

Agricultural Water Management Plans

An Update to the California Water Commission

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Benefits of Agricultural Water Management Planning

- More efficient use of water supplies
- Integrated management approach
- Public participation
- Eligibility for State funding





Agricultural Water Management Plan Mandates

- AB 3616 (1990)
 - DWR to assist water districts in developing *voluntary* AWMPs
- SB X 7-7 (Water Conservation Act of 2009)
 - *Requires* formal adoption of AWMPs
 - *Requires* implementation of Efficient Water Management Practices (EWMPs)



AWMP Plan Content:

- Describes the district, service area, supply and demand
- Estimates efficiency improvements achieved & expected in next 5 & 10 years
- Documents compliance with the agricultural water measurement regulation
- Reports on implementation of Efficient Water Management Practices (EWMPs)

AWMP Coverage and Schedule

- Prepared every 5 years by agricultural districts supplying water to more than 25,000 acres
- Next plans must be adopted by December 31, 2015 and submitted to DWR within 30 days of adoption



EWMPs

- Critical
 - Two
 - Must be implemented
- Conditional
 - Fourteen
 - Are to be implemented unless they are not technically feasible or locally cost-effective



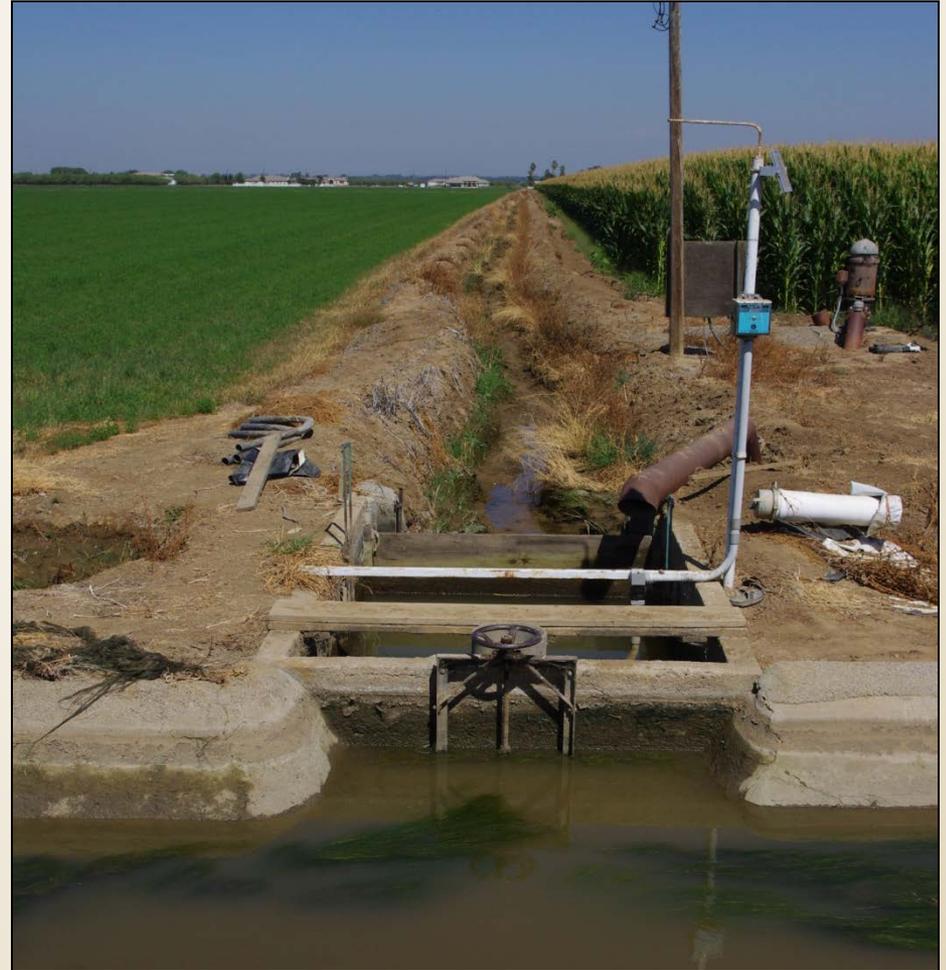
Critical EWMPs

- Water Measurement
- Volume-Based Pricing



Water Measurement Regulation

- Adopted by Water Commission and DWR
- Effective July 11, 2012
- Requires measurement at 5%, 10% or 12% accuracy at farm gate, based on specific criteria
- Reclamation BMP measurement criteria applies to CVPIA



Conditional EWMPs:

1. Alternative land use
2. Recycled water use
3. On-farm capital improvements
4. Incentive pricing structure
5. Infrastructure improvements
6. Order / delivery flexibility
7. Supplier spill and tail water systems



Conditional EWMPs, con't.

8. Conjunctive use
9. Automated canal control
10. Customer pump testing and evaluation
11. Conservation coordinator
12. Water management services to customers
13. Identify institutional changes
14. Supplier pump improved efficiency



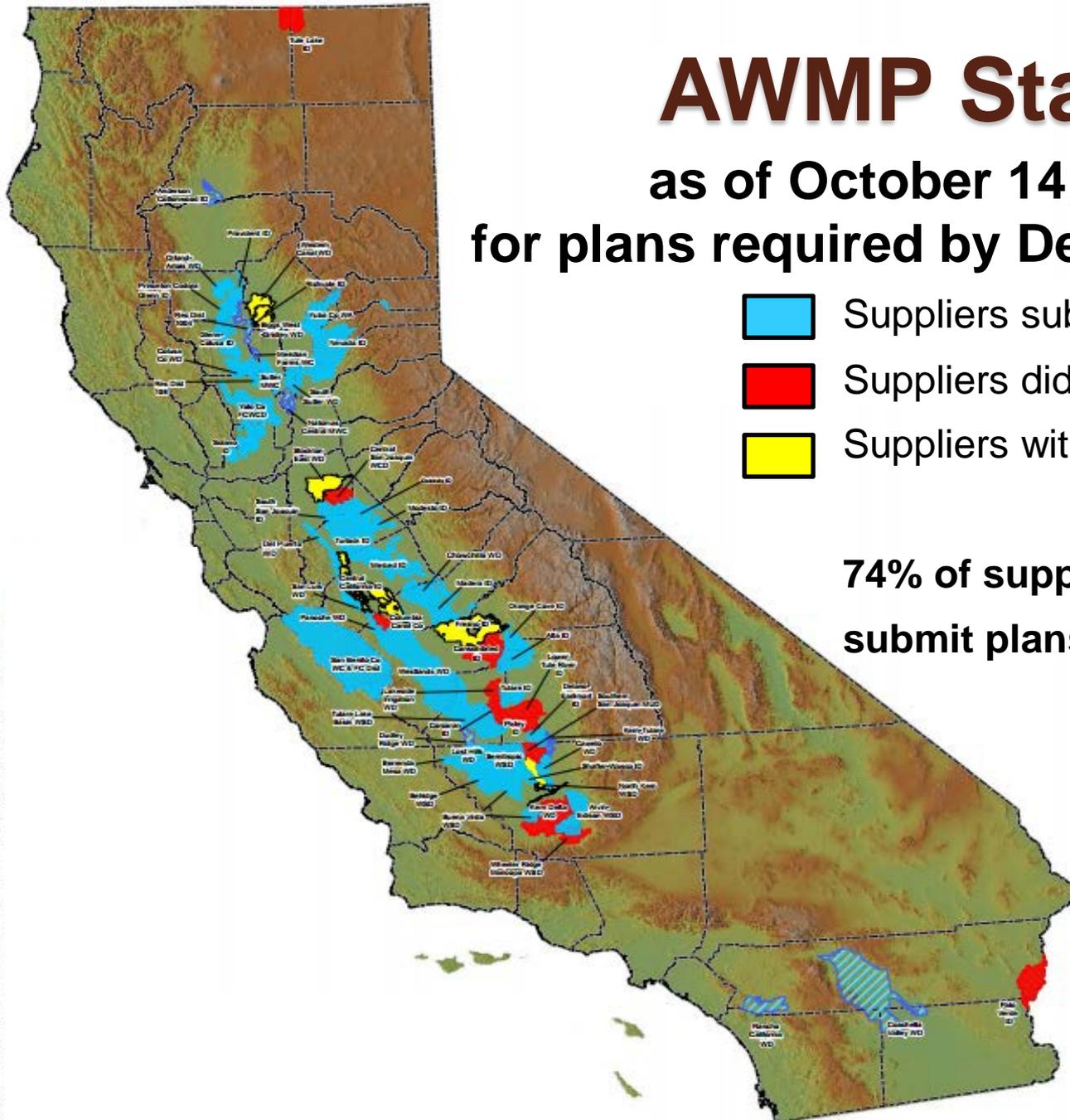
AWMP Status

as of October 14, 2014

for plans required by December 2012

-  Suppliers submitted plans (40)
-  Suppliers did not submit plans (9)
-  Suppliers with plans in progress (5)

74% of suppliers required to submit plans have complied



Grants for Ag WUE Planning and Implementation (2013 – 2014)

3 planning grants	\$150,000
11 EWMP implementation projects	\$10 million
<u>25</u> Outreach and technical assist.	<u>\$4.6 million</u>
39	\$14.75 million



EWMP Implementation WUE Grant Examples

Grantee	Project	Total Cost	Grant
Cawelo Water District 	Calloway Canal Lining Project	\$4,804,439	\$2,000,000
Ventura County Resource Conservation District 	Implementing Agricultural Efficient Water Management Practices in Ventura County	\$904,000	\$650,712
Placer County Water Agency 	Gunite Lining of Earthen Canal to Reduce Unrecoverable Water Loss	\$843,187	\$443,753
Yolo County Flood Control and Water Conservation District 	Winters Main Canal Modernization Project: Integrated Precision Water Management	\$2,175,000	\$1,431,500
Orland Unit Water Users Association	Orland Project Northside Distribution System Improvements	\$1,598,161	\$1,509,161
Tehama County Resource Conservation District 	Northern Sacramento Valley Mobile Irrigation Lab	\$229,791	\$200,000
Regents of the University of California 	Web-based irrigation scheduling tool for California crops	\$199,823	\$189,823
Napa County Resource Conservation District 	Deploying Mobile Water Labs to Achieve Regional Water Use Efficiency	\$282,492	\$194,613

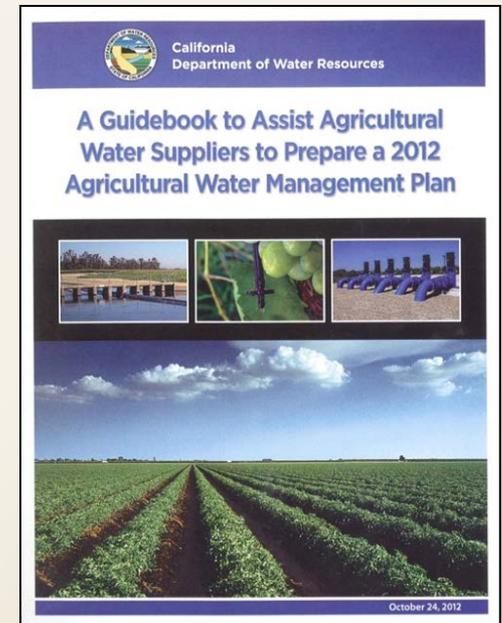
DWR Support for Ag Planning and Implementation, Drought: Workshops

- SB X 7-7 (AWMP, EWMPs, measurement regulation) – in Bakersfield, Fresno, Modesto, and Orland, 2012
- Leak detection: CA Rural Water Assoc. (5)
- Drought preparedness: UC ANR (9+ online videos), CRWA (5)



DWR Current and Future Actions: AWMPPs

- Updating Guidebook by early 2015
- Will conduct workshops and consult with stakeholders to improve and streamline plan submittal and review process





DWR Current and Future Actions: EWMPs

- Continue to provide technical assistance
- Promote research and development
- Review and update EWMPs
- Provide guidance for the reporting and quantification of water savings and estimates of water use efficiency improvements



For More Details

- PDF of plans submitted
- List of 2012 AWMPs Received
- Full maps of AWMP compliance
 - <http://www.water.ca.gov/wateruseefficiency>

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