



Action Item 17

Receive and Confirm Water Supply Forecast for May 1, 2016 through September 30, 2017 Period

Meeting Date: May 16, 2016

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Long-Term Water Supply Forecast: May 2016 – September 2017

- This forecast applies to current and projected water supply and demand conditions in the *Monterey Peninsula Water Resource System*.
- This *system* includes surface water in the Carmel River and its tributaries and groundwater in the Carmel Valley Alluvial Aquifer and Seaside Groundwater Basin.

Long-Term Water Supply Forecast: May 2016 – September 2017

Monterey Peninsula Water Resource System



Long-Term Water Supply Forecast: May 2016 – September 2017

- This forecast considers California American Water (Cal-Am) and non Cal-Am water demands from these sources during the May 2016 through September 2017 period.
- This forecast is based on all usable surface and groundwater storage in the system as of May 1, 2016, which is termed “carryover” storage.

Long-Term Water Supply Forecast: May 2016 – September 2017

Carryover Storage as of May 1, 2016

STORAGE FACILITY	MAXIMUM STORAGE CAPACITY (AF)	CURRENT STORAGE (AF)	PERCENT OF MAXIMUM CAPACITY (%)
<u>RESERVOIR</u>			
LOS PADRES	1,670	1,670	100%
<u>AQUIFERS</u>			
UPPER CARMEL VALLEY	6,530	6,150	94%
LOWER CARMEL VALLEY	21,930	17,890	82%
SEASIDE COASTAL	<u>7,510</u>	<u>3,460</u>	46%
TOTAL SYSTEM	37,640	29,170	77%

Physical Storage Target for the Monterey Peninsula Water Resource System for the May-September 2016 and all WY 2017

PRODUCER	MAY-SEPTEMBER DEMAND	CARRYOVER STORAGE NEEDS FOR NEXT YEAR DEMAND	TOTAL STORAGE REQUIRED ON MAY 1
California American Water (Cal-Am)	6,387	11,712	18,099
Non Cal-Am	1,946	3,046	4,992
Total	8,333	14,758	23,091
			TOTAL STORAGE
			29,170 ⁵

Notes:

1. The May-September period refers to the remainder of the current water year.
2. Carryover storage refers to the volume of usable surface and groundwater that is in storage at the end of the current water year and is projected to be available for use at the beginning of the following water year.
3. Total storage refers to the combination of demand remaining from May 1 to the end of the current water year and carryover storage for the next water year that is required to avoid imposing various levels of water rationing. The value in **bold type** represents the storage trigger that would be used for the system in Water Year 2016. The value is based on the production limits for California American Water (Cal-Am) from Carmel River sources (9,703 acre-feet in WY 2016 and 9,461 acre-feet in WY 2017) set by State Water Resources Control Board Order WR 2009-0060, the production limit for Cal-Am from the Seaside Groundwater Basin (2,251 acre-feet in WY 2016 and 2,251 in WY 2017) set by the Court in its March 27, 2006 adjudication decision, and the production limit specified for non Cal-Am users from the Monterey Peninsula Water Resource System set in the District's Water Allocation Program (Ordinance No. 87).
4. The rationing trigger is based on physical water availability and does not account for legal or environmental constraints on diversions from the Carmel River system.
5. May 1, 2016 System Storage = 29,170 AF (24,040 AF Carmel Valley Alluvial Aquifer; 3,460 AF Seaside Groundwater Basin; 1,670 AF Los Padres Reservoir); this is 93% of average and 77% of system capacity (37,640 AF).

Long-Term Water Supply Forecast: May 2016 – September 2017

- Total usable system storage as of May 1, 2016 is **29,170** acre-feet.
- To avoid mandatory water rationing, **23,091** acre-feet of carryover storage is required.
- Accordingly, the current amount of carryover storage is sufficient to begin Water Year 2017 with a full year's supply in reserve.

Long-Term Water Supply Forecast: May 2016 – September 2017

Notes:

- This *Water Supply Forecast* is based on actual water storage conditions and does not account for other environmental considerations such as riparian and aquatic resources.
- The rationing trigger for this *Water Supply Forecast* has been adjusted to reflect the appropriate reductions in pumping from the Carmel River and Seaside Groundwater Basins.

Long-Term Water Supply Forecast: May 2016 – September 2017

Recommendation:

- Receive the *Long-Term Water Supply Forecast for the Monterey Peninsula Water Resource System* for the May 2016 through September 2017 period.
- Given current carryover storage, mandatory water rationing is not required under District rules at this time.
- MPWMD shall continue implementation of its water conservation provisions currently in place.