AWMP Template

Agricultural Water Management Plan

Prepared Pursuant to Water Code Section 10826

Insert Agricultural Water Supplier's Name

Insert Representative Name

Adopted on

Insert Date of Plan Adoption

Section I: Introduction and Description of Previous Water Management Activities

Insert description of previous water management activities

1. Coordination Activities

a) Notification of AWMP Preparation

Insert description

b) Public Participation

Describe public participation activities or complete the table below

Potential Interested Parties [Provide name(s)]	**Notified of AWMP Preparation**	**Notified of Public Meetings**	**Attended Public Meetings** [Optional]	**Copy of Adopted AWMP/Amendment Sent**
Local City (s)	[Insert date]			[Insert date]
Local County(s)	[Insert date]			[Insert date]
Groundwater Management Entity				[Insert date]
DWR				[Insert date]
Local Newspaper/Equivalent Process [Identify which]		[Insert dates]		
California State Library				

Potential Interested Parties [Provide name(s)]	**Notified of AWMP Preparation**	**Notified of Public Meetings**	**Attended Public Meetings** [Optional]	**Copy of Adopted AWMP/Amendment Sent**
Other [Identify]				
Website				[Insert date posted or sent to DWR for posting]

2. AWMP Adoption and Submittal

a) AWMP Adoption

A copy of the water supplier signed Resolution of the AWMP Adoption may be attached; Revisions or amendments must follow the same procedure

b) AWMP Submittal

Insert description; Submit electronically to DWR

c) AWMP Availability

Insert description

3. AWMP Implementation Schedule

Insert description or provide AWMP implementation schedule

Section II: Description of the Agricultural Water Supplier and Service Area

1. Physical Characteristics

a) Size of the service area

Insert description of the size of the service area

b) Location of the service area and water management facilities

Insert description of the location of the service area and water management facilities

c) Terrain and soils

Insert description of the service area terrain and soils

d) Climate

Insert description of the service area climate

2. Operational Characteristics

a) Operating rules and regulations

Insert description of the agricultural water supplier's operating rules and regulations; A copy of your Operating Rules and Regulations may be attached

b) Water delivery measurements or calculations

Insert description of the agricultural water supplier's water delivery measurements or calculations

c) Water rate schedules and billing

Insert description of your water rate schedules and billing

d) Water shortage allocation policies and Drought Plan

Insert a description of your water shortage allocation policies; You may attach a copy of your Water Shortage Allocation Policy; See drought plan checklist below

Drought Plan

The drought plan shall contain resilience planning, including all of the following:

- ✓ Data, indicators, and information needed to determine the water supply availability and levels of drought severity
- ✓ Analyses and identification of potential vulnerability to drought
- ✓ A description of the opportunities and constraints for improving drought resilience planning, including all of the following:
  - ✓ The availability of new technology or information
  - ✓ The ability of the agricultural water supplier to obtain or use additional water supplies during drought condition
  - ✓ A description of other actions planned for implementation to improve drought resilience

The drought plan shall contain drought response planning, including all of the following:

- ✓ Policies and a process for declaring a water shortage and for implementing water shortage allocations and related response actions
- ✓ Methods and procedures for the enforcement or appeal of, or exemption from, triggered shortage response actions
- ✓ Methods and procedures for monitoring and evaluation of the effectiveness of the drought plan
- ✓ Communication protocols and procedures to inform and coordinate customers, the public, interested parties, and local, regional, and state government
- ✓ A description of the potential impacts on the revenues, financial condition, and planned expenditures of the agricultural water supplier during drought conditions that reduce water allocations, and proposed measures to overcome those impacts, including reserve-level policies

Section III: Description of Quantity of Water Uses

1. Agricultural Water Use

Insert description of quantity water used for agricultural uses within your service area

2. Environmental Water Use

Insert description of quantity of water used for environmental uses within your service area

3. Recreational Water Use

Insert description of quantity water used for recreational uses within your service area

4. Municipal and Industrial Use

Insert description of quantity of water used for municipal and industrial uses within your service area

5. Groundwater Recharge Use

Insert description of quantity of water used for groundwater recharge within your service area, including estimated flows and deep percolation from irrigation and seepage

Section IV: Description of Quantity and Quality of the Water Resources of the Agricultural Water Supplier

1. Water Supply Quantity

a) Surface Water Supply

Insert description of quantity of your surface water supplies

b) Groundwater Supply

Insert description of quantity of your groundwater supplies

c) Other Water Supplies (Including Recycled Water)

Identify any other water supply/supplies you may have and insert description of its/their quantity/quantities

2. Water Supply Quality

a) Surface Water Supply

Insert description of the quality of your surface water supplies

b) Groundwater Supply

Insert description of the quality of groundwater supplies

c) Other Water Supplies (Including Recycled Water)

Insert description of the quality of your other water supplies

d) Source Water Quality Monitoring Practices

Insert description of your source water quality monitoring practices; Include all source water types including any drainage water considered part of your water supplies

Section V: Water Budget

1. Quantifying the Water Supplier's Water Supplies

a) Agricultural Water Supplier Water Quantities

Insert description of water supply quantification

b) Other Water Sources Quantities

Insert description of water supply quantification

2. Quantification of Water Uses

Insert description of tabulation of water uses

3. Annual Water Budget

Insert description quantifying overall water budget based on the quantification of all inflow and outflow components for the service area; See tables below

Table V-1 Inflows

(Optional) Groundwater Basin: [Input groundwater basin number]

Inflow Component	AWMP Location for Supporting Calculations	How Quantified?	Uncertainty	How Quantified?	Water Year 19/20	Water Year 20/21	Water Year 21/22	Water Year 22/23	Water Year 23/24	Water Year 24/25*
Units	[Page number or Section]	[Drop down (Measured, Calculated, Modeled, Estimated)]	[Percent]	[Drop down (Measured, Calculated, Modeled, Estimated)]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]
Effective Precipitation										
Water Supplier Surface Water Diversions										
Water Supplier Groundwater Pumping										
Private Groundwater Pumping										
Other – Describe Each**										
Total										

*Note for columns: 5 years of data is required. The Supplier may select the first five column years or the last five column years and can delete the non-relevant column in their hard copy. The WUEdata Portal will allow the user to select which five years of data will be reported and the non-relevant column will not be displayed.

**Note for row: Other water inflows can include overland surface flows from other districts, recycled water, imported water, direct diversions by growers, and any others. Add a row for each additional surface inflow and include a description. Do not include tailwater returns reused within the water district.

All User Input cells must be filled in. Use ‘0’ for non-applicable components.

Table V-2 Outflows

(Optional) Groundwater Basin: [Input groundwater basin number]

Outflow Component	AWMP Location for Supporting Calculations	How Quantified?	Uncertainty	How Quantified?	Water Year 19/20	Water Year 20/21	Water Year 21/22	Water Year 22/23	Water Year 23/24	Water Year 24/25*
Units	[Page number or Section]	[Drop down (Measured, Calculated, Modeled, Estimated)]	[Percent]	[Drop down (Measured, Calculated, Modeled, Estimated)]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]	[Acre-feet per year]
Evapotranspiration (Crop Consumptive Use)										
Surface Outflows										
Deep Percolation										
Other – Describe Each**										
Total										

*Note for columns: 5 years of data is required. The Supplier may select the first five column years or the last five column years and can delete the non-relevant column in their hard copy. The WUEdata Portal will allow the user to select which five years of data will be reported and the non-relevant column will not be displayed.

**Note for row: Other water outflows can include non-crop evaporation/evapotranspiration, flows to environmental uses within the service area, transfers, any other uses within the service area, and any other outflows from your district service area. Add a row for each additional surface outflow and include a description. The WUEdata Portal will allow the user to add additional rows and change the row description.

All User Input cells must be filled in. Use ‘0’ for non-applicable components.

4. Identify Water Management Objectives

Identify water management objectives based on water budget to improve water system efficiency

5. Quantify the Efficiency of Agricultural Water Use

Quantify the efficiency of agricultural water use with one of the four methods below; Please complete one or more of the following tables below, the WUEdata Portal will allow the user to select which table(s) to fill out; At least one table must be completed

Table V.D.1 Crop Consumptive Use Fraction

Evapotranspiration of Applied Water (ETAW)	Applied Water (AW)	Crop Consumptive Use Fraction
Acre-Feet per Year	Acre-Feet per Year	No Units

Table V.D.2 Agronomic Use Fraction

Evapotranspiration of Applied Water (ETAW)	Applied Water (AW)	Agronomic Use (AU)	Agronomic Use Fraction
Acre-Feet per Year	Acre-Feet per Year	Acre-Feet per Year	No Units

Table V.D.3 Total Water Use Fraction

Evapotranspiration of Applied Water (ETAW)	Applied Water (AW)	Agronomic Use (AU)	Environmental Water Use (EU)	Total Water Use Fraction
Acre-Feet per Year	Acre-Feet per Year	Acre-Feet per Year	Acre-Feet per Year	No Units

Table V.D.4 Water Management Fraction

Evapotranspiration of Applied Water (ETAW)	Recoverable Flows (RF)*	Water Management Fraction
Acre-Feet per Year	Acre-Feet per Year	No Units

Section VI: Climate Change

Insert description of the analysis of the effects climate change would have on future water supplies

Section VII: Water Use Efficiency Information

DWR encourages the agricultural water supplier to briefly describe EMWP implementation effects on operations that my have been experienced or that are anticipated

1. EWMP Implementation and Reporting

Insert report on which efficient water management practices have been implemented or planned to be implemented, an estimate of the water use efficiency improvements that have occurred since the last report, and an estimate of the water use efficiency improvements to occur five and 10 years in the future; Complete Table VII.A.1 and VII.A.2 below; DWR encourages completing Table VII.A.3 if grant funding is pursued

Table VII.A.1 Report of EMWPs Implemented/Planned

Water Code Section 10608.48(d), Section 10608.48(e), and Section 10826(e)

EWMP No.*	Description of EWMP Implemented	Description of EWMPs Planned
Critical 1		
Critical 2		
Conditional 1		
Conditional 2		
Conditional 3		
Conditional 4		
Conditional 5		
Conditional 6		
Conditional 7		
Conditional 8		
Conditional 9		
Conditional 10		
Conditional 11		
Conditional 12		
Conditional 13		

EWMP No.*	Description of EWMP Implemented	Description of EWMPs Planned
Conditional 14		
Other Optional EWMPs (as applicable)		

*Note: EWMP numbers correspond to Water Code Section 10608.48(c)

Table VII.A.2 Report of EWMPs Efficiency Improvements

Water Code Section 10608.48(d), Section 10608.48(e), and Section 10826(e)

Corresponding EWMP No.(s)*	Estimate of Water Use Efficiency Improvements That Occurred Since Las Report (Quantitative or Descriptive)	Estimated Water Use Efficiency Improvements 5 and 10 years in Future (Quantitative or Descriptive)

*Note: EWMP numbers correspond to Water Code Section 10608.48(c)

Table VII.A.3 Schedule to Implement EWMPs

Water Code Section 10608.56(d)

EWMP	Implementation Schedule	Finance Plan	Budget Allotment
Critical 1 – Water Measurement			
Critical 2 – Volume-Based Pricing			
Conditional 1 – Alternate Land Use			
Conditional 2 – Recycled Water Use			
Conditional 3 – On-Farm Irrigation Capital Improvements			
Conditional 4 – Incentive Pricing Structure			
Conditional 5 – Infrastructure Improvements			
Conditional 6 – Order/Delivery Flexibility			

EWMP	Implementation Schedule	Finance Plan	Budget Allotment
Conditional 7 – Supplier Spill and Tailwater Systems			
Conditional 8 – Conjunctive Use			
Conditional 9 – Automated Canal Controls			
Conditional 10 – Customer Pump Test/Eval.			
Conditional 11 – Water Conservation Coordinator			
Conditional 12 – Water Management Services to Customers			
Conditional 13 – Identify Institutional Changes			
Conditional 14 – Supplier Pump Improved Efficiency			
Other Optional EWMPs (as applicable)			
Grand Total All EWMPs			

2. Documentation for Non-Implemented EWMPs

Submit information documenting not-technically feasible and/or not locally cost-effective EWMPs. Complete Table VII.B, below; Details on calculations, technical reports, and other associated documents may be included in an attachment and referenced here for simplicity

Table VII.B Non-Implemented EWMP Documentation

Water Code Section 10608.48(d), Section 10608.48(e), and Section 10826(e)

EWMP No.	Description	Technically Infeasible	Not Locally Cost-Effective	Justification/Documentation*

*Note: Justification/Documentation can include summary cost-benefit analyses or engineering determinations with references to the specific study/agency/engineer responsible for making that determination

Section VIII: Supporting Documentation

1. Agricultural Water Measurement Regulation Documentation (as applicable for water suppliers >25,000 irrigated acres)

a) Legal Certification and Apportionment Required for Water Measurement

Insert Legal Certification and apportionment methodology, if applicable; Refer to guidebook section 6

b) Engineer Certification and Apportionment Required for Water Measurement

Insert Engineer Certification and apportionment methodology, if applicable; Refer to guidebook section 6

c) Description of Water Measurement Best Professional Practices

Insert description of Water Measurement Best Professional Practices; Refer to guidebook section 6

d) Documentation of Water Measurement Conversion to Volume

Insert documentation of flow, velocity, or water level conversion to water volume, if applicable; Refer to guidebook section 6

e) Device Corrective Action Plan Required for Water Measurement

Insert device repair plan, schedule, budget, and finance plan, if applicable; Refer to guidebook section 6

2. Delta Plan Consistency (if applicable)

Attach documentation of consistency with the Delta Plan, if applicable; Refer to guidebook Appendix C

3. Other Documents (if applicable)

Attach other supporting documentation, if applicable; Water supplier can also attach their completed checklist here