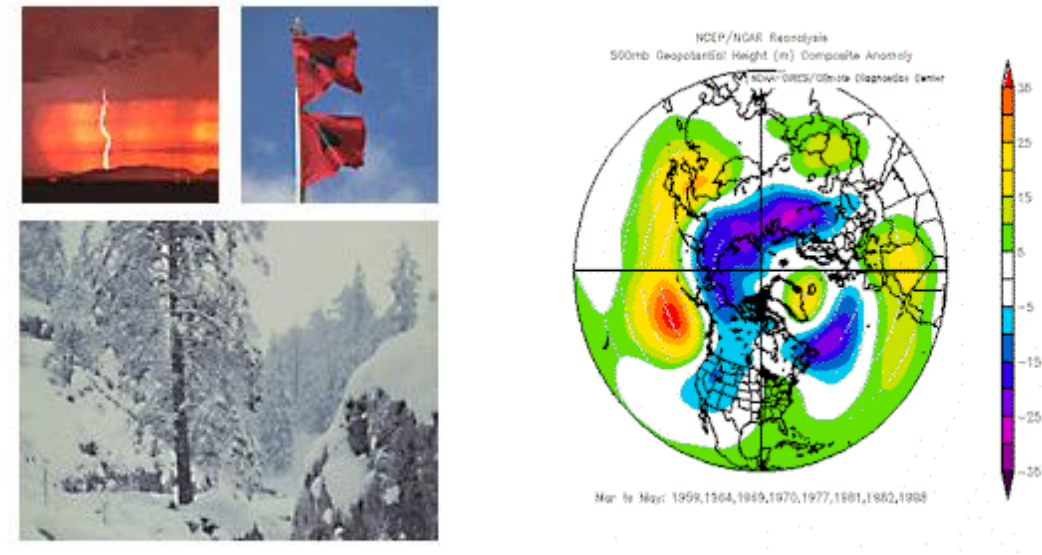


# *The Pennsylvania Observer*

## The Pennsylvania State Climatologist

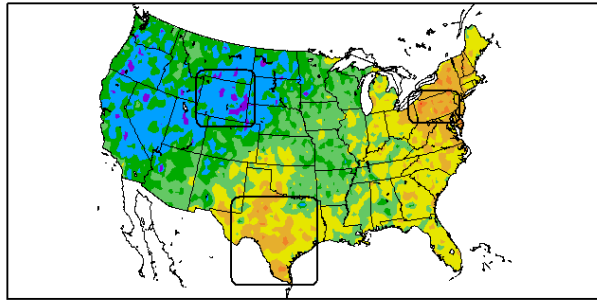


### **June Climate Highlight:**

This month's climate highlight features a look at the expected temperature and precipitation anomalies for the late summer months (August through September). This prediction was determined by selecting analog years that had similar departures to the May 2011 anomalies.

The following are the anomalies during May, 2011 with the highlighted regions being selected for the following late summer analog outlook:

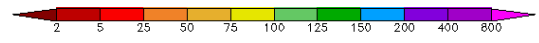
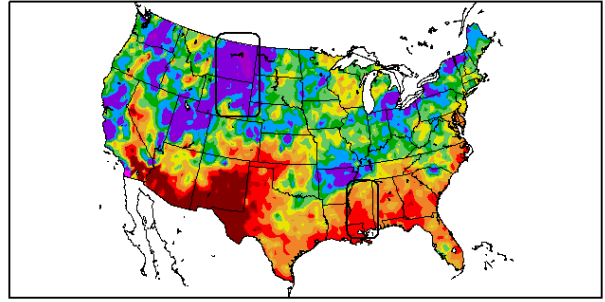
Departure from Normal Temperature (F)  
5/1/2011 - 5/31/2011



Generated 6/1/2011 at HPRCC using provisional data.

Regional Climate Centers

Percent of Normal Precipitation (%)  
5/1/2011 - 5/31/2011



Generated 6/1/2011 at HPRCC using provisional data.

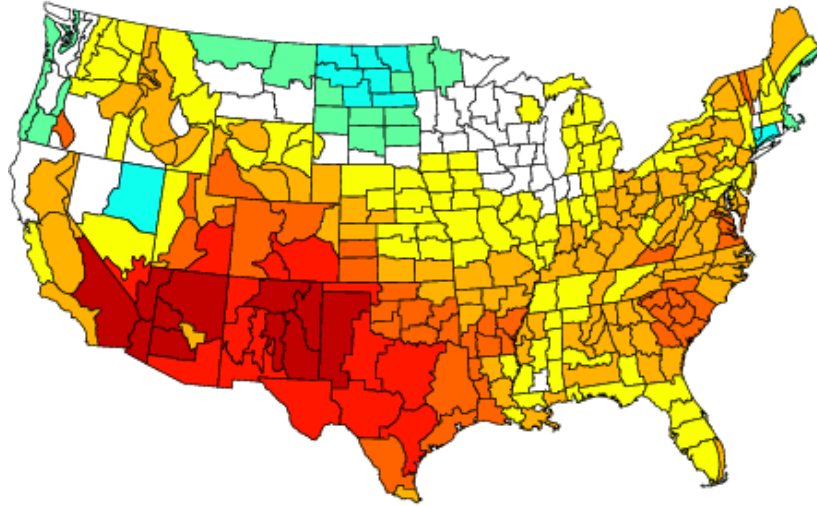
Regional Climate Centers

Noteworthy anomalies: Cool – WY; Warm-PA and TX; Wet-MT, Dry-MS

MS-Dry	2007	2.51	MT-Wet	2010	3.44	TX-Warm	2008	74	WY-Cool	2010	45.2	PA-Warm	2010	60.3
	2000	2.44		2008	3.6		2006	75.5		1995	45.5		2004	63.4
	1998	2.32		2007	3.87		2003	75.7		1983	45.7		1998	62.5
	1996	2.44		1996	3.18		2002	74.1		1975	46.6		1991	64.4
	1992	1.74		1987	2.91		2001	74.1		1968	46.7		1986	60.5
	1988	1.48		1982	3.14		2000	76.8		1967	46.9		1982	61.1
	1985	2.69		1981	4.47		1998	77.1		1953	45.6		1977	61
	1982	2.42		1980	2.97		1996	78.4		1950	44.8		1975	61.3
	1977	2.19		1978	4.41		1991	74.6		1946	46		1970	60.9
	1965	2.15		1975	2.97		1989	75.1		1943	46.6		1965	61.9
	1964	2.76		1974	3.05		1985	73.9		1942	46.5		1962	61.9
	1963	2.24		1964	2.82		1984	74		1938	47.7		1959	61.8
	1961	2.9		1962	3.65		1978	73.9		1935	44.5		1955	60.7
	1956	2.96		1955	2.96		1974	75.4		1933	46.2		1953	61.1
	1951	1.06		1953	3.8		1964	74.5		1929	46.6		1944	64.8
	1948	2.98		1942	3.66		1963	74.4		1927	47.3		1942	61.5
	1941	1.38		1938	3.15		1962	75.8		1924	47.5		1939	61.6
	1940	2.33		1927	5.62		1959	74.2		1918	47.4		1936	61.4
	1938	2.63		1922	2.83		1956	75.9		1917	43.2		1934	61
	1936	2.82		1915	3.33		1955	74.5		1916	44.1		1933	61
	1921	1.72		1912	3.5		1949	73.9		1915	45.1		1930	60
	1918	1.69		1911	3.21		1948	74.1		1912	45.5		1922	61.3
	1917	2.07		1909	2.86		1939	74.4		1911	47.7		1918	63.9
	1914	1.96		1908	5.52		1937	73.9		1909	44.4		1914	60.3
	1911	2.23		1906	4.6		1933	74.5		1908	46.1		1912	60
	1904	3		1902	4.31		1927	76.7		1907	43.9		1911	64
	1899	1.94		1901	3.13		1922	74		1905	45.3		1908	60
	1898	2.37		1899	3.08		1902	74.8		1903	46.8		1904	60.4
	1897	1.81		1898	3.89		1899	75.8		1899	47.5		1903	60.6
	1896	2.91		1896	3.56		1896	77		1898	47.4		1896	64.2

The analogous years produced the following temperature and rainfall patterns for July-Aug-Sept:

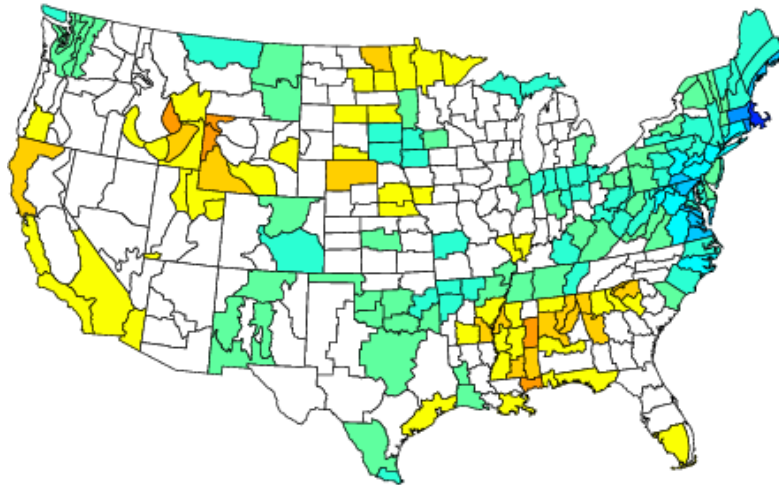
Composite Standardized Temperature Anomalies  
 Versus 1895–2000 Longterm Average  
 Jul to Sep 1911,1911,1899,1899,1896,1896,2010,1998,1996,1982  
 1964,1975,1962,1955,1953,1942,1938,1922,1918,1933



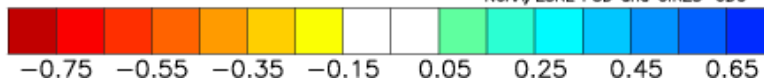
NOAA/ESRL PSD and CIRES-CDC



Composite Standardized Precipitation Anomalies  
 Versus 1895–2000 Longterm Average  
 Jul to Sep 1911,1911,1899,1899,1896,1896,2010,1998,1996,1982  
 1964,1975,1962,1955,1953,1942,1938,1922,1918,1933



NOAA/ESRL PSD and CIRES-CDC



Conclusion: Expect a rather warm and wet second half of the summer, especially in eastern PA.

The outstanding features of the June temperatures have been the above average warmth across the Eastern half of the nation and the abnormally cool conditions throughout the Northwest tier of the nation.