

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT										
WATER DISTRIBUTION SYSTEM REPORT - WATER YEAR 2016										
SYSTEM	REPORTING METHOD	PRODUCTION (AF)	DELIVERY (AF)	UNACCOUNTED (%)	CONNECTIONS					
					ACTIVE	AVG. PROD./ CONNECTION (AF)	AVG. DEL./ CONNECTION (AF)	NEW	SOURCE AREA	
CAW (CAL-AM) Main System	WM	9,335.41	8,832.79	5.4%	37,600	0.25	0.23	7	AS1-4, SCS	
SEASIDE MUNI	WM	195.14	N.A.	N.A.	788	0.25	N.A.	0	SCS	
MONTEREY BAY SHORES	WM	0.00	0.0	0.0%	0	0.00	0.0	0	SCS	
MPWMD ASR-1	WM	0.00	N.A.	N.A.	1	0.00	N.A.	0	SCS	
ABADIR (A)	WM	0.00	0.0	0.0%	0	0.00	0.00	0	AS2	
ABADIR C (MANSON)	WM	0.02	N.A.	N.A.	1	0.02	N.A.	0	AS2	
ANIMAL FARM	WM	1.09	N.A.	N.A.	1	1.09	N.A.	0	AS2	
CARMEL VALLEY ROAD II	WM	1.59	N.A.	N.A.	4	0.40	N.A.	0	AS2	
CHANEY/SCHAFFER	LU	0.41	N.A.	N.A.	2	0.21	N.A.	0	AS2	
FAIR WEATHER	LU	1.26	N.A.	N.A.	2	0.63	N.A.	0	AS2	
GOOD NEIGHBOR	LU	1.24	N.A.	N.A.	2	0.62	N.A.	0	AS2	
JONES	LU	0.23	N.A.	N.A.	1	0.23	N.A.	0	AS2	
RANCHO SAN CARLOS ROAD	WM	1.30	N.A.	N.A.	3	0.43	N.A.	0	AS3	
RIVERSIDE RV PARK	WM	8.60	N.A.	N.A.	N.A.	N.A.	N.A.	0	AS3	
SCHUT/JONES	LU	2.72	N.A.	N.A.	2	1.36	N.A.	0	AS3	
SELLE	LU	0.09	N.A.	N.A.	2	0.05	N.A.	0	AS3	
SAN MARCO	WM	2.86	N.A.	N.A.	3	0.95	N.A.	0	AS3	
CANADA WOODS ALLUVIAL	WM	56.08	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	AS3	
AIELLO	WM	0.23	N.A.	N.A.	1	0.23	N.A.	0	AS3	
ALADWELL (ADDISON)	WM	2.30	N.A.	N.A.	2	1.15	N.A.	0	AS3	
LATTA IRRIGATION (was BARDIS)	WM	1.00	N.A.	N.A.	1	1.00	N.A.	0	AS3	
LATTA DOMESTIC (was BARDIS 2)	WM	0.05	N.A.	N.A.	1	0.05	0.00	0	AS3	
ST. DUNSTAN'S	WM	0.21	N.A.	N.A.	1	0.21	N.A.	0	AS3	
ALL SAINTS	WM	0.41	N.A.	N.A.	1	0.41	N.A.	0	AS3	
RSCrd#3/HATTON RANCHO	WM	3.37	N.A.	N.A.	3	1.12	N.A.	0	AS3	
CARMEL GREENS	WM	6.54	N.A.	N.A.	1	6.54	N.A.	0	AS4	
CLARK/WELLS FARGO	WM	0.00	0.0	0.0%	0	0.00	0.00	0	AS4	
MAL PASO	WM	0.00	0.0	0.0%	0	0.00	0.00	0	AS4	
CACHAGUA RD. 1	WM	0.20	N.A.	N.A.	3	0.07	N.A.	0	CAC	
CACHAGUA RD. 2	LU	0.92	N.A.	N.A.	9	0.10	N.A.	0	CAC	
VALLEY CREEK (JENSEN) MHP	WM	8.02	N.A.	N.A.	24	0.33	N.A.	0	CAC	
NASON ROAD	LU	0.00	N.A.	N.A.	4	0.00	N.A.	0	CAC	
PRINCES CAMP	WM	7.15	N.A.	N.A.	50	0.14	N.A.	0	CAC	
AGUA FRESCA	WM	1.09	N.A.	N.A.	2	0.55	N.A.	0	CVU	
BOOTH	WM	0.46	N.A.	N.A.	1	0.46	N.A.	0	CVU	
BOSSO (from LU method in 07)	WM	1.93	N.A.	N.A.	2	0.97	N.A.	0	CVU	
CANADA WOODS UPLAND	WM	110.20	N.A.	N.A.	61	1.81	N.A.	6	CVU	
COUNTRY CLUB ROAD	LU	1.40	N.A.	N.A.	5	0.28	N.A.	0	CVU	
CHOPIN	WM	0.06	N.A.	N.A.	1	0.06	N.A.	0	CVU	
DOLLASE	WM	2.39	N.A.	N.A.	4	0.60	N.A.	0	CVU	
FRUMKIN	WM	0.15	N.A.	N.A.	1	0.15	N.A.	0	CVU	
HYLES (RIVERA/HOMZA)	WM	0.10	N.A.	N.A.	1	0.10	N.A.	0	CVU	
LOS ROBLES ROAD	WM	15.20	N.A.	N.A.	6	2.53	N.A.	0	CVU	
P&M RANCH	WM	8.20	N.A.	N.A.	6	1.37	N.A.	0	CVU	
PELIO	WM	9.09	N.A.	N.A.	1	N.A.	N.A.	0	CVU	
RANCHO DE ROBLEDEO	WM	7.63	N.A.	N.A.	7	1.09	N.A.	0	CVU	
SADDLE MOUNTAIN	WM	2.75	N.A.	N.A.	26	0.11	N.A.	0	CVU	
SCHULTE ROAD	WM	1.89	N.A.	N.A.	5	0.38	N.A.	0	CVU	
SLEEPY HOLLOW	WM	44.92	N.A.	N.A.	17	2.64	N.A.	0	CVU	
TAO WOODS MUTUAL	WM	1.67	N.A.	N.A.	4	0.42	N.A.	0	CVU	
MARCUS (TOBEY-WAGNER) WDS	WM	0.77	N.A.	N.A.	1	0.77	N.A.	0	CVU	
KORSTANJE (CARDINALLI) WDS	WM	0.10	N.A.	N.A.	1	0.10	N.A.	0	CVU	
CASS WDS	WM	2.20	N.A.	N.A.	1	2.20	N.A.	0	CVU	
FAASSE (EVANS) WDS	WM	0.04	N.A.	N.A.	0	N.A.	N.A.	0	CVU	
GODDRICH-POTRERO	WM	0.00	N.A.	0.0%	0	N.A.	N.A.	0	CVU	
GRANITE WDS	WM	0.16	N.A.	0.0%	1	0.16	0.00	0	CVU	
GREENWALL-Kyung Cho (KING)	WM	0.00	N.A.	N.A.	0	N.A.	N.A.	0	CVU	
HELENIUS (LYON) WDS	WM	0.09	N.A.	N.A.	1	0.09	N.A.	0	CVU	
PAGE/BOUC WDS	WM	1.96	N.A.	N.A.	2	0.98	N.A.	0	CVU	
HOLBROOK (POSPISHIL) WDS	WM	0.00	N.A.	N.A.	0	N.A.	N.A.	0	CVU	
WOODS (PREW) WDS	WM	0.30	N.A.	N.A.	1	0.30	N.A.	0	CVU	
R. JONES	WM	0.24	N.A.	N.A.	1	0.24	N.A.	0	CVU	
LARSON	WM	0.00	0.1	0.0%	1	0.00	0.00	0	CVU	
FOREMAN	WM	0.02	0.0	0.0%	1	0.02	N.A.	0	CVU	
GUENTHER	WM	0.03	N.A.	N.A.	1	0.03	N.A.	0	CVU	
D. GRIGGS	WM	7.22	N.A.	N.A.	1	7.22	N.A.	0	CVU	
WARNER (K. GRIGGS)	WM	1.81	N.A.	N.A.	1	1.81	N.A.	0	CVU	
JOHNSON	WM	0.16	N.A.	N.A.	1	0.16	N.A.	0	CVU	
HAMERSLOUGH (LITT)	WM	0.00	N.A.	0.0%	1	0.00	N.A.	0	CVU	
WEST	WM	0.52	N.A.	N.A.	1	0.52	N.A.	0	CVU	
BENTLEY (RUSEK)	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU	
OH WELL/CAMPBELL (POOLE)	WM	0.16	0.0	0.0%	1	0.00	0.00	0	CVU	
BELLAMY	WM	1.16	N.A.	N.A.	1	1.16	N.A.	0	CVU	
LONG RIDGE SLCS	WM	0.35	N.A.	N.A.	123	0.00	N.A.	0	CVU	
SLEEPY HOLLOW 16/COLLINS	WM	0.00	0.0	0.0%	0	0.00	N.A.	0	CVU	
SLEEPY HOLLOW 17/COLLINS	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU	
SYCAMORE STABLES	WM	0.27	N.A.	0.0%	1	0.27	N.A.	0	CVU	
STEMPLE	WM	0.00	N.A.	N.A.	0	0.00	N.A.	0	CVU	
WHITE	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU	

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					ACTIVE	AVG. PROD./ CONNECTION (AF)	AVG. DEL./ CONNECTION (AF)	NEW	
DALE	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
RODDICK	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
OLSON (OUTZEN)	WM	0.04	N.A.	N.A.	1	0.04	N.A.	0	CVU
BURLEIGH	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
QUAIL MEADOWS DR. (Walter)	WM	0.00	0.0	0.0%	1	0.00	0.00	1	CVU
GIBSON	WM	0.38	N.A.	N.A.	1	0.38	N.A.	0	CVU
ZBES (Belzberg)	WM	0.97	N.A.	N.A.	1	0.97	N.A.	0	CVU
FLANAGAN (DYER)	WM	0.58	N.A.	N.A.	1	0.58	N.A.	0	CVU
NEWSOME	WM	0.47	N.A.	N.A.	1	0.47	N.A.	0	CVU
SAXTON	WM	0.10	N.A.	N.A.	1	0.10	N.A.	0	CVU
WASHBURN	WM	0.07	N.A.	N.A.	1	N.A.	N.A.	1	CVU
DOBBS	WM	0.43	N.A.	N.A.	1	0.43	N.A.	0	CVU
RICHERS	WM	1.69	0.0	0.0%	1	0.00	N.A.	1	CVU
AMATYA	WM	0.01	0.0	0.0%	1	0.00	N.A.	0	CVU
UNITARIAN CHURCH	WM	0.40	N.A.	N.A.	2	0.20	N.A.	0	CVU
COOPER	WM	0.00	0.0	0.0%	0	0.00	N.A.	0	CVU
GARCIA	WM	0.00	0.0	0.0%	0	0.00	N.A.	0	CVU
CONDON/CHUGACH	WM	0.07	0.0	0.0%	1	0.00	0.00	1	CVU
ROBERTS	WM	1.66	N.A.	N.A.	1	1.66	N.A.	0	CVU
KAMINSKI	WM	0.08	N.A.	N.A.	1	0.08	N.A.	0	CVU
FRANKS	WM	0.91	N.A.	N.A.	1	0.91	N.A.	0	CVU
PEBKAR	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
RUTHERFORD (BUCHHOLZ)	WM	1.64	N.A.	N.A.	1	1.64	N.A.	0	CVU
GARREN QUAIL MEADOWS	WM	0.46	N.A.	N.A.	1	0.46	N.A.	0	CVU
SCHWARTZ	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
SADDLE ROAD GROUP	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
218 RANCH (ZOE)	WM	0.00	0.0	0.0%	0	0.00	0.00	0	CVU
NIXON (FLAGLER)	WM	0.03	0.0	0.0%	1	0.00	0.00	1	CVU
SEPTEMBER RANCH PTNRS.	WM	60.57	N.A.	N.A.	1	60.57	N.A.	0	CVU
HILLTOP RANCH	WM	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	CVU
CAW BISHOP UNIT	WM	134.54	133.7	0.7%	380	0.35	0.35	0	LSS
CAW HIDDEN HILLS UNIT	WM	125.45	104.8	16.5%	450	0.28	0.23	0	LSS
CAW RYAN RANCH UNIT	WM	56.73	53.1	6.5%	197	0.29	0.27	0	LSS
SPCA	WM	6.06	N.A.	N.A.	2	3.03	N.A.	0	LSS
CASANOVA WDS	WM	1.07	N.A.	N.A.	1	1.07	N.A.	0	MIS
AGUAJITO ROAD	WM	3.74	N.A.	N.A.	4	0.94	N.A.	0	MIS
FLAGG HILL	WM	1.50	N.A.	N.A.	2	0.75	N.A.	0	MIS
HIDDEN MESA	WM	0.33	N.A.	N.A.	3	0.11	N.A.	0	MIS
MESSINGER/MELNICK	WM	0.00	0.0	0.0%	0	0.00	0.00	0	MIS
MONTEERRA RANCH	WM	59.89	N.A.	17.5%	117	0.51	N.A.	0	MIS
PT LOBOS RANCH	WM	2.56	N.A.	N.A.	8	0.32	N.A.	0	MIS
RILEY RANCH	WM	1.59	N.A.	N.A.	3	0.53	N.A.	0	MIS
RANCHITOS DE AGUAJITO	WM	7.40	N.A.	N.A.	10	0.74	N.A.	0	MIS
SENA TRUST	WM	2.82	N.A.	N.A.	2	1.41	N.A.	0	MIS
TROSKY	WM	0.00	0.0	0.0%	1	0.00	0.00	0	MIS
HEAD	WM	0.28	N.A.	N.A.	1	0.28	N.A.	0	MIS
CARMEL HILL	WM	0.00	0.0	0.0%	0	0.00	0.00	0	MIS
COLGAC	WM	0.16	N.A.	N.A.	1	0.00	N.A.	0	MIS
KASHFI	WM	0.00	0.0	0.0%	0	N.A.	N.A.	0	MIS
SUNRISE SENIOR CENTER	WM	0.44	N.A.	N.A.	1	0.44	N.A.	0	MIS
DUNNION	WM	0.61	N.A.	N.A.	1	0.61	N.A.	0	MIS
DMC	WM	0.00	N.A.	N.A.	1	0.00	N.A.	0	MIS
MAYL (D.P. CARMEL INVESTORS)	WM	0.09	N.A.	N.A.	1	0.00	N.A.	0	MIS
LAUCH	WM	0.32	N.A.	N.A.	1	0.32	N.A.	0	MIS
THORP	WM	0.05	0.0	N.A.	1	0.05	N.A.	0	MIS
REGAN	WM	1.43	N.A.	N.A.	1	1.43	N.A.	0	MIS
CARROLL/RANCHO U	WM	0.48	N.A.	N.A.	1	N.A.	N.A.	0	MIS
LENZ-KENDALL	WM	1.07	N.A.	N.A.	1	1.07	N.A.	0	MIS
ANDERSON	WM	0.02	N.A.	N.A.	1	0.02	N.A.	0	MIS
GREEK ORTHODOX	WM	0.03	N.A.	N.A.	1	0.03	N.A.	1	MIS
STEPHEN PLACE	WM	0.00	0.0	0.0%	0	0.00	0.00	0	MIS
FLORES	WM	1.22	N.A.	N.A.	1	0.00	0.00	1	MIS
PISENTI	WM	0.00	0.0	0.0%	0	0.00	0.00	0	MIS
ADRIAN	WM	0.68	N.A.	N.A.	1	0.68	N.A.	0	MIS
TYDINGS/Cappo	WM	1.44	N.A.	N.A.	3	0.48	N.A.	1	MIS
GOLLOGLY (Garren Highlands)	WM	0.19	N.A.	N.A.	1	0.19	N.A.	0	MIS
SILVESTRI	WM	0.26	N.A.	N.A.	1	0.26	N.A.	0	MIS
VAN ESS	WM	0.05	N.A.	N.A.	1	0.05	N.A.	0	MIS
COX (HARTNETT)	WM	0.48	N.A.	N.A.	1	N.A.	N.A.	0	MIS
OCEAN VIEW CSD	WM	0.00	0.0	0.0%	0	0.00	0.00	0	MIS
CITY OF SAND CITY DESAL	WM	160.94	N.A.	N.A.	1	N.A.	N.A.	0	MIS
TOTALS:		10,348.68			40,030			21	

WATER DISTRIBUTION SYSTEM REPORT – WATER YEAR 2016

Notes:

1. Information shown is as provided by system owners and operators unless otherwise noted.
2. Methods for reporting production are either Land Use (LU) or Water Meter (WM).
3. The source areas are as follows:
 AS1 – Upper Carmel Valley – San Clemente Dam to Esquiline Bridge
 AS2 – Mid Carmel Valley – Esquiline Bridge to Narrows
 AS3 – Lower Carmel Valley – Narrows to Via Mallorca Bridge
 AS4 – Via Mallorca Bridge to Lagoon
 SCS – Seaside Coastal Subareas
 CAC – Cachagua
 CVU – Carmel Valley Upland
 LSS – Laguna Seca Subarea
 MIS – Peninsula, Carmel Highlands and San Jose Creek areas
4. California American Water (Cal-Am) Main System production includes 2,168.8 AF from Seaside coastal wells and 7,704.9 AF from Carmel Valley wells. No water was transferred to the Seaside Municipal Water System in WY 2016. The Carmel Valley well total includes 1.31 AF transferred to the Ryan Ranch Unit in 2016. 160.9 AF of potable water were produced by the City of Sand City Desalination Plant, provided to the main system, and are shown on the last line of the Water Distribution System Report. That 160.9 AF, however, is subtracted from the total production for all systems as it is included as a component of production for the Cal-Am Main System. 699.2 AF of water were provided for injection to ASR wells in the Seaside Basin from Cal-Am wells in Carmel Valley. 609.5 AF of injected ASR water was recovered from Seaside coastal wells in WY 2016, but is not included as it was already counted when it was originally produced prior to injection. No water was diverted from San Clemente Reservoir during WY 2016.
5. Cal-Am’s main system deliveries total 8,832.8 AF. This total was derived as shown:

Reported Cal-Am Consumption	
Water Year 2016 (AF)	
City Total	6,226.56
County Total	2,596.67
subtotal	8,823.23
CV Irrigation	0.52
PB-LCP	9.04
Total	8,832.79

6. N.A. refers to data that are not available and N.R. refers to systems that did not report.
7. The Mal Paso WDS was approved in WY 2016, which also required an amendment to the CAW WDS that occurred at the end of WY 2015. 10.35 AF was produced from the Mal Paso well in WY 2016, and that amount is included in production for the Cal-Am Main System. The CAW WDS was amended two times in WY 2016 (once for the Hilby Pump Station and Monterey Pipeline to provide more water to ASR, and once to allow up to 90 AF/year to be transferred from Monterey Bay Shores Seaside Groundwater Basin water rights to one Cal-Am master connection). The Hilltop Ranch WDS was approved in WY 2016. The Reppy WDS consists of one well with specific limits on two separate meters, and so, it appears twice, once as “domestic” and again as “irrigation”. That system and the All Saints WDS represent revisions to the previously approved and amended Bardis WDS. Also, the Monterra Ranch, Cañada Woods North (Upland) and Cañada Woods (Alluvial) WDSs were combined to form the *Cañada Woods Water Company WDS* in 2005, although they are reported separately here to facilitate historical comparisons.
8. The names of Cachagua Road #1 and #2 were switched in Reporting Year 1999 to agree with records of the Monterey County Department of Health. Older District records have the names of these two systems reversed.
9. Bishop Unit is operated by Cal-Am; acquired July 1999.

10. Rancho Fiesta has been operated by Cal-Am for over 25 years; all production and delivery is by the main Cal-Am system. Accordingly, the Rancho Fiesta system is not tracked separately in this report.
11. Hidden Hills was formerly referred to as Carmel Valley Mutual; annexed to Cal-Am in 1993. In WY 2016, 0.17 AF were transferred from Hidden Hills to the Toro System.
12. The Ryan Ranch Unit is owned and operated by Cal-Am. 1.31 AF produced by wells in Cal-Am's Main System were delivered to the Ryan Ranch Unit in WY 2016 and were included with Cal-Am Main System total production.
13. Three systems that are operated by the Canada Woods Water company are tracked separately in this table but are part of an interconnected system. For the CWWC, consumption loss includes water line flushing and unmetered construction and irrigation uses. Beginning in 2010, system loss calculations were revised by CWWC to present a single composite loss value.