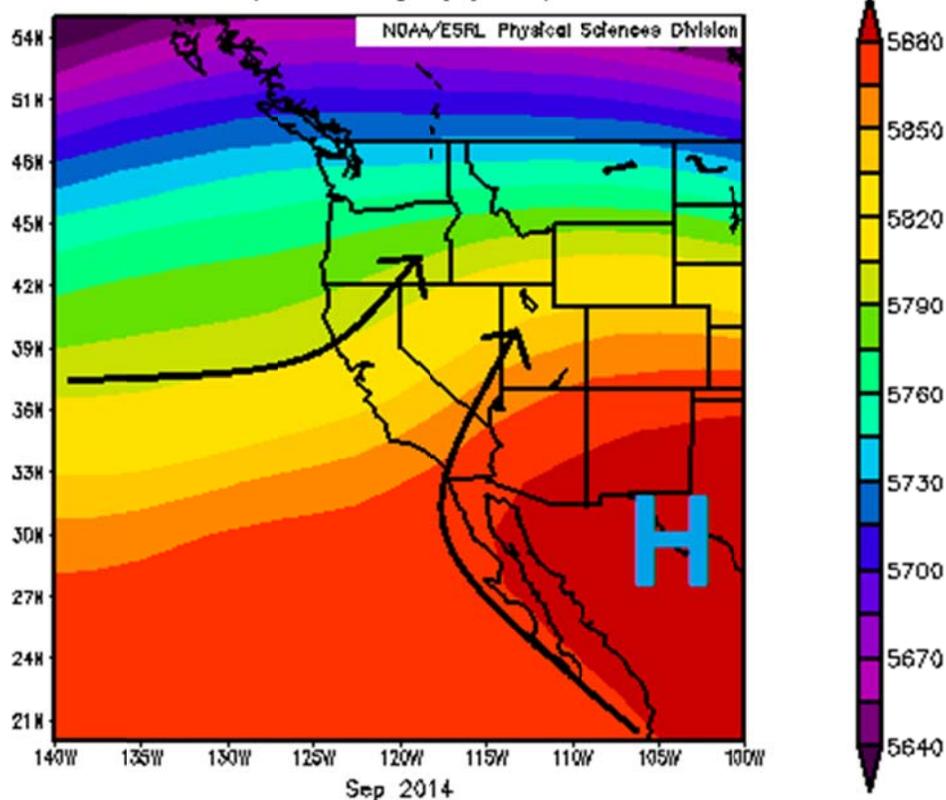


# September 2014 Climate Summary

NCEP/NCAR Reanalysis

500mb Geopotential Height (m) Composite Mean



Average location of September ridge as depicted by 500 mb heights. Courtesy: NOAA/ESRL

September is the first month of meteorological Fall and is a time of transition. Even though there were several periods of hot weather, temperatures steadily declined during the month which ended on a cool note. Several tropical systems also affected the NNSS as they passed by well to the southeast.

Hot and dry conditions were observed the first week of the month as high pressure dominated the weather over the Southwest. A deep surge of moisture associated with former Hurricane Norbert overspread the area on the 7<sup>th</sup> leading to widespread showers and thunderstorms on the 8<sup>th</sup>. Many sites, except for those located in the southwest corner of the NNSS, recorded measureable precipitation. Meda 14 in Area 14 recorded the highest 24-hour total of 0.80". The moisture had moved east of the area by the 11<sup>th</sup> and was followed by a period of warm and dry weather which lasted through the 19<sup>th</sup>. Low pressure appeared off the central California coast on the 20<sup>th</sup>. Moisture was drawn northward ahead of the low resulting in the last widespread precipitation event of the month. Once again, Meda 14 recorded the highest 24 hour total, 0.48". The low moved northeast of the NNSS by the 22<sup>nd</sup>.

A brief warm up followed before a significant pattern change occurred when the first significant Pacific weather system of the season affected the area. A large trough slowly approached the coast beginning on the 25<sup>th</sup>. As a result, gusty southwest winds developed ahead of the cold front prompting wind advisories to be issued on the 25<sup>th</sup> and 26<sup>th</sup>. By the 27<sup>th</sup>, an area of low pressure had developed at the base of the trough and was located over central Nevada. A few showers and much cooler temperatures

accompanied the low. The coolest temperatures of the month were observed on the morning of the 28<sup>th</sup> with most locations reporting temperatures in the 40's. The coolest reading, 36 degrees, was recorded at Meda 40 in Area 12. September ended with a gradual warming trend as the low slowly moved off to the northeast.

Below is data for some select locations.

<u>Station</u>	<u>Highest (°F)</u>	<u>Date</u>	<u>Lowest (°F)</u>	<u>Date</u>	<u>Precipitation (in.)</u>
Meda 23 (Mercury)	97	02	52	28	0.46
Desert Rock Airport	101	02	49	28	0.34
Meda 05 (W5B)	101	15	41	30	0.07
Meda 40 (Rainier Mesa)	79	01	36	28	0.48
Meda 43 (Yucca Dry Lake)	95	16	42	30	0.21

**Hazardous Weather Notifications:**

A Lightning Alert was issued for September 8<sup>th</sup> from 0915 to 1900 PDT.  
A Lightning Alert was issued for September 16<sup>th</sup> from 1630 to 2100 PDT.  
A Lightning Alert was issued for September 17<sup>th</sup> from 1430 to 1900 PDT.  
A Wind Advisory was issued for September 25<sup>th</sup> from 1145 to 2000 PDT.  
A Wind Advisory was issued for September 26<sup>th</sup> from 1200 to 2000 PDT.

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