

State Water Resources Control Board

To: Diverters of Surface Water and Interested Persons

NOTICE OF SURFACE WATER SHORTAGE FOR 2013

For the past two years, much of California has experienced record dry and warm conditions. For 2013, the combined total precipitation for the months of January through May is the driest in about 90 years of record. Reservoir operators reported lower than average storage levels as of the end May and these storage levels will continue to decline as water is released to support municipal, agricultural and water quality needs.

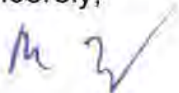
The California water rights system is designed to provide for the orderly allocation of water supplies in the event that there is not enough water to satisfy everyone's needs. When there is insufficient water for all, water diversions are allocated in order of water right priority. Currently, certain water right holders primarily within the Sacramento River watershed are restricted (through a permit condition referred to as "Term 91") from diverting water when the State and Federal Water Projects are releasing stored water to meet Delta water quality standards and in-basin entitlements. The rule of water right priority only extends to natural and abandoned flows. Stored water that is released to meet Delta objectives is neither natural nor abandoned flow. This water therefore cannot be legally taken by riparian and other users. Currently, a substantial portion of Delta inflow is stored water. In the late summer and fall, there will be little or no natural and abandoned flows in the Delta watershed and other stream systems.

In view of the current hydrologic situation, water in the fall for uses such as planting winter crops may only be available to the most senior water right holders. In addition, the State Water Resources Control Board (State Water Board) believes that it is important to remind all water right holders that these conditions may continue into the next year. If water supply conditions do not improve, permit, license and registration holders may see their diversions restricted. It may even become necessary in some parts of the state to restrict more senior water rights, such as riparian rights or pre-1914 rights.

If your water right is restricted due to a lack of surface water or a low priority of right, you are encouraged to implement actions such as: controlling unnecessary conveyance losses, improving coordination with other local diverters to reduce cumulative instantaneous demands, limiting any planned future double cropping, and using available alternative water supplies.

As a reminder, conservation efforts, which include sound water delivery methods and more efficient irrigation practices, are consistent with the State Constitution which requires all of us to use water efficiently and reasonably. In view of the current situation, the State Water Board strongly encourages your immediate consideration of the enclosed conservation guidelines.

Sincerely,

A handwritten signature in blue ink, appearing to read 'B. Evoy', with a checkmark-like flourish at the end.

Barbara Evoy
Deputy Director for Water Rights

Enclosure

Water Conservation in Irrigation: Guidelines for a Dry Year

Here are some of the conservation practices in irrigation that you can implement to cope with water shortages this year.

1. Be realistic. Adjust the planted acreage to the projected water supply, both as to its quality and quantity.
2. Be efficient. Runoff from the lower end of an irrigated field is usually reusable because its quality is only slightly degraded. If the irrigation water is usable, the runoff water should be usable. Tailwater return flow systems will allow recovery of runoff for increased efficiency of irrigation.
3. Careful land grading or smoothing of irrigation checks aids in uniform water application, thus preventing percolation losses below the root zone.
4. Long irrigation runs may cause excessive water application at the upper end and runoff at the lower end. Water can be spread more rapidly and evenly by maintaining and constructing short and narrow irrigation checks and short furrows, combined with return flow systems.
5. Plug leaks in canals, ditches, pipelines, distribution systems, etc. Replace worn orifices in nozzles or sprinkler heads.
6. If present irrigation system is inefficient, consider advantages of upgrading the present system, or changing to a more efficient system.
7. Better uniformity of distribution can be obtained when irrigating by sprinklers if high wind conditions are avoided. In some locations, this can be accomplished by irrigating during night hours.
8. Be especially careful at critical germination period on annual crops. Pre-plant irrigation is probably more essential in a dry year to reduce salinity in the seed area and store water for later use by crops than in more normal years. But do not overdo pre-plant irrigations. Use a soil auger or other moisture meter to check for soil water supply and depth of wetting after an irrigation.
9. Match water applications closely to crop needs. Find out the amount of water to be applied to refill the soil just to the depth of rooting. In some areas, potential evapotranspiration data will be available. These can be used to estimate the rate of water use by any particular crop. Also, the soil capacity for water storage can be estimated. Then, a simplified budget procedure can be followed to determine approximate time of irrigation and amount to be applied without wasting water. Consult your Farm Advisor for specific information on your crop and soil.
10. Keep leaching for salinity control to the minimum dictated by crop tolerance and a realistic yield expectation for the supply of water available. Seldom does average soil salinity of a root zone build up to damaging concentrations during a one- or even two-year period.

11. Select crops and growing seasons that use less water, where possible. By combining planting dates with selected varieties, it is possible to save some water by shortening the growing season and/or avoiding high evaporative demand periods. Small grains and, to some extent, safflower will use significantly less water than summer season field crops.
12. Most crops, if supplied with less than full evapotranspiration requirements will produce less than maximum yields, although in some crops the reduction in yield is less marked than in others. Cotton, sorghum, olives, and wine or raisin grapes are crops relatively insensitive to reduced water supply. Alfalfa, corn, and pasture are examples of crops sensitive to water deficiency.
13. On tree crops and deep-rooted annuals, start the growing season with a fully wet root zone, if at all possible. Use the remaining water supply as needed to maintain crop until the supply is exhausted.
14. Plant the best land. Do not plant marginal land. If future abandonment or pulling of permanent crop acreage is being considered, perhaps now is the time to make the change.