agweather connection EL NINÖ Will it stay or go this spring?

As Oklahoma marches into spring, wet and cool weather continues to beleaguer the state, but will it continue? The current conditions are a product of an El Ninõ weather pattern. El Ninõ is the warming of the eastern tropical ocean waters, which can impact weather patterns across the globe.

"The El Nino effects in the state are often minimal, with stronger impacts to the south of Oklahoma," said Gary McManus, Associate State Climatologist. "However, with a strong event like this one, Oklahoma can see wetter and cooler conditions, such as what occurred this winter. This happens as the jet stream, or storm track, is drawn farther to the south. The additional rain chances and cloudiness result in an increase in precipitation and lower temperatures."

Winter storms blanketed the state in rain, snow and ice, causing a statewide surplus of 0.18 inches compared to normal.

"This winter was fairly wet in the southern half of the state along with the Oklahoma Panhandle and generally normal or below normal in the north," said McManus. "Statewide, the winter of 2009-2010 ranked as the 30th wettest since 1921."

Typically, Oklahoma sees very few significant snowstorms. Snowfalls of 8 inches or more generally occur once every couple of years in the northwest to about every other decade in the far south, said McManus.

"This year has definitely been more active, owed in part to the strong El Ninõ, especially in southern Oklahoma," said McManus.

The El Ninõ weather conditions are expected to continue through spring 2010 according to a publication released by the National Oceanic and Atmospheric Administration. NOAA's seasonal outlooks for April through June 2010 show much of Oklahoma below average in temperature, whereas only the Panhandle looks to have a chance at above average precipitation. The rest of the state has an equal chance at above average or below average precipitation.

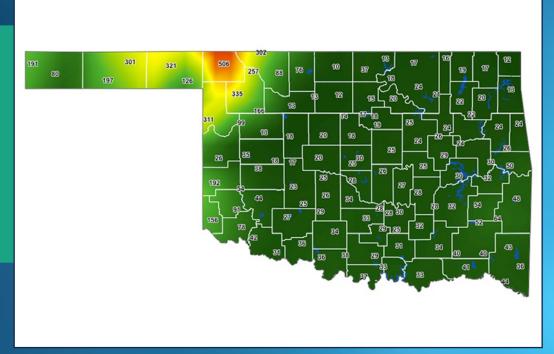
So, it appears cooler, wetter weather is here to stay, for a while. Perhaps Oklahoma's blistering heat, and scorched fields and lawns will be forgotten this summer.





Keetch-Bryam Drought Index

- Start at http://agweather.mesonet.org
- Click "Soil/Water" from the horizontal menu
- Select "DROUGHT" from the left menu
- Choose "Keetch-Bryam Drought Index"
- The drought index is based on an arbitrary 8 inches of water in the soil. When the full 8 inches of water are available, the scale equals 0. As water evaporates, the drought index increases in value. When the scale equals 800, all the water has been removed from the soil



Recent Rainfall

- Start at http://agweather.mesonet.org
- Click "Weather" from the horizontal menu
- Select "RAINFALL" from the left menu
- Choose "Recent Mesonet Rainfall Table"

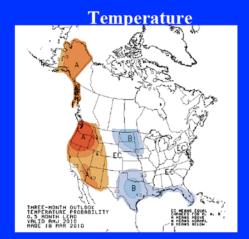
Station	7 Day	10 Day	14 Day	30 Day	60 Day	90 Day	March	2010	2009
Acme	0.62	0.64	0.76				0.64		41.40
Ada	0.91	0.91	1.23	2.41	5.70	7.40	0.91	5.72	49.97
Altus	0.43	0.63	0.63	0.93			0.63		26.14
Alva	0.89	0.93	1.00	1.23	2.25	2.37	0.93	2.25	
Antlers	1.13	1.21	1.85	3.34	9.53	11.47	1.21	9.70	54.53
Apache	0.88	0.92	1.06	2.29	5.26	5.91	0.92	5.28	35.3
Ardmore	1.21	1.40	1.56	2.63	5.73	7.15	1.40	5.77	44.52
Arnett	0.52	0.53	0.71	0.81	2.37	2.45	0.53	2.37	
Beaver	0.87	0.87	1.21	1.68	3.13	3.16	0.87	3.13	16.1
Bessie									
Bixby	0.84	0.84	0.94	2.23	5.48	7.20	0.84	5.52	45.10
Blackwell	1.33	1.33	1.34	2.16	3.66	4.01	1.33	3.67	
Boise City	0.92	0.95	0.98	1.45	2.40	2.43	0.95	2.40	16.0
Bowlegs	1.62	1.62	2.30	3.82	7.67	9.26	1.62	7.68	46.7
Breckinridge	1.00	1.00	1.02	1.71	3.55	3.66	1.00	3.55	28.39
Bristow	1.26	1.26	1.48	2.99	5.68	6.48	1.26	5.70	41.03
Broken Bow	1.21	1.25	1.89	3.01	11.99	15.16	1.25	12.12	76.6
Buffalo	0.60	0.65	0.69	1.26	2.54	2.58	0.65	2.54	14.3
Burbank	1.24	1.24	1.24	2.17	4.20	4.66	1.24	4.25	39.4
Burneyville	1.22	1.88	1.97	3.35	6.41	8.53	1.88	6.48	51.2
Station	7 Day	10 Day	14 Day	30 Day	60 Day	90 Day	March	2010	2009
Butler	0.29	0.29	0.37	0.80	3.10	3.17	0.29	3.10	26.4
Byars	1.12	1.12	1.42	2.99	5.85	7.47	1.12	5.86	43.4
Camargo	0.39	0.39	0.48	0.67	2.25	2.32	0.39	2.25	22.7
Centrahoma	1.89	1.89	2.50	3.63	7.02	8.66	1.89	7.07	
Chandler	0.76	0.76	0.85	2.41	5.43	6.53	0.76	5.47	36.9
Cherokee	0.76	0.76	0.80	1.10	2.27	2.39	0.76	2.27	28.6
Cheyenne	0.27	0.27	0.33	1.00	3.51	3.59	0.27	3.51	26.2
Chickasha	0.63	0.63	0.86	1.93	4.88	5.55	0.63	4.88	36.7
Claremore	1.04	1.04	1.04	2.31	6.06	8.41	1.04	6.11	50.4
Clayton	0.52	0.66	1.20	2.46	6.11	8.85	0.66	6.14	59.0
Cloudy	0.91	0.94	1.59	3.03	11.69	16.30	0.94	11.83	
Cookson	0.76	0.76	0.80	1.92	5.48	7.00	0.76	5.48	60.10

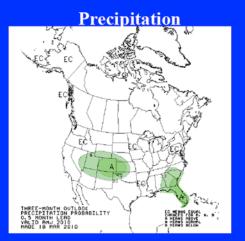
Shown as March 2010										
Sunday	Monday Tuesday			0000	Friday	Saturday				
				4 T Avgs: 62/34						
Precip 1954-2009 Snow 1954-2009	Sig Prcp Freq: 9% Extremes: High T 92 (2006)	Sig Prcp Freq: 13% Extremes: High T 87 (2006) Low T 6 (1980) Precip 0.75 (1988)	Sig Prcp Freq: 18% Extremes: High T 85 (1955) Low T 7 (1960) Precip 1.31 (1988)	Sig Prcp Freq: 13% Extremes: High T 83 (1955) Low T 8 (1978) Precip 1.92 (2004)	Sig Prcp Freq: 2% Extremes: High T 93 (1991)	Sig Prcp Freq: 7% Extremes: High T 89 (1991) Low T 15 (2003) Precip 1.20 (1973)				
7 T Avgs: 64/35	8 T Avgs: 62/35	9 T Avgs: 63/36	10 T Avgs: 66/36	11 T Avgs: 65/39	12 T Avgs: 63/39	13 T Avgs: 64/38				
		Sig Prcp Freq: 15%	Sig Prcp Freq: 9%	Sig Prcp Freq: 18%						
High T 84 (1974) Low T 12* (1955) Precip 1.03 (1998)	High T 81 (1974) Low T 8 (1967) Precip 1.48 (1976)	High T 83 (1986) Low T 11 (1996)	Precip 1.21 (1973)	Extremes: High T 95 (1967) Low T 20 (1992) Precip 1.96 (1990)	High T 90 (1967) Low T 17 (1998)	Extremes: High T 92 (1967) Low T 21* (1969) Precip 1.96 (1999)				
14 T Avgs: 66/37	15 T Avgs: 65/39	16 T Avgs: 63/37	17 T Avgs: 66/38	18 T Avgs: 66/40	19 T Avgs: 64/41	20 T Avgs: 66/39				
Sig Prcp Freq: 11%	Sig Prcp Freq: 11%	Sig Prcp Freq: 9%	Sig Prcp Freq: 15%	Sig Prcp Freq: 20%	Sig Prcp Freq: 24%	Sig Prcp Freq: 15%				
High T 90 (1967) Low T 13 (1954)	High T 84* (1955) Low T 15 (1954)	High T 80 (1966) Low T 21* (1956)	High T 86 (1994) Low T 23 (1960)	High T 86 (1963) Low T 17 (1960) Precip 1.44 (2008)	High T 89 (1976) Low T 19 (1965) Precip 1.41 (2002)	Low T 11 (1965)				
21 T Avgs: 67/38	22 T Avgs: 67/39	23 T Avgs: 69/41	24 T Avgs: 67/41	25 T Avgs: 66/39		27 T Avgs: 68/42				
Sig Prcp Freq: 16%	Sig Prcp Freq: 9%	Sig Prcp Freq: 18%	Sig Prcp Freq: 18%	Sig Prcp Freq: 13%	Sig Prcp Freq: 11%	Sig Prep Freq: 16%				
High T 88 (1997) Low T 19 (1974) Precip 1.22 (1957) Snow 4.0 (1968)	High T 89 (1995) Low T 12 (1955) Precip 1.07 (1979)	High T 92 (1995) Low T 23* (1968) Precip 1.41 (1969) Snow 2.0 (2006)	High T 88 (1959) Low T 23 (1965) Precip 1.66 (1973)	High T 89 (1976) Low T 19 (1955) Precip 0.91 (1973)	High T 88 (1956) Low T 14 (1955) Precip 1.38 (1983) Snow trace (1955)	Low T 18 (1955) Precip 0.71* (1975)				
28 T Avgs: 69/44	29 T Avgs: 68/43	30 T Avgs: 66/42	31 T Avgs: 70/41	Key	Mar. Averages					
Sig Prcp Freq: 27%	Sig Prcp Freq: 16%	Sig Prep Freq: 15%	Sig Pren Freg: 16%	* - Record since tied	High Temp 65 F					
Extremes: High T 91 (1963) Low T 22 (1955)					Low Temp 39 F Avg Temp 52 F Precip 2.45"					
Low T 22 (1955) Procin 0.99 (1996)	Low T 25 (2009) Precip 0.82 (1958)	Low T 22 (1987)	Low T 24* (1972)	Sig Prep Freq = Pct of	Snow 0.4"					

Averages and Extremes

- Start at http://agweather.mesonet.org
- Click "Climate" from the horizontal menu
- Choose "Oklahoma Climate Date" from the left menu
- Select "OK Climate Data"
- Pick "Coop Data" from the bottom of the left-hand menu
- Choose "Monthly Climate Calendar"
- Finally, select a Coop Station and a month
- It is interesting to compare these calendars to the Monthly Weather Summaries found in the "Climate" Section under "PAST WEATHER DATA"

April – June 2010





The seasonal outlooks combine the effects of long-term trends, soil moisture, and, when appropriate, the ENSO cycle.

El Nino Outlook

- Start at http://agweather.mesonet.org
- Click "Climate" from the horizontal menu
- Then choose "NATIONAL CLIMATE DATA" from the left menu
- Select "El Nino S. Oscillation"
- Under the "Expert Discussions/Assessments" section, there is a helpful link to a "Weekly El Ninō (ENSO) Evolution, Status, and Prediction Presentation"
- This document discusses current conditions, outlooks and a summary. Some of the information can be overwhelmingly scientific, but there are some great graphics and explanations

Although it is too early to predict the success of this year's harvest, 95 percent of the state's wheat ranked fair to excellent as of March 22. Any late freezes could alter the ranking.

The ice and snow storms in late 2009 and early 2010 toppled utility poles and cost the state millions.

> Winter 2009 was dry. A warm February and March was followed by late freezes in April. The freezes caused significant damage and Oklahoma only harvested about 77 million bushels of wheat.

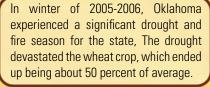


In 2008, the right combination of weather conditions produced a harvest of 166.5 million bushels of wheat. Farm communities rejoiced.



In 2007, a late freeze in April damaged some wheat. In May and June, rain and muddy fields prevented about 40 percent of the wheat from being harvested.







Hundreds of thousands of acres in Oklahoma were lost to







