

# Suisun-Solano Water Authority Self-Certified Water Conservation Standard

Public Water System 4810005

The State Water Resources Control Board (State Water Board) adopted Emergency Water Conservation Regulations (Resolution No. 2016-0029) on May 18, 2016, and will remain in effect through January 2017. The 2016 Regulations require water suppliers to identify and report the water conservation standard they must meet. A “water conservation standard” is the percent reduction in monthly water production compared to the amount used in the same month in 2013. The 2016 Regulations replace the prior water conservation standard, or target, with a standard based on an agency’s specific circumstances related to water supplies and demand. This standard is calculated by the water supplier itself and certified to be based on information and assumptions that must be reported to the State Water Board and posted on a publically-accessible webpage. This calculation, known as the water supply “Stress Test,” addresses the Suisun-Solano Water Authority (SSWA) water conservation standard for the years 2017, 2018, and 2019.

The Conservation Standard is calculated by comparing the projected water demand with the projected water supplies available in 2017, 2018 and 2019.

## Projected Water Demand

The 2016 Regulations require SSWA to assume that the water demand in 2017-2019 will be equal to the average water production in 2013 and 2014. SSWA’s demand is as follows:

Gross production of Potable Water from the Cement Hill Water Treatment Plant:

2013	4,282 acre-feet
2014	3,700 acre-feet
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Average demand:	3,991 acre-feet

(An acre-foot is the volume of water that covers an area one acre in size to a depth of one foot; it equals 326,000 gallons.) Therefore,

Assumed 2017 water demand = 3,991 acre-feet

Assumed 2018 water demand = 3,991 acre-feet

Assumed 2019 water demand = 3,991 acre-feet

## Projected Water Supply

SSWA has three sources of water, and the projected amounts available for 2017-19 are as follows. These sources are actually allocated to the two agencies that partnered to form SSWA – the City of Suisun City and Solano Irrigation District.

- 1) Suisun City has an Entitlement of the Federal Solano Project (Lake Berryessa) that is totally dedicated for use by SSWA. The projects amounts available are:  
2017: 1,600 acre feet  
2018: 1,520 acre feet  
2019: 1,520 acre feet

- 2) Solano Irrigation District has agreed to supply water to SSWA sufficient to meet annual demand in excess of the Suisun City Entitlement. The projects amounts available are:
 

2017	2,391 acre feet
2018	2,471 acre feet
2019	2,471 acre feet
  
- 3) Suisun City has an entitlement from the State Water Project that is currently not available due to the lack of conveyance facilities to deliver water to the Cement Hill Water Treatment Plant.

Therefore the total projected water supply for 2017, 2018, 2019 = 3,991 acre feet /year

Conservation Standard

The Conservation Standard is calculated to be the projected demand minus the projected supply, called the Shortfall, expressed as a percentage of the projected demand. For SSWA the calculations are:

<u>Year</u>	<u>Demand</u>	<u>Supply</u>	<u>Shortfall</u>	<u>Conservation Standard</u>
2017	3,991 ac-ft	3,991 ac-ft	0 ac-ft	0%
2018	3,991 ac-ft	3,991 ac-ft	0 ac-ft	0%
2019	3,991 ac-ft	3,991 ac-ft	0 ac-ft	0%

In other words, with no supply shortfall projected for 2017-2019, the Conservation Standard is 0%.