

Agricultural Efficient Water Management Practices (EWMPs)*

The Agricultural Efficient Water Management Practices (EWMPs) as per SB X7-7 include:

Critical EWMPs

1. Measure the volume of water delivered to customers with sufficient accuracy to comply with subdivision (a) of CWC Section 531.10 and to implement EWMP #2
2. Adopt a pricing structure for water customers based at least in part on quantity delivered.

Other EWMPs

1. Facilitate alternative land use for lands with exceptionally high water duties or whose irrigation contributes to significant problems, including drainage.
2. Facilitate use of available recycled water that otherwise would not be used beneficially, meets all health and safety criteria, and does not harm crops or soils.
3. Facilitate the financing of capital improvements for on-farm irrigation systems.
4. Implement an incentive pricing structure that promotes one or more of the following goals:
 - A. More efficient water use at the farm level.
 - B. Conjunctive use of groundwater.
 - C. Appropriate increase of groundwater recharge.
 - D. Reduction in problem drainage.
 - E. Improved management of environmental resources.
 - F. Effective management of all water sources throughout the year by adjusting seasonal pricing structures based on current conditions
5. Expand line or pipe distribution systems, and construct regulatory reservoirs to increase distribution system flexibility and capacity, decrease maintenance, and reduce seepage.
6. Increase flexibility in water ordering by, and delivery to, water customers within operational limits.
7. Construct and operate supplier spill and tailwater recovery systems.
8. Increase planned conjunctive use of surface water and groundwater within the supplier service area.
9. Automate canal control structures.
10. Facilitate or promote customer pump testing and evaluation.
11. Designate a water conservation coordinator who will develop and implement the water management plan and prepare progress reports.
12. Provide for the availability of water management services to water users. These services may include, but are not limited to, all of the following:
 - A. On-farm irrigation and drainage system evaluations.
 - B. Normal year and real-time irrigation scheduling and crop evapotranspiration information.
 - C. Surface water, groundwater, and drainage water quantity and quality data.
 - D. Agricultural water management educational programs and materials for farmers, staff, and the public.
13. Evaluate the policies of agencies that provide the supplier with water to identify the potential for institutional changes to allow more flexible water deliveries and storage.
14. Evaluate and improve the efficiencies of the supplier's pumps.

(*) These EWMPs may be updated by DWR as per SB X7-7, CWC §10608.48(h).

Required Elements of Agricultural Water Management Plans (AWMPs)*

SB X7-7 (2009), CWC §10826 lists the required elements of an AWMP as follow:

- (a) Describe the agricultural water supplier and the service area, including all of the following:
 - (1) Size of the service area.
 - (2) Location of the service area and its water management facilities.
 - (3) Terrain and soils.
 - (4) Climate.
 - (5) Operating rules and regulations.
 - (6) Water delivery measurements or calculations.
 - (7) Water rate schedules and billing.
 - (8) Water shortage allocation policies.
- (b) Describe the quantity and quality of water resources of the agricultural water supplier, including all of the following:
 - (1) Surface water supply.
 - (2) Groundwater supply.
 - (3) Other water supplies.
 - (4) Source water quality monitoring practices.
 - (5) Water uses within the agricultural water supplier's service area, including all of the following:
 - A. Agricultural.
 - B. Environmental.
 - C. Recreational.
 - D. Municipal and industrial.
 - E. Groundwater recharge.
 - F. Transfers and exchanges.
 - G. Other water uses.
 - (6) Drainage from the water supplier's service area.
 - (7) Water accounting, including all of the following:
 - A. Quantifying the water supplier's water supplies.
 - B. Tabulating water uses.
 - C. Overall water budget.
 - (8) Water supply reliability.
- (c) Include an analysis, based on available information, of the effect of climate change on future water supplies.
- (d) Describe previous water management activities.
- (e) Include in the plan the water use efficiency information required pursuant to CWC Section 10608.48.

(* Additional elements may be required to be included in the AWMP to document compliance with the Agricultural Water Measurement Regulation (CCR Title 23, Division 2, Chapter 5.1, §597-597.4).