

Delta Plan Performance Measures – Staff Recommendations

Delta Plan Chapter 3: A More Reliable Water Supply for California

Strategies supporting this chapter:

1. Increase water conservation and expand local and regional supplies
2. Improve groundwater management
3. Improve conveyance and expand storage
4. Improve water management information

Ref. #	Strategy #	Policy or Rec.	Short Title	Type	Current Delta Plan Wording	Proposed Delta Plan Wording or Recommended Reclassification (in bold)	Performance Measure Components
3.25	1	WR R1	Percentage change in urban per capita water use	Outcome	Progress toward meeting California's conservation goal of achieving a 10% reduction in statewide urban per capita water usage by 2015 and a 20% reduction by 2020.	Demonstrate California's urban water suppliers' progress toward meeting California's SB X7-7 conservation goal of achieving a 10% reduction in statewide urban per capita water usage by 2015 and a 20% reduction by 2020.	<p>Metrics:</p> <ul style="list-style-type: none"> • Gallons per capita per day of urban water use. • Percentage change in urban per capita water use from SB X7-7 baseline years. <p>Baseline:</p> <ul style="list-style-type: none"> • Set for each hydrologic region by the Department of Water Resources then by each individual urban supplier in their 2010 Urban Water Management Plans using a 10-15 year base period. <p>Target:</p> <ul style="list-style-type: none"> • Set for each hydrologic region by the Department of Water Resources then by each urban supplier in their 2010 Urban Water Management Plans using one of four methodologies. <p>Data Sources:</p> <ul style="list-style-type: none"> • Urban Water Management Plans. • Public Water System Statistics. • State Water Resources Control Board's Conservation Reporting. <p>Notes:</p> <ul style="list-style-type: none"> • This target may be expanded if future legislation sets further goals for urban water conservation.
3.26	1	WR R6	Increase storm water use	Outcome	Progress toward achieving California's goal for the increased use of storm water runoff of at least 500,000 AF/year by 2020 and by at least 1 MAF/year by 2030.	Demonstrate California's progress toward achieving the State Water Resource's Control Board's Recycled Water Policy goal for the increased use of storm water runoff (e.g. capture and reuse, recharge, redirection to constructed wetlands or landscaping) of at least 500,000 AF/year by 2020 and by at least 1 MAF/year by 2030.	<p>Metric:</p> <ul style="list-style-type: none"> • Acre-feet per year of storm water use (e.g. capture and reuse, recharge, redirection to constructed wetlands or landscaping). <p>Baseline:</p> <ul style="list-style-type: none"> • Volume of storm water use reported in 2015 Urban Water Management Plans and Prop 1 Storm Water Resource Plans may be the first widespread reporting of storm water use that could serve as a baseline. <p>Target:</p>

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							<ul style="list-style-type: none"> Increased use of storm water runoff of at least 500,000 AF/year by 2020 and by at least 1 MAF/year by 2030. <p>Data Sources:</p> <ul style="list-style-type: none"> Urban Water Management Plans. Storm Water Resource Plans. <p>Notes:</p> <ul style="list-style-type: none"> This target and baseline is likely to be changed in the coming months through the State Board's Storm Water Program's Strategy to Optimize Resource Management of Storm Water (STORMS). STORMS proposes setting new regional storm water use baselines and targets as well as regionally-based metrics for short-term and long-term storm water capture and beneficial use goals. STORMS may provide reporting that could become a data source in the future.
3.27	1	WR P1	Increase local and regional supplies	Outcome	Progress toward increasing local and regional water supplies, measured by the amount of additional supplies made available (reported in 5-year increments from 2000).	<p>REMOVED</p> <p><u>Notes:</u> The amount of water imported from the Delta and the amount of water available from local and regional supplies are both aspects of reducing reliance on the Delta and have been combined into one measure (see 3.28).</p>	N/A because this measure is being removed.
3.28	1	WR R1 WR R4	Measurable reduction in reliance on the Delta	Output	Water suppliers that receive water from the Delta watershed have documented the expected outcome for a measureable reduction in reliance on the Delta and improvement in regional self-reliance.	Demonstrate that water suppliers that receive water from the Delta watershed have reduced reliance on the Delta and improved regional self-reliance.	<p>Metrics:</p> <ul style="list-style-type: none"> Volume and percent of total water used originating in the Delta watershed. Acre-feet per year of water use met from local and regional sources. Acre-feet per year of projected use of local and regional sources of supply. <p>Baseline:</p> <ul style="list-style-type: none"> Average Delta imports by hydrologic region as of Delta Plan adoption (May 2013), volume of local and regional supplies by hydrologic region as of Delta Plan adoption (May 2013). <p>Target:</p> <ul style="list-style-type: none"> Decreasing trend in volume of water imported from the Delta or percent of total water use met by Delta imports. Increase in local and regional supplies. The Delta Plan calls for "significant" reduction in reliance on the Delta, but not a specific amount of reduction or a specific timeframe. <p>Data Sources:</p> <ul style="list-style-type: none"> CA Water Plan. Urban Water Management Plans. Central Valley Project/ State Water Project Export Reports.

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3.31	1	WR R6	Meeting and setting goals	Output	Progress made in achieving existing water conservation and water supply performance goals, and setting expanded future goals for local, regional, and statewide water conservation, water use efficiency, and water supply development.	REMOVED Notes: Progress made in achieving existing goals will be covered in other performance measures including 3.25, 3.26, and 3.27. Setting expanded future goals is covered by administrative measure WR R06-01.	N/A because this measure is being removed.
3.34	1	WR R1	Agricultural water use efficiency	Output	N/A: new measure	Demonstrate an increase in efficiency in agricultural water use.	<p>Metrics: These metrics were defined by Department of Water Resources in Methodology for Quantifying the Efficiency of Agricultural Water Use, 2012.</p> <ul style="list-style-type: none"> Total water use fraction. Water management fraction. <p>Baseline::</p> <ul style="list-style-type: none"> 2012 Agricultural Water Management Plans or first available data as they are reported by water suppliers (see note). <p>Target::</p> <ul style="list-style-type: none"> Increase in efficiency. <p>Data Source:</p> <ul style="list-style-type: none"> Agricultural Water Management Plans. <p>Notes:</p> <ul style="list-style-type: none"> These metrics are currently included in some Agricultural Water Management Plans but are not required. Department of Water Resources has indicated that although these metrics are not currently required reporting, they are the ideal metrics for measuring agricultural water use efficiency. If they become a required element for Agricultural Water Management Plans, Department of Water Resources plans to include these metrics in the CA Water Plan aggregated to the basin level.
3.32	2	WR R9	Groundwater management planning	Output	Information in updated Bulletin 118 is included in the next (2013) California Water Plan Update and in the 2015 UWMPs and AWMPs.	<p>Administrative Measure: Information in updated Bulletin 118 is included in the next (2018) California Water Plan Update and in the 2020 UWMPs and AWMPs.</p> <p><u>Notes:</u> Wording changed to reflect requirements of the 2014 Sustainable Groundwater Management Act.</p>	N/A because this measure is being reclassified as administrative.

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3.33	2	WR R11	Recover and Manage Critically Overdrafted Basins	Outcome	N/A: new measure	Demonstrate progress towards decreasing the overall rate of groundwater depletion in critically overdrafted basins.	<p>Metrics:</p> <ul style="list-style-type: none"> Change in groundwater in storage. Groundwater elevations. <p>Baseline:</p> <ul style="list-style-type: none"> Regional groundwater estimates for California's Central Valley using satellite-based gravimetric sensors are available back to October of 2003. California Department of Water Resources has a network of long-term wells in the San Joaquin Valley (3124 wells) and Sacramento Valley (599 wells) that will be used to assess sub-basin groundwater trends. <p>Target:</p> <ul style="list-style-type: none"> Decreasing rate of groundwater depletion in critically overdrafted basins <p>Data Sources:</p> <ul style="list-style-type: none"> US Geological Survey's Central Valley Hydrologic Model. Gravity Recovery and Climate Experiment (GRACE). Sustainable Groundwater Management Plans. California Statewide Groundwater Elevation Monitoring (CASGEM). CA Water Plan.
3.29	3	WR R12 ER P1 RR P1	Improve export reliability	Outcome	Progress toward improved reliability of Delta water exports and reductions in the vulnerability of Delta exports to disruption.	Demonstrate that water available to be exported through the Delta is not disrupted.	<p>Metric:</p> <ul style="list-style-type: none"> Percent of Central Valley Project/State Water Project allocations delivered each year. <p>Baseline:</p> <ul style="list-style-type: none"> N/A because this measure has a prescribed target and is not showing a change from a baseline. <p>Target:</p> <ul style="list-style-type: none"> Actual deliveries are within 10% of allocations. <p>Data Source:</p> <ul style="list-style-type: none"> Central Valley Project/State Water Project allocation and delivery reports.
3.30	3	WR R12 WR R14	Increase delivery predictability	Outcome	Progress toward increasing the predictability of water deliveries from the Delta in a variety of water year types.	<p>REMOVED</p> <p><u>Notes:</u> This measure is duplicative and addressed by 3.29.</p>	N/A because this measure is being removed.