Montana Drought Status by County - February, 2010

Montana County Drought Status

As water year 2009 closed out (September 30), water supply and moisture conditions remained strong in large part due to a La Nina (cooler & wetter) that lasted from 2008 into mid-2009 coupled with a cool phase of the Pacific Decadal Oscillation (PDO) that enhanced the effects of the La Nina. See: http://nris.mt.gov/News/LaNina/swi07_09.pdf

By November, the Montana Drought Status map showed 55 of the 56 counties in the No Drought category, with only Toole County rated as Slightly Dry. However, the La Nina of 2008-2009 faded away in April 2009 as equatorial waters of the eastern Pacific began to warm ushering in the warm phase of ENSO, El Nino, which usually brings warmer and drier than usual conditions to Montana. By January, the El Nino had strengthened to what NOAA characterized as a "strong" event.

December saw mountain snowpack water equivalents fall behind the 30-year averages in western Montana and along the Rocky Mountain Front, but the central part of the state remained above average. December 2009 closed out as the coldest since 1983 and fifth coldest December of record. The NWS 2010 water year map (Oct-Dec) showed valley moisture conditions were consistent with El Nino years of the recent past. But with a cool phase of the PDO persisting and present for the first time in many years during an El Nino event, records show that the cool overarching PDO may soften the warm and dry tendencies of the El Nino as winter progresses.

For recommended responses, see the Montana Drought Plan

http://nris.mt.gov/drought/

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