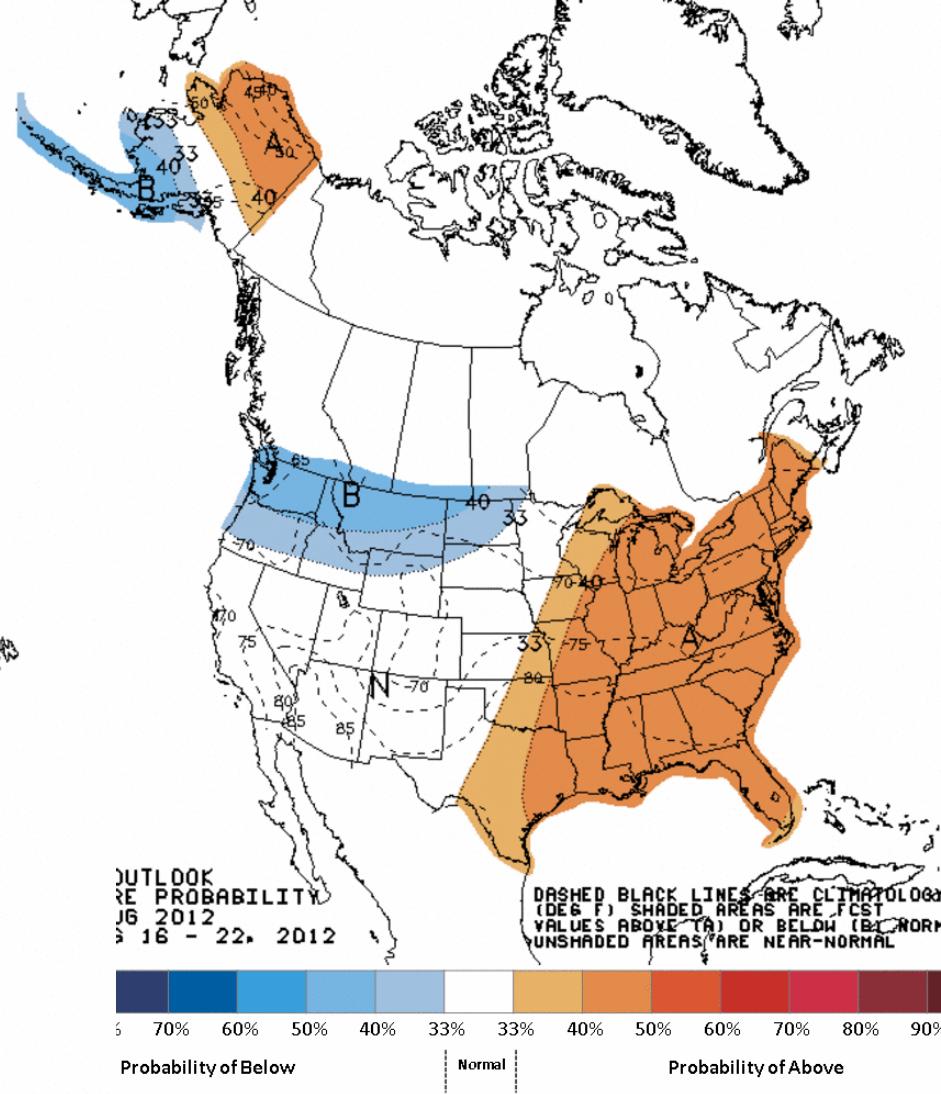
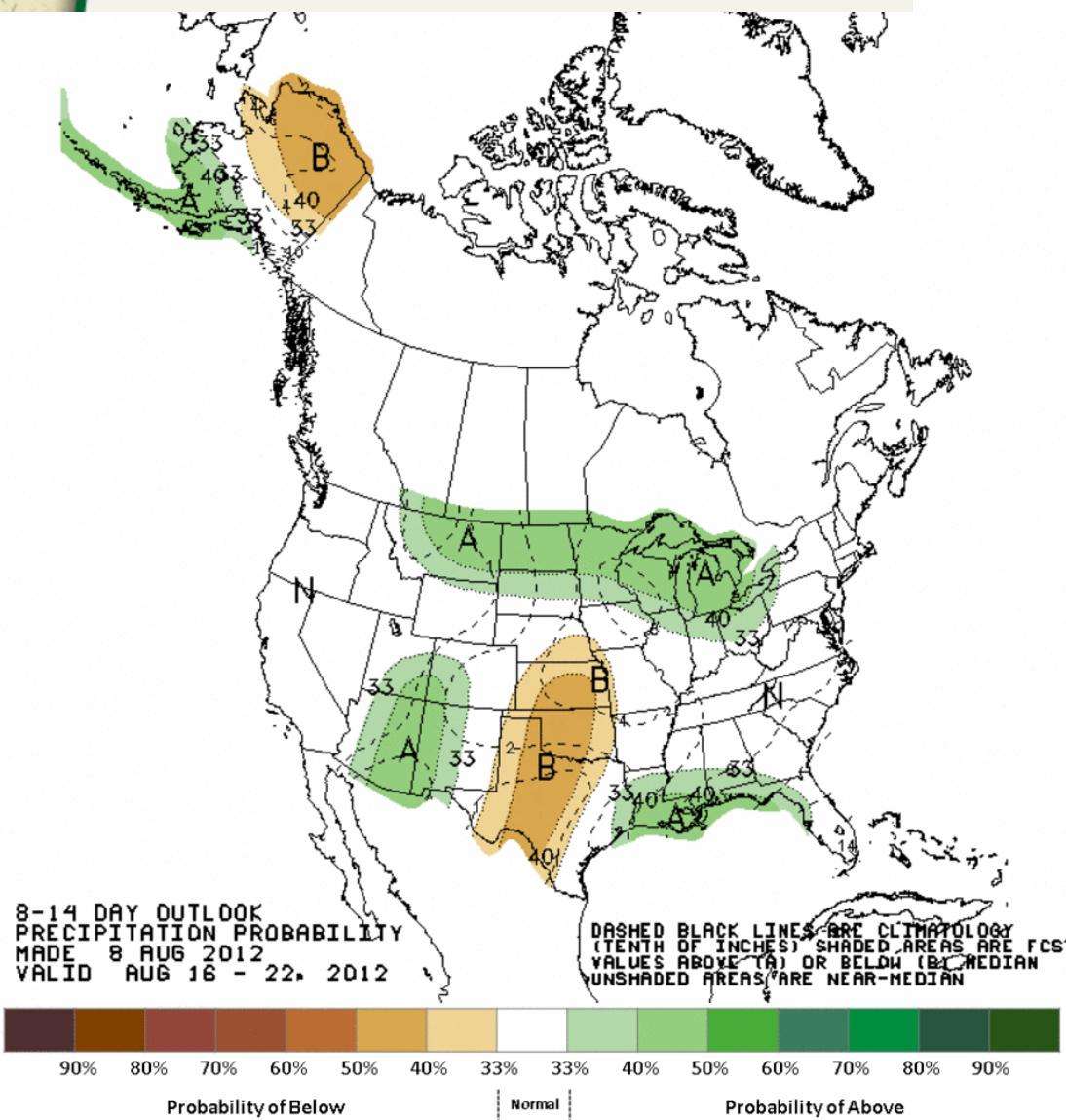
Generated 8/9/2012 at HPRCC using provisional data.
Regional Climate Centers

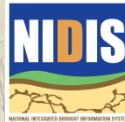
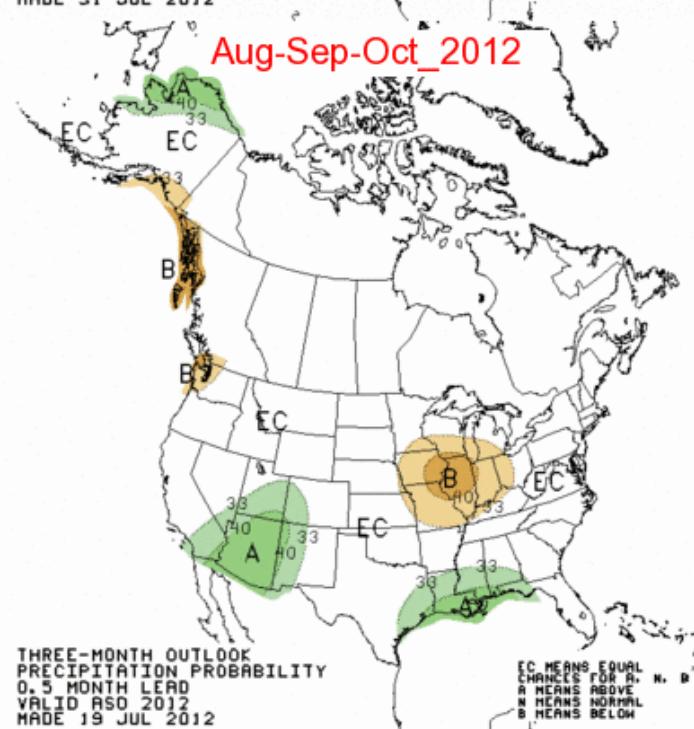
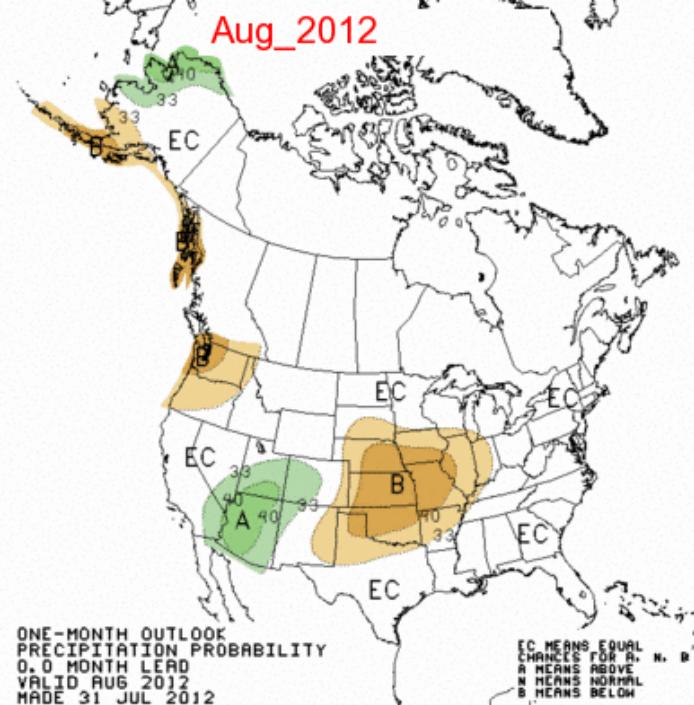
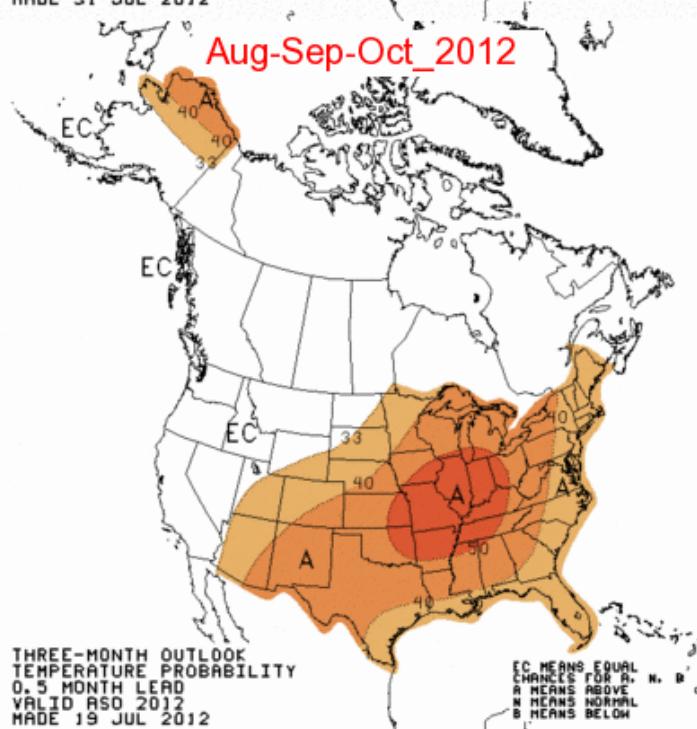
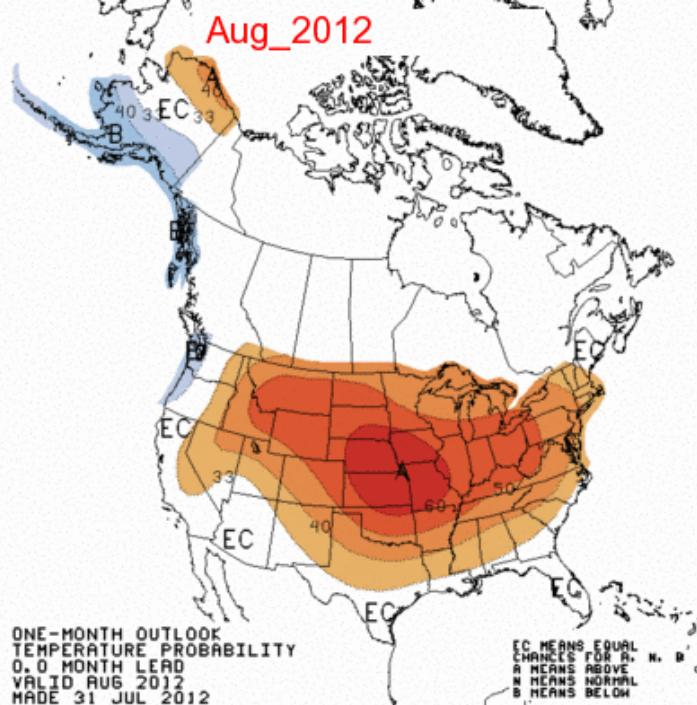


HPC 5-Day Outlook



CPC 8-14-Day Outlooks





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U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period



Valid for June 7 - August 31, 2012
Released June 7, 2012



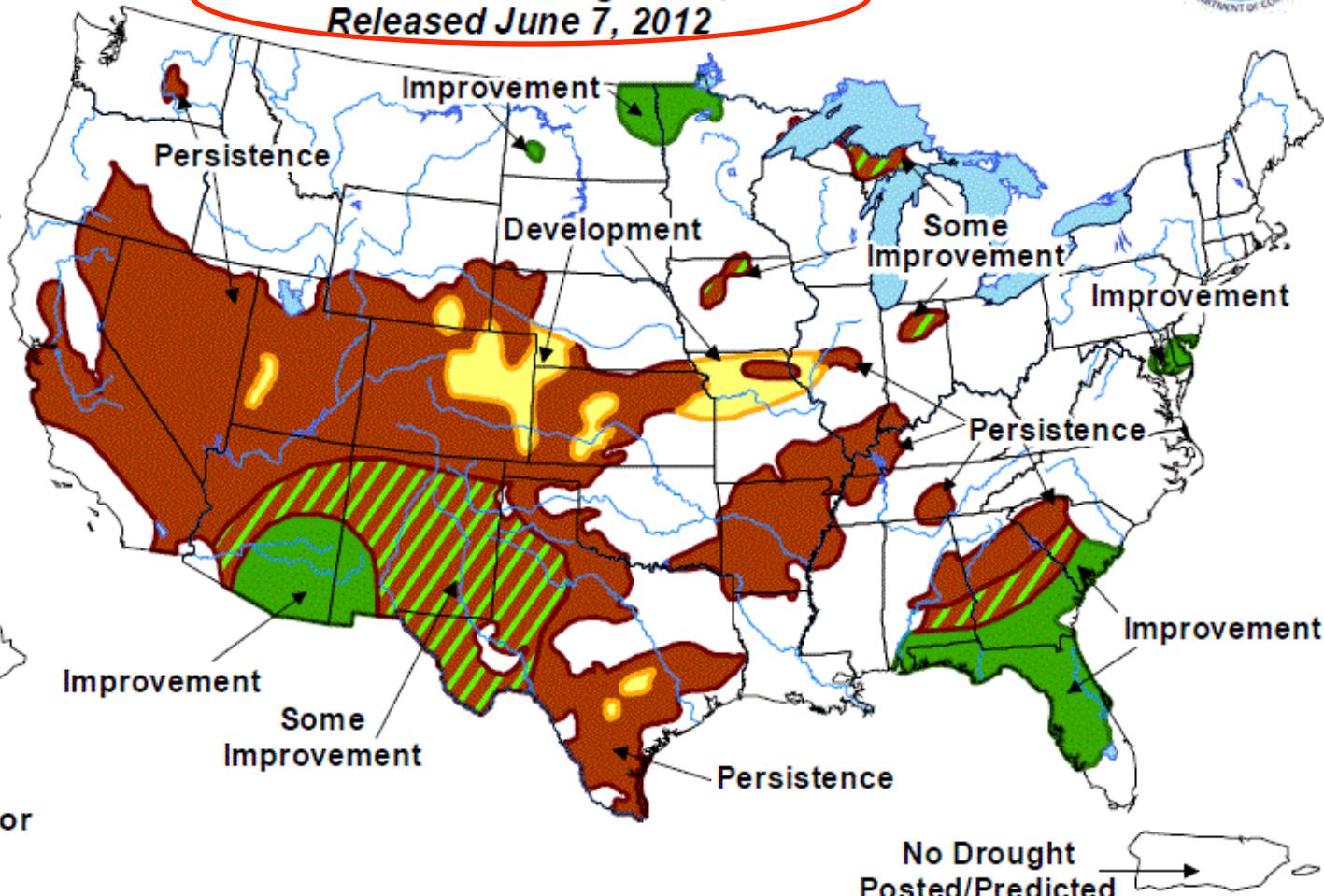
KEY:

Drought to persist or intensify

Drought ongoing, some improvement

Drought likely to improve, impacts ease

Drought development likely



Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events – such as individual storms – cannot be accurately forecast more than a few days in advance. Use caution for applications – such as crops – that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.



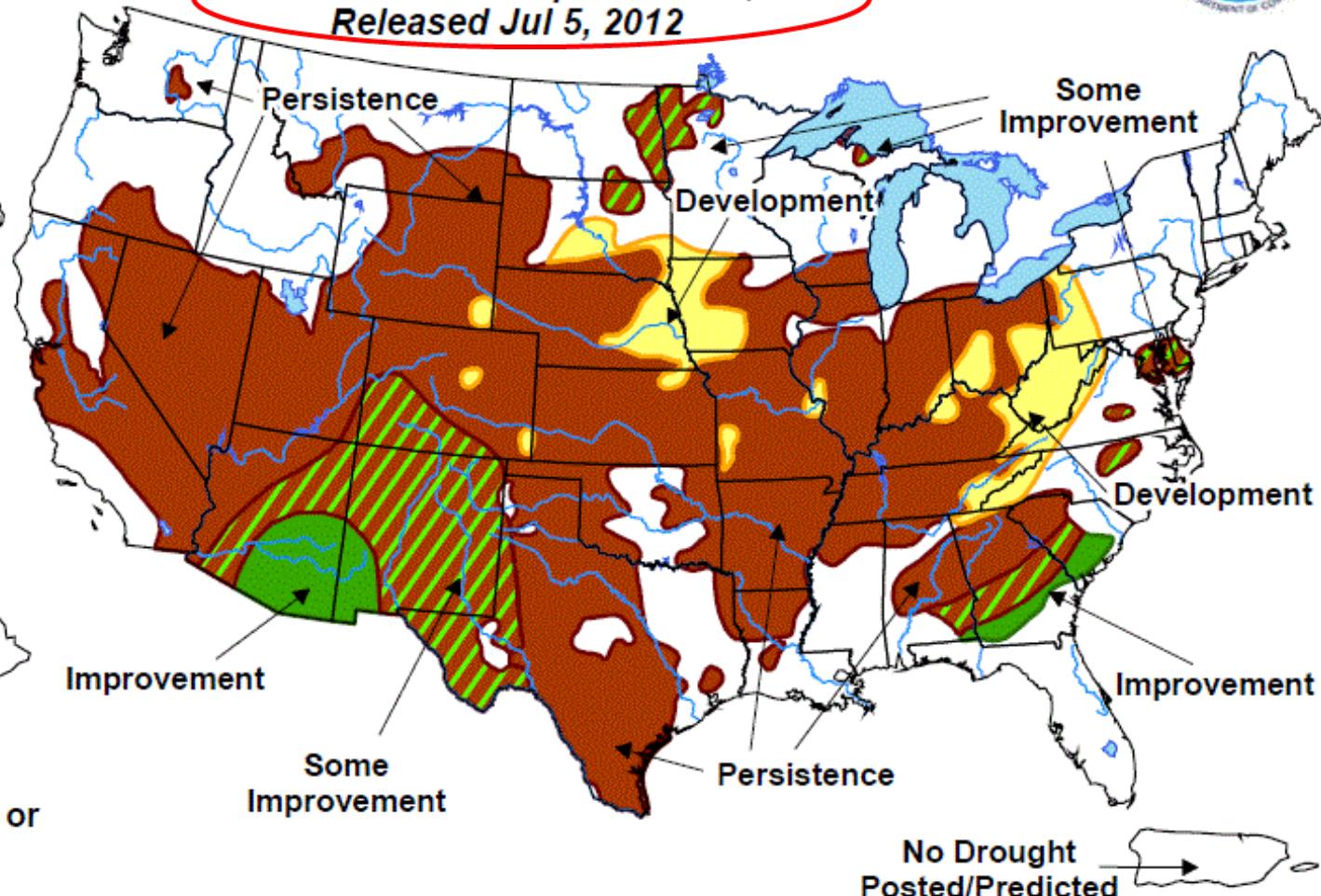
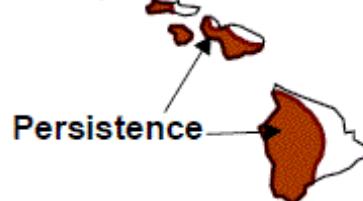
U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period



Valid for Jul 5 - September 30, 2012

Released Jul 5, 2012



KEY:

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Drought ongoing, some improvement

Drought likely to improve, impacts ease

Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

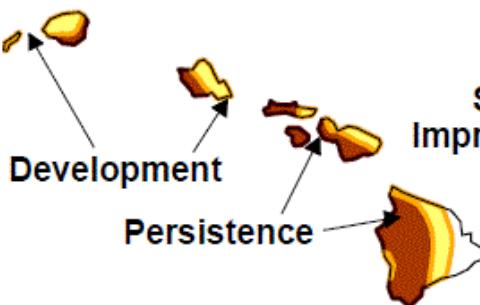


U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for August 2 - October 31, 2012

Released August 2, 2012



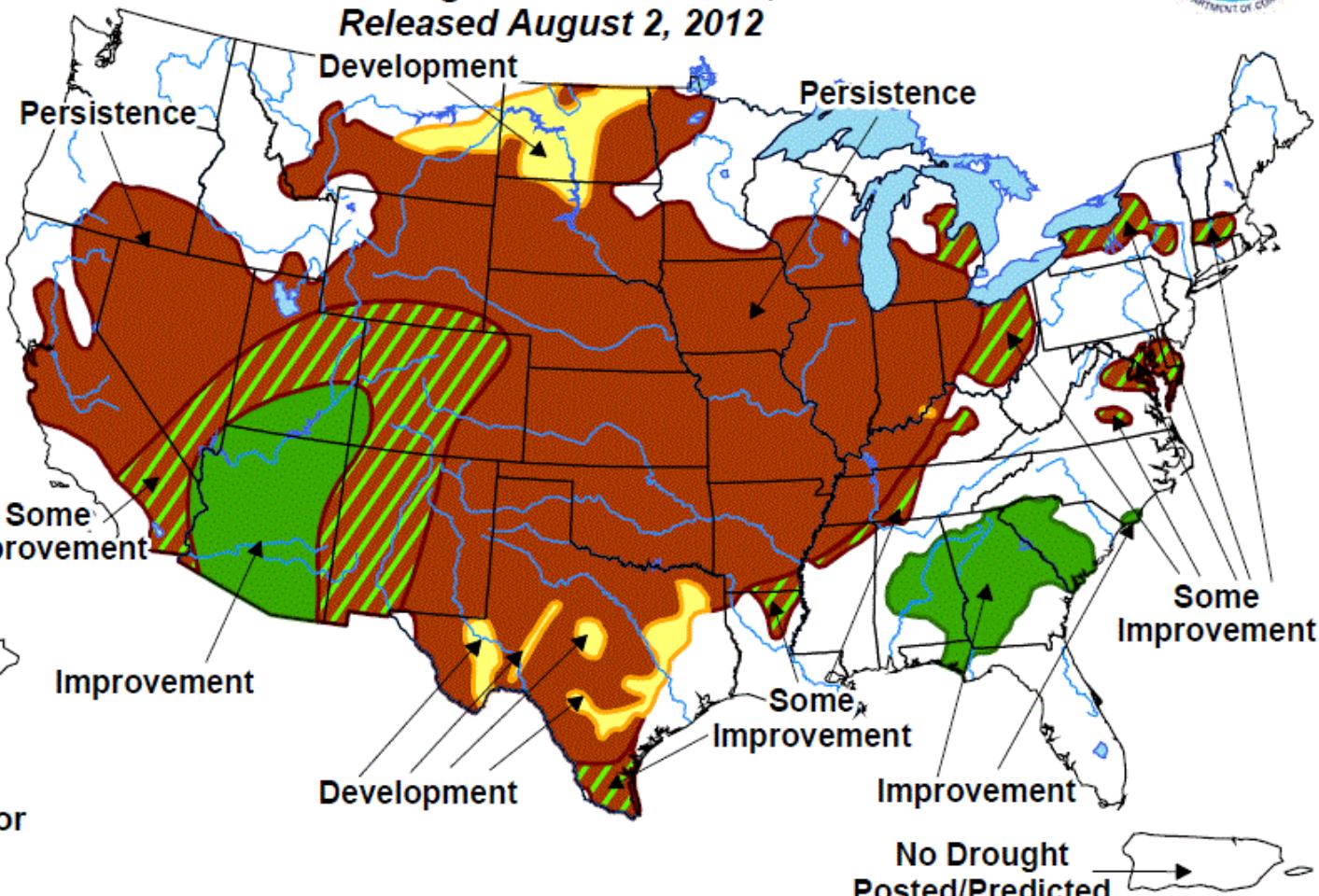
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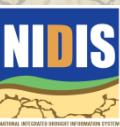
Contact Information:

Brian Fuchs

bfuchs2@unl.edu

402-472-6775

National Drought Mitigation Center
School of Natural Resources
University of Nebraska-Lincoln



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Lincoln



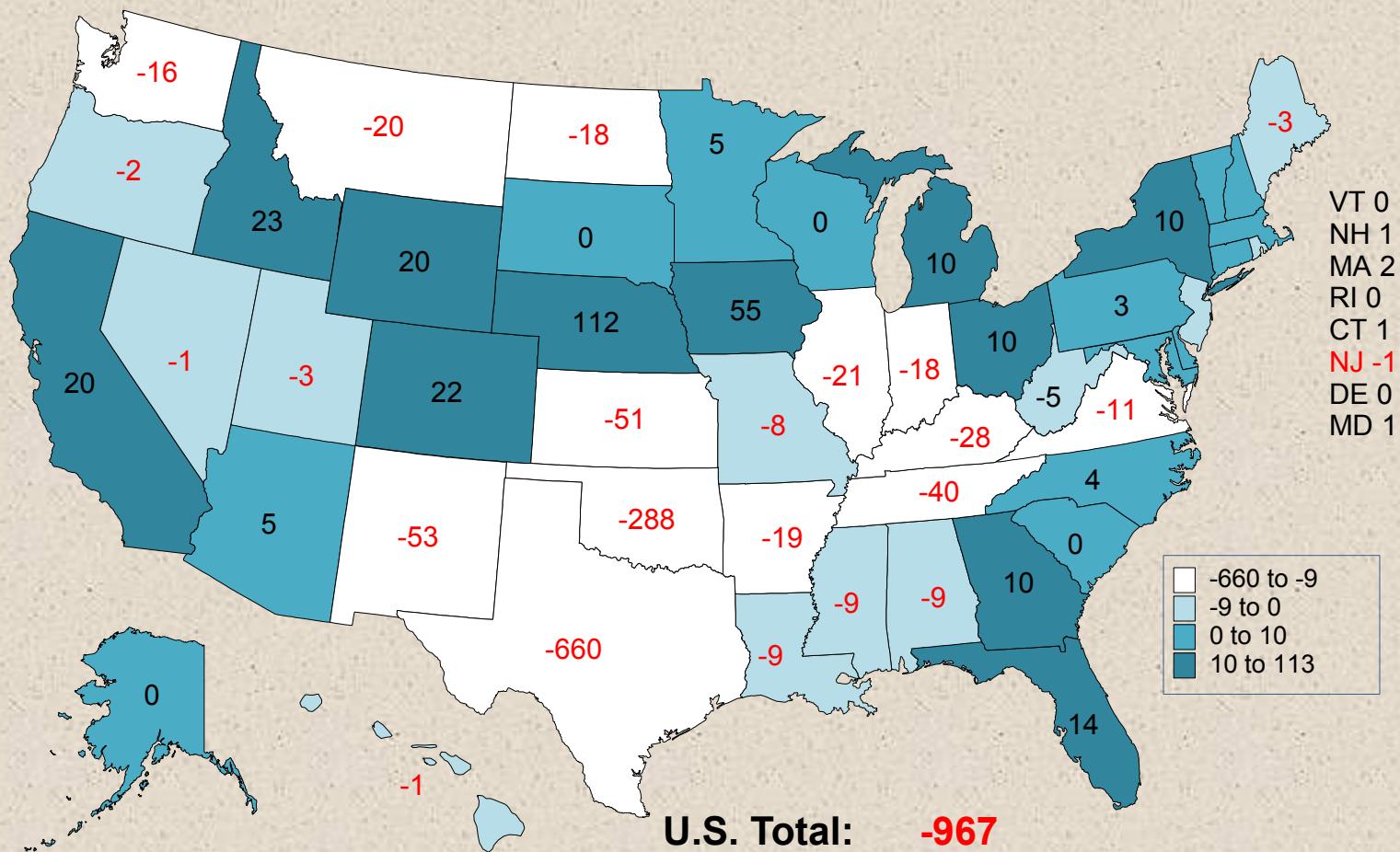
SCIPP/NIDIS Drought Webinar Series, August 9, 2012

Drought 2012: Cattle Market Impacts



Derrell S. Peel
Breedlove Professor of Agribusiness and
Extension Livestock Marketing Specialist
Oklahoma State University

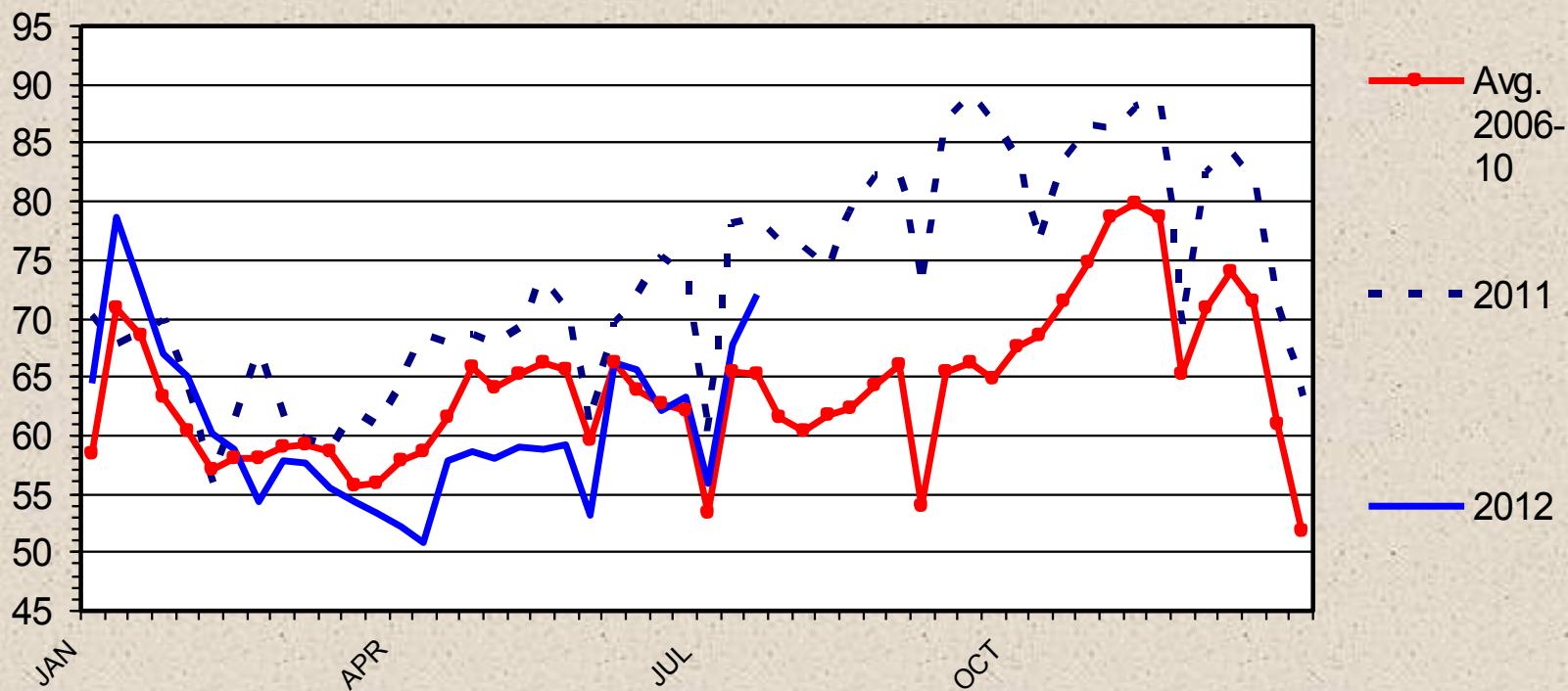
CHANGE IN BEEF COWS NUMBERS JANUARY 1, 2011 TO JANUARY 2012 (1000 Head)



BEEF COW SLAUGHTER

Federally Inspected, Weekly

Thou. Head



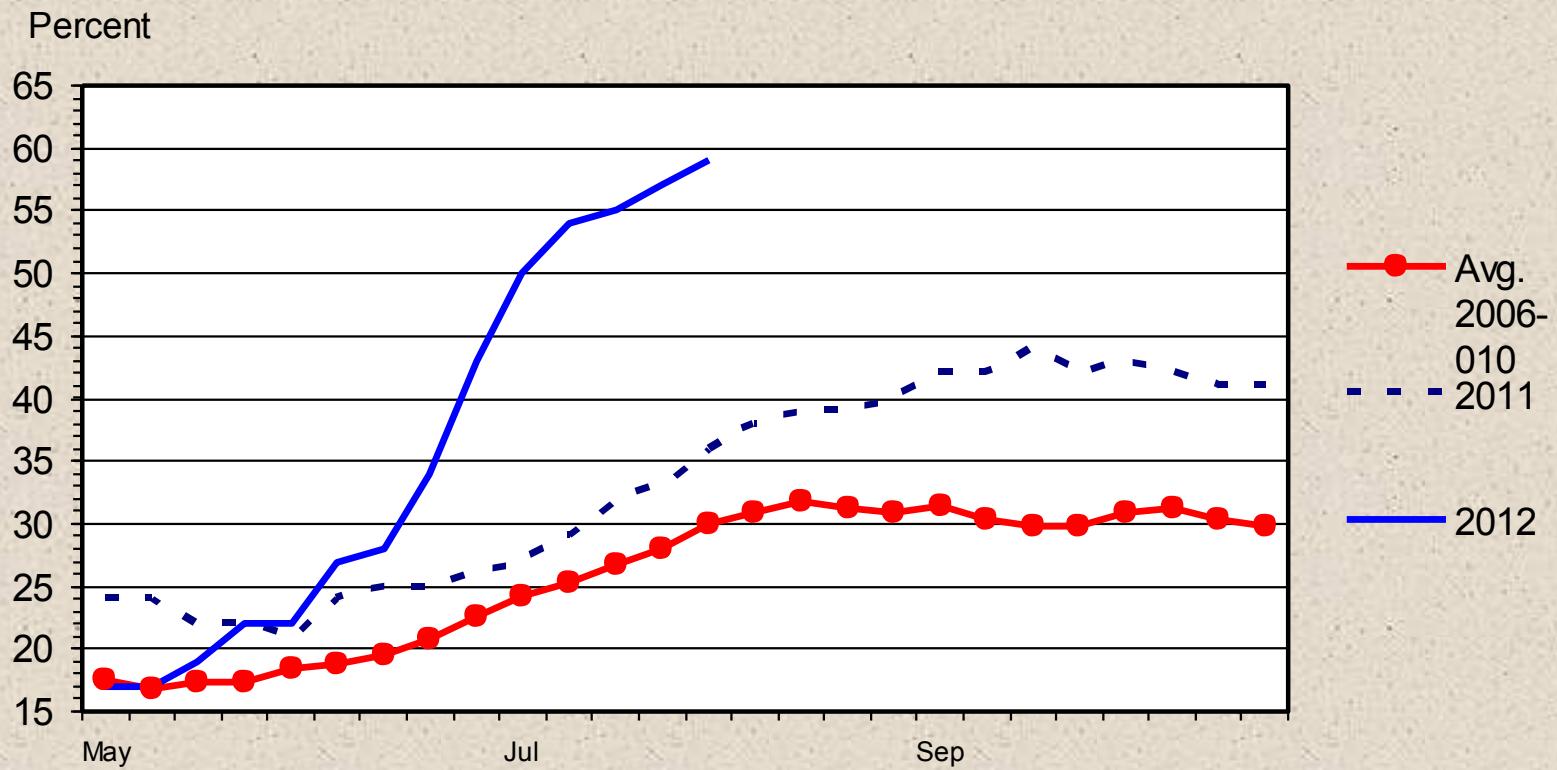
C-S-34
08/03/12

Livestock Marketing Information Center

Data Source: USDA-AMS & USDA-NASS

US RANGE AND PASTURE CONDITION

Percent Poor and Very Poor, Weekly

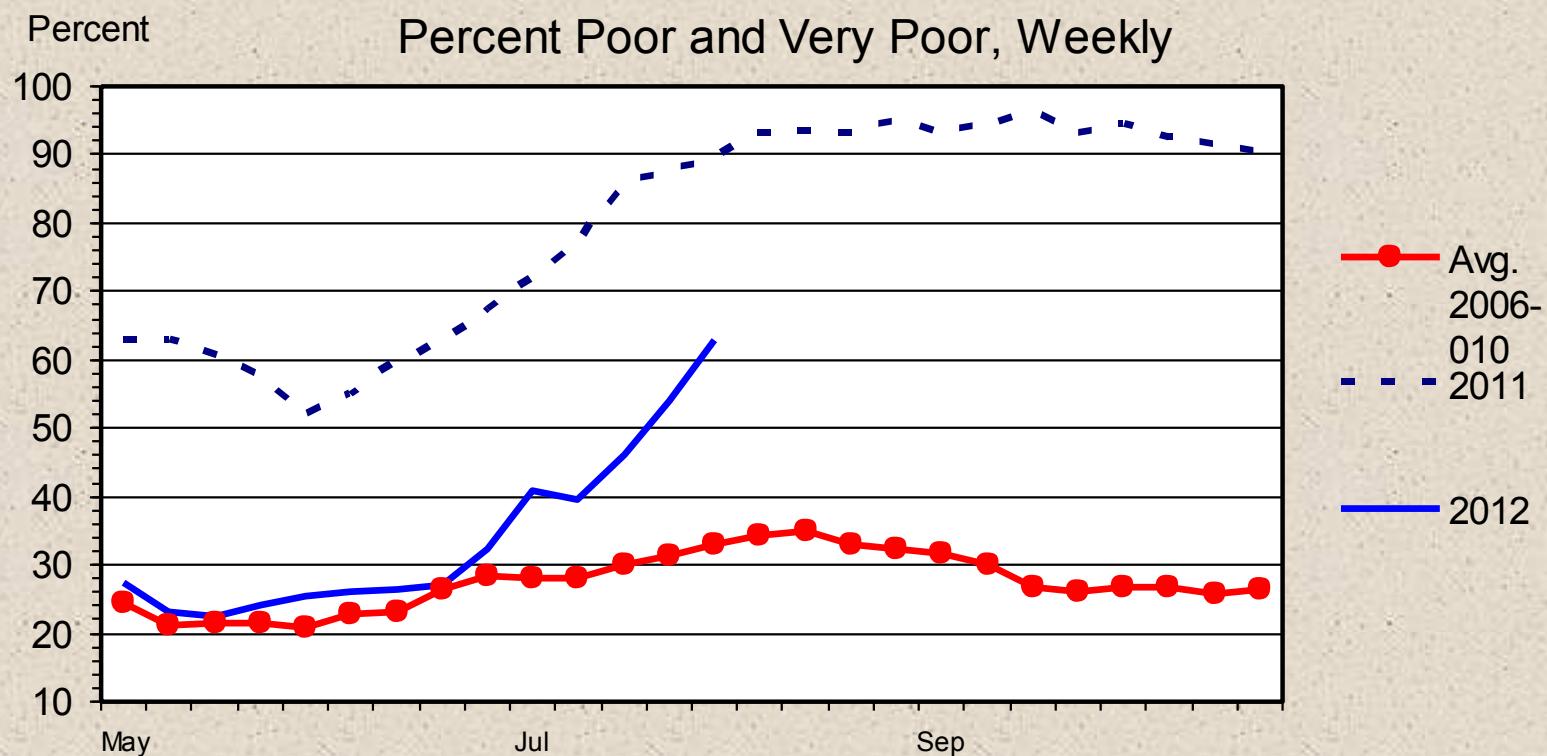


G-NP-30
08/06/12

Mississippi River, Near Vicksburg, August 8, 2012



SOUTHERN PLAINS REGION RANGE AND PASTURE CONDITION

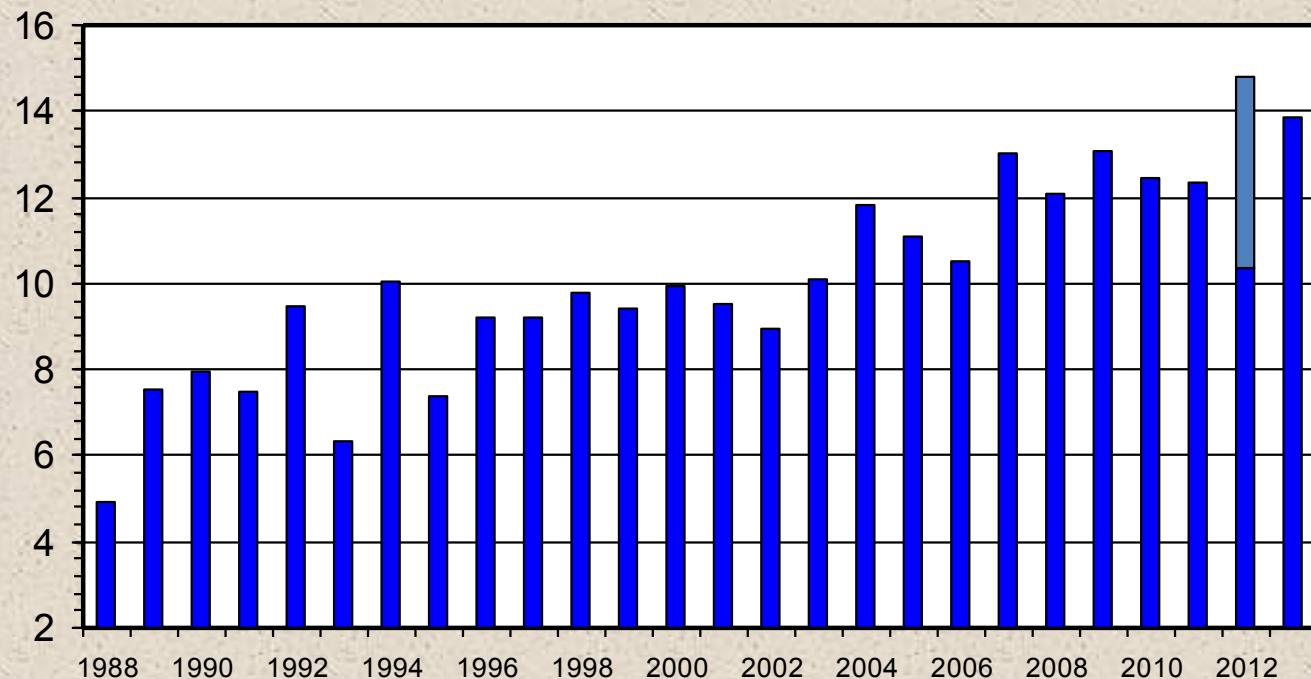


G-NP-33
08/06/12

U S ANNUAL CORN PRODUCTION

Crop Year

Bil. Bushels



Livestock Marketing Information Center

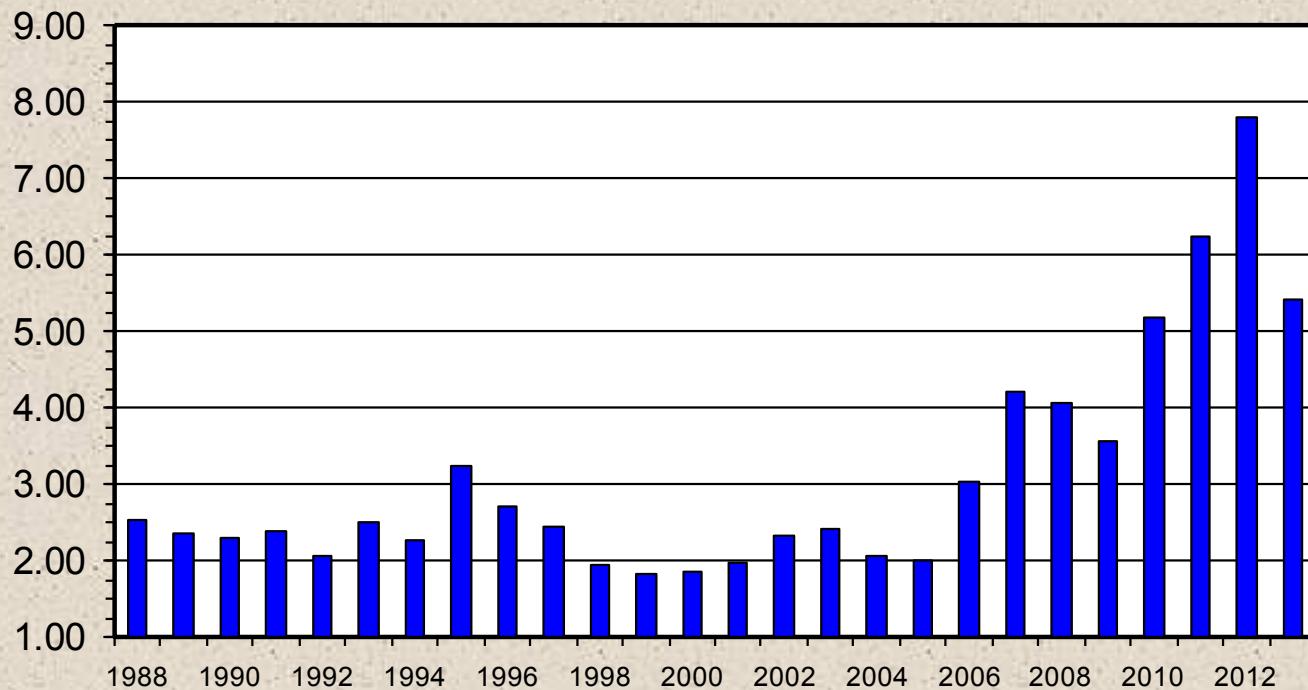
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-07
08/06/12

NATIONAL AVERAGE CORN PRICE

Crop Year, Received by Farmers

\$ Per Bushel



Livestock Marketing Information Center

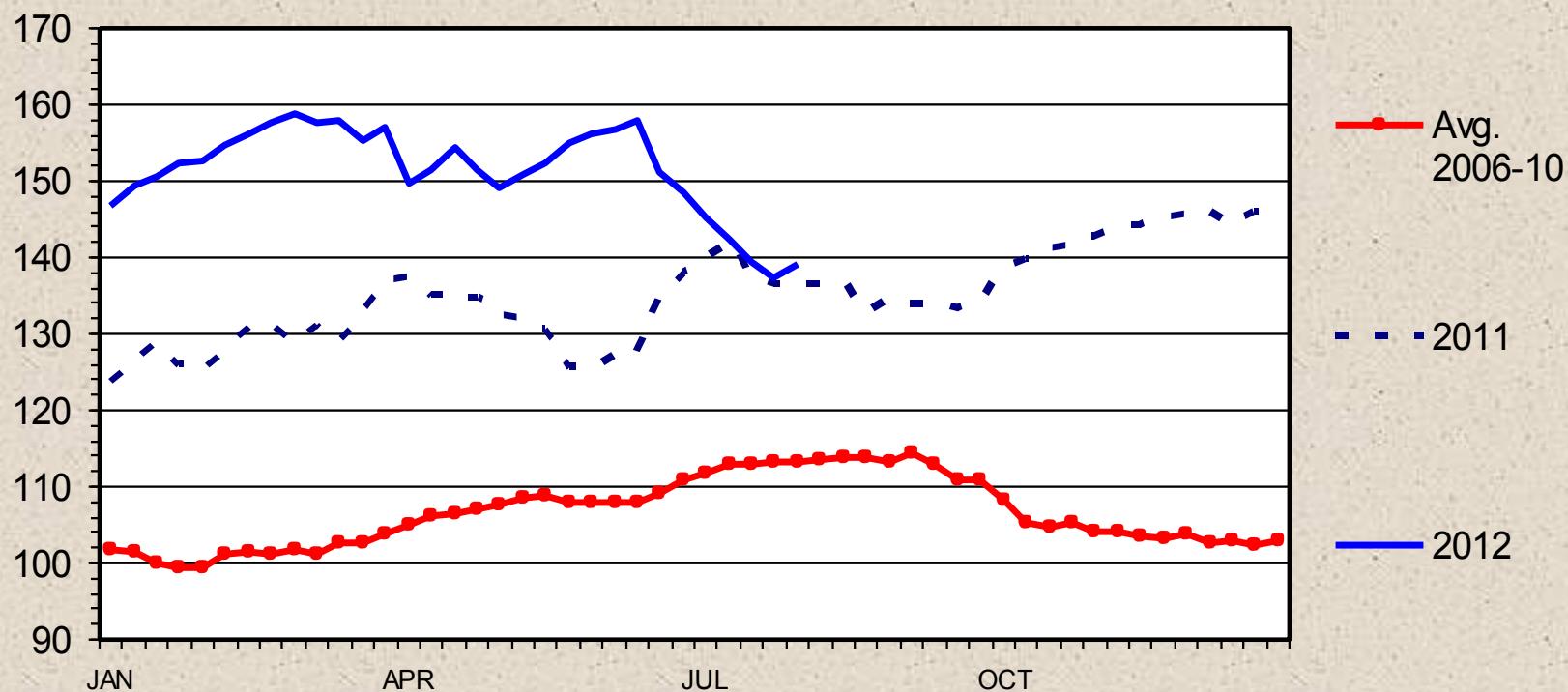
Data Source: USDA-NASS, Compiled & Forecasts by LMIC

G-NP-03
08/06/12

MED. & LRG. #1 FEEDER STEER PRICES

700-800 Pounds, Southern Plains, Weekly

\$ Per Cwt.



Livestock Marketing Information Center

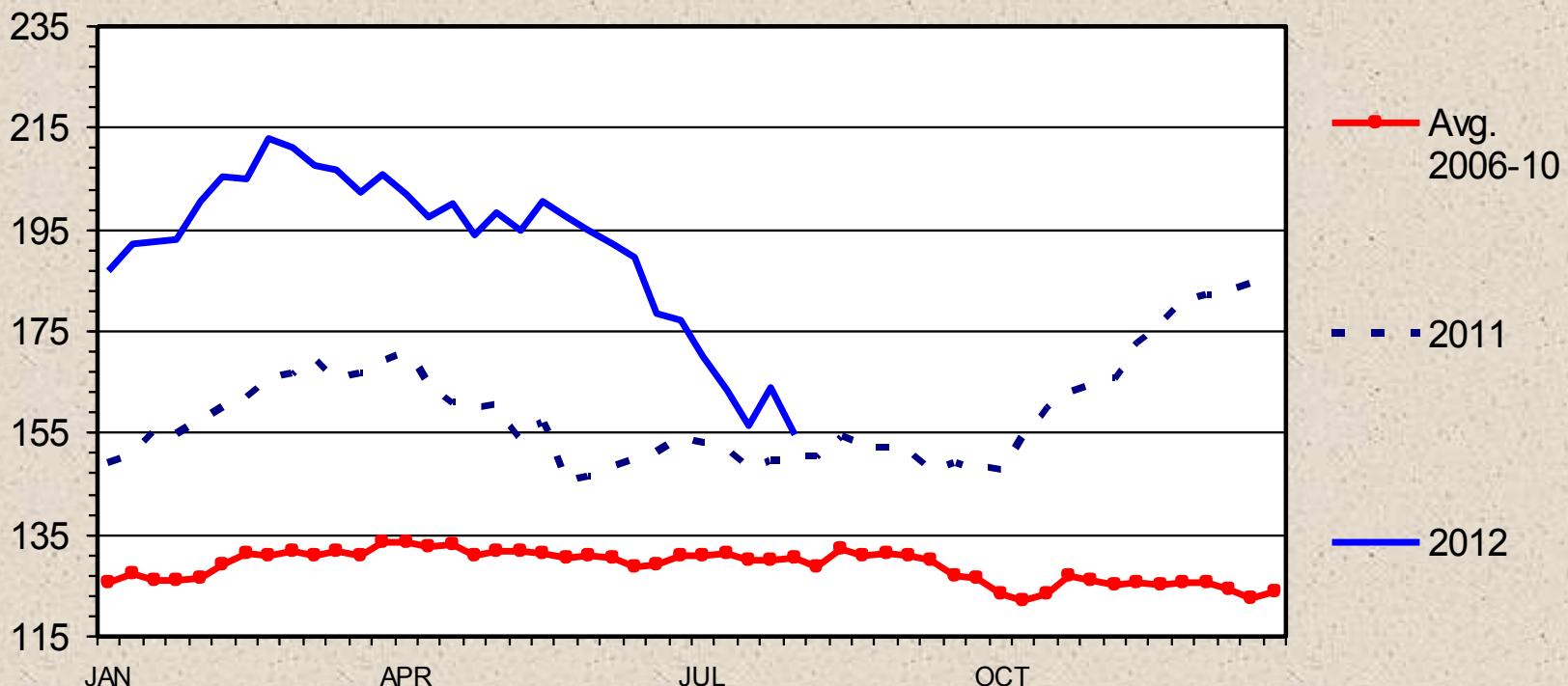
Data Source: USDA-AMS, Compiled & Analysis by LMIC

C-P-49
08/06/12

MED. & LRG. #1 STEER CALF PRICES

400-500 Pounds, Southern Plains, Weekly

\$ Per Cwt.



Livestock Marketing Information Center

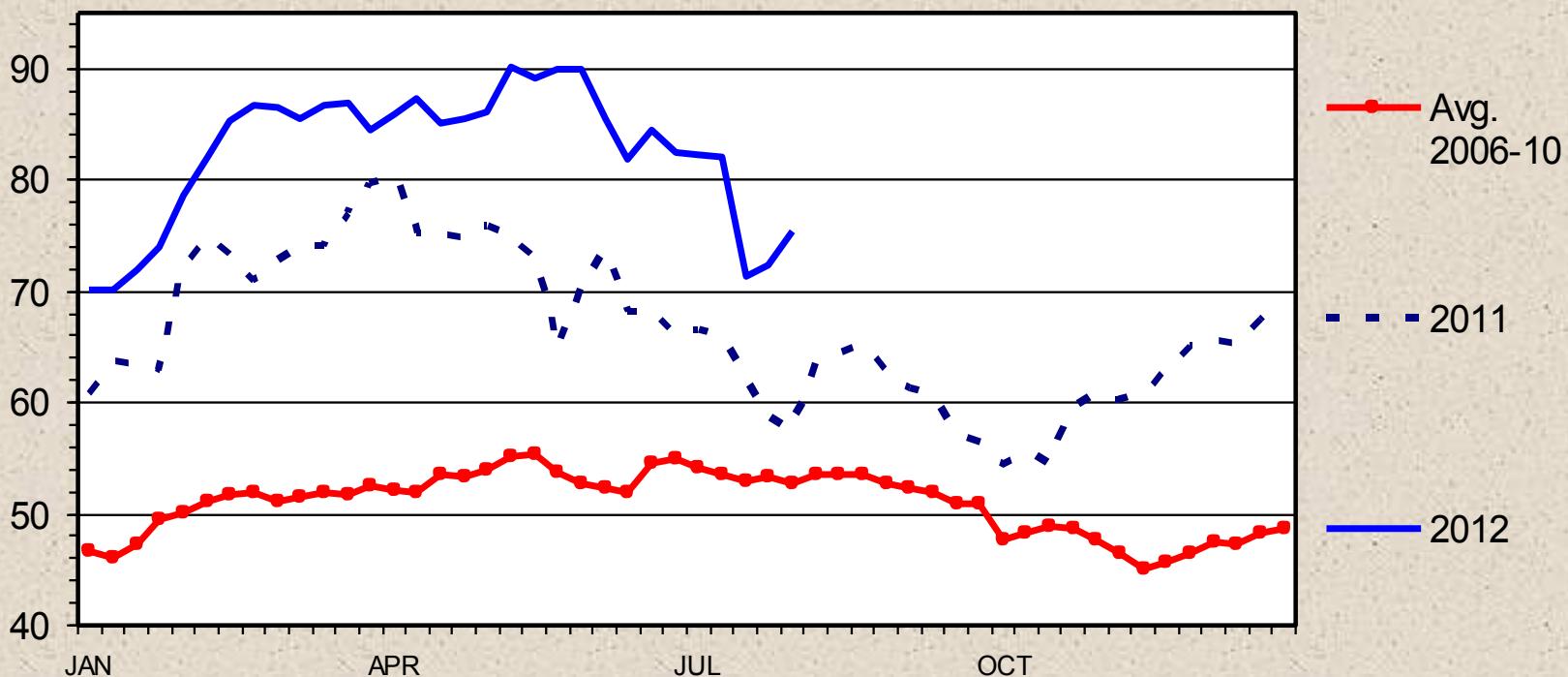
Data Source: USDA-AMS, Compiled & Analysis by LMIC

C-P-49A
08/06/12

SLAUGHTER COW PRICES

Southern Plains, 85-90% Lean, Weekly

\$ Per Cwt.



Livestock Marketing Information Center

Data Source: USDA-AMS

C-P-35
08/06/12

2012 Drought Livestock Impact

- Bigger (more typical) price impacts
- Impacts due to forage and grain losses
- Fall market recovery potential
- 2012 Southern Plains impacts less than 2011 but growing
- Production/marketing decisions looming
 - Early weaning calves
 - Early cow culling

THANK YOU!



derrell.peel@okstate.edu

Plains Grains, Inc.

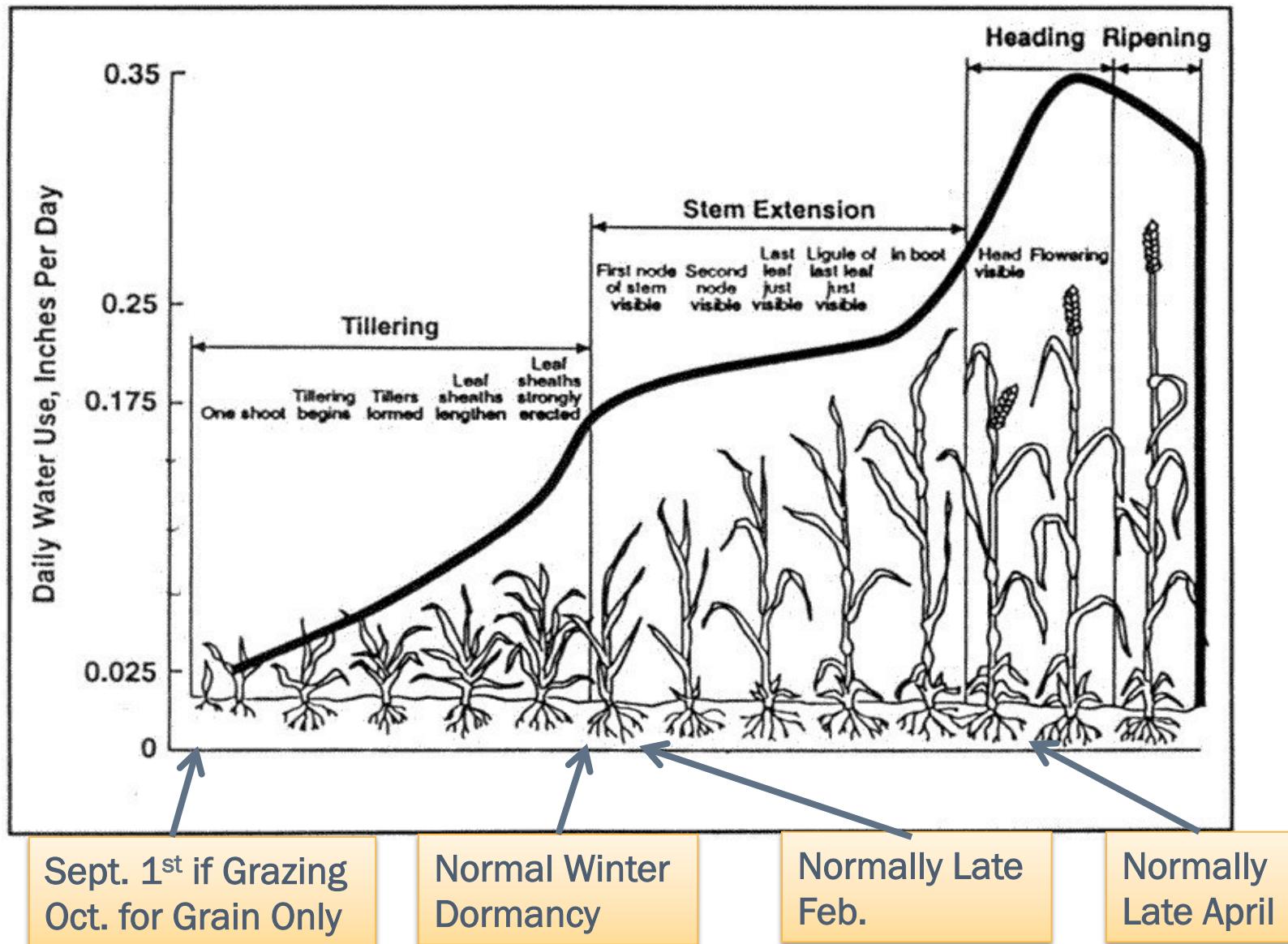


Drought Effects on the Hard Red Winter Wheat Crop in the Southern Great Plains

Mark Hodges, Executive Director
Plains Grains, Inc.

www.plainsgrains.org

Water Daily Use



Altus (ALTU) rainfall in inches per month

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total
30-Year Normal	.96	1.19	1.79	2.43	4.81	4.32	2.00	2.83	3.42	2.70	1.50	1.21	29.17
Mesonet Average	0.99	0.85	1.77	2.22	2.59	3.70	2.44	2.33	2.36	2.92	1.48	1.14	24.79
1994	0.19	1.29	2.14	*	2.51	1.02	1.76	0.76	1.38	1.86	5.07	0.28	*
1995	0.71	0.15	1.27	3.27	5.22	9.63	4.58	6.88	6.09	0.60	0.15	0.87	39.42
1996	0.01	0.00	0.98	0.02	1.41	4.14	7.40	*	4.90	*	*	0.00	*
1997	0.26	*	0.01	7.50	3.74	5.41	2.50	5.51	6.25	2.77	0.58	3.23	*
1998	1.46	2.53	4.10	0.30	0.91	0.09	0.28	2.38	0.03	3.59	2.08	0.44	18.19
1999	2.00	0.05	2.73	2.13	5.46	5.33	1.36	0.45	1.22	2.95	0.00	2.96	26.64
2000	0.26	1.07	4.87	*	*	6.24	0.79	0.01	2.03	7.82	1.98	1.04	*
2001	1.65	1.86	0.99	0.06	*	*	*	*	*	0.02	2.37	0.14	*
2002	1.92	0.88	1.61	2.70	0.94	2.13	3.59	0.03	1.57	4.88	0.62	2.70	23.57
2003	0.00	0.71	0.59	2.52	0.76	7.26	0.07	4.66	0.48	0.35	1.17	0.04	18.61
2004	3.99	1.96	2.79	2.24	0.02	*	3.51	2.31	0.66	*	7.01	0.28	*
2005	1.99	1.15	0.17	1.07	4.26	2.03	2.39	3.26	3.10	3.48	0.00	0.10	23.00
2006	0.03	0.04	0.81	2.10	2.92	0.13	0.84	1.52	3.17	4.82	0.63	2.45	19.46
2007	1.35	0.20	2.75	1.24	2.82	5.36	1.38	3.23	*	1.26	0.08	1.83	*
2008	0.00	1.02	1.88	2.44	2.48	3.34	1.82	3.64	0.80	3.67	0.02	0.02	21.13
2009	0.37	0.31	1.98	5.65	2.80	1.98	3.55	0.62	3.34	3.62	0.26	1.66	26.14
2010	*	*	0.92	2.82	3.12	3.59	6.38	1.50	1.87	1.98	*	*	*
2011	*	0.56	0.04	0.14	*	0.12	0.17	0.45	0.86	3.05	1.58	1.26	*
2012	0.58	0.64	3.06	1.48	2.10	5.12	1.54	*	*	*	*	*	*

Lahoma (LAHO) rainfall in inches per month

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total
30-Year Normal	1.04	1.45	2.70	3.00	4.71	4.09	2.94	3.18	3.10	2.99	2.17	1.33	32.70
Mesonet Average	0.73	1.21	2.35	2.90	3.32	4.28	2.89	4.08	2.57	3.24	1.65	1.31	30.53
1994	0.21	0.71	0.79	6.07	4.87	1.02	2.64	3.65	1.21	5.24	4.11	0.74	31.26
1995	0.81	0.23	2.71	3.55	4.85	8.52	2.90	8.82	3.36	0.69	0.06	1.06	37.56
1996	0.02	0.11	0.53	0.02	1.95	3.03	4.49	6.65	6.14	2.72	2.54	*	*
1997	0.21	3.40	0.55	*	3.64	3.37	5.57	5.14	4.31	3.41	1.12	3.74	*
1998	2.69	0.17	5.51	3.53	1.78	0.45	3.52	0.95	3.28	7.66	3.88	1.95	35.37
1999	1.78	1.58	3.20	6.73	4.13	7.52	2.33	4.63	*	1.88	1.30	3.88	*
2000	0.23	2.37	4.58	2.23	2.50	3.51	*	0.00	0.00	6.21	2.93	0.58	*
2001	2.34	2.24	1.10	0.32	7.24	0.94	*	*	2.61	0.00	0.49	0.10	*
2002	0.12	2.11	0.35	1.93	*	5.12	1.77	4.62	3.35	5.55	0.26	1.25	*
2003	0.06	0.68	1.65	*	2.98	2.33	*	4.05	1.95	1.49	0.41	1.07	*
2004	2.04	1.32	4.75	*	0.30	5.25	1.82	4.33	1.88	3.06	5.72	0.48	*
2005	*	0.99	0.86	0.95	2.17	5.09	*	7.14	0.61	3.04	0.07	0.39	*
2006	0.10	0.00	2.76	2.01	0.74	3.43	1.54	4.11	0.34	0.59	0.70	1.70	18.02
2007	0.74	0.29	4.88	2.62	5.16	9.08	3.00	1.74	4.64	3.41	0.11	1.80	37.47
2008	0.24	2.01	3.73	2.02	4.12	11.36	3.77	0.91	4.43	4.59	0.46	0.66	38.30
2009	0.08	0.31	1.20	3.54	1.36	2.32	2.57	7.57	0.51	4.98	0.25	0.20	24.89
2010	0.35	1.33	1.79	3.26	4.90	3.71	6.56	3.08	3.87	1.45	2.07	0.16	32.53
2011	0.14	0.17	1.22	1.69	5.45	2.90	0.51	1.99	1.22	2.37	3.17	2.55	23.38
2012	1.04	3.06	2.49	5.86	1.64	2.34	0.39	*	*	*	*	*	*

MESONET CLIMATOLOGICAL DATA SUMMARY <u>(LAHO)</u> Lahoma Latitude: 36-23-03								April 2012 Nearest City: 1.0 WSW Lahoma Longitude: 98-06-41						Time Zone: Midnight-Midnight CST County: Major Elevation: 1299 feet						
DAY	TEMPERATURE (°F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND DIR	SPEED AVG (mph)	SOLAR (MJ/m²)	4" SOIL TEMPERATURES				
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL				SOD	BARE	MAX	MIN	
1	86	60	71.9	61.6	0	8	100	39	74	0.01	28.20	29.57	SSE	13.2	28.7	25.32	65.0	71.2	80	64
2	81	62	71.3	63.4	0	6	92	56	77	0.00	28.22	29.59	S	14.5	30.5	24.07	65.9	72.4	80	66
3	63	53	58.1	54.6	7	0	97	69	88	0.14	28.46	29.84	N	8.9	31.6	6.73	64.0	64.4	70	62
4	64	50	54.8	49.7	8	0	97	58	84	0.00	28.42	29.80	NNW	9.8	21.5	17.24	62.4	61.0	67	56
5	62	50	55.9	52.1	9	0	97	70	87	0.00	28.52	29.90	NW	7.7	17.2	8.05	61.0	59.1	63	56
6	66	46	55.7	51.7	9	0	98	67	87	0.01	28.64	30.03	ESE	6.9	25.4	18.51	60.8	61.2	69	55
7	70	45	59.9	49.6	7	0	93	30	72	0.04	28.76	30.15	N	14.3	40.6	19.17	61.3	62.5	69	59
8	68	39	54.1	44.3	12	0	98	38	74	0.00	28.90	30.29	N	5.9	18.3	25.99	60.2	61.5	73	51
9	70	44	58.2	55.1	8	0	100	55	90	0.01	28.73	30.12	SSE	8.0	40.0	12.38	60.5	62.6	70	57
10	70	55	61.6	54.6	2	0	99	59	79	0.00	28.72	30.11	ENE	7.6	18.3	19.49	61.7	65.5	73	60
11	60	50	55.8	50.4	10	0	94	59	82	0.01	28.74	30.13	E	11.7	28.0	8.73	60.8	62.6	66	60
12	69	52	61.4	56.5	4	0	97	72	84	0.00	28.54	29.92	SSE	13.6	30.3	11.16	60.3	62.2	67	57
13	81	62	69.0	61.6	0	6	96	47	79	0.03	28.41	29.79	SSE	10.1	31.6	21.59	62.8	69.0	79	62
14	77	59	69.3	64.7	0	3	98	74	86	1.56	28.27	29.63	SSE	19.4	46.8	10.00	63.4	67.0	71	64
15	71	47	60.9	47.1	6	0	92	26	64	0.26	28.28	29.65	SW	14.9	45.6	23.96	63.6	62.4	67	56
16	66	43	54.8	43.5	11	0	91	40	68	0.00	28.76	30.15	ESE	6.1	15.1	27.56	62.3	59.1	69	50
17	72	43	58.4	47.9	8	0	96	46	71	0.00	28.81	30.20	SSE	7.6	18.3	27.45	62.1	60.6	70	52
18	77	48	62.7	53.5	2	0	97	45	75	0.00	28.61	30.00	SSE	11.8	29.4	24.55	62.5	62.7	73	54
19	78	58	65.8	55.2	0	3	89	49	70	0.00	28.41	29.78	SSE	12.2	31.1	22.87	63.3	66.2	76	58
20	63	45	52.8	44.6	11	0	88	48	75	0.00	28.66	30.04	N	12.5	32.1	16.39	62.3	62.4	68	57
21	77	39	57.9	45.4	7	0	95	34	68	0.00	28.64	30.02	SSW	5.2	19.3	27.80	60.7	62.4	76	50
22	68	47	56.7	41.5	7	0	92	29	61	0.00	28.79	30.18	N	10.5	27.8	27.19	61.5	64.8	74	57
23	72	38	55.8	41.2	10	0	92	31	63	0.00	28.77	30.15	S	5.2	13.3	27.95	60.6	64.1	76	53
24	90	44	68.9	50.4	0	2	94	25	57	0.00	28.42	29.80	S	10.3	25.7	28.33	61.9	68.3	81	56
25	91	56	74.8	57.6	0	8	89	29	59	0.00	28.31	29.68	S	5.0	20.5	26.89	64.7	74.0	85	64
26	86	59	73.1	55.8	0	8	94	30	58	0.00	28.46	29.84	E	10.1	27.1	24.51	65.8	74.9	83	68
27	88	57	73.1	56.4	0	8	93	21	63	0.00	28.26	29.63	ESE	13.1	35.7	24.77	66.6	75.3	83	70
28	72	56	64.1	52.6	1	0	95	49	67	0.20	28.45	29.83	NE	11.9	26.9	15.88	65.3	71.0	76	67
29	77	59	67.0	62.1	0	3	99	62	86	2.36	28.51	29.89	SSE	6.9	25.1	22.05	66.1	71.2	78	64
30	83	59	68.9	63.2	0	6	99	55	83	1.46	28.51	29.89	SSE	9.9	36.8	24.99	67.3	71.1	80	63
	54	51	62.4	52.0							20.54	20.02	SSE	10.2	46.0	20.22	62.0	65.0	74	50

Temperature - Highest: 91
Lowest: 38

Degree Days - Total HDD: 140
Total CDD: 60

Number of Days With:
 Tmax \geq 90: 2 Rainfall \geq 0.01 inch: 12
 Tmax \leq 32: 0 Rainfall \geq 0.10 inch: 6
 Tmin \leq 32: 0 Avg Wind Speed \geq 10 mph: 16

MESONET CLIMATOLOGICAL DATA SUMMARY April 2012 Time Zone: Midnight-Midnight CST
 (ALTU) Altus Nearest City: 3.0 S Altus County: Jackson
 Latitude: 34-35-13 Longitude: 99-20-17 Elevation: 1365 feet

DAY	TEMPERATURE (°F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND DIR	SPEED (mph)	SOLAR (MJ/m²)	4" SOIL TEMPERATURES				
	MAX	MIN	Avg	Dewpt	HDD	CDD	Max	Min	Avg		STN	MSL				SOD	BARE	MAX	MIN	
1	98	57	77.2	50.5	0	12	99	8	52	0.01	28.16	29.59	SSE	14.6	33.8	26.72	68.8	71.8	78	66
2	86	56	72.8	59.1	0	6	94	33	66	0.59	28.14	29.57	SSE	17.5	48.2	23.75	69.4	72.6	77	69
3	68	54	61.2	57.6	4	0	97	75	88	0.01	28.36	29.81	E	9.4	30.5	12.47	65.8	67.2	70	65
4	65	45	54.0	45.5	10	0	95	42	75	0.00	28.42	29.87	WNW	11.2	28.3	20.98	62.5	62.5	65	59
5	69	43	55.5	49.7	9	0	99	54	82	0.00	28.46	29.91	ENE	7.0	15.8	26.27	62.7	63.4	72	56
6	75	47	61.4	54.1	4	0	99	51	79	0.01	28.53	29.98	ESE	11.4	24.1	24.28	64.0	65.7	72	60
7	77	56	63.6	53.2	0	2	96	34	72	0.00	28.66	30.11	NE	14.4	39.0	19.57	65.2	67.2	71	63
8	69	53	59.7	52.9	4	0	99	62	79	0.01	28.80	30.26	NNE	8.3	20.0	17.42	64.7	66.6	72	63
9	75	58	64.3	60.9	0	2	99	67	90	0.34	28.67	30.12	SE	10.2	46.4	13.28	64.9	67.0	71	64
10	79	56	67.8	61.1	0	3	96	56	80	0.00	28.61	30.06	ESE	9.5	27.3	25.21	66.6	68.6	74	63
11	83	56	68.8	59.8	0	5	98	39	76	0.00	28.58	30.04	ESE	10.8	26.8	24.17	68.0	70.2	76	64
12	80	60	68.7	62.0	0	5	95	58	80	0.00	28.43	29.87	ESE	19.5	38.1	14.39	67.7	69.7	73	67
13	84	65	71.9	63.9	0	9	92	51	77	0.01	28.34	29.78	S	14.1	29.4	13.81	68.2	70.1	73	67
14	90	69	76.5	63.9	0	15	88	34	68	0.00	28.17	29.61	SSE	25.1	46.8	20.27	69.8	71.5	76	68
15	75	51	62.6	42.7	2	0	97	14	56	0.43	28.30	29.74	WSW	16.0	57.0	26.54	67.3	68.4	73	65
16	71	44	58.0	44.8	7	0	96	34	66	0.00	28.69	30.14	ESE	7.7	22.6	28.11	64.9	66.4	74	60
17	77	45	61.5	46.6	4	0	97	28	64	0.00	28.74	30.20	SE	8.6	24.1	28.39	65.6	67.8	75	61
18	88	49	68.8	47.4	0	4	94	17	54	0.00	28.55	30.00	SE	15.1	33.0	28.16	66.7	69.3	76	63
19	85	55	69.7	52.1	0	5	86	24	58	0.00	28.34	29.78	SE	14.0	30.8	21.57	67.7	70.4	75	65
20	69	48	60.2	49.1	6	0	94	42	69	0.07	28.56	30.02	NNE	13.5	39.4	27.35	68.1	69.8	74	66
21	84	43	62.0	43.8	2	0	94	21	59	0.00	28.58	30.03	SW	7.2	20.9	29.01	66.5	68.6	76	61
22	76	49	62.5	44.3	2	0	92	25	57	0.00	28.70	30.15	NE	11.0	29.4	28.15	67.8	70.0	76	64
23	77	43	61.1	39.3	5	0	87	23	50	0.00	28.70	30.16	SE	7.4	18.1	28.18	67.0	69.3	76	63
24	96	48	73.6	44.3	0	7	86	13	43	0.00	28.41	29.86	SSE	12.0	36.8	28.20	68.4	71.2	78	64
25	105	61	82.4	49.7	0	18	75	8	41	0.00	28.24	29.68	S	8.6	21.5	27.88	72.5	75.6	83	69
26	90	65	77.1	65.3	0	12	95	42	70	0.00	28.33	29.77	E	13.9	30.1	23.14	74.5	77.1	81	73
27	95	64	78.3	45.3	0	14	93	10	44	0.00	28.20	29.63	WSW	14.6	38.9	27.94	74.4	76.6	81	72
28	84	54	71.0	54.5	0	4	85	38	58	0.00	28.31	29.75	NNE	13.7	29.0	27.66	73.8	75.3	81	70
29	82	63	71.8	62.1	0	8	92	55	73	0.00	28.42	29.87	SE	10.1	44.4	12.99	73.5	74.5	78	71
30	90	62	76.6	61.2	0	11	97	37	61	0.28	28.42	29.87	SSE	14.8	44.3	18.80	73.9	75.7	80	72

81 54 67.3 52.9 <- Monthly Averages -> 28.46 29.91 SE 12.4 57.0 23.16 68.0 70.0 75 65

Temperature - Highest: 105 Lowest: 43	Degree Days - Total HDD: 59 Total CDD: 141	Number of Days With: Tmax ≥ 90: 7 Rainfall ≥ 0.01 inch: 10 Tmax ≤ 32: 0 Rainfall ≥ 0.10 inch: 4 Tmin ≤ 32: 0 Avg Wind Speed ≥ 10 mph: 21
Rainfall: Monthly Total: 1.76 in. Greatest 24 Hr.: 0.50 in.	Humidity - Highest: 99 Lowest: 0	

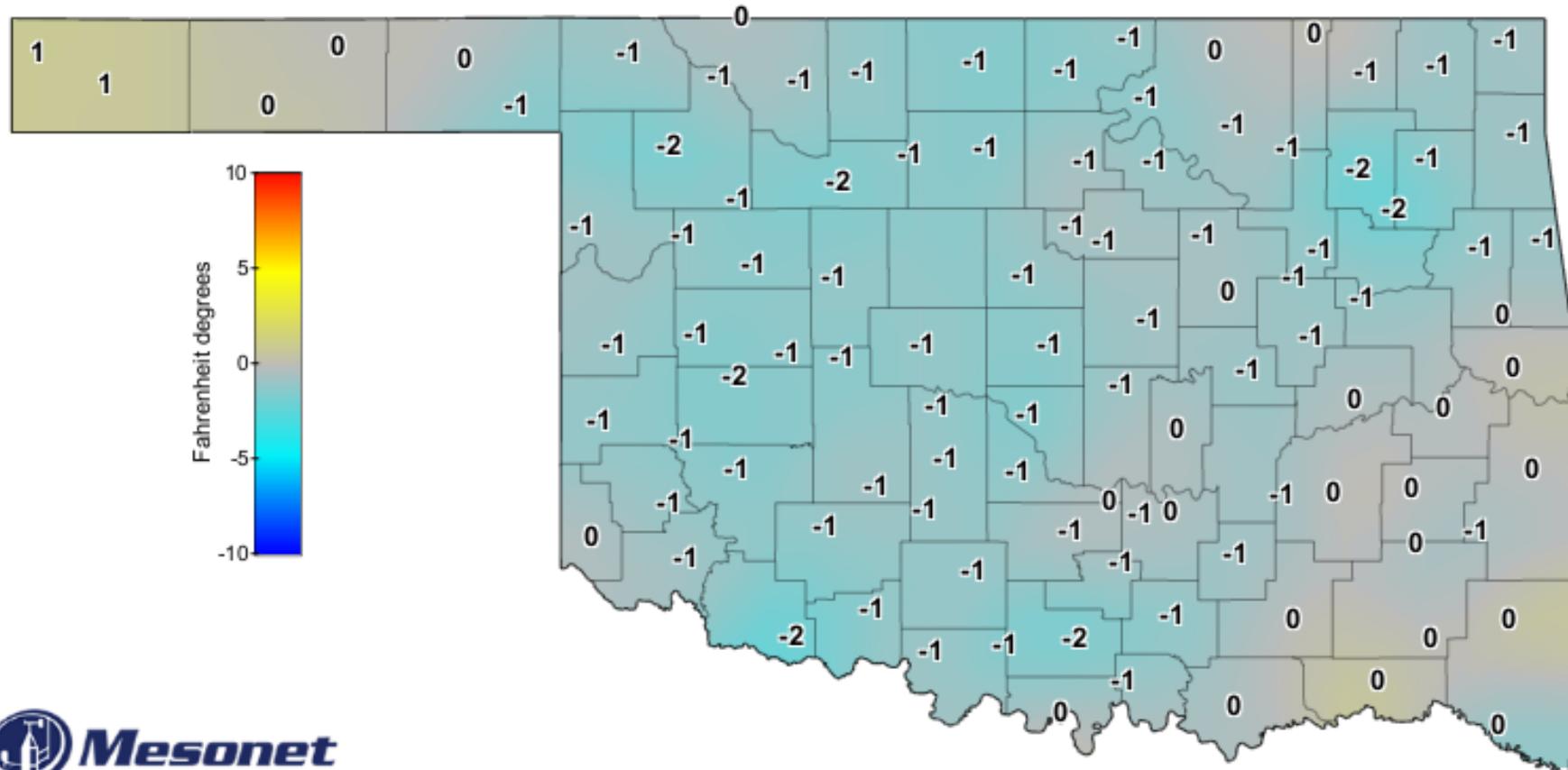
Mesonet Climatological Data Summary <u>(LAHO)</u> Lahoma Latitude: 36-23-03							May 2012 Nearest City: 1.0 WSW Lahoma Longitude: 98-06-41							Time Zone: Midnight-Midnight CST County: Major Elevation: 1299 feet							
Day	Temperature (°F)				Deg Days		Humidity (%)			Rain (in)		Pressure (in)		Wind Speed (mph)			4" Soil Temperatures				
	Max	Min	Avg	Dewpt	HDD	CDD	Max	Min	Avg	in)	STN	MSL	Dir	Avg	Max	(MJ/m²)	Sod	Bare	Max	Min	
1	86	59	72.9	64.2	0	7	99	53	76	0.00	28.34	29.71	SSE	14.4	36.4	25.27	68.4	70.9	77	64	
2	85	68	75.5	67.1	0	12	91	58	76	0.00	28.35	29.72	S	16.2	33.1	27.47	69.6	72.6	80	67	
3	91	66	77.9	67.3	0	14	94	40	73	0.00	28.40	29.77	SSE	11.1	27.0	27.59	70.8	75.4	85	67	
4	92	67	76.7	65.3	0	14	96	28	73	0.00	28.41	29.79	SE	11.0	32.7	22.69	71.2	75.9	85	69	
5	92	60	76.8	66.7	0	11	96	46	73	0.00	28.37	29.75	SSE	10.9	28.4	28.28	71.3	77.9	90	67	
6	88	65	75.8	62.9	0	11	96	24	69	0.00	28.40	29.78	SSE	9.6	27.6	24.11	72.2	79.3	90	72	
7	66	55	61.8	52.9	5	0	87	54	73	0.00	28.64	30.03	N	14.1	30.8	8.69	69.7	71.1	75	67	
8	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00*	NA	NA	NNW*	NA	15.7*	NA	NA	NA	NA	NA	
9	80	48	64.6	46.0	1	0	92	21	57	0.00	28.64	30.03	WNW	6.2	16.3	29.51	68.3	73.2	84	63	
10	84	49	66.8	47.6	0	2	90	23	56	0.00	28.52	29.90	SSE	8.7	25.0	29.04	68.4	74.4	84	65	
11	66	54	60.6	54.9	5	0	92	66	82	0.01	28.63	30.01	ESE	5.0	17.2	6.99	66.8	68.9	73	66	
12	73	55	62.5	54.1	1	0	95	48	76	0.01	28.81	30.20	NNE	8.9	20.6	19.57	66.8	69.1	76	64	
13	77	50	63.4	51.0	1	0	97	34	68	0.00	28.82	30.21	NNW	5.8	19.2	27.89	67.5	72.0	83	63	
14	79	53	66.1	52.5	0	1	95	32	65	0.00	28.74	30.13	SSE	4.2	16.9	24.48	68.4	74.3	83	66	
15	87	50	69.9	48.2	0	4	97	13	55	0.00	28.66	30.04	S	5.3	17.3	30.26	69.5	76.4	88	66	
16	90	52	72.1	49.8	0	6	96	19	54	0.00	28.64	30.02	S	5.2	17.2	30.01	70.6	78.7	89	68	
17	93	54	75.3	52.0	0	8	89	21	50	0.00	28.52	29.90	S	11.5	29.0	29.57	70.5	78.6	87	70	
18	91	65	78.2	52.7	0	13	67	24	44	0.00	28.40	29.77	SSE	17.9	41.6	28.45	70.6	79.1	86	73	
19	89	68	77.9	60.2	0	14	77	39	55	0.02	28.42	29.80	S	17.3	37.0	27.03	71.2	79.7	87	74	
20	77	60	67.7	54.9	0	3	86	42	65	0.07	28.74	30.13	NNW	8.1	23.3	14.05	70.7	75.3	79	71	
21	83	58	69.1	51.6	0	5	94	21	60	0.04	28.79	30.18	ESE	4.7	13.6	30.26	71.7	77.6	89	69	
22	89	55	72.5	54.9	0	7	85	35	57	0.00	28.54	29.92	SSE	11.6	29.7	28.66	71.2	77.8	86	70	
23	94	69	81.3	59.6	0	17	73	29	51	0.00	28.16	29.53	SSE	20.8	44.3	28.43	72.1	79.9	87	73	
24	90	70	78.6	59.5	0	15	88	27	55	0.00	28.15	29.51	S	10.0	41.1	26.12	73.7	82.1	91	76	
25	93	69	81.1	68.4	0	16	95	45	68	0.00	28.37	29.74	SSE	15.2	37.2	25.79	74.3	82.2	89	76	
26	94	74	82.2	66.9	0	19	81	38	61	0.00	28.49	29.87	SSE	16.3	34.3	21.60	75.2	82.5	88	78	
27	91	72	80.6	62.2	0	16	73	38	55	0.00	28.43	29.80	SSE	19.8	39.5	25.76	74.7	81.6	87	76	
28	94	64	79.9	51.1	0	14	85	13	43	0.00	28.42	29.80	S	7.8	24.6	30.37	75.4	83.7	93	76	
29	94	60	74.6	62.1	0	12	93	37	69	1.03	28.47	29.84	SE	7.8	29.4	25.77	75.4	82.1	93	75	
30	88	58	72.8	60.2	0	8	97	34	69	0.22	28.45	29.83	SSE	9.7	53.4	23.78	74.1	75.3	81	70	
31	78	55	66.4	52.8	0	1	97	34	66	0.01	28.57	29.95	N	14.0	35.7	29.65	72.9	70.5	75	66	
	86*	60*	72.7*	57.3*	<- Monthly Averages ->				28.51*	29.89*	SSE*	11.0*	53.4*	25.24*	71.1*	76.6*	85*	70*			

Temperature - Highest: 94*	Degree Days - Total HDD: 13*	Number of Days With:
Lowest: 48*	Total CDD: 249*	Tmax ≥ 90: 13*
Rainfall: Monthly Total: 1.41* in.	Humidity - Highest: 99*	Rainfall ≥ 0.01 inch: 8*
Greatest 24 Hr: 1.03* in.	Lowest: 13*	Tmax ≤ 32: 0*
		Rainfall ≥ 0.10 inch: 2*
		Tmin ≤ 32: 0*
		Avg Wind Speed ≥ 10 mph: 16*
		Tmin ≤ 0: 0*
		Max Wind Speed ≥ 30 mph: 13*

Since 2001 Lahoma Averaged 3.8 Days Equal to or Above 90 Degrees in May

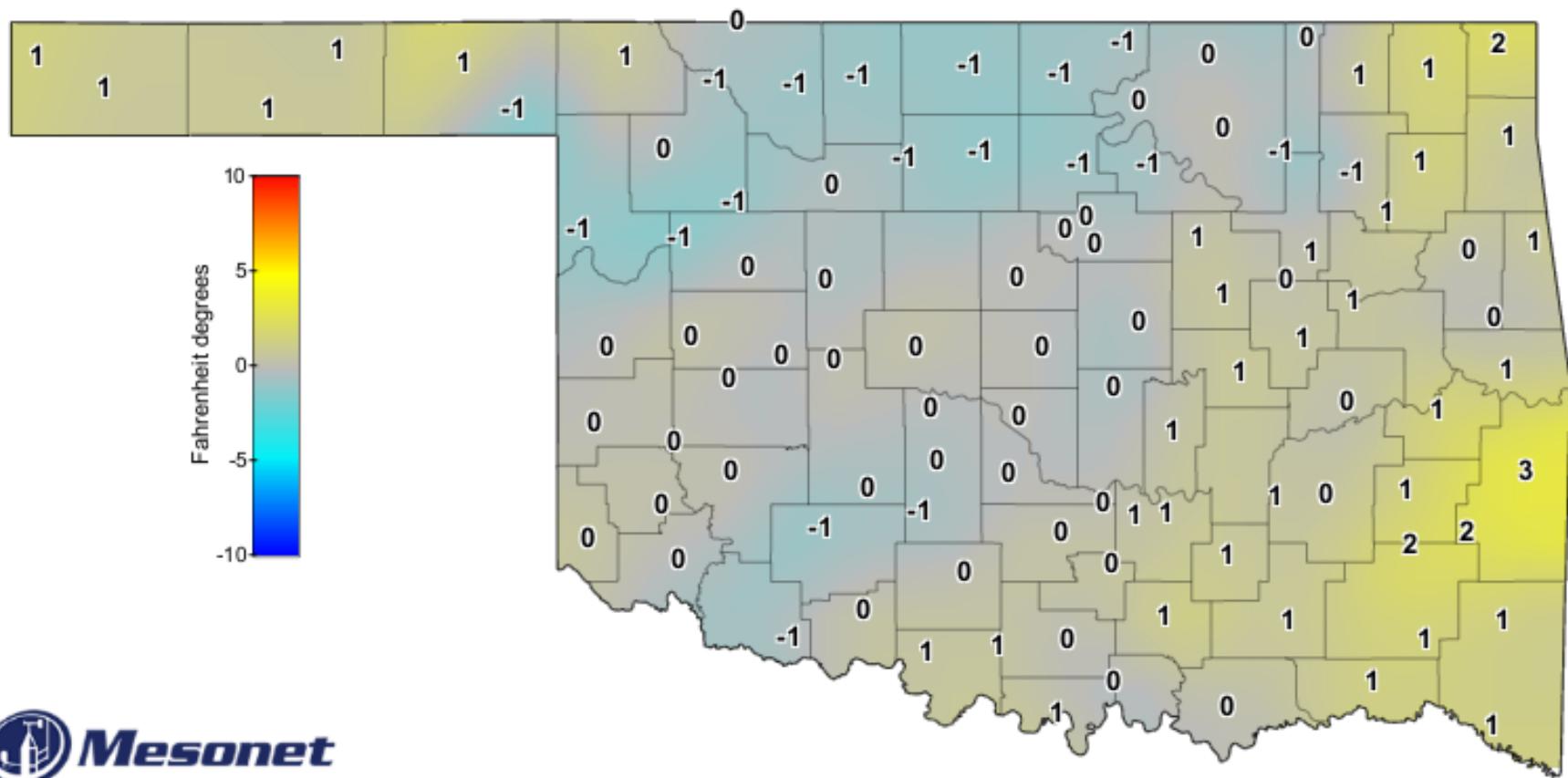
MESONET CLIMATOLOGICAL DATA SUMMARY <u>(ALTU)</u> Altus Latitude: 34-35-13							May 2012 Nearest City: 3.0 S Altus Longitude: 99-20-17					Time Zone: Midnight-Midnight CST County: Jackson Elevation: 1365 feet								
DAY	TEMPERATURE (°F)				DEG DAYS		HUMIDITY (%)			RAIN (in)	PRESSURE (in)		WIND DIR	SPEED AVG (mph)	SOLAR MAX (MJ/m²)	4" SOIL TEMPERATURES				
	MAX	MIN	AVG	DEWPT	HDD	CDD	MAX	MIN	AVG		STN	MSL				SOD	BARE	MAX	MIN	
1	95	62	78.0	60.3	0	13	95	27	60	0.00	28.29	29.73	SSE	19.8	39.7	28.33	73.9	75.4	82	69
2	101	67	81.8	63.1	0	19	91	22	58	0.00	28.29	29.74	SE	17.2	38.3	28.52	75.9	78.3	85	72
3	101	67	84.5	60.2	0	19	89	13	51	0.00	28.35	29.79	S	15.7	36.1	27.29	77.2	79.8	86	74
4	101	73	83.9	59.5	0	22	72	12	48	0.00	28.36	29.80	S	16.8	43.2	22.27	77.3	80.1	85	77
5	106	66	86.2	54.0	0	21	85	6	45	0.00	28.29	29.73	SSE	14.9	35.7	29.63	77.6	80.5	87	74
6	91	66	80.2	57.5	0	14	79	20	50	0.00	28.34	29.79	NNW	14.6	43.2	21.29	78.0	80.0	83	76
7	76	64	68.0	54.1	0	5	77	44	62	0.00	28.54	29.99	NNE	15.8	33.8	17.57	76.3	76.8	80	75
8	72	52	63.8	39.6	3	0	69	27	42	0.00	28.63	30.09	NNE	9.4	22.4	9.59	72.8	72.2	75	70
9	84	45	66.6	35.9	0	0	80	13	39	0.00	28.59	30.04	NNW	6.3	16.7	30.63	72.1	72.3	80	65
10	86	50	70.1	42.2	0	3	71	16	40	0.00	28.45	29.89	SE	10.4	32.7	23.64	72.4	73.2	78	68
11	67	58	61.9	58.6	2	0	99	65	89	0.65	28.50	29.95	NE	11.4	30.7	9.44*	70.3	70.2	74	67
12	76	57	65.2	55.4	0	2	96	45	73	0.01	28.71	30.17	NNE	11.3	27.5	18.15	68.8	68.4	72	65
13	80	54	66.4	53.0	0	2	97	32	67	0.00	28.74	30.20	NNW	7.1	22.5	27.11	70.2	70.8	79	64
14	78	59	68.6	54.2	0	3	92	34	64	0.00	28.67	30.13	WNW	5.1	21.2	18.75	71.4	72.4	76	68
15	88	52	70.9	47.1	0	5	97	16	52	0.00	28.61	30.07	WNW	4.8	19.4	30.70	72.2	73.7	82	66
16	93	53	74.5	44.1	0	8	87	11	42	0.00	28.56	30.01	E	7.1	20.5	31.38	74.3	76.1	83	69
17	96	59	79.5	46.8	0	13	77	13	38	0.00	28.46	29.90	SSE	13.4	31.3	30.89	75.2	77.5	84	71
18	95	64	80.1	51.7	0	14	68	21	40	0.00	28.33	29.78	SSE	20.6	41.8	30.00	74.8	77.9	83	73
19	96	66	80.0	59.4	0	16	83	26	52	0.38	28.35	29.79	SE	18.9	43.6	25.60	74.9	77.9	83	73
20	77	63	68.9	61.5	0	5	93	58	78	0.00	28.64	30.09	NE	11.8	24.8	15.62	73.2	74.3	79	71
21	78	63	68.3	63.4	0	5	98	59	85	0.47	28.70	30.16	ESE	5.8	19.9	16.24	71.7	72.5	77	69
22	94	64	77.9	58.6	0	14	91	24	57	0.00	28.45	29.90	SE	14.0	29.0	29.25	73.8	75.8	84	69
23	100	66	83.8	58.3	0	18	79	21	46	0.00	28.10	29.53	SSE	21.7	45.7	30.29	76.0	78.9	85	72
24	94	70	81.3	55.1	0	17	70	18	44	0.00	28.10	29.53	NW	12.5	33.0	29.11	78.3	81.2	88	76
25	100	72	86.0	66.9	0	21	89	31	57	0.00	28.28	29.72	SSE	19.2	37.8	27.57	79.5	82.3	88	77
26	100	75	85.8	62.0	0	23	79	20	49	0.00	28.42	29.86	SSE	19.5	37.1	26.66	80.0	83.0	88	79
27	94	74	83.3	61.5	0	19	71	31	49	0.00	28.36	29.81	SSE	22.4	41.9	27.01	78.5	82.1	86	78
28	100	69	83.3	57.0	0	19	76	12	47	0.00	28.36	29.80	SSE	9.5	29.3	31.01	80.4	83.9	91	78
29	102	64	82.7	61.9	0	18	89	23	55	0.00	28.37	29.81	SE	10.7	30.0	30.21	81.4	84.3	91	78
30	89	64	75.4	60.5	0	12	85	20	62	0.31	28.34	29.78	SE	21.0	53.5	17.40	78.8	81.1	85	76
31	83	61	72.0	53.7	0	7	87	28	56	0.00	28.47	29.92	NE	12.2	29.8	27.59	76.1	77.7	85	72
	90	63	76.1	55.4	<- Monthly Averages ->					28.44	29.89	SSE	13.6	53.5	24.80*	75.3	77.1	83	72	
Temperature - Highest: 106 Lowest: 45					Degree Days - Total HDD: 5 Total CDD: 358					Number of Days With: Tmax ≥ 90: 18 Tmax ≤ 32: 0					Rainfall ≥ 0.01 inch: 5 Rainfall ≥ 0.10 inch: 4					
Rainfall: Monthly Total: 1.92 in Snowfall: 0.00 in																				

Since 2001 Altus Averaged 9.8 Days Equal to or Above 90 Degrees In May



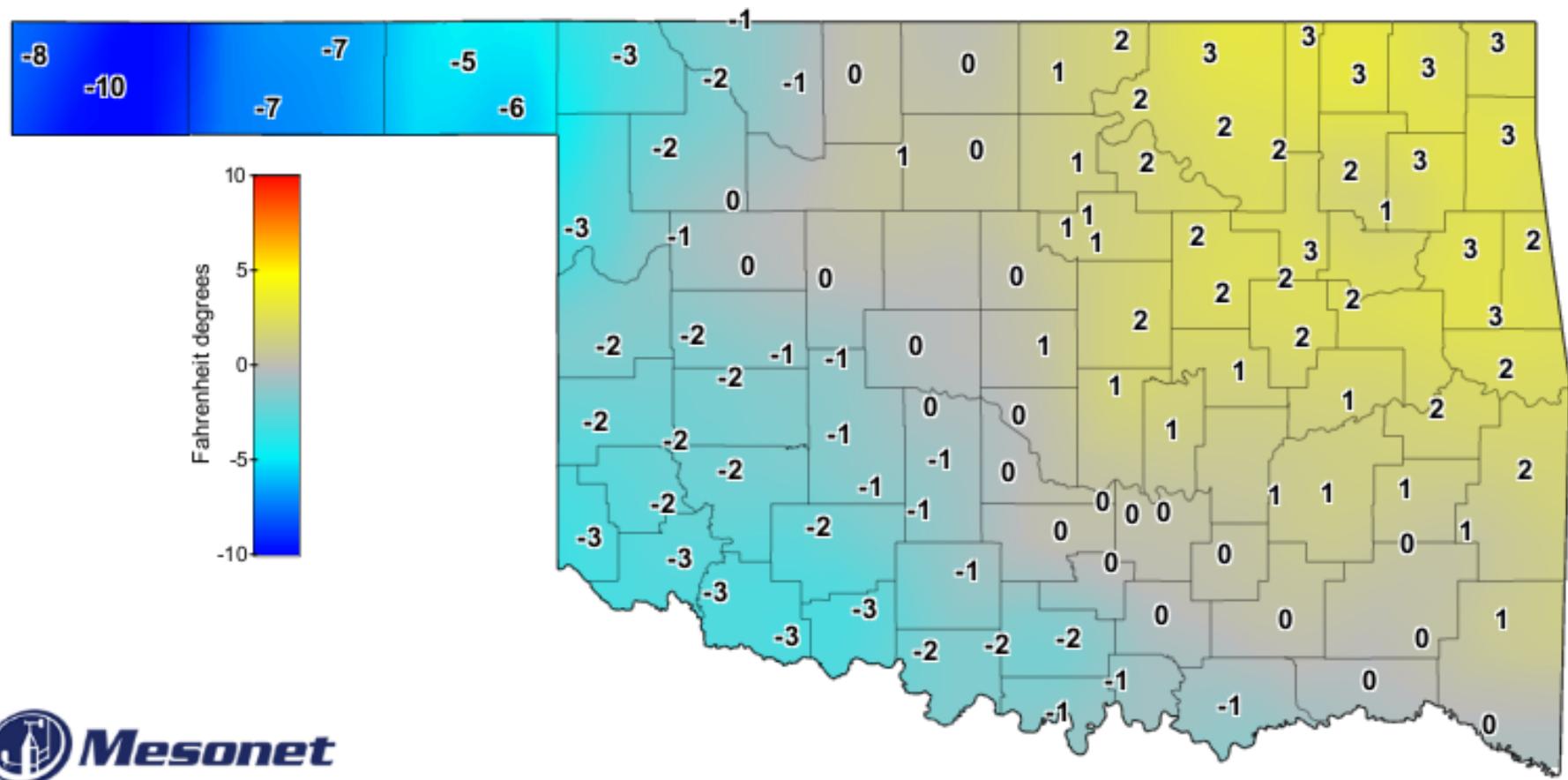
Average Maximum Air Temperature

Departure from Average, November 2011
Created 4:04:02 PM August 3, 2012 CDT. © Copyright 2012



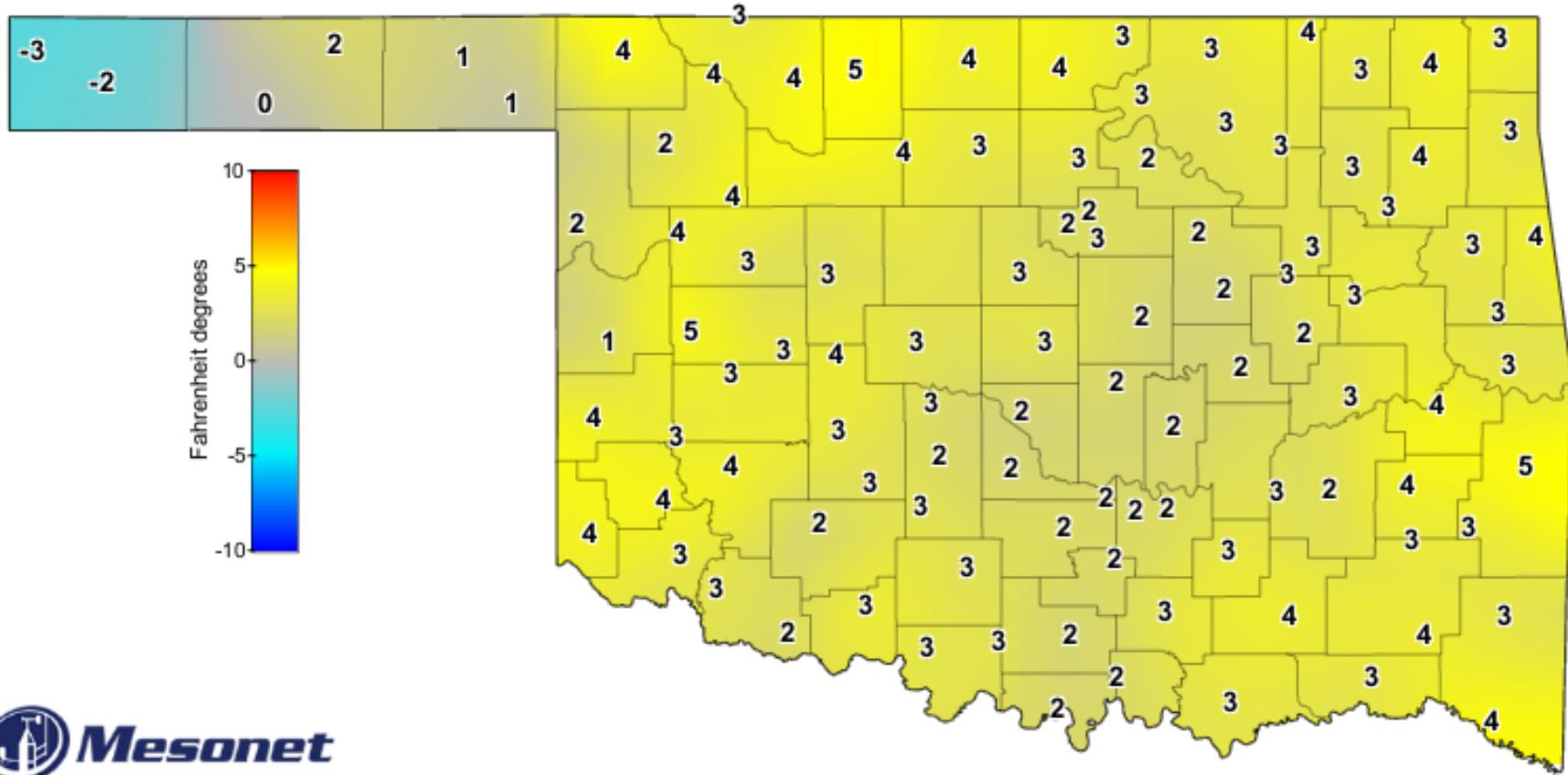
Average Minimum Air Temperature

Departure from Average, November 2011
Created 4:00:39 PM August 3, 2012 CDT. © Copyright 2012



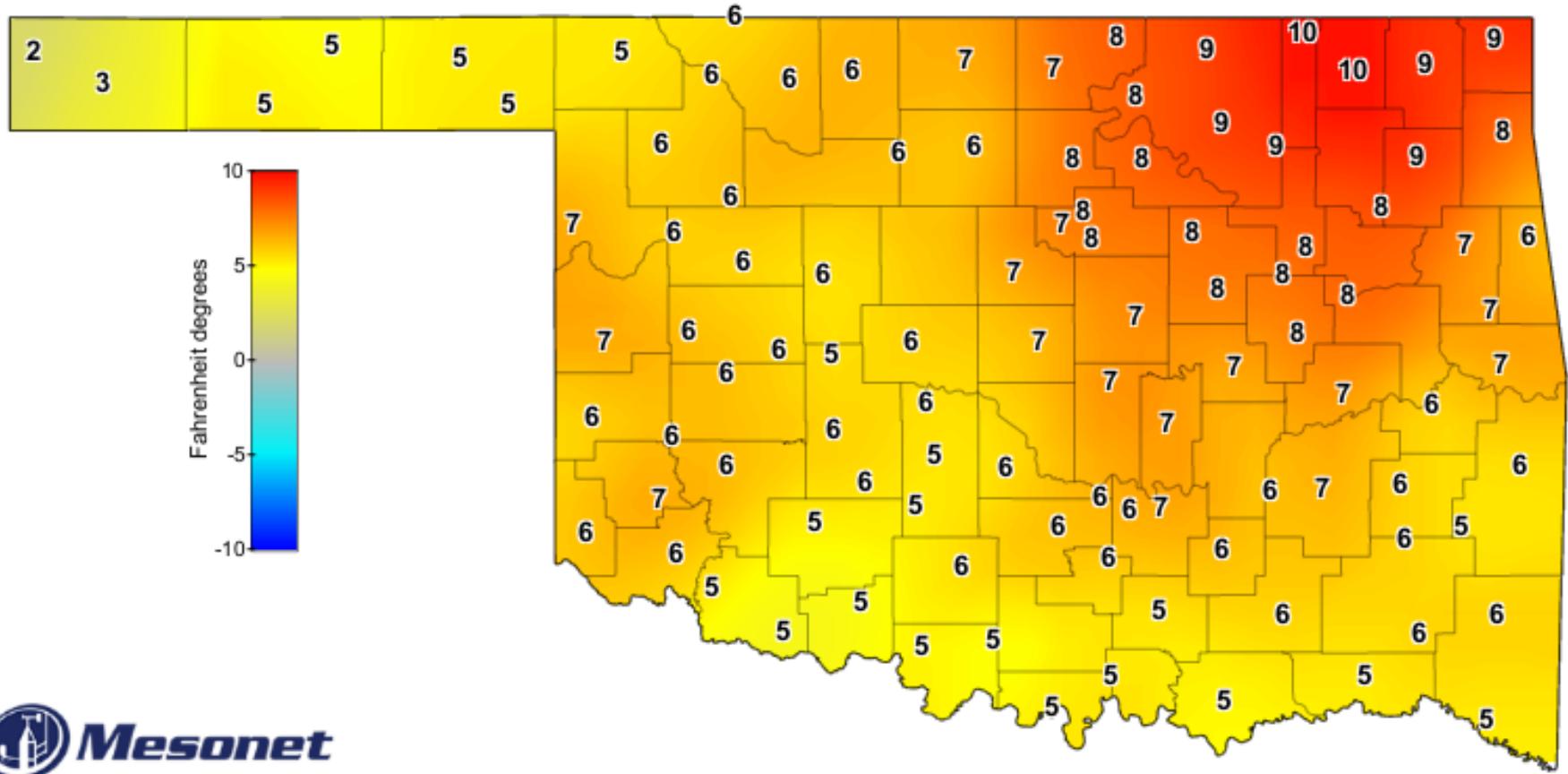
Average Maximum Air Temperature

Departure from Average, December 2011
Created 4:05:53 PM August 3, 2012 CDT. © Copyright 2012

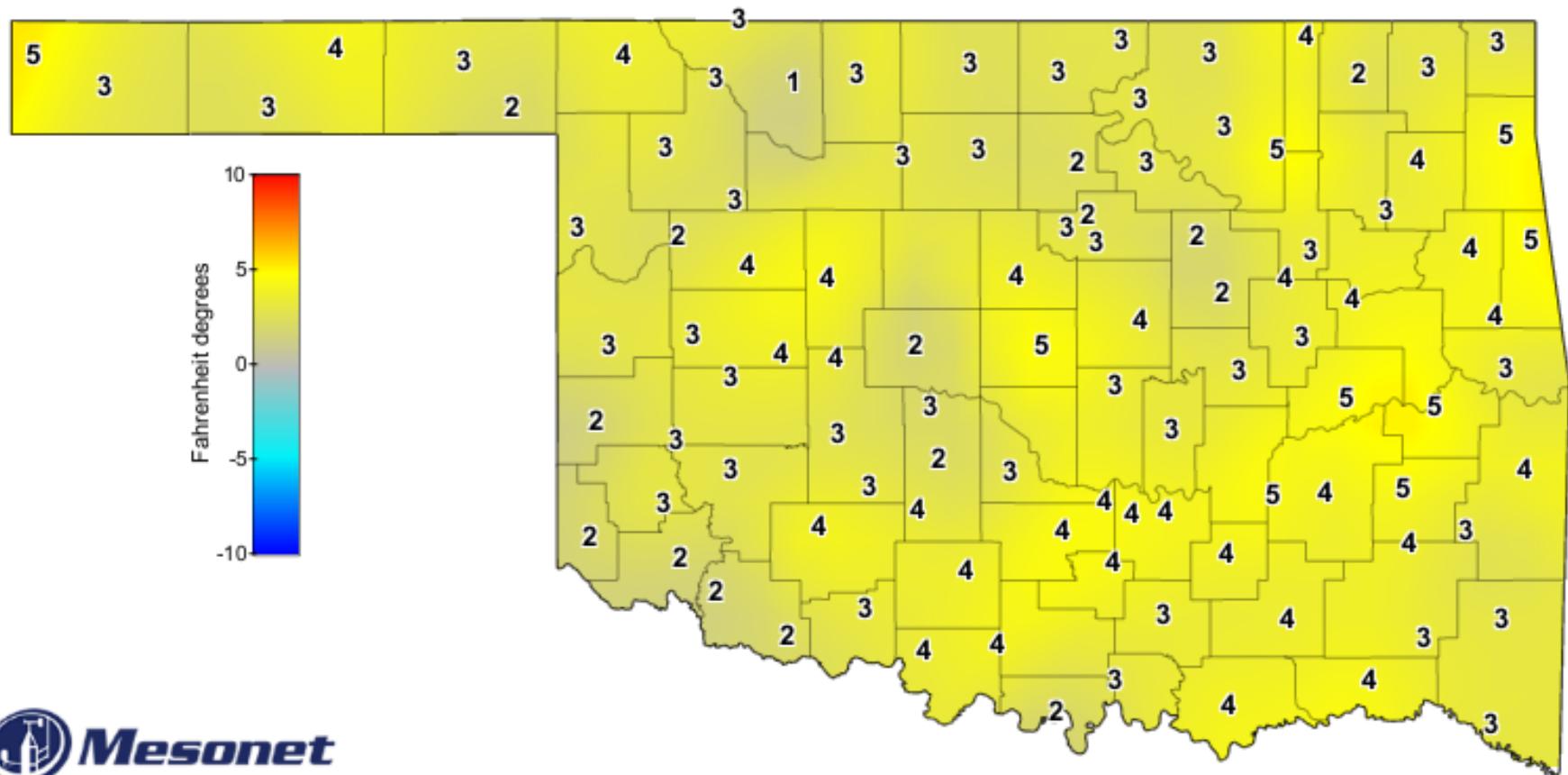


Average Minimum Air Temperature

Departure from Average, December 2011
Created 3:59:59 PM August 3, 2012 CDT. © Copyright 2012



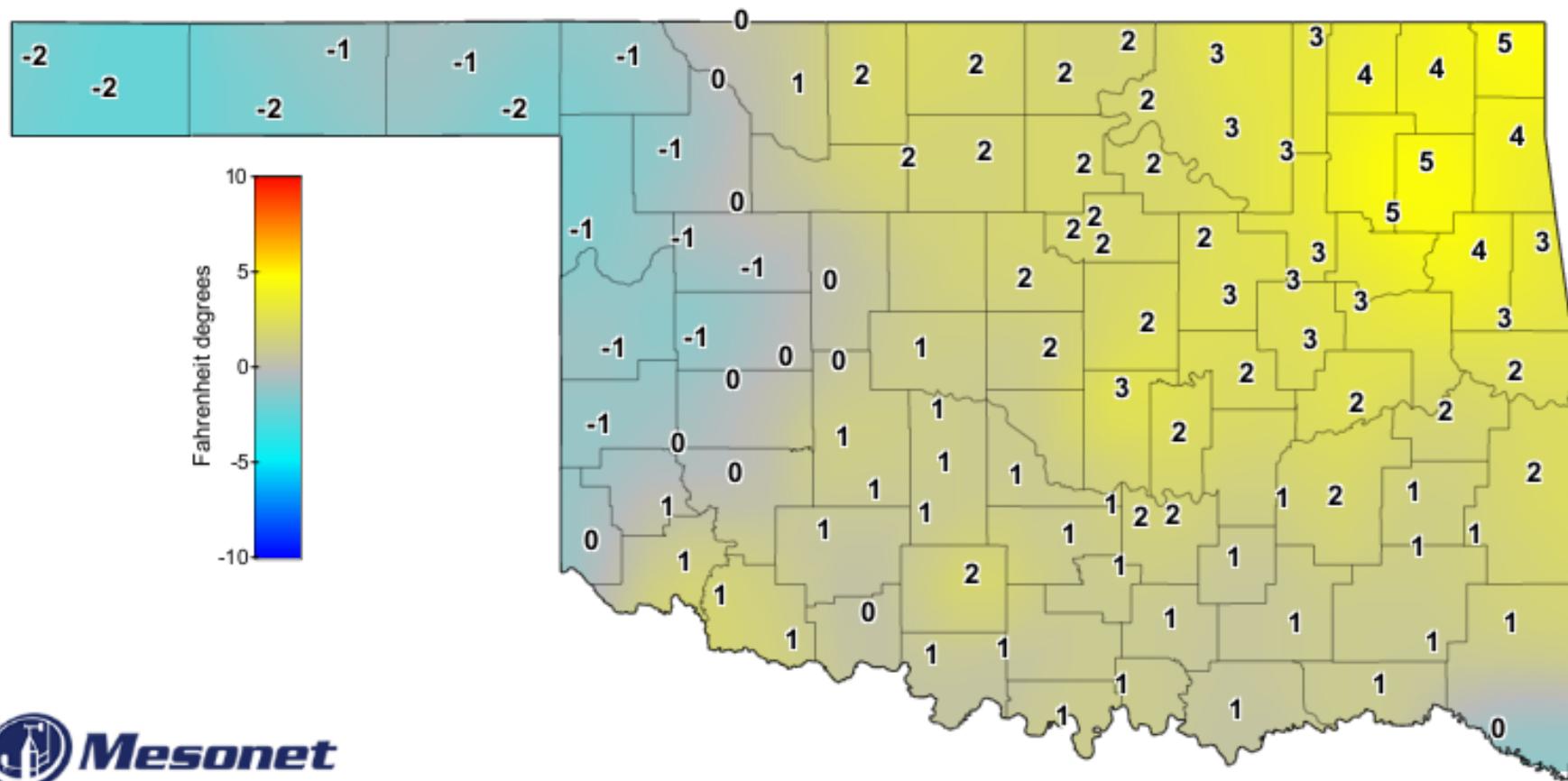
Average Maximum Air Temperature



Average Minimum Air Temperature

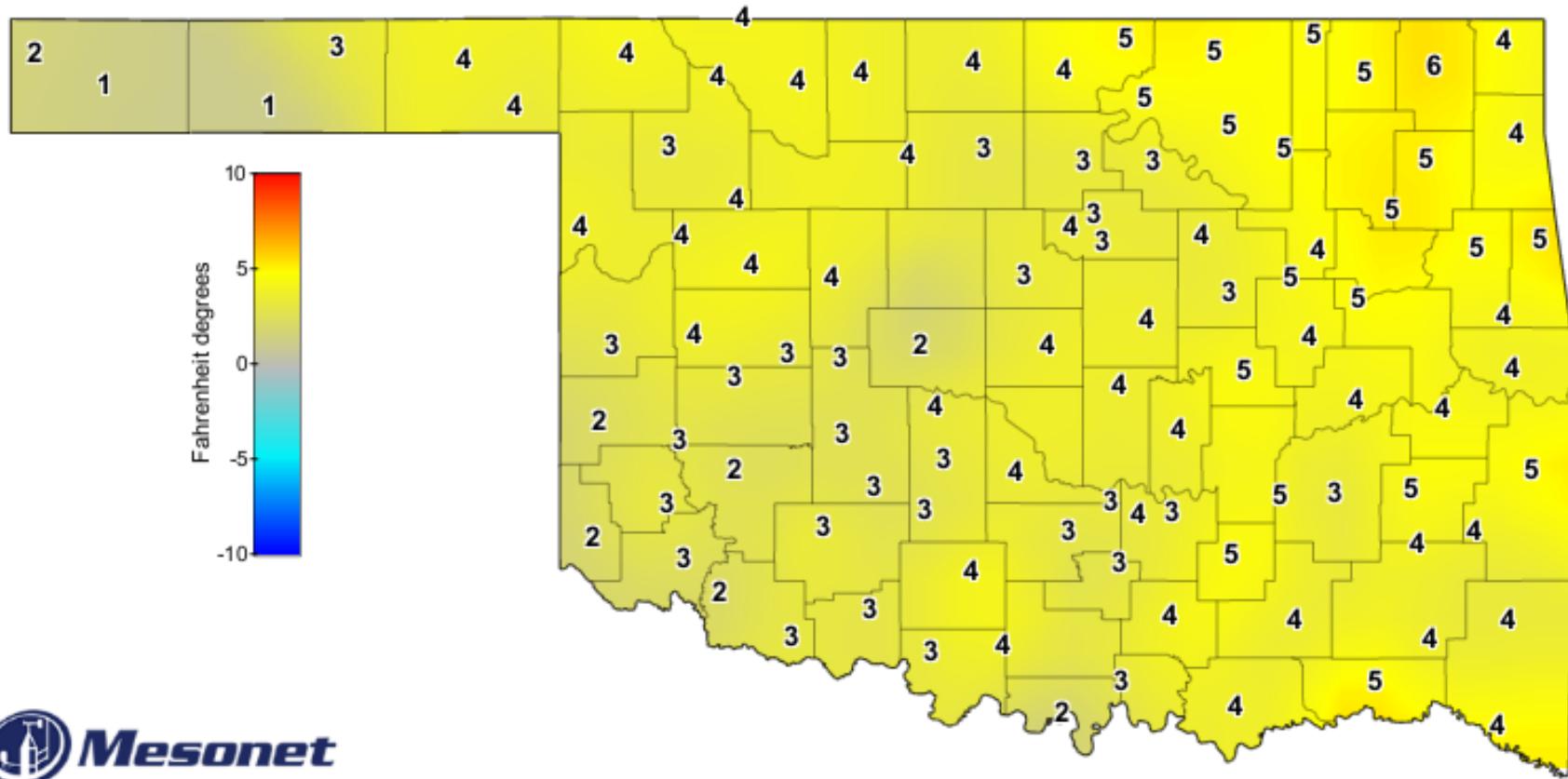
Departure from Average, January 2012

Created 3:59:27 PM August 3, 2012 CDT. © Copyright 2012



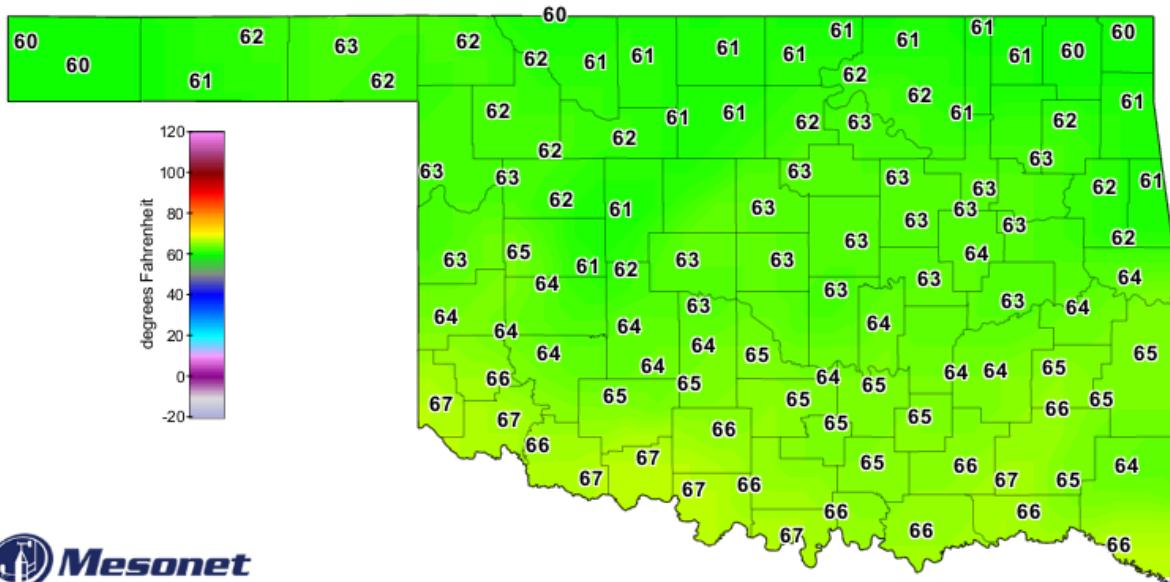
Average Maximum Air Temperature

Departure from Average, February 2012
Created 4:08:52 PM August 3, 2012 CDT. © Copyright 2012



Average Minimum Air Temperature

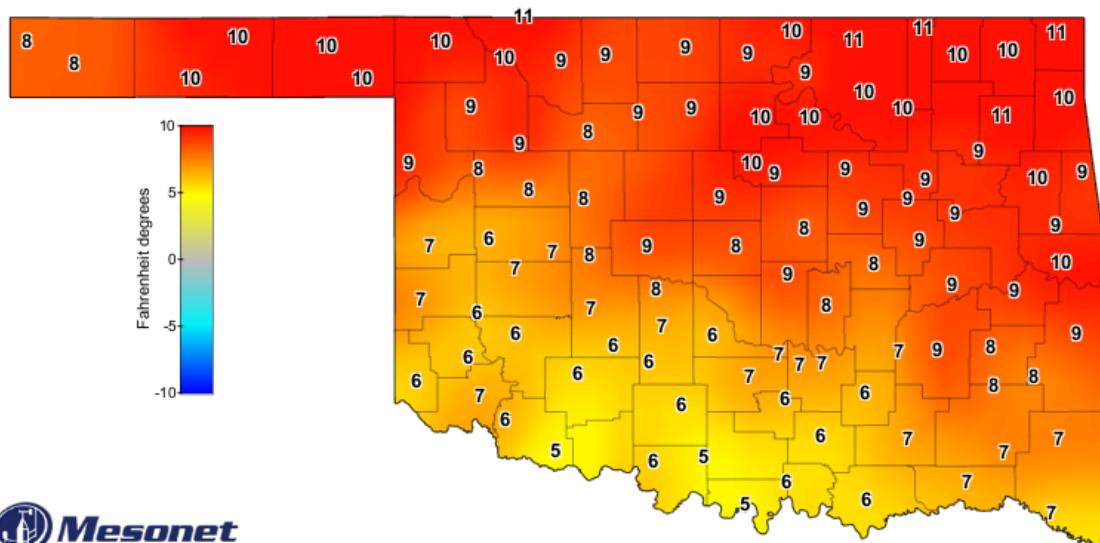
Departure from Average, February 2012
Created 3:58:42 PM August 3, 2012 CDT. © Copyright 2012



Average Maximum Air Temperature

March 2000-2011

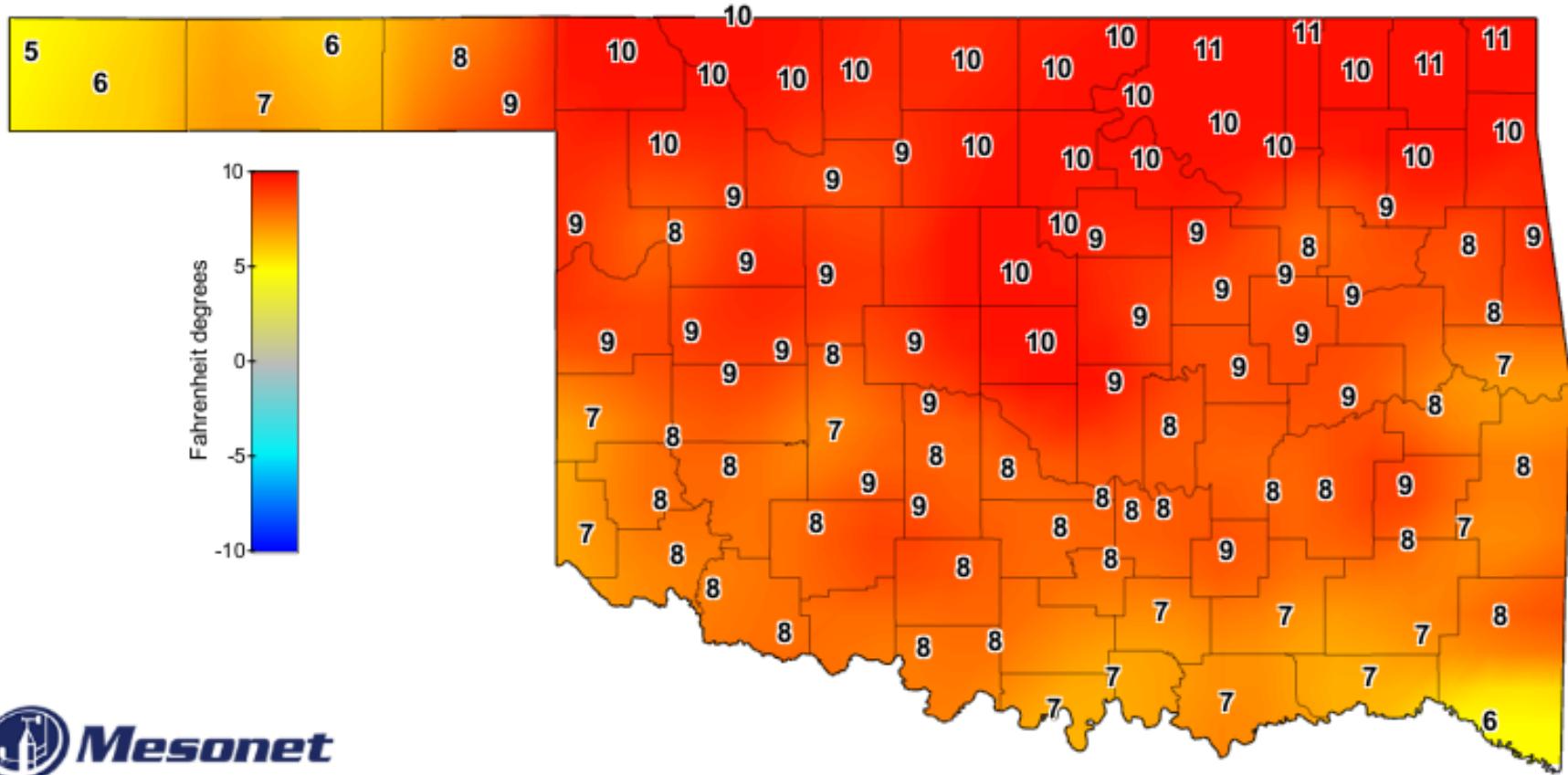
Created 2:02:33 PM August 6, 2012 CDT. © Copyright 2012



Average Maximum Air Temperature

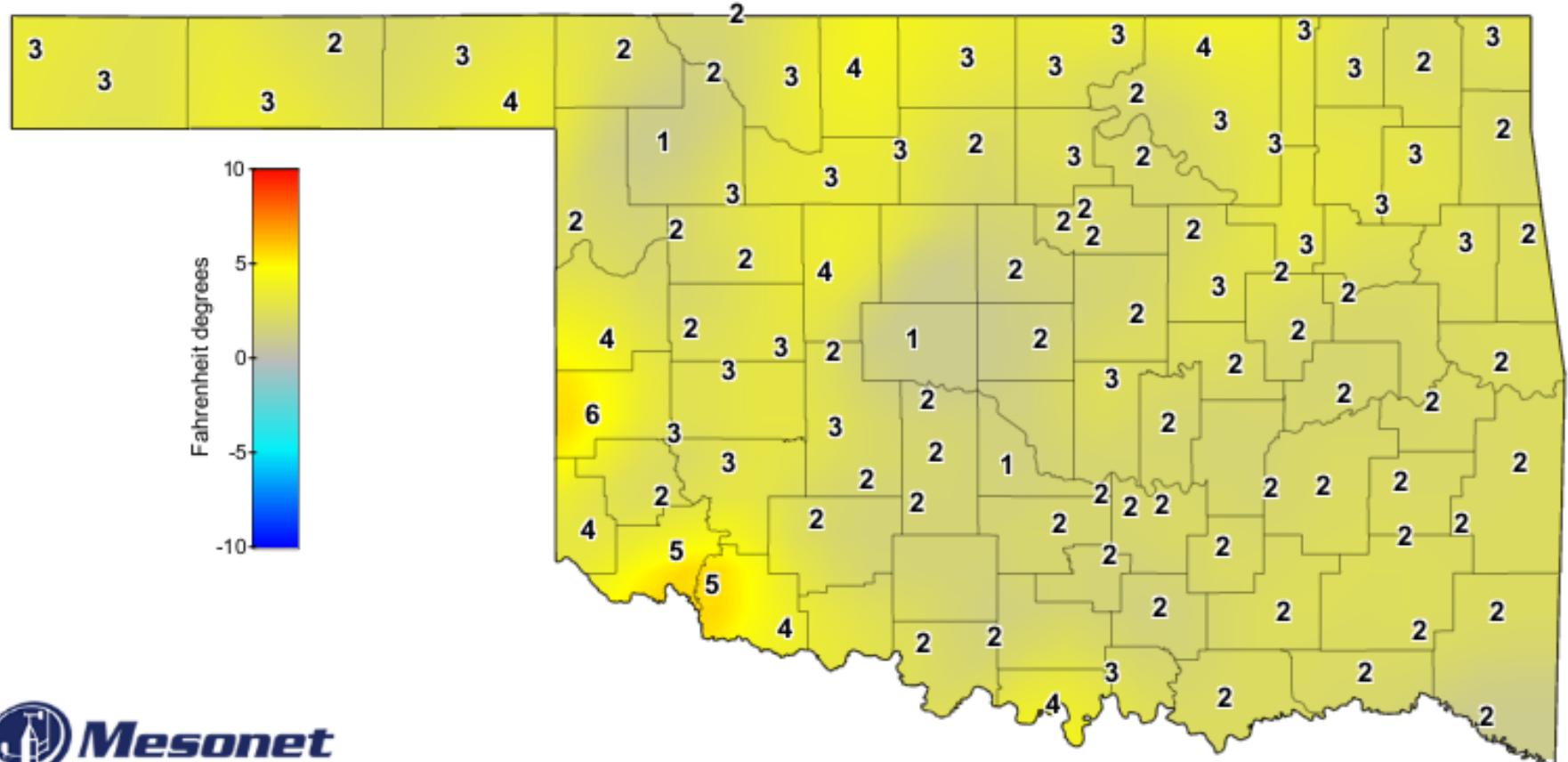
Departure from Average, March 2012

Created 3:46:03 PM August 3, 2012 CDT. © Copyright 2012



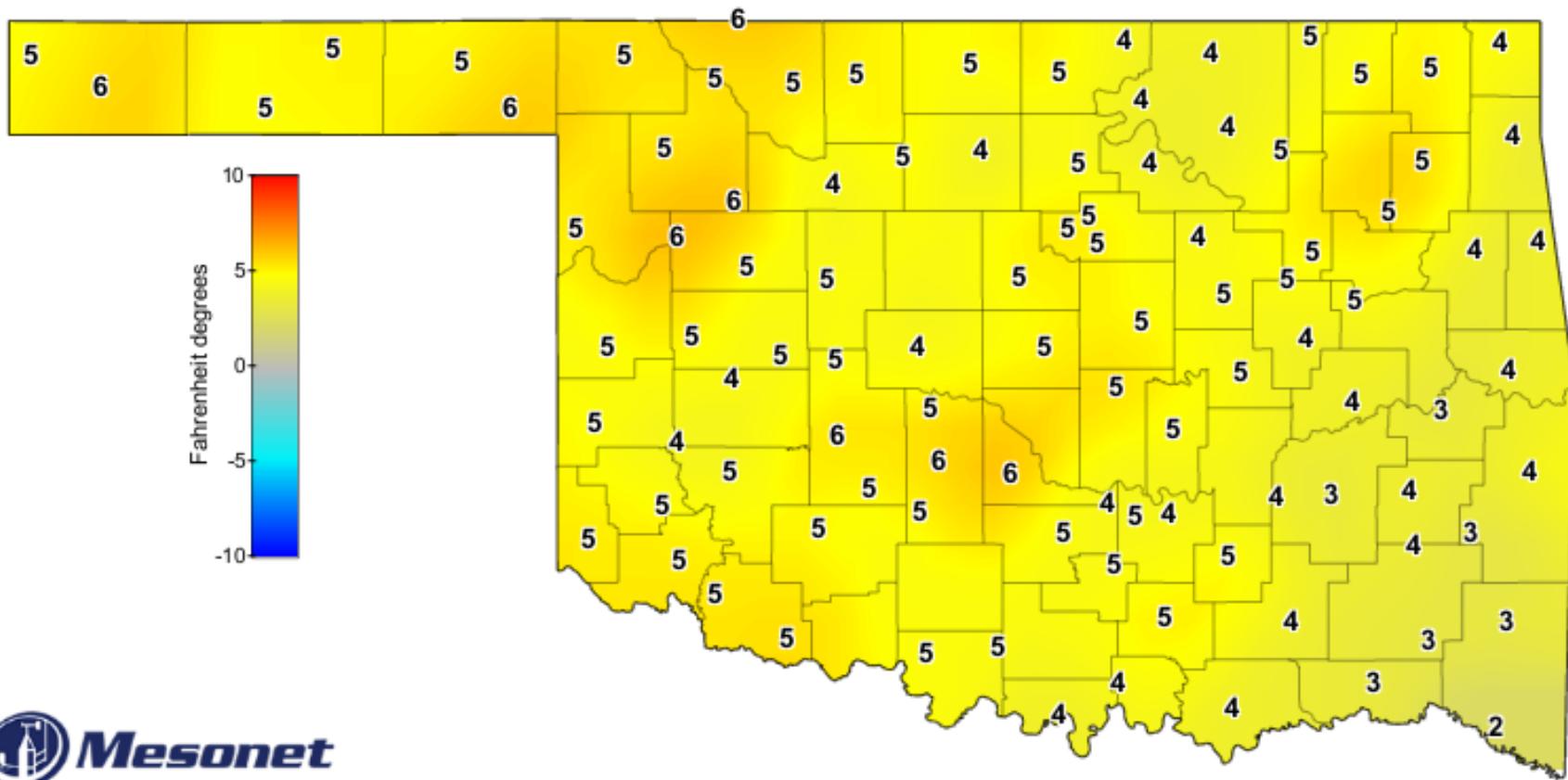
Average Minimum Air Temperature

Departure from Average, March 2012
Created 3:55:35 PM August 3, 2012 CDT. © Copyright 2012



Average Maximum Air Temperature

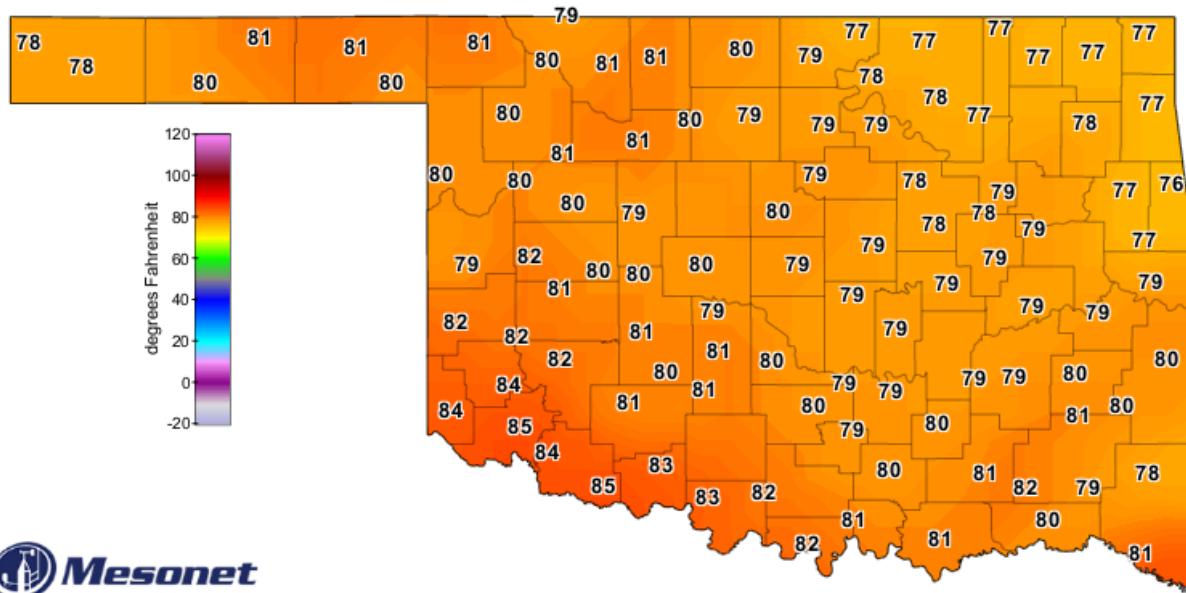
Departure from Average, April 2012
Created 3:47:11 PM August 3, 2012 CDT. © Copyright 2012



Average Minimum Air Temperature

Departure from Average, April 2012

Created 3:56:29 PM August 3, 2012 CDT. © Copyright 2012

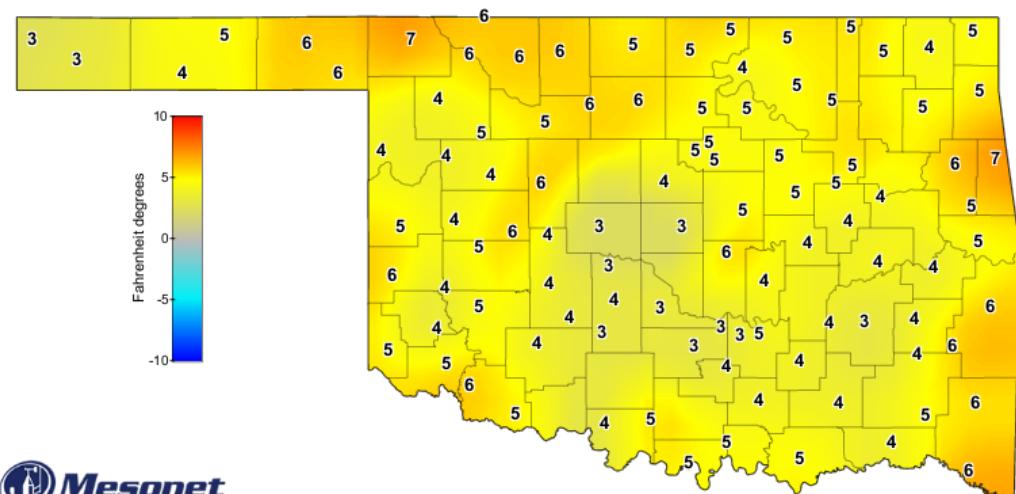


 Mesonet

Average Maximum Air Temperature

May 2000-2011

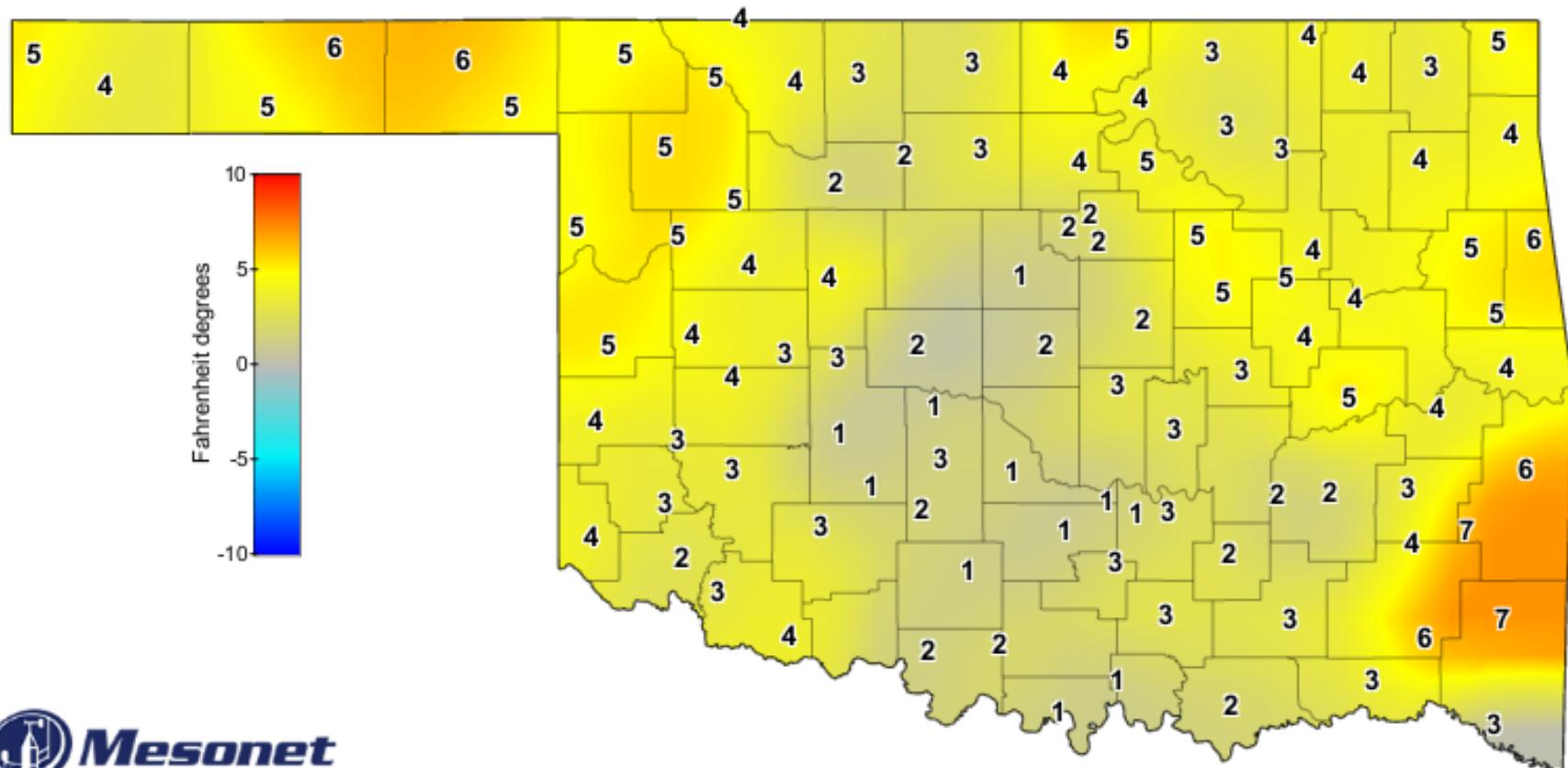
May 2000-2011



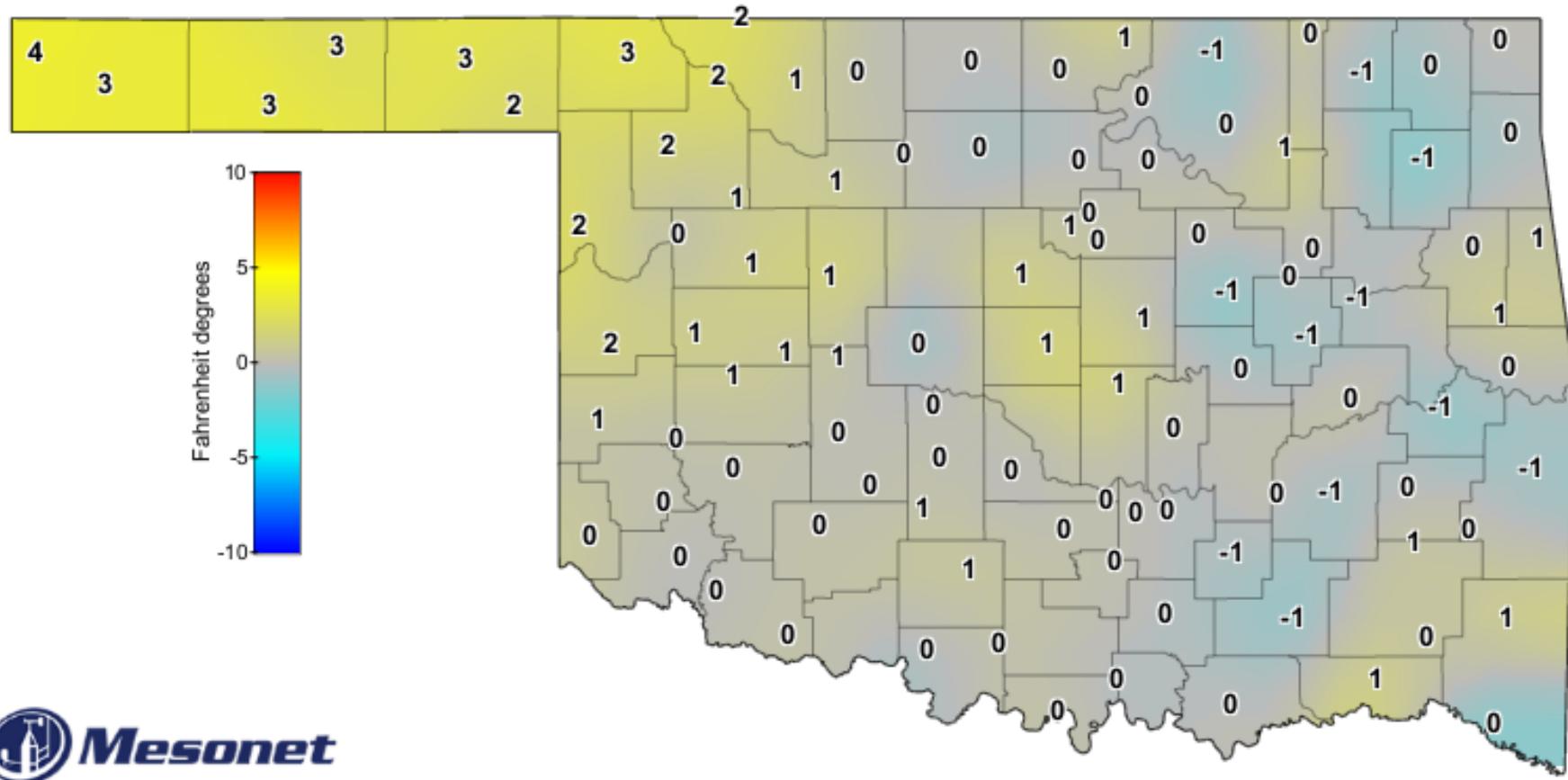

Mesonet

Average Maximum Air Temperature

Departure from Average, May 2012

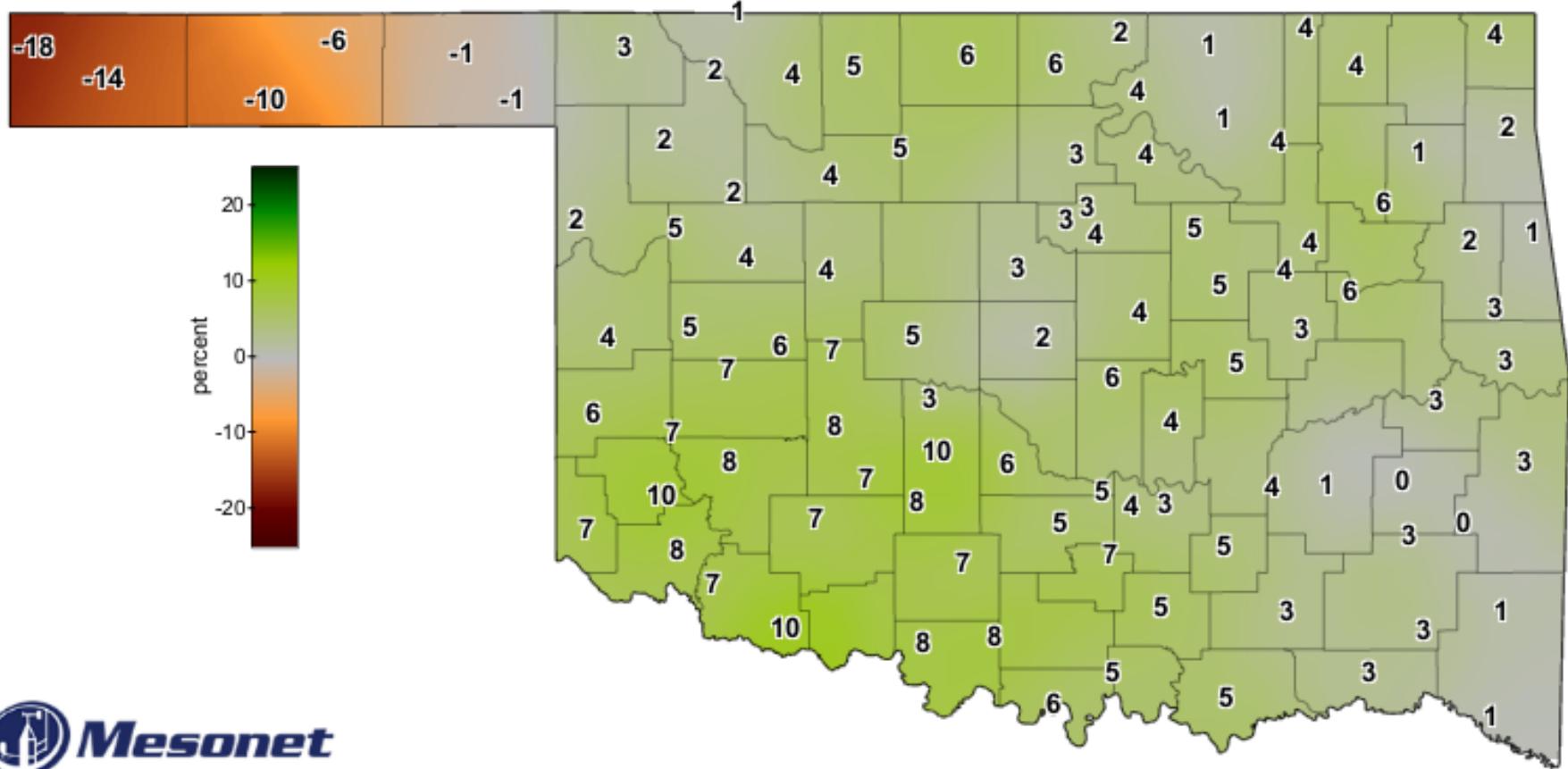


Average Maximum Air Temperature

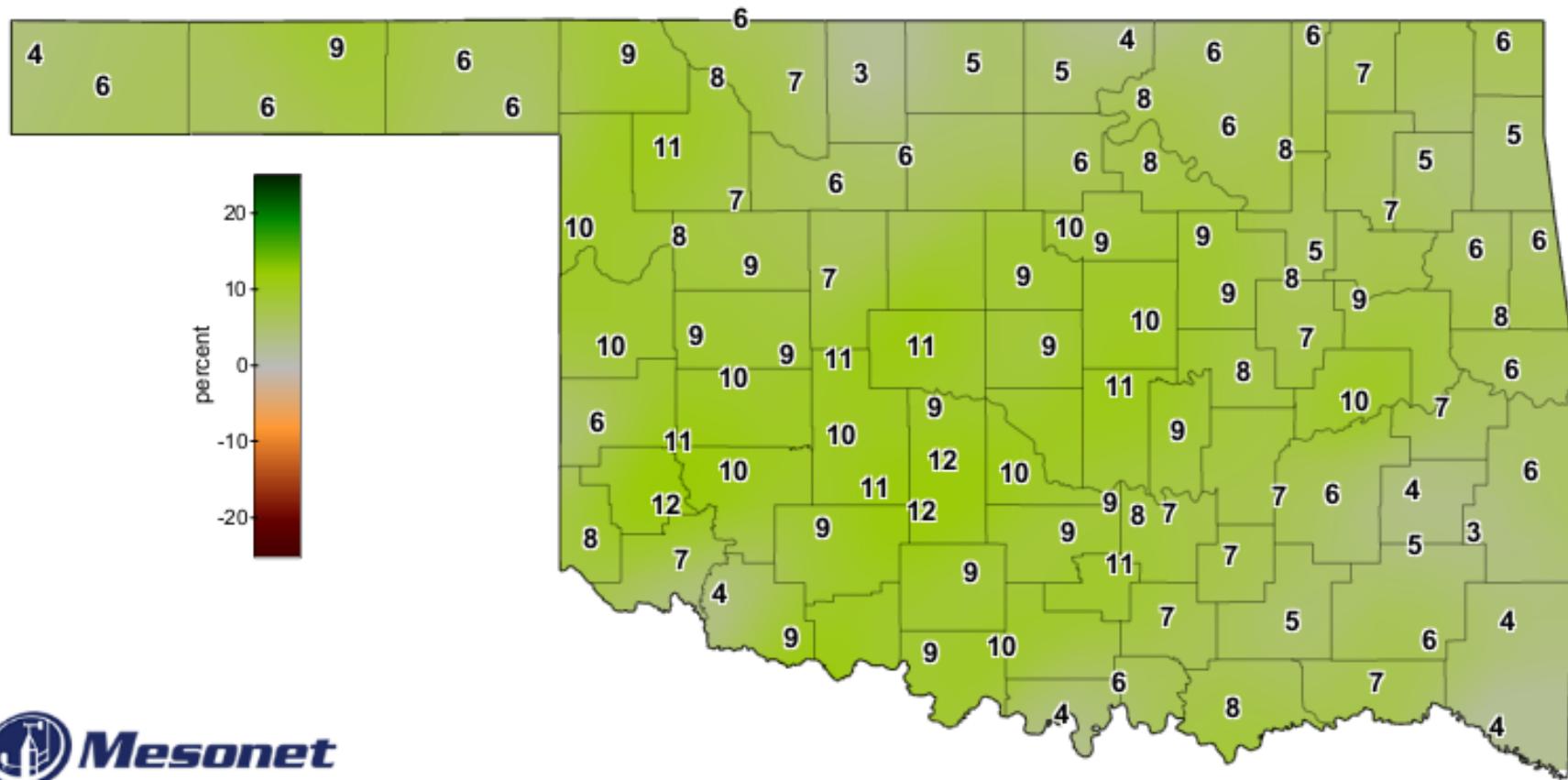


Average Minimum Air Temperature

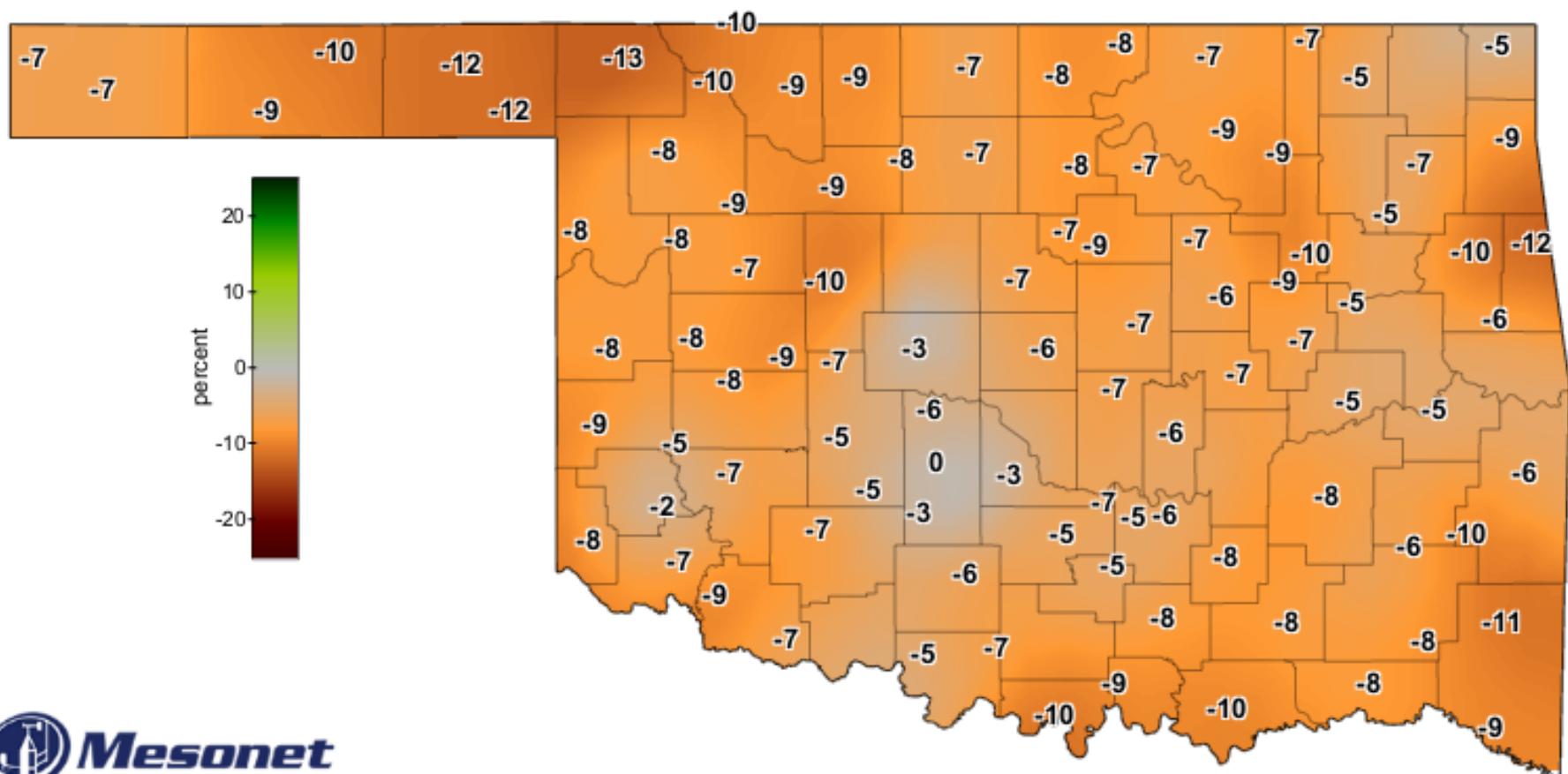
Departure from Average, June 2012
Created 3:58:02 PM August 3, 2012 CDT. © Copyright 2012



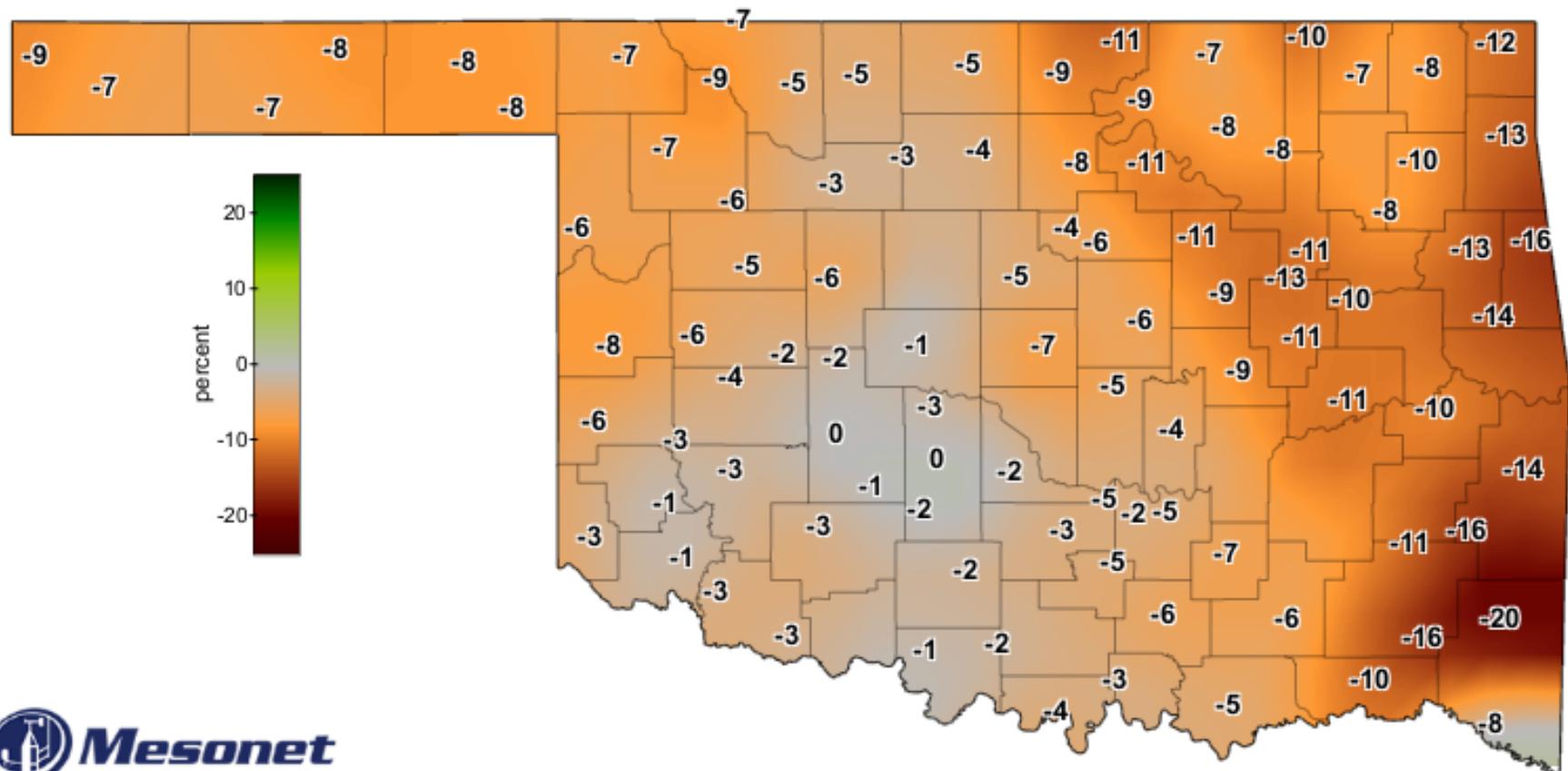
Average Relative Humidity



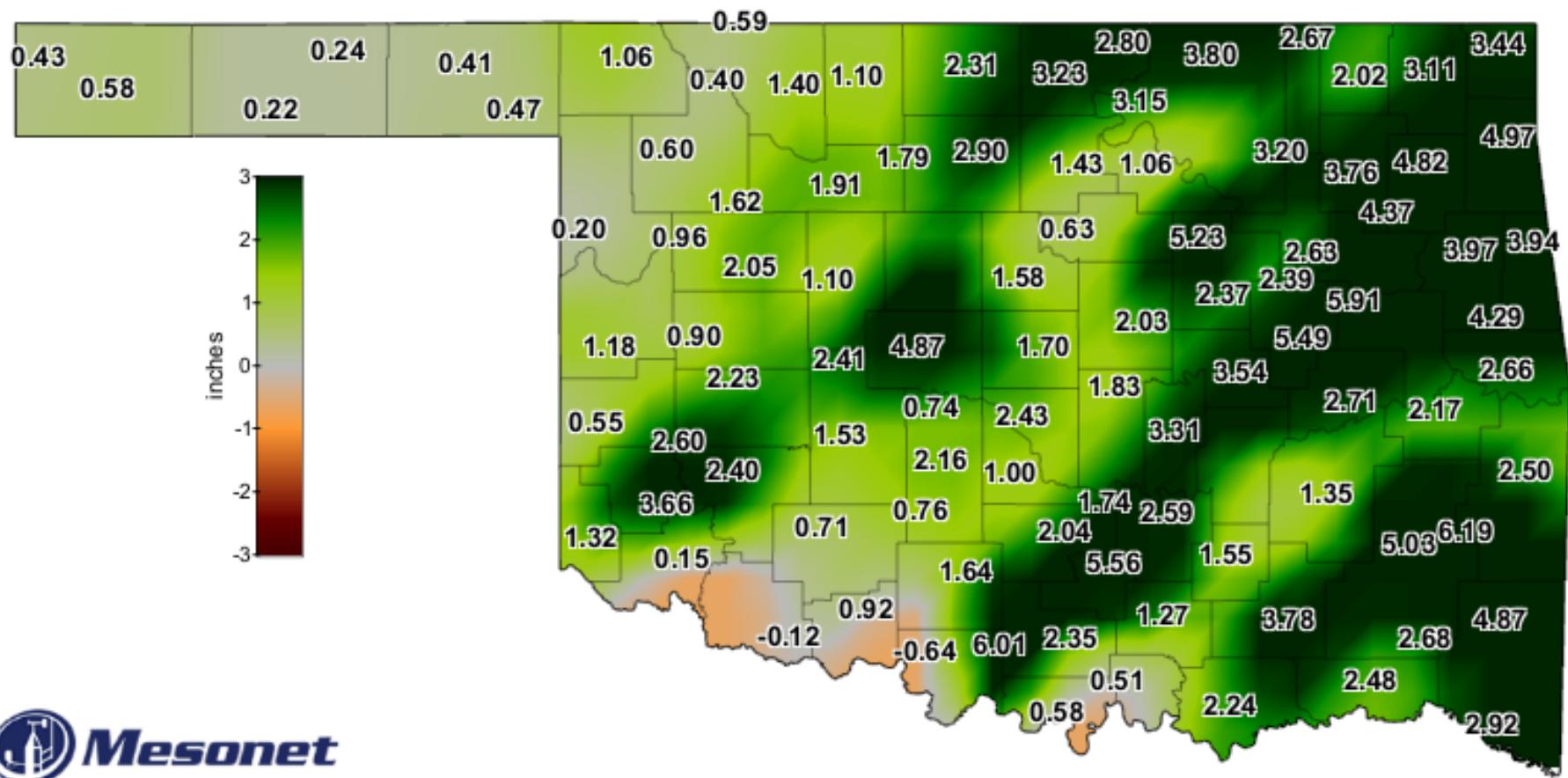
Average Relative Humidity



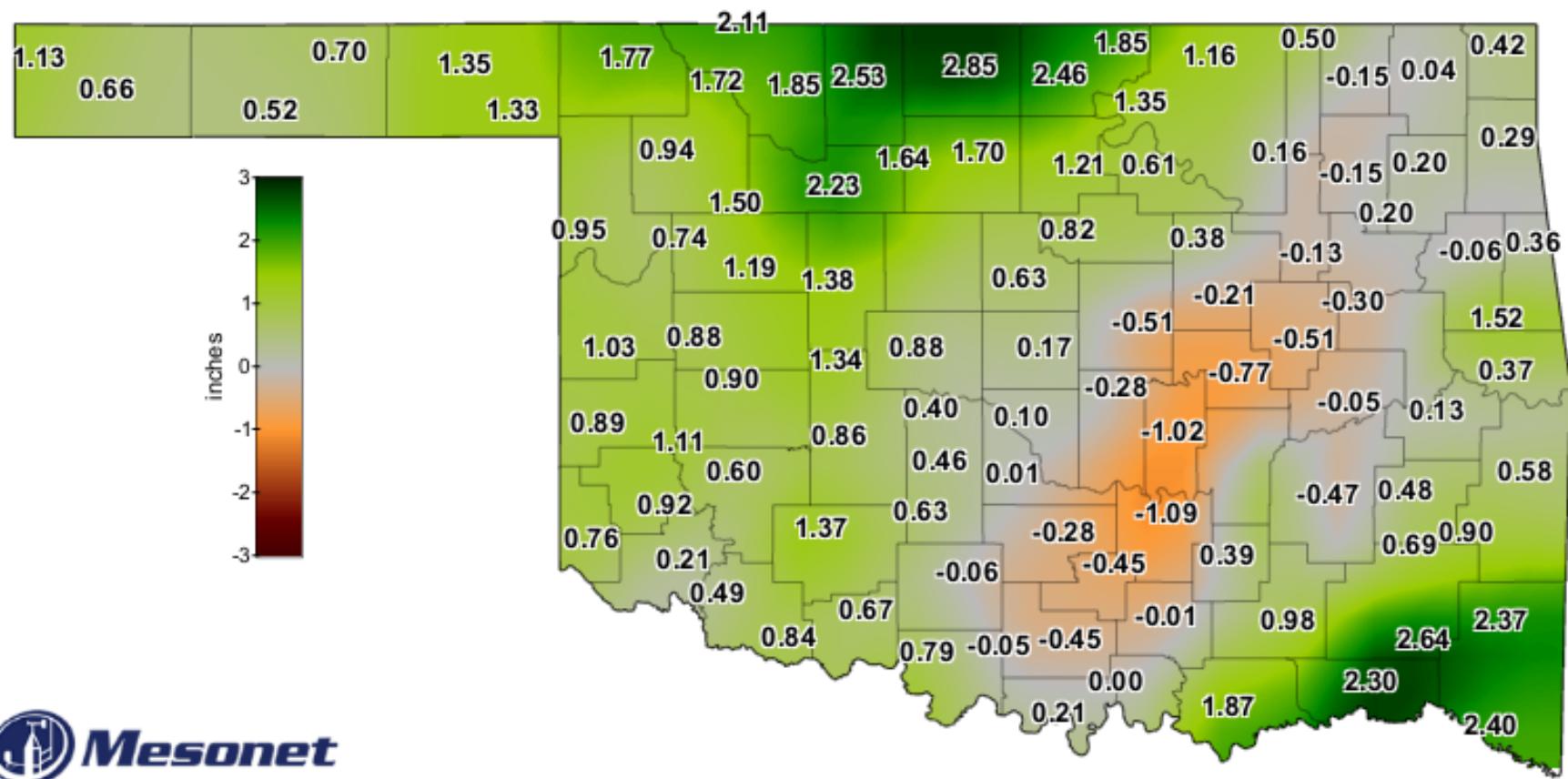
Average Relative Humidity



Average Relative Humidity



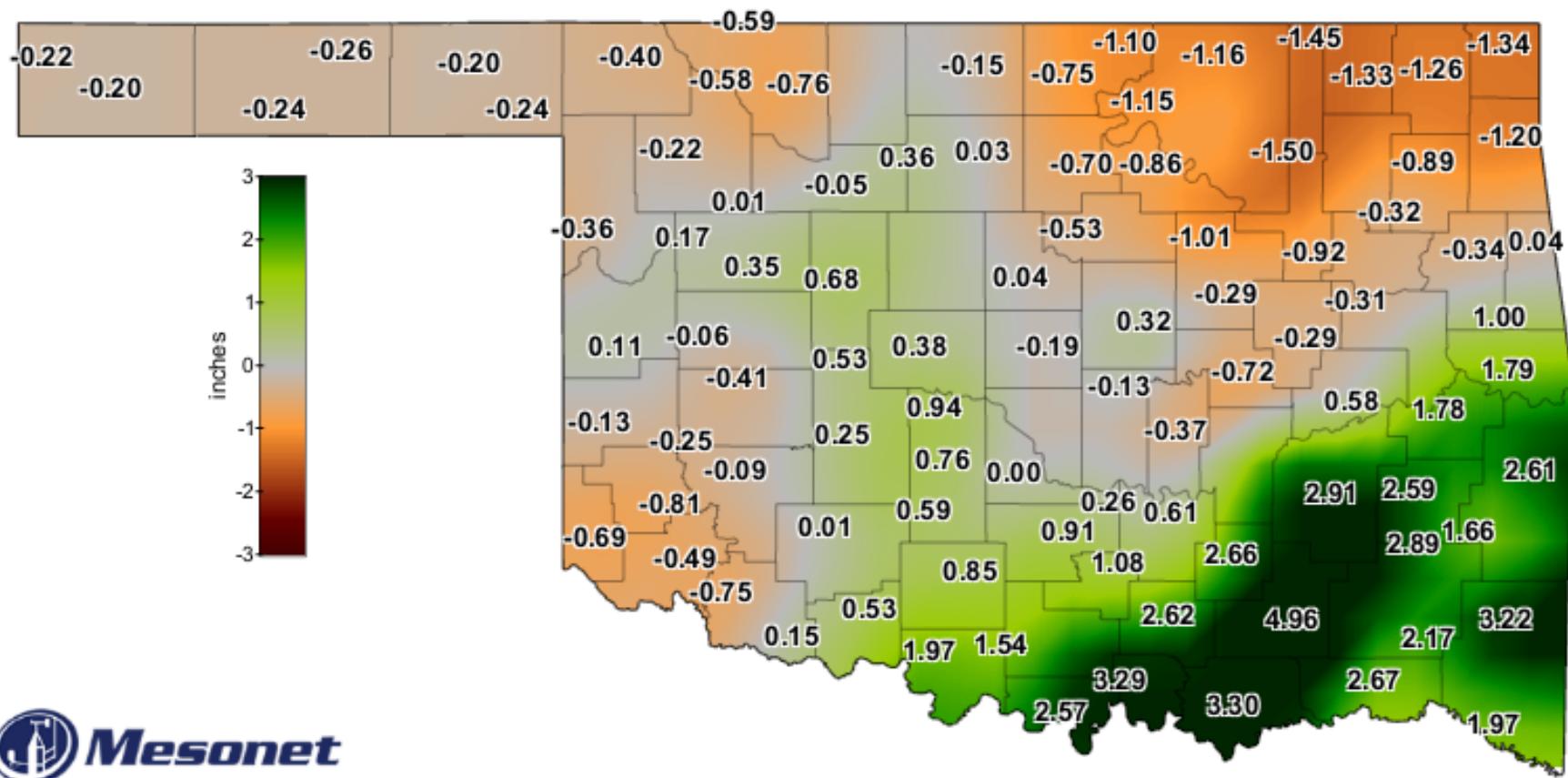
Departure from Average, November 2011
Created 5:11:57 PM August 3, 2012 CDT. © Copyright 2012



Total Rainfall

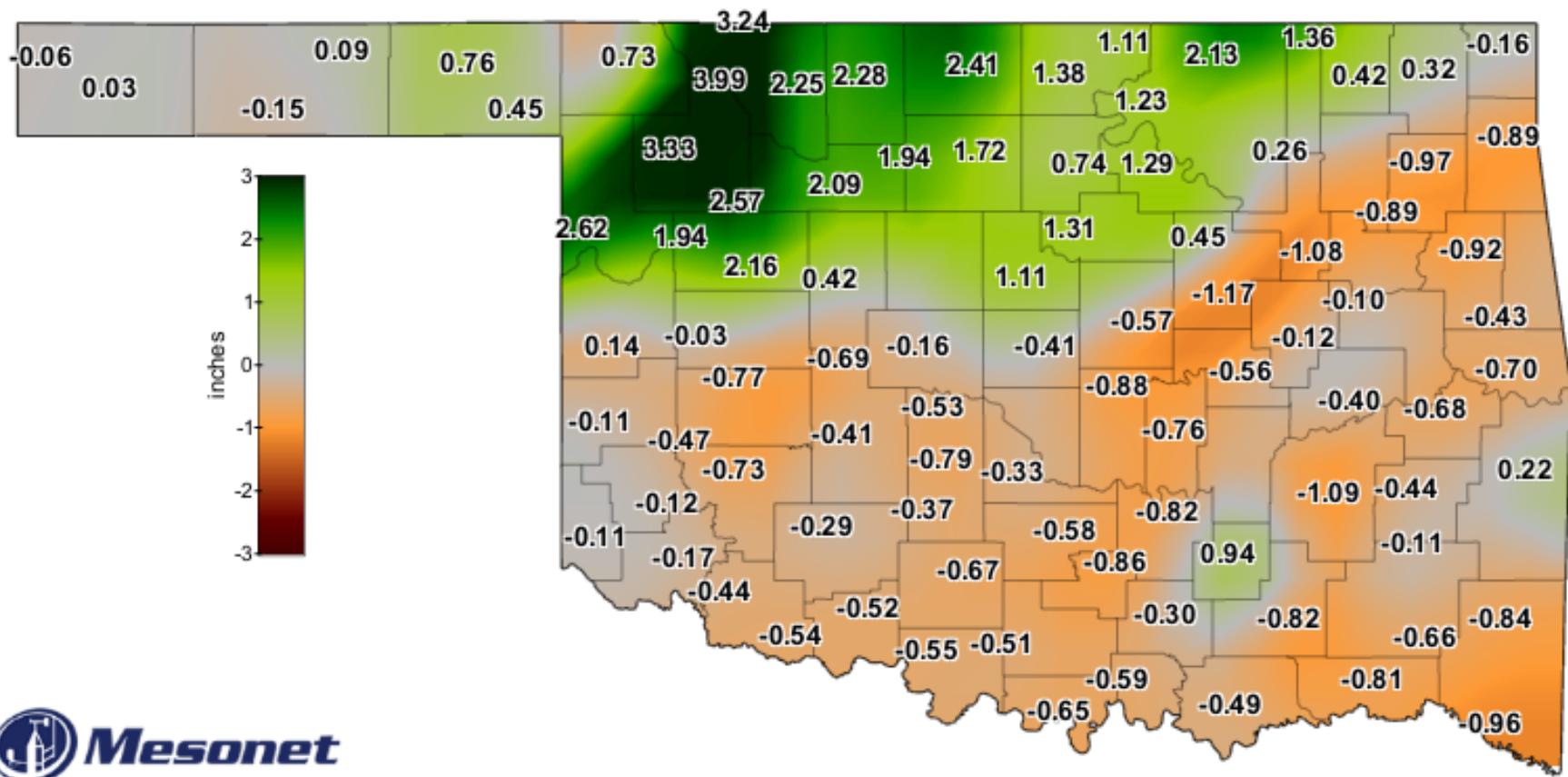
Departure from Average, December 2011

Created 5:12:54 PM August 3, 2012 CDT. © Copyright 2012



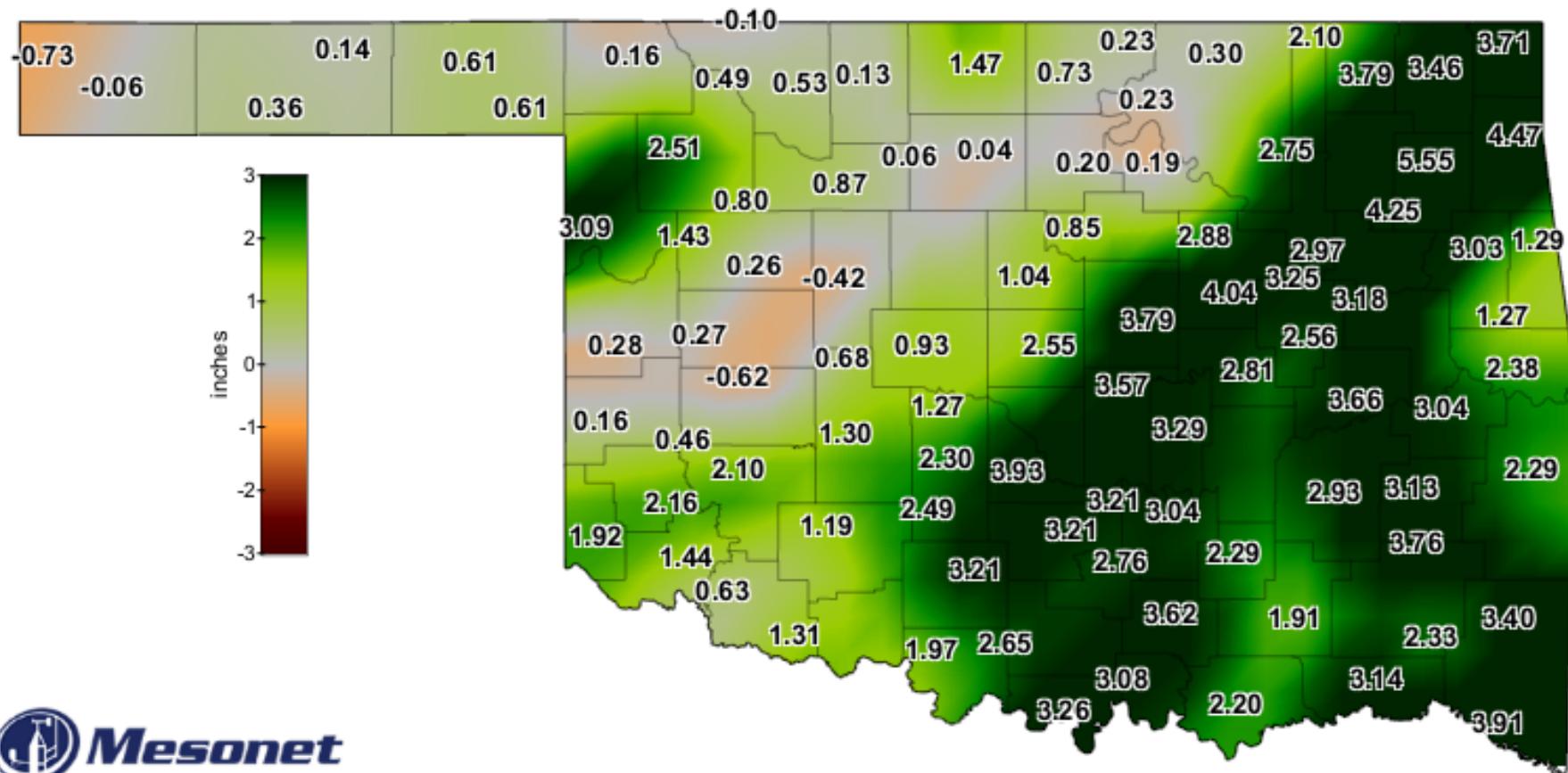
Total Rainfall

Departure from Average, January 2012
Created 5:14:09 PM August 3, 2012 CDT. © Copyright 2012



Total Rainfall

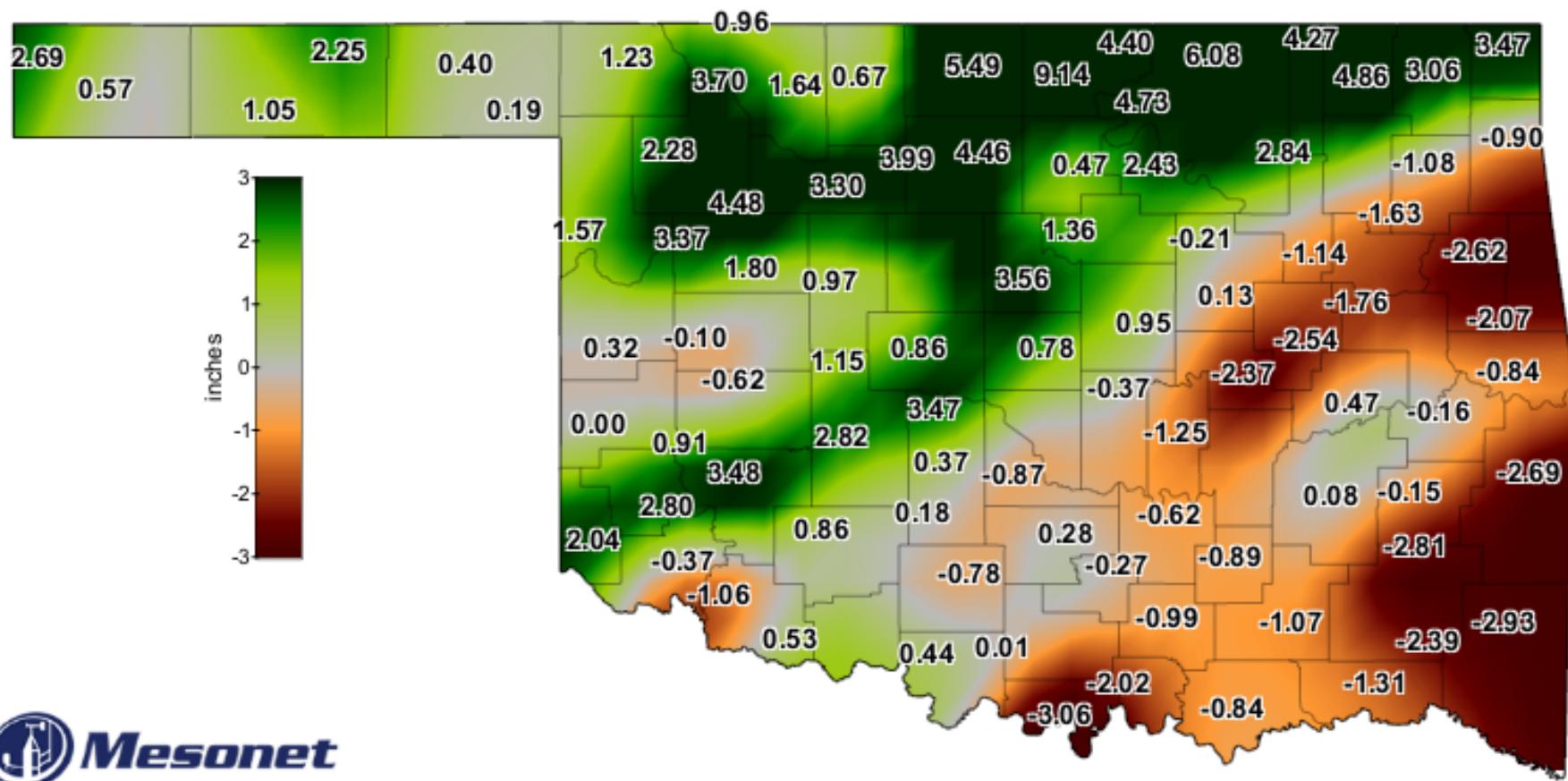
Departure from Average, February 2012



Total Rainfall

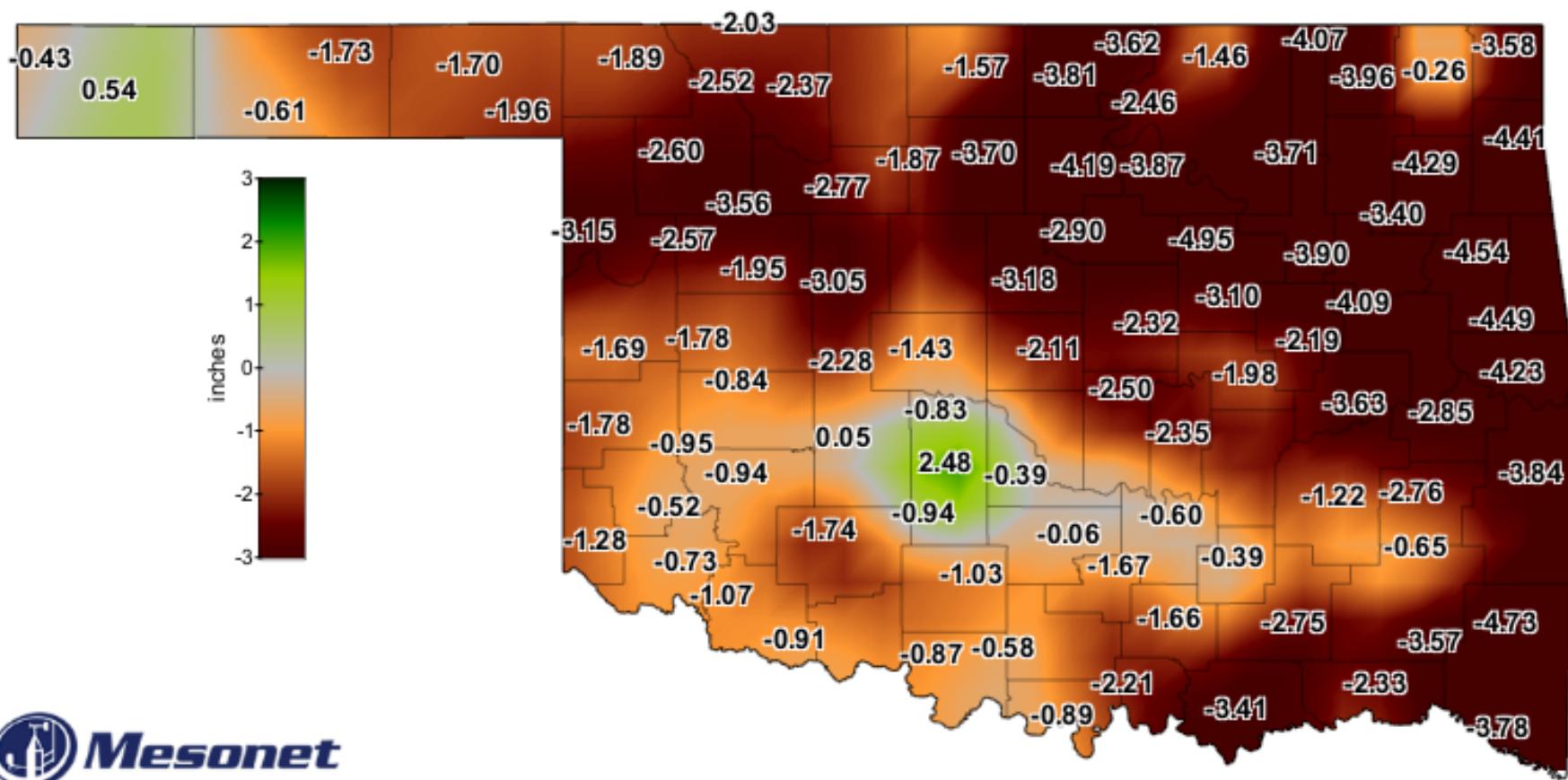
Departure from Average, March 2012

Created 3:44:45 PM August 3, 2012 CDT. © Copyright 2012



 Mesonet
Total Rainfall

Departure from Average, April 2012



Total Rainfall

Departure from Average, May 2012

Created 3:42:46 PM August 3, 2012 CDT. © Copyright 2012

2012 HRW Gulf Tributary Summary



- Crop was planted in powder dry soil.
- Crop emerged with abnormal moisture in late October and early November.
- Plants never really shutdown due to warm temperatures and timely rain, so excessive tillering and root development occurred. Ideal grazing conditions over the winter (too good!)
- Timely moisture continued throughout the winter and into early spring, but was never enough to replenish losses from the drought.
- Moisture deficits began in March and remained until harvest.

2012 HRW Gulf Tributary Summary



- Hot weather and wind in March, April and May made the situation worse as most plants had more tillers than they could support.
- Kernels started to shrivel and abort in May due to the dry conditions.
- The result was lower than desired TKW's and highly variable protein in many areas (although protein has been generally high).
- Generally kernels are small with high variability in kernel characteristics and protein (mosaic pattern) across the southern and central Plains.

Drought and Climate Impacts on Cotton Production Systems



John Zak
Department of Biological Sciences
Texas Tech University
&
South Central Climate Science Center

U.S. Cotton Crop Quality Estimates

For the week ending July 29 U.S. Crop Ratings were the lowest of the season.

Quality: Good to Excellent at 44% down 3 %
 Poor to Very Poor at 22% rising 4 %

Source: AJ Agricultural Page, 8/5/12

USDA Crop Rating for the week ending July 29

- Cotton rated Fair at 34%, down a point
- Cotton rated good to excellent was eight points below.
- Cotton rated poor to very poor rated 4 points above.

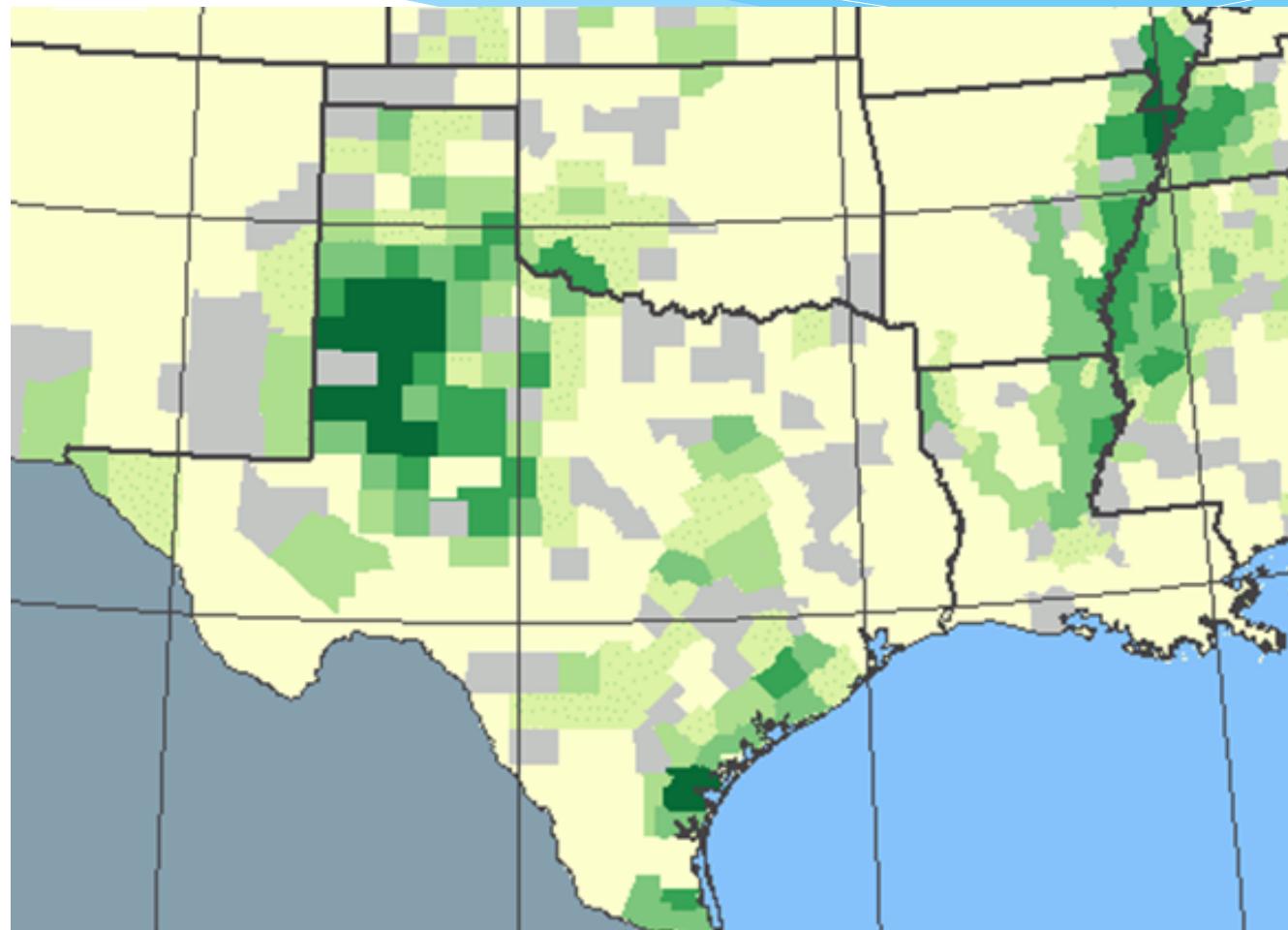
(Ratings for 2012 are compared with 10 year averages)

Source: AJ Agricultural Page, 8/5/12

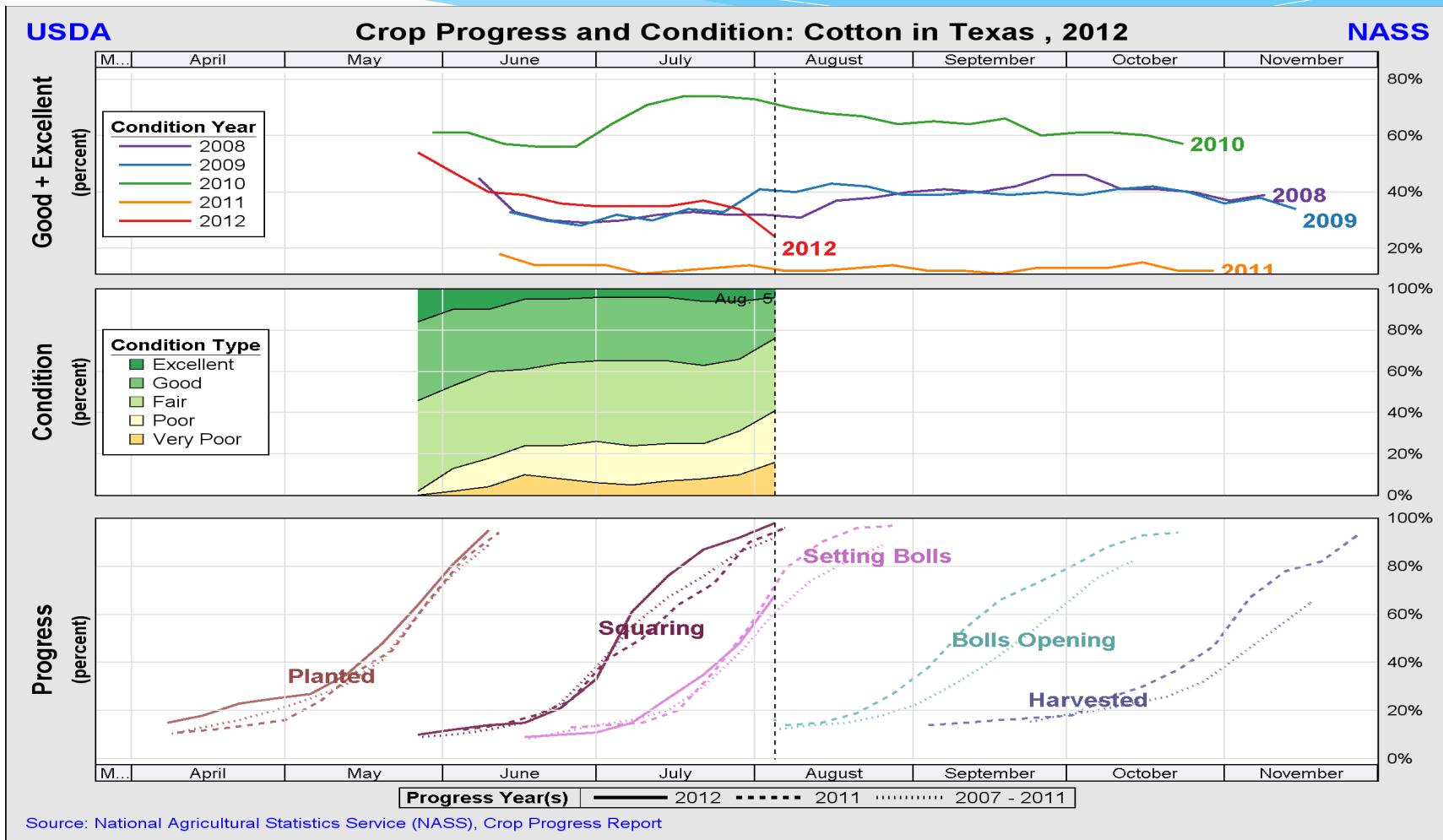
Cotton Ratings for the Texas High Plains Ending the week of July 29

- * Poor to very poor increased 6 points to 31%
- * Good to excellent dropped 3 points to 34 %
- * Some dryland on the High Plains has experienced early cut off.
- * There is the possibility of seeing acreage losses this year that exceed the High Plains' long-term average of 18 to 20 percent. (Plains Cotton Growers Inc)

Cotton Production Regions on the South Central Region

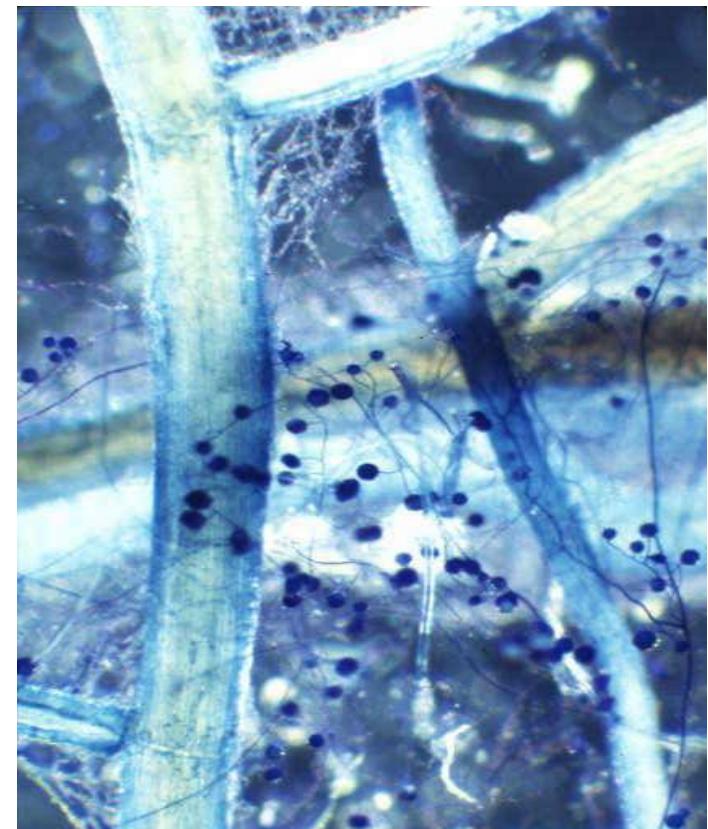


Cotton Progress in Texas



Importance of Arbuscular Mycorrhizal Fungi

- * Increase Drought Tolerance in crops
- * Increase Phosphorous uptake
- * Increase Root Disease Resistance



Impacts of Drought & Management on Soil Microbial Dynamics in West Texas

Numbers of Arbuscular Mycorrhizal Fungi

Wet Year (812 mm)

Dry Year (228 mm)

Production System

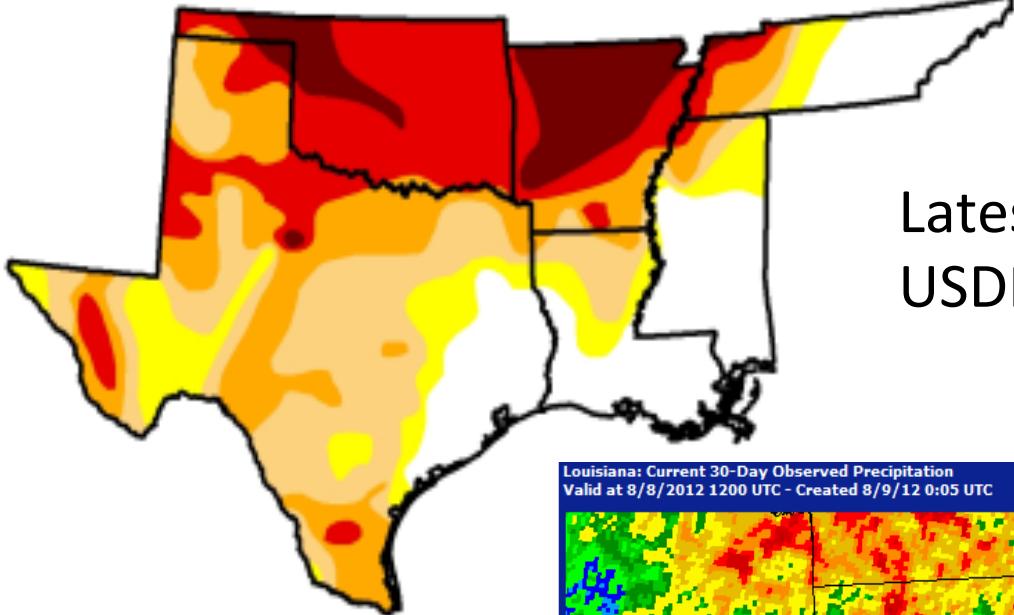
Cotton-dryland-tilled	4 species	1 species
-----------------------	-----------	-----------

Cotton-Irrigated- Continuous	2 species	1 species
---------------------------------	-----------	-----------

Cotton-Irrigated- Rotated	4 species	1 species
------------------------------	-----------	-----------

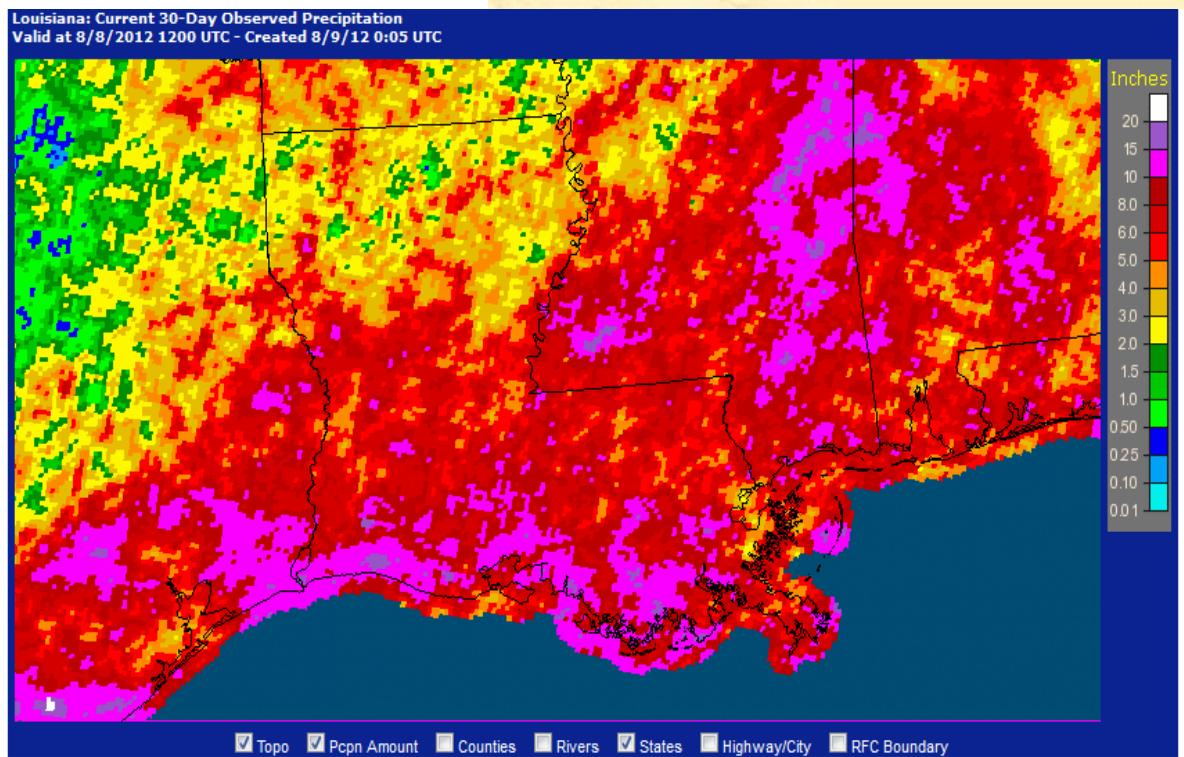
Louisiana Update

Barry Keim



30-day Rainfall in LA

Latest Issue of the USDM



Oklahoma Drought Update

August 9, 2012

Gary McManus
Associate State Climatologist
Oklahoma Climatological Survey

U.S. Drought Monitor

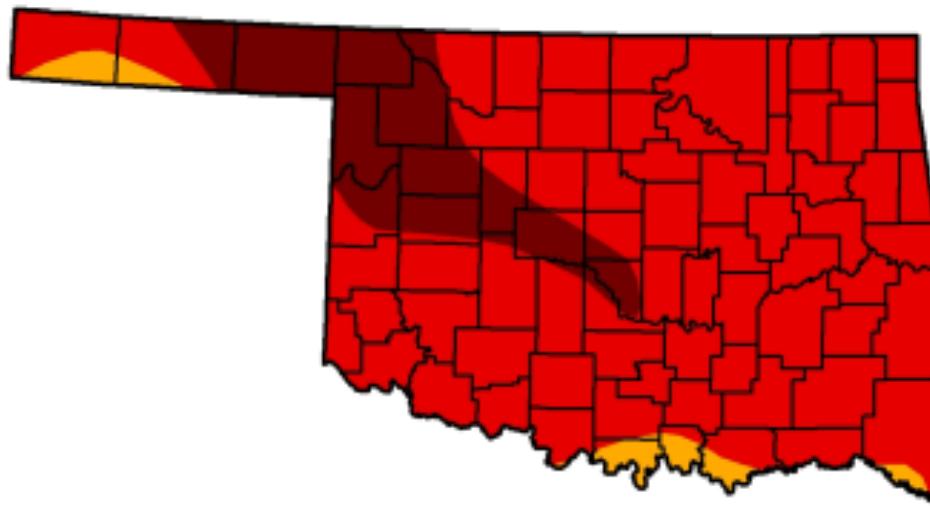
Oklahoma

August 7, 2012

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	100.00	96.78	16.03
Last Week (07/31/2012 map)	0.00	100.00	100.00	98.99	71.60	5.20
3 Months Ago (05/08/2012 map)	75.76	24.24	14.15	9.78	3.27	0.00
Start of Calendar Year (12/27/2011 map)	14.83	85.17	78.76	50.55	27.48	3.33
Start of Water Year (09/27/2011 map)	0.00	100.00	100.00	100.00	78.97	66.42
One Year Ago (08/02/2011 map)	0.00	100.00	100.00	100.00	88.10	64.30



Intensity:

- | | |
|---|--------------------------|
| | D0 Abnormally Dry |
| | D1 Drought - Moderate |
| | D2 Drought - Severe |
| | D3 Drought - Extreme |
| | D4 Drought - Exceptional |

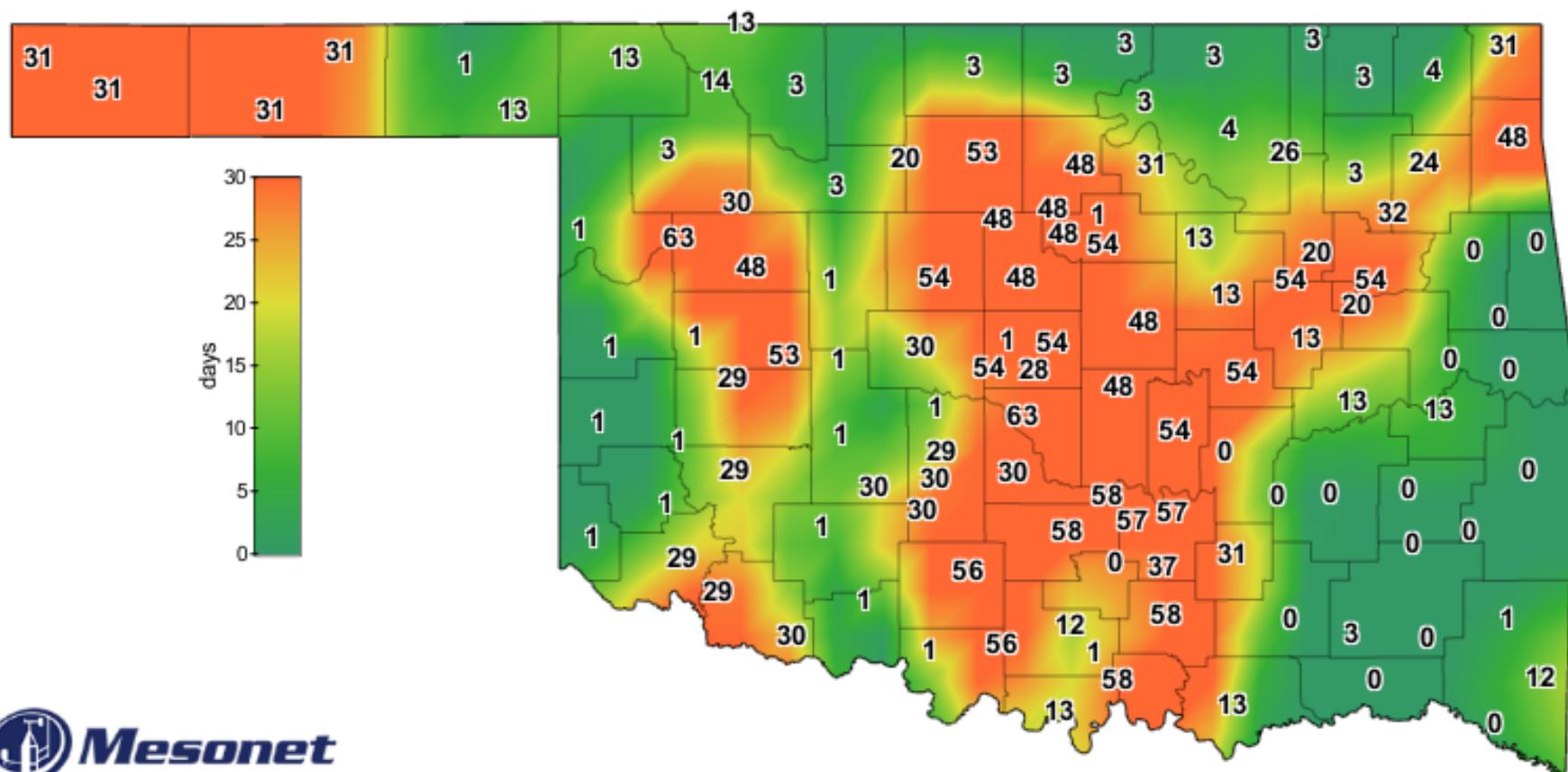
The Drought Monitor focuses on broad-scale conditions.
Local conditions may vary. See accompanying text summary
for forecast statements.

<http://droughtmonitor.unl.edu>



Released Thursday, August 9, 2012
Mark Svoboda, National Drought Mitigation Center

Days with less than 0.25" of rainfall



August 8, 2012

Buffalo, OK:
May 9, 2009



Aug. 5, 2012



Resources

- U.S. Drought Portal
 - <http://www.drought.gov>
 - Select Southern Plains region in menu on upper left
- Drought Impact Reporter
 - <http://droughtreporter.unl.edu/>
- State Climatologists
 - <http://www.stateclimate.org/>
- National Drought Mitigation Center
 - <http://drought.unl.edu/>
- Southern Climate Impacts Planning Program (SCIPP)
 - <http://www.southernclimate.org/>
 - Youtube: <http://www.youtube.com/user/SCIPP01>
- Climate Assessment for the Southwest (CLIMAS)
 - <http://www.climas.arizona.edu/>



We are now on facebook!
Southern Climate Impacts Planning Program

Is drought properly classified in your region? If not, let us know!

- Drought Impact Reporter
- Contact your State Climatologist
- E-mail the DM Authors:
droughtmonitor@unl.edu