Appendix H

Eastwood/Odello Water Right Change Petition Project – Impacts of Proposed Pumping Location Change (West Yost Associates, 2015)

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Exp 4/30/16
STATE OF CALIFORNIA

TECHNICAL MEMORANDUM

DATE: January 21, 2015

Project No.: 555-00-13-03
SENT VIA: EMAIL

TO: State Water Resources Control Board, Division of Water Rights

FROM Chris Petersen, P.G. #6189

SUBJECT: Eastwood/Odello Water Right Change Petition Project—Impacts of Proposed Pumping Location Change

Eastwood and the California Department of Fish and Wildlife recently entered into a protest-dismissal agreement, that, among other things, requires Eastwood to develop a new well to divert the water that will be diverted for the proposed project. To comply with this provision of the agreement, Eastwood is proposing to construct the new Eastwood/Cañada well, and then to use it for these diversions. This new well would be located 85.7 feet to the northeast of Cal Am's Cañada #2 well, as shown in Attachment A. The coordinate information for these two wells is provided below:

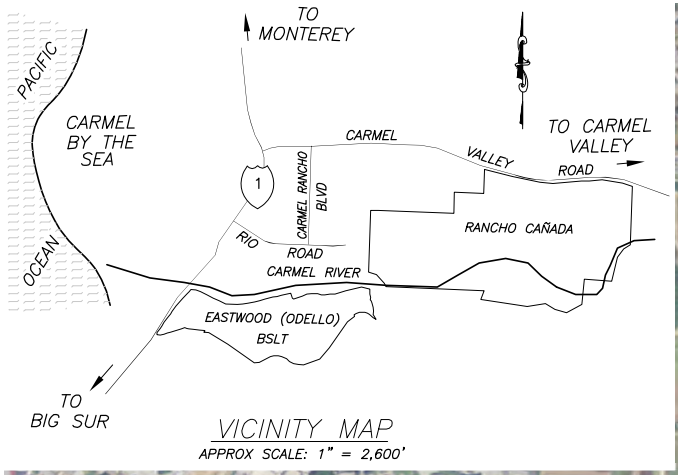
- Cal-Am Cañada # 2 Well: By California Coordinate System of 1983, Zone 4, North 2,091,940 feet and East 5,715,090 feet, being within the NE¼ of SW¼ of projected Section 17, T16S, R1E, Mount Diablo Baseline &Meridian (MDB&M).
- Eastwood/Cañada Well: By California Coordinate System of 1983, Zone 4, North 2,091,997 feet and East 5,715,154 feet, being within the NE¼ of SW¼ of projected Section 17, T16S, R1E, MDB&M.

Attachment B shows the locations of existing production wells that are in close proximity to the Cañada #2 well. Groundwater level changes at these locations were quantified for the Eastwood/Odello Water Right Change Petition Project and documented in the October 2013 Groundwater Evaluation Report (Report) prepared by West Yost Associates. (I was the primary author of that Report.) Attachment B is a copy of Figure D-2 from the Report, with the location of the proposed Eastwood/Cañada well shown, hand drawn in red ink. With this change, pumping under the Eastwood/Odello water right would move a little farther away from production well #186 and the Carmel River (shown as a blue line) and a little closer to production well #199.

Attachment C is Table 3-1 from the Report, with the relevant entries for production well #186 and production well #199 circled in red. This table lists the predicted groundwater level declines that would result from historic Cal Am pumping and Eastwood Project's pumping. I have circled the entries in this table that show the estimated changes in groundwater levels that would result from adding Eastwood Project pumping to Cal-Am's Cañada #2 well on production well #199 and production well #186 after 100 days of continuous pumping.

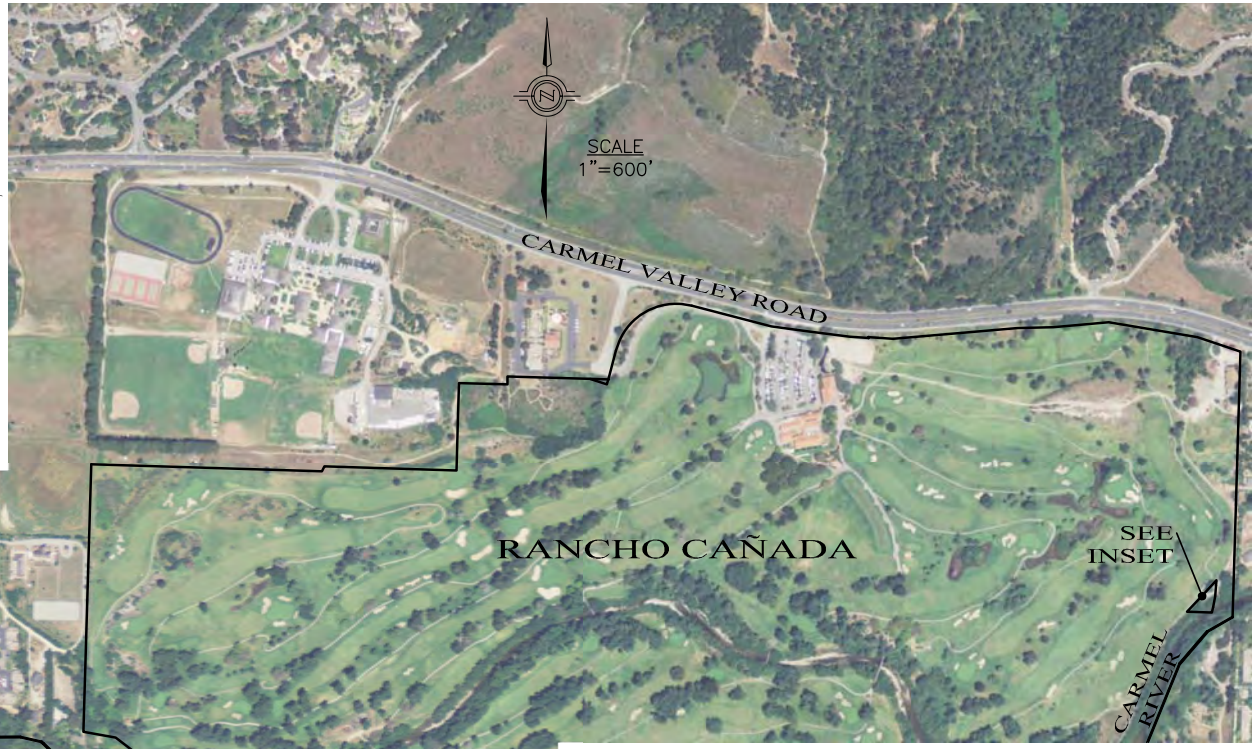
The change in the location of the Eastwood Project pumping from Cal Am's Cañada #2 well to the new Eastwood/Cañada well would cause almost immeasurable changes to the values circled in this Table 3-1. Specifically, there would be a slight increase in the drawdown at production well #199, because the pumping would be a little closer to this well. However, the additional drawdown caused by the Eastwood Project at production well #199 still would be less than the 0.21-foot estimated additional drawdown listed in this table for production well #186, because the Eastwood/Cañada well would be more than 219 feet from production well #199. Because the Eastwood/Cañada well would be slightly farther from production well #186, there would be a slight decrease in the drawdown at production well #186. Also because the Eastwood/Cañada well would be slightly farther away from the Carmel River than the Cal Am Cañada #4 well, there would be a slight decrease in the drawdown at the Carmel River.

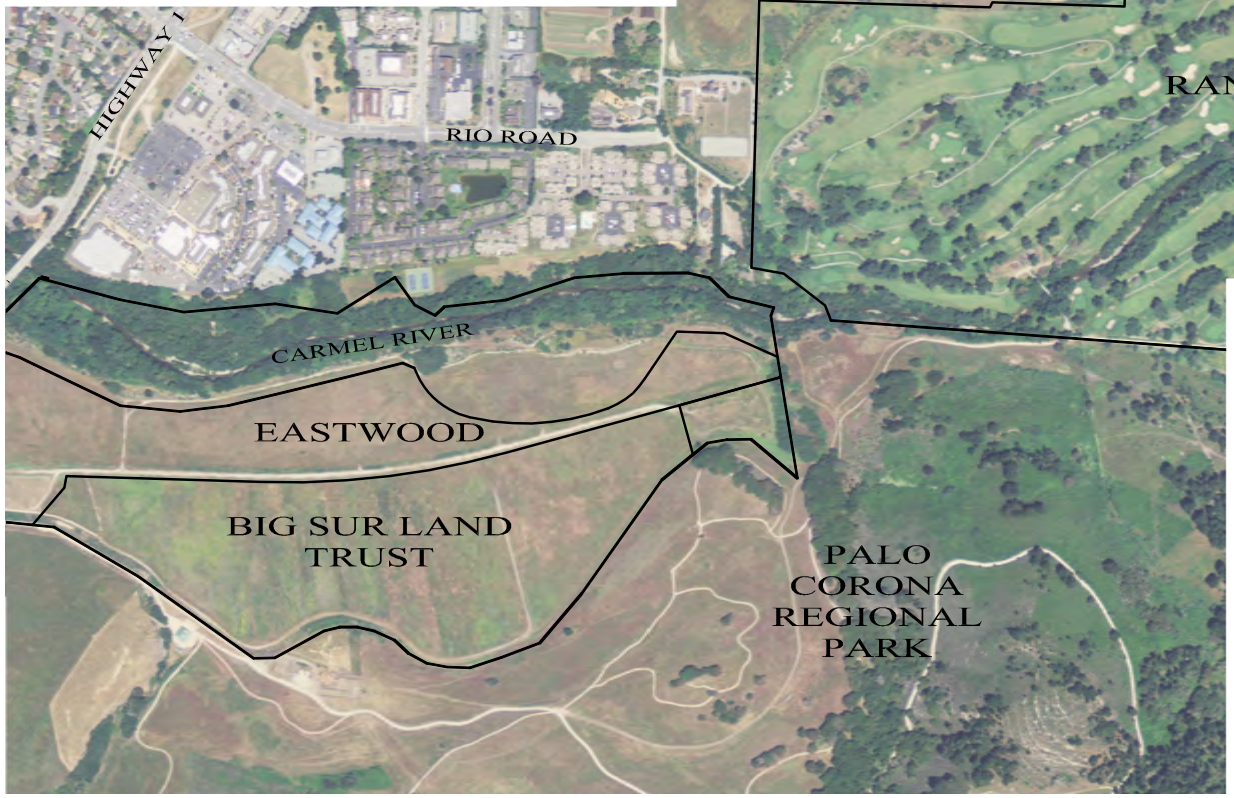
Attachment A

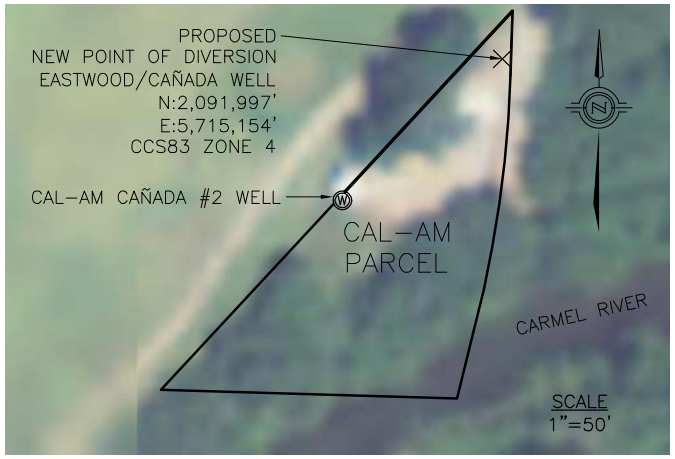


VICINITY MAP

APPROX SCALE: 1" = 2,600'







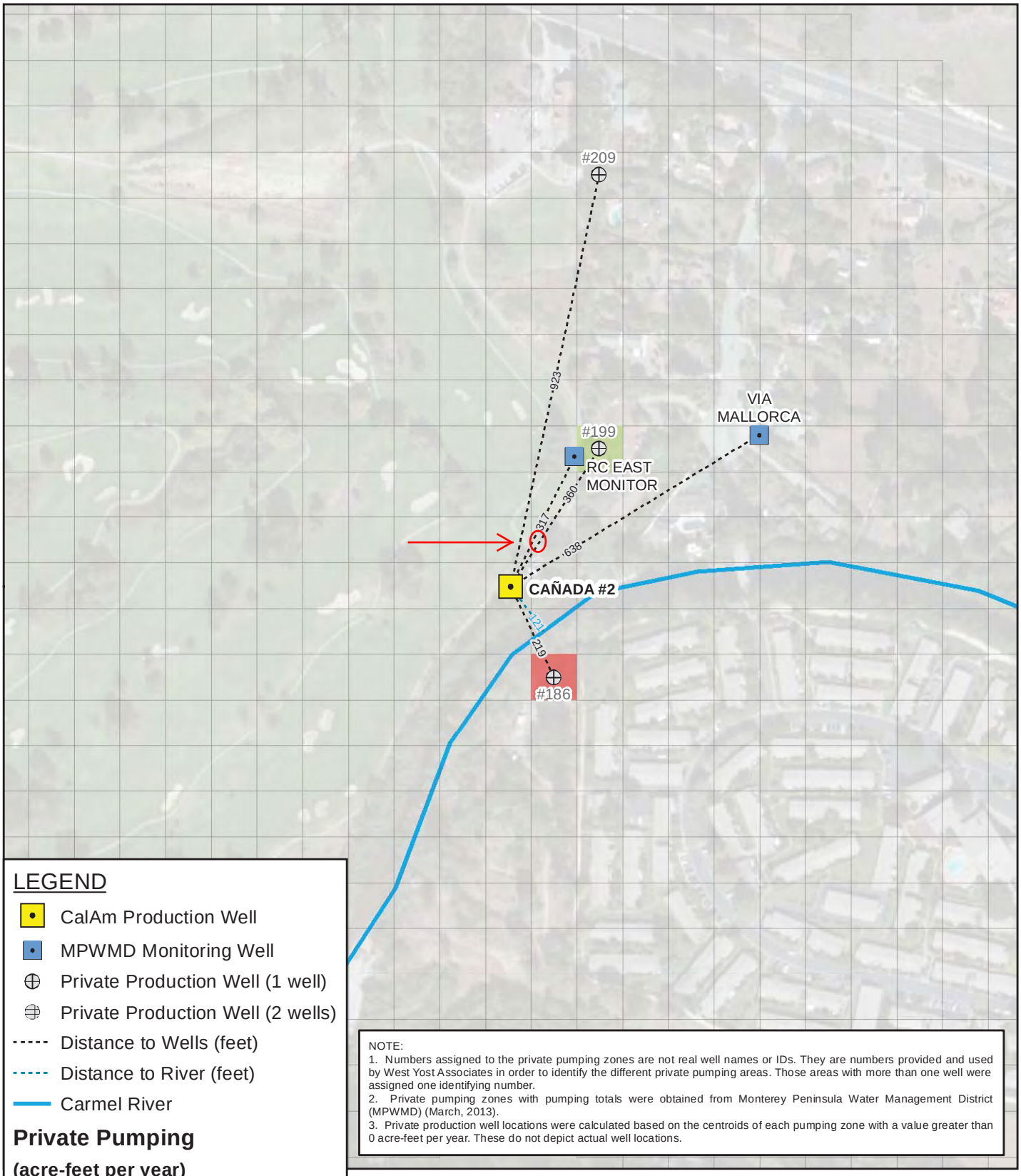
INSET

L&S ENGINEERING AND SURVEYING, INC

DRAWN BY: PJM
DESIGNED BY: N/A
DATE: 12-22-14
SCALE: AS SHOWN
JOB NUMBER: 13-062
LAST REVISED:
REVISED BY:

CLINT EASTWOOD AND MARGARET EASTWOOD TRUST,
LICENSE 13868A (APPLICATION 30497B),
PROPOSED NEW POINT OF DIVERSION

SHEET 1 OF 1 SHEET



NOTE:
1. Numbers assigned to the private pumping zones are not real well names or IDs. They are numbers provided and used by West Yost Associates in order to identify the different private pumping areas. Those areas with more than one well were assigned one identifying number.
2. Private pumping zones with pumping totals were obtained from Monterey Peninsula Water Management District (MPWMD) (March, 2013).
3. Private production well locations were calculated based on the centroids of each pumping zone with a value greater than 0 acre-feet per year. These do not depict actual well locations.

LEGEND

- CalAm Production Well
- MPWMD Monitoring Well
- Private Production Well (1 well)
- Private Production Well (2 wells)
- Distance to Wells (feet)
- Distance to River (feet)
- Carmel River

Private Pumping

(acre-feet per year)

- < 0.01
- 0.01 - 1.0
- 1.0 - 5.0
- 5.0 - 10
- 10 - 25
- > 25

N

0 150 300

Scale in Feet

FIGURE D-2

Eastwood/Odello Water Right Change Petition Project

PRIVATE PUMPING 2012 AND WELL DISTANCES FROM CAÑADA #2

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Table 3-1. Summary of Predicted Groundwater Level Declines Resulting from Historical Cal-Am Pumping and Eastwood Assignment Pumping

Pumping Well	Observation Point	Distance From Pumping Well, ft	Base Case Pumping Rate, gpm	Drawdown After 30 days of Pumping, ft	Drawdown After 100 days of Pumping, ft	Base + Assignment Pumping Pumping Rate, gpm	Drawdown After 30 days of Pumping, ft	Drawdown After 100 days of Pumping, ft	Difference in Drawdown, s After 30 Days, ft	After 100 Days, ft	% Increase in s after 100 days
Odello			68			NA					
	River	310		0.21	0.27		0	0			
Canada			2432			2478					
	River	121		10.92	12.96		11.13	13.21	0.21	0.25	1.9%
	P199	360		7.2437	9.27337		7.38071	9.44877	0.14	0.18	1.9%
	P186	219		8.92	10.95		9.09	11.16	0.17	0.21	1.9%
	P209	923		4.13	6.11		4.21	6.22	0.08	0.12	1.9%
Cypress			1617			1682					
	River	137		6.34	7.62		6.60	7.92	0.25	0.31	4.0%
	P130	465		3.77168	5.034		3.92329	5.23636	0.15	0.20	4.0%
	MWWS	759		2.76	4.01		2.87	4.17	0.11	0.16	4.0%
	P161	877		2.47	3.70		2.57	3.85	0.10	0.15	4.0%
Pearse			1876			1916					
	River	477		3.80564	4.83876		3.88678	4.94193	0.08	0.10	2.1%
	P143	303		4.58	5.62		4.68	5.74	0.10	0.12	2.1%
	P122	584		3.46	4.49		3.53	4.59	0.07	0.10	2.1%
	MWWS	767		3.00	4.02		3.06	4.11	0.06	0.09	2.1%
Schulte			1690			1730					
	River	95		5.21	6.05		5.33	6.19	0.12	0.14	2.4%
	P142	296		3.62	4.46		3.71	4.57	0.09	0.11	2.4%
	P136	446		3.05	3.89		3.13	3.98	0.07	0.09	2.4%
	P155	860		2.14911	2.97753		2.19998	3.04801	0.05	0.07	2.4%
Begonia #2			1322			1389					
	River	275		3.21947	3.95709		3.38263	4.15764	0.16	0.20	5.1%
	P89	851		1.83	2.56		1.92	2.69	0.09	0.13	5.1%
	P90	425		2.67	3.41		2.81	3.58	0.14	0.17	5.1%
	P91	812		1.89	2.61		1.98	2.75	0.10	0.13	5.1%
Berwick#9			1014			1054					
	River	357		2.28722	2.9238		2.37744	3.03914	0.09	0.12	3.9%
	MWMVM	275		2.56	3.20		2.66	3.33	0.10	0.13	3.9%
	P73	692		1.60	2.22		1.66	2.31	0.06	0.09	3.9%
	CAWellB8	880		1.35	1.97		1.40	2.05	0.05	0.08	3.9%
Berwick#8			701			769					
	River	301		1.25841	1.55915		1.38048	1.7104	0.12	0.15	9.7%
	MWKM	678		0.86	1.15		0.94	1.27	0.08	0.11	9.7%
	P74	445		1.06	1.36		1.17	1.50	0.10	0.13	9.7%
	CAWellB9	880		0.73	1.02		0.80	1.12	0.07	0.10	9.7%

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Appendix I

Carmel River Steelhead Evaluation Addendum providing review of comments submitted regarding Eastwood/Odello Water Rights Change Petition on Carmel River steelhead (Oncorhynchus mykiss) draft Environmental Impact Report (HDR, 2015)

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Memorandum

To: Denise Duffy, Denise Duffy & Associates

From: William Snider, Senior Fish Biologist HDR Inc.

Date: February 13, 2014

Subject: Carmel River Steelhead Evaluation Addendum providing review of comments submitted regarding Eastwood/Odello Water Rights Change Petition on Carmel River steelhead (*Oncorhynchus mykiss*) draft Environmental Impact Report

This technical memorandum addresses several comments concerning the potential effects of the Eastwood/Odello water rights change project on Carmel River steelhead as they are described in the draft EIR. These comments are summarized into two questions

1. Would the project significantly affect young-of-the-year (YOY) steelhead over-summer rearing in the affected reaches of the Carmel River?
2. Would the project significantly affect migration of YOY steelhead to Carmel River lagoon?

The issue raised by Commenters regarding effects on the South-Central California Coast steelhead Distinct Population Segment (SCC steelhead DPS) can be summarized in the form of the question: "How would the Project diversion affect YOY fish as they enter the over-summer rearing period?" Potential effects include:

1. Reduced opportunity for YOY steelhead to successfully migrate to the lagoon
2. Reduced opportunity for YOY steelhead to migrate from and through the affected reach
3. Reduced survival of YOY through the period when the stream naturally becomes dry in some reaches (i.e., independent of the Eastwood/Odello diversion) that can start as early as mid-spring.

The Draft EIR recognizes that empirical data is unavailable throughout most of the SCC steelhead DPS, that would directly address the behavior of YOY steelhead during the onset of the over summer period. However, related observations of more general patterns of behavior and conceptual descriptions of the environmental conditions and YOY steelhead responses that characterize the period between emergence and over summer rearing have been reported and summarized by various researchers and managers to fill a void in understanding steelhead life history within the southern portions of its range. Most significantly, NMFS has characterized these life history characteristics in in support of the *South-Central California Coast steelhead (Oncorhynchus mykiss) Recovery Plan* (NMFS 2012).

Absent very much empirical information on steelhead life history in the lower reaches of the Carmel River, the following discusses steelhead life history as it most likely occurs in those reaches based on evaluation of literature representing similar streams and hydrologic conditions. Specifically, life history is discussed based on literature that evaluated life history

characteristics and hydrologic conditions that typify many of the steelhead streams south of San Francisco Bay

High winter peak flows and intermittent summer flows are typical for the stream networks inhabited by *O. mykiss* in the Mediterranean climate, which is characteristic of the southern part of its natural range, including the Carmel River (Gasith & Resh 1999). During summer, the flows in many streams within the southern portion of the steelhead range become intermittent or dry up completely (Payne and Associates 2004; Spina *et al*. 2005). Boughton and Goslin (2006) evaluated potential for over summering habitat within the SCCC steelhead DPS based on stream gradient, summer mean flow, summer temperature, valley width relative to mean discharge, and whether or not the reach occurred in alluvial soils. They determined that the lower Carmel River, including the stream reach affected by the Eastwood/Odello Water Rights Change Petition Project, had very low potential for over summer habitat. This determination is consistent with NMFS (2002) which estimated that unimpaired summer flow conditions in the affected reach would be 0.4 cubic feet per second (cfs) or less about half of the time. If the stream was unimpaired by diversions, flows would likely exceed 0.4 cfs in the lower river only during normal or above normal water years. In dry years the lower river would probably continue to go dry after June or July (NMFS 2002). The annual drought-flood cycles that typify the Carmel River in its unaltered and current state are critical to the understanding of steelhead life history within the region and how the Proposed Project could affect the steelhead population and its habitat.

The following discussion of steelhead life history in the Carmel River, as potentially affected by the Proposed Project, is based on a synthesis of many observations, studies, and conceptualizations of steelhead throughout its range, but with an emphasis on the southern extent of the range, south of San Francisco Bay. Very little empirical data has been acquired on steelhead in this region, aside from some long term adult counts and observations of juvenile rearing, mostly during the late summer to fall. Pre smolt and smolt migrations have been observed in a few systems – mostly in the northern most, wetter areas of the region. However, most of what a steelhead is and does from emergence to emigration is poorly documented and at the same time considered quite variable. The characterization of steelhead life history in the Carmel River and how the Project actions relate to YOY steelhead during this period is based on study of a collection of relevant information and the author's on-going involvement with steelhead investigations and management in the Carmel River since the mid 1970s. The information supporting this discussion was obtained from numerous publications and reports listed in the attached bibliography.

The freshwater life cycle of Carmel River steelhead begins when adults enter the river and migrate upstream in search of suitable spawning conditions. Adult migration typically follows the first breaching of the sandbar that separates the river from the ocean for most of the year. Sometimes, the bar is breached mechanically to abate flood issues in the vicinity of the lagoon, without anthropogenic interference, the lagoon would typically breach with the first substantial flow, which could be as early as December or as late as April. When the bar is mechanically breached, flows in the river are not always suitable for the adults to move upstream. Although

recent improvements in substrate conditions within the lower several miles of the river have allowed successful spawning to occur in the lower reaches when flow is insufficient to provide passage beyond several critical riffles in the vicinity, it is likely that adults would migrate farther upstream into the upper reaches of the river when flow is suitable for migration.

Typically, steelhead spawn in the upper reaches of a watershed, often in tributaries, where perennial, colder flow is more likely. However, steelhead are also known for a vast variety of life history behavior that can place spawning most anywhere within the accessible watershed. Spawning location, either selected or dictated by extant conditions (natural or man-made), is the first phase in the freshwater life cycle that can ultimately dictate success of subsequent life stages.

Temperature is the primary factor controlling the rate of egg incubation. Spawning timing and location can affect the temperature during incubation, and thus affect the timing of emergence. Timing of emergence can affect early growth, which can affect behavior and survival. For example, during drought or dry water years, lower river spawning likely produces early emerging fish that would tend to grow relatively fast within a potentially rapidly declining riverine habitat. Given that fry emergence from a single redd can occur over several weeks or more, early emerging fish occupy the preferred habitat, which they will defend more aggressively as they grow larger and as more fish enter the river in search of a space to live. Given that this can occur while flows, along with living space and food availability, are receding rather quickly, YOY dispersal can be rampant. Additionally, under these circumstances mortality can also be very high. Observations in SCCC streams indicate that seasonal drought is a common occurrence in the lower, often alluvial reaches, and that dispersal is associated with declining flows and increasing temperatures (affecting space, food availability, food requirements and other incentives for dispersal). Because these lower stream reaches tend to dry up, with shallower habitats drying faster than deeper habitats, eventually any remaining YOY are located in pool habitat (and possibly the lagoon) until the river reach completely dries up, or the cool, wet fall initiates the next life stage (life history phase) – seaward migration and preparation for marine life.

Specific information about when and under what conditions YOY enter the Carmel River lagoon prior to the fall seaward migration is unavailable. Downstream migration has been observed during the summer in Waddell and Scott Creeks in Santa Cruz County. However, the migration appears to comprise fish older than YOY. Bond (2006) did not report catching YOY-sized steelhead emigrating to Scott Creek lagoon during three years of survey, although Bond did observe older juveniles moving into the lagoon during the typical low flow period (summer-fall). Scott Creek steelhead life history is not directly comparable to that in the Carmel River for a variety of reasons, including that Scott Creek typically sustains suitable rearing and migration flows throughout the summer.

Based on the above discussion and results of the analyses of existing and project-related flow conditions within the affected reach of the lower Carmel River, the two questions regarding the effects of the Proposed Project on steelhead rearing and migration are addressed below.

Juvenile Rearing

As presented by HDR (2014a and b), and Balance (2013), conditions within the affected reach of the Carmel River rarely provide sustained, over summer juvenile steelhead rearing. The most notable effect of the project's diversion would be to extend the dry period by several hours or a few days. However, under current baseline conditions (approximately the last 30 years), there are an average of 1.4 days per year when Carmel River flow at the USGS gage is less than 0.16 cfs (the maximum expected sustained diversion rate of the project) but greater than zero. Only 2 years in the last 30 had more than 3 days with flows between 0 and 0.16cfs--1985 and 1986, with 5 and 10 days respectively. These short very-low-flow conditions all were followed by a month or more of zero-flow or dry conditions within the stream (see attached Balance Hydrologics tables summarizing the USGS daily flow data).

Because juvenile rearing conditions rarely persist through the summer under existing conditions, and because hydrologic analyses conducted in the EIR indicates that the project's diversions would not increase the occurrence of years when zero flow occurs in the affected reaches, the number of years when zero summer rearing could occur also would not be increased (nor would there be an increase in the number of years of persistent rearing if the Project was not implemented). Therefore, no substantial decrease in the availability of over summer rearing habitat in the affected reach would occur and, thus, no substantial decrease in the number of juvenile steelhead rearing through the summer in the Carmel River would occur.

Juvenile Migration

Many of the comments on the Draft EIR related to effects of the project on steelhead are concerned with YOY steelhead migration. Comments expressed concern that a reduction in surface flow during the spring-summer period would adversely affect the opportunity for YOY steelhead to migrate to the lagoon. The concern is that the lagoon provides a refuge for YOY steelhead as flows recede and river reaches dry up, and that the Proposed Project's diversion of up to 0.16 cfs would adversely affect the migratory pathway from the affected reach to the lagoon. The comment considers the 0.16 cfs diversion to be equal to a flow that could maintain conditions for migration and that if the Proposed Project diverts the maximum diversion of 0.16 cfs, it would prematurely reduce or eliminate migration opportunities to the lagoon and, thus, cause a loss of YOY steelhead.

First, as presented above, there are only 1.4 days per year on average when flow in the affected reach is 0.16 cfs or less. Thus, if the diversion did incur a reduction in migration to the lagoon, it would only extend the period when no migration could occur by 1.4 days. The following discusses steelhead freshwater life history focusing on YOY as it likely occurs in the Carmel River. Given the life history that likely occurs in the Carmel River (discussed above), the potential change in flow conditions is unlikely to substantially affect YOY migration or reduce abundance and habitat relative to existing conditions.

To identify effects of the Proposed Project on YOY steelhead migration, consideration is provided to the conditions affecting the freshwater life stages (described above) between emergence and fish preparing (physiologically and behaviorally) for entering the marine

environment. This period of a steelhead life history primarily involves movement from one habitat condition to another to accommodate fish as they grow. Recently hatched fry move from the redd to nearby, shallow, low velocity areas, and as they grow, they move to faster, deeper areas. Beginning with the initial movement from the redd, density and or habitat limitations can cause the recently emerged fish to move well beyond the natal area. As the fish grow, they become more territorial, and less dominant fish (which are more abundant) are dispersed from the natal area. Thus, the majority of YOY steelhead movement is likely the result of displacement which can perpetuate as long as conditions occur that encourage and allow this population dynamic to occur, with fish continuing to attempt to establish territory in a somewhat nomadic behavior (i.e., establishing territories as they move downstream and displacing non-dominant fish).

Downstream movement of YOY steelhead is not considered intentional, but reactive and involuntary. In other words, downstream movement toward the lagoon likely is non-volitional. If density or food availability were different, incentive for movement would be different. Fish congregate in the lagoon or in pools as flow recedes – but it doesn't appear to be their purposeful destination. Rather, the location of fish occurring in pools or the lagoon as flows recede likely is a function of reduced habitat and food availability, as well as density-dependent factors as stream reaches begin to dry up during the summer (sometimes late spring). Although not empirically observed or studied, fish appear to move from the shallower riffles and glides into pools as flow recedes and remain there until the pool dries or warms, or flows increase potentially during the following fall. Based on the timing of the proposed diversions, hydrology under existing conditions, life history characteristics of steelhead, and behavior of YOY steelhead, the effect of the diversion would likely occur when conditions that promote occupation of pools has already taken place. Specifically, the diversion likely would occur when conditions between pools downstream of the affected reaches would already be characterized by pools and dry stream segments. Therefore, it is unlikely that the Proposed Project would substantially affect YOY steelhead migration.

Conclusion

Based on hydrology under the existing conditions, steelhead life history and behavior in streams that exhibit dry reaches during some times of the year, as well as the inherent life history variability in *O. mykiss*, it is unlikely that a diversion of up to 0.16 cfs would substantially affect YOY steelhead in the Carmel River.

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Attachment A –

Daily streamflow (by water year) for the Carmel River near Carmel USGS gaging station (Site #11143250). Highlights indicate days when flow in the Carmel River is between 0 and 0.16 cfs.

Daily streamflow (by water year*) for the Carmel River near Carmel USGS gaging station (Site #11143250). Highlights indicate days when flow in the Carmel River is between 0 and 0.16 cfs.

			Water Year								Water Year										Water Year									Water Year			
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
10/1	0.55	37	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	23	0	0	0	0	0	0	0	0	0	0	0	3	7.7	0	0
10/2	0.28	28	0	0	0	0	0	0	0	0	0	0	0	3.1	0	0	26	0	0	0	0	0	0	0	0	0	0	0	4.1	7.6	0	0
10/3	0.01	47	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	24	0	0	0	0	0	0	0	0	0	0	0	4.8	7.9	0	0
10/4	0	36	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	23	0	0	0	0	0	0	0	0	0	0	0	5.4	9.2	0	0
10/5	0	30	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	23	0	0	0	0	0	0	0	0	0	0	0	6	14	0	0
10/6	0	41	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	23	0	0	0	0	0	0	0	0	0	0	0	5.9	18	0	0
10/7	0	27	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	21	0	0	0	0	0	0	0	0	0	0	0	6	16	0	0
10/8	0	15	0	0	0	0	0	0	0	0	0	0	0	3.7	0	0	20	0	0	0	0	0	0	0	0	0	0	0	5.6	16	0	0
10/9	0	14	0	0	0	0	0	0	0	0	0	0	0	4.4	0	0	24	0	0	0	0	0	0	0	0	0	0	0	4.9	15	0	0
10/10	0	13	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	27	0	0	0	0	0	0	0	0	0	0	0	5.2	15	0	0
10/11	0	13	0	0	0	0	0	0	0	0	0	0	0	3.2	0	0	26	0	0	0	0	0	0	0	0	0	0	0	5	16	0	0
10/12	0	12	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	23	0	0	0	0	0	0	0	0	0	0	0	4.5	15	0	0
10/13	0	12	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	21	0	0	0	0	0	0	0	0	0	0	0	3.7	14	0	0
10/14	0	12	0	0	0	0	0	0	0	0	0	0	0	0.85	0	0	21	0	0	0	0	0	0	0	0	0	0	759	3.8	14	0	0
10/15	0	12	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	22	0	0	0	0	0	0	0	0	0	0	258	3.8	13	0	0
10/16	0	12	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	20	0	0	0	0	0	0	0	0	0	0	129	4.2	13	0	0
10/17	0	11	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	19	0	0	0	0	0	0	0	0	0	0	90	5.4	13	0	0
10/18	0	20	0	0	0	0	0	0	0	0	0	0	0	3.2	0	0	19	0	0	0	0	0	0	0	0	0	0	65	6.5	13	0	0
10/19	0	40	0	0	0	0	0	0	0	0	0	0	0	3.6	0	0	19	0	0	0	0	0	0	0	0	0	0	56	6.9	13	0	0
10/20	0	26	0	0	0	0	0	0	0	0	0	0	0	4.4	0	0	18	0	0	0	0	0	0	0	0	0	0	51	6.9	13	0	0
10/21	0	26	0	0	0	0	0	0	0	0	0	0	0	5.9	0	0	17	0	0	0	0	0	0	0	0	0	0	42	7	12	0	0
10/22	0	26	0	0	0	0	0	0	0	0	0	0	0	6.3	0	0	16	0	0	0	0	0	0	0	0	0	0	37	7.6	12	0	0
10/23	0	25	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	18	0	0	0	0	0	0	0	0	0	0	33	8.2	11	0	0
10/24	0	24	0	0	0	0	0	0	0	0	0	0	0	4.3	0	0	22	0	0	0	0	0	0	0	0	0	0	32	9.3	10	0	0
10/25	0	27	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	25	0	0	0	0	0	0	0	0	0	0	28	9.4	10	0	0
10/26	0	25	0	0	0	0	0	0	0	0	0	0	0	5.3	0	0	23	0	0	0	0	0	0	0	0	0	0	26	9.2	11	0	0
10/27	0	20	0	0	0	0	0	0	0	0	0	0	0	6	0	0	22	0	0	0	0	0	0	0	0	0	0	24	9.6	11	0	0
10/28	0	12	0	0	0	0	0	0	0	0	0	0	0	5.4	0	0	23	0	0	0	0	0	0	0	0	0	0	23	9.6	11	0	0
10/29	0	10	0	0	0	0	0	0	0	0	0	0	0	6.7	0	0	25	0	0	0	0	0	0	0	0	0	0	21	9.4	11	0	0
10/30	0	18	0	0	0	0	0	0	0	0	0	0	0	6.3	0	0	24	0	0	0	0	0	0	0	0	0	0	20	11	10	0	0
10/31	0	19	0	0	0	0	0	0	0	0	0	0	0	5	0	0	22	0	4.4	0	0	0	0	0	0	0	0	19	11	10	0	0
11/1	0	11	0	0	0	0	0	0	0	0	0	0	0	5.9	0	0	22	0	4	0	0	0	0	0	0	0	0	19	11	11	0	0
11/2	0	10	0	0	0	0	0	0	0	0	0	0	0	6.2	0	0	24	0	4.2	0	0	0	0	0	0	0	0	18	11	12	0	0
11/3	0	10	0	0	0	0	0	0	0	0	0	0	0	5.9	0	0	21	0	4.4	0	0	0	0	0	0	0	0	18	10	12	0	0
11/4	0	9.2	0	0	0	0	0	0	0	0	0	0	0	6.5	0	0	21	0	5.2	0	0	0	0	0	0	0	0	17	9.8	13	0	0
11/5	0	8	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	23	0	5.6	0	0	0	0	0	0	0	0	17	9.3	13	0	0
11/6	0	10	0	0	0	0	0	0	0	0	0	0	0	3.8	0	0	23	0	5.6	0	0	0	0	0	0	0	0	17	8.9	15	0	0
11/7	0	9.9	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	23	0	5.4	0	0	0	0	0	0	0	0	18	9.8	16	0	0
11/8	0	10	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	24	0	5.2	0	0	0	0	0	0	0	0	18	11	16	0	0
11/9	0	11	0	0	0	0	0	0	0	0	0	0	0	5.5	0	0	23	0	5	0	0.11	0	0	0	0	0	0	18	11	16	0	0
11/10	0	17	0	0	0	0	0	0	0	0	0	0	0	5.8	0	0	24	0	5.1	0	27	0	0	0	0	0	0	19	11	16	0	0
11/11	0	162	0	0	0	0	0	0	0	0	0	0	0	5.7	0	0	31	0	5	0	8.7	0	0	0	0	0	0	18	11	17	0	0
11/12	0	104	0	0	0	0	0	0	0	0	0	0	0	5.6	0	0	26	0	5	0	0.82	0	0	0	0	0	0	18	11	18	0	0
11/13	0	74	0	0	0	0	0	0	0	0	0	0	0	5.9	0	0	24	0	5.1	0	0	0	0	0	0	0	0	18	11	17	0	0
11/14	0	103	0	0	0	0	0	0	0	0	0	0	0	5.2	0	0	22	0	5.9	0	0	0	0	0	0	0	0	17	11	17	0	0
11/15	0	86	0	0	0	0	0	0	0	0	0	0	0	5.6	0	0	25	0	6.5	0	0	0	0	0	0	0	0	17	11	17	0	0
11/16	0	69	0	0	0	0	0	0	0	0	0	0	0	7	1	0	25	0	7.5	0	0	0	0	0	0	0	0	17	12	16	0	0
11/17	0	67	0	0	0	0	0	0	0	0	0	0	0	6.1	14	0	25	0	7.8	0	0	0	0	0	0	0	0	18	11	16	0	0
11/18	114	92	0	0	0	0	0	0	0	0	0	0	0	7.2	34	0	24	0	7.6	0	0	0	0	0	0	0	0	16	11	16	0	0
11/19	587	83	0	0	0	0	0	0	0	0	0	0	0	7.3	22	0	24	0	7.8	0	0	0	0	0	0	0	0	17	12	17	0	0
11/20	202	123	0	0	0	0	0	0	0	0	0	0	0	7.2	17	0	24	0	8.2	0	0	0	0	0	0	0	0	17	14	20	0	0
11/21	125	181	0	0	0	0	0	0	0	0	0	0	0	6.8	19	0	23	0	8.4	0	0	0	0	0	0	0	0	17	16	21	0	0
11/22	87	138	0	0	0	0	0	0	0	0	0	0	0	7	22	0	22	0	8.7	0	0	0	0	0	0	0	0	18	17	21	0	0
11/23	73	107	0	0	0	0	0	0	0	0	0	0	0	7	30	0	23	0	9	0	0	0	0	0	0	0	0	17	18	20	0	0
11/24	68	298	0	0	0	0	0	0	0	0	0	0	0	6.6	27	0	25	0	9.8	0	0	0	0	0	0	0	0	17	19	19	0	0
11/25	62	597	0	0	0	0	0	0	0	0	0	0	0	5.8	24	0	25	0	9.8	0	0	0	0	0	0	0	0	16	18	18	0	0
11/26	60	300	0	0	0	0	0	0	0	0	0	0	0	4.9	22	0	25	0	9.7	0	0	0	0	0	0	0	0	18	18	17	0	0
11/27	53	209	0	0	0	0	0	0	0	0	0	0	0	5.2	20	3.5	27	0	10	0	0	0	0	0	0	0	0	17	17	17	0	0
11/28	66	163	35	0	0	0	0	0	0	0	0	0	0	5.1	19	0	37	0	10	0	0	0	0	0	0	0	0	17	17	16	0	0
11/29	119	132	66	0	0	0	0	0	0	0	0	0	0	5	19	0	31	0	9.8	0	0	0	0	0	0	0	0	17	16	16	0	0
11/30	863	117	41	0	0	0	0	0	0	0	0	0	0	5.3	22	8.4	45	0	11	0	0	0	0	0	0	0	0	16	14	17	0	0
12/1	692	112	22	0	0	0	0	0	0	0	0	0	0	5.2	22	13	120	0	11	0	0	0	0	0	0	0	0	16	15	16	0	0
12/2	393	98	14	0	0	0	0	0	0	0	0	0	0	5.3	22	6.4	95	0	11	89	0	0	0	0	0	0	0	16	16	15	371	0
12/3	300	206	17	0	0	0	0	0	0	0	0	0	0	5.6	21	3.6	80	0	10	402	0	0	0	0	0	0	0	16	17	15	770	0
12/4	230	386	18	0	0	0	0	0	0	0	0	0	0	6.5	20	3.5	68	0	10	206	0	0	0	0	0	0	0	15	18	15	245	0
12/5	190	255	14	0	0	0	0	0	0	0	0	0	0	7.2	22	146	62	0	10	144	0	0	0	0	0	0	0	16	19	15	153	0
12/6	165	204	13	0	0	0	0	0	0	0	0	0	0	7.5	28	112	85	0	9.6	108	0	0	0	0	0	0	0	16	18	15	120	0
12/7	140	172	13	0	0	0	0	0	0	0	0	0	0	7.3	29	135	75	0	9.9	79	0	0	0	0	0	0	0	20	22	15	95	0
12/8	125	148	12	0	0	0	0	0	0	0	0	0	0	8.3	26	228	65	0	9.8	64	0	0	0	0	0	0	0	22	22	15	77	0
12/9	110	411	11	0	0	0	0	0	0	0	0	0	0	7.4	27	244	60	0	9.8	58	0	0	0	0	0	0	0	22	22	15	65	0
12/10	105	798	19	0	0	0	0	0	0	0	0	0	0	6.9	879	150	54	0	9.8	59	0	0	0	0	0	0	0	21	22	15	57	0
12/11	97	799	37	0	0	0	0	0	0	0	0	0	0	8.8	1320	98	48	0	9.5	48	0	0	0	0	0	0	0	21	22	16	53	0
12/12	88	769	34	0	0	0	0	0	0	0	0	0	0	15	408	68	43	0	9.9	42	0	0	0	0	0	0	0	32	22	17	49	0
12/13	83	547	33	0	0	0	0	0	0	0	0	0	0	36	260	49	41	0	10	43	0	0	0	0	0	0	0	182	22	17	46	0
12/14	78	419	31	0	0	0	0	0	0	0	0	0	0	36	194	66	38	0	9.5	44	13	0	0	0	0	0	0	202	23	16	43	0
12/15	75	340	37	0	0	0	0	0	0	0	0	0	0	57	154	143	37	0	11	47	246	0	0	0	0	0	0	143	23	17	41	0
12/16	73	287	68	0	0	0	0	0	0	0	0	0	0	57	128	104	34	0	13	41	1250	0	0	0	0	0	0	114	24	17	40	0
12/17	70	252	64	0	0	0	0	0	0	0	0	0	0	51	110	80	32	0	12	37	924	0	0	0	0	0	0	98	24	17	39	0
12/18	69	220	60	0	0	0	0	0	0	0	0	0	0	44	96	68	30	0	12	40	567	0	0	6.1	0	0	0	87	24	16	40	0
12/19	68	195	58	0	0	0	0	0	0	0	0	0	0	39	85	50	27	0	12	38	512	0	0	24	0	0	0	77	39	17	39	0
12/20	65	179	54	0	0	0	0	0	0	0	0	0	0	37	77	40	26	0	11	47	741	0	0	25	0	0	0	70	394	17	38	0
12/21	250	164	49	0	0	0	0	0	0	0	0	0	0	34	189	37	28	0	10	221	592	0	0	20	0	0	0	66	285	17	37	0
12/22	3100	156	46	0	0	0	0	0	0	0	0	0	0	32	749	30	26	0	9.5	227	489	0	0	18	0	0	0	64	270	17	51	0
12/23	2800	151	44	0	0	0	0	0	0	0	0	0	0	35	511	26	23	0	9.3	182	391	0	0	27	0	0	0	60	259	15	163	0
12/24	1500	208	42	0	0	0	0	0	0	0	0	0	0	35	321	23	22	0	9.6	151	319	0	0	35	0	0	0	55	199	15	900	0
12/25	1000	2450	41	0	0	0	0	0	0	0	0	0	0	30	238	21	20	0	9.2	131	270	0	1.7	36	1.5	0	0	52	168	15	493	0
12/26	800	1490	40	0	0	0	0	0	0	0	0	0	0	28	194	18	20	0	9.3	119	236	0	5.3	55	3.3	0	0	50	224	15	417	0
12/27	560	982	39	0	0	0	0	0	0	0	0	0	0	26	190	15	18	0	7.6	106	214	0	11	92	6.2	0	0	48	182	15	379	0
12/28	490	748	36	0	0	0	0	0	0	0	0	0	0	24	165	15	17	0	6.7	100	273	0	78	81	6.7	0	0	48	155	15	306	0
12/29	440	609	34	0	0	0	0	0	0	0	0	0	0	24	155	14	17	0	5.8	223	666	0	154	87	7.9	0	0	46	338	14	303	0
12/30	370	533	33	0	0	0	0	0	0	0	0	0	0	24	646	12	16	0	6.3	351	502	416	532	82	8.3	0	0	44	358	14	273	0
12/31	320	483	32	0	0	0	0	0	0	0	0	0	0	27	804	11	15	0	6.8	303	510	249	2320	809	8.1	0	0	47	280	13	232	0
1/1	290	435	31	0	0	0	0	0	0	0	3.2	0	0	27	1950	10	13	0	6.1	240	449	201	1080	699	7.7	0	0	46	236	14	204	0
1/2	255	398	30	0	0	0	0	0	0	0	134	0	0	25	3000	11	13	0	6.4	234	371	411	642	1090	7.8	0	0	45	807	13	182	0
1/3	230	368	29	0	0	0	0	0	0	0	85	0	0	24	1990	29	12	0	6	508	312	259	706	1110	7.6	0	0	45	857	12	164	0
1/4	205	344	27	0	0	0	0	0	0	0	54	0	0	24	1120	211	11	0	4.6	421	266	186	521	589	9.8	0	0	43	540	14	149	0
1/5	190	319	26	58	0	0	0	0	0	0	39	0	0	22	828	228	11	0	3.9	345	237	141	394	401	13	509	0	40	399	14	138	0
1/6	175	295	26	59	0	0	0	0	0	0	31	0	0	22	674	149	11	0	3.4	284	212	113	325	307	15	473	0	39	322	14	177	0
1/7	165	277	28	44	0	0	0	0	0	0	697	0	58	22	576	114	10	0	3.9	237	190	95	677	256	15	197	0	41	268	15	176	0
1/8	155	263	32	33	0	0	0	0	0	0	722	0	128	21	502	89	10	0	7	205	171	80	1920	212	14	103	0	38	231	15	157	0
1/9	145	248	32	26	0	0	0	0	0	0	518	0	445	19	442	107	10	0	8	180	149	70	1810	178	14	78	0	38	202	15	147	0
1/10	135	235	29	21	0	0	0	0	0	0	563	0	6070	19	396	566	10	0	23	155	395	62	1100	151	14	58	0	38	178	15	151	0
1/11	127	225	28	19	0	0	0	0	0	0	428	0	1850	18	359	418	10	0	148	135	434	57	1540	132	13	45	0	38	161	15	143	0
1/12	120	216	27	16	0	0	0	0	0	0	408	0	746	18	346	444	10	0	418	122	340	52	1170	118	12	34	0	40	146	13	136	0
1/13	115	207	26	15	0	0	0	0	0	0	2400	0	571	17	334	635	10	0	218	112	288	49	813	111	12	27	0	42	135	13	128	0
1/14	105	197	25	14	0	0	0	0	0	0	3380	0	644	16	303	422	10	0	144	102	258	45	612	134	12	22	0	47	127	12	121	0
1/15	100	191	24	14	0	0	0	0	0	0	1370	0	967	16	526	860	10	0	114	93	235	44	486	214	11	17	0	53	119	12	115	0
1/16	98	192	22	14	0	0	0	0	0	0	1220	0	903	21	478	1060	10	0	94	84	212	42	403	170	11	14	0	50	111	11	107	0
1/17	100	180	21	13	0	0	0	0	0	0	1450	0	726	129	395	624	10	0	82	77	190	41	347	150	12	12	0	49	104	11	102	0
1/18	125	171	21	13	0	0	0	0	0	0	1620	0	607	88	358	635	10	5.5	71	72	175	37	306	157	13	9.6	0	139	99	12	97	0
1/19	290	165	20	13	0	0	0	0	0	0	1050	0	520	86	330	1000	10	14	66	68	164	36	275	157	13	8.8	0	853	93	12	92	0
1/20	197	160	19	12	0	0	0	0	0	0	882	0	516	84	827	632	71	14	64	65	156	34	251	144	13	7.9	0	1880	88	13	89	0
1/21	188	158	19	11	0	0	0	0	0	0	965	0	654	108	753	494	167	13	59	62	153	32	232	135	13	8.6	0	1670	84	27	86	0
1/22	880	153	18	11	0	0	0	0	0	0	1030	0	605	133	818	397	113	15	54	60	146	30	219	128	12	22	0	1390	80	39	82	0
1/23	1460	148	18	10	0	0	0	0	0	0	892	0	917	106	1550	324	92	312	50	57	134	29	205	120	12	41	0	996	76	39	78	0
1/24	3210	144	17	10	0	0	0	0	0	0	787	0	1620	90	1100	274	142	1000	73	55	128	31	193	115	11	74	0	753	73	46	77	0
1/25	1580	140	16	10	0	0	0	0	0	0	700	0	1370	152	1780	232	113	914	98	53	121	30	183	109	11	286	0	610	70	60	77	0
1/26	1830	136	17	9.9	0	0	0	0	0	0	622	0	984	175	3240	200	123	475	208	50	115	28	189	106	12	1330	0	574	67	67	78	0
1/27	5060	131	17	9	0	0	0	0	0	0	553	0	852	166	2070	174	147	294	173	53	110	27	201	102	14	1220	0	581	65	64	77	0
1/28	2190	127	18	9	0	0	0	0	0	0	497	0	839	222	1310	154	105	216	142	53	106	27	255	95	14	1910	0	501	63	59	74	0
1/29	2570	120	18	11	0	0	0	0	0	0	454	0	722	174	1030	394	80	171	118	54	99	27	255	91	14	894	0	448	61	51	70	0
1/30	1950	118	18	24	0	0	0	0	0	0	420	0	626	141	836	330	61	152	106	49	93	26	223	89	14	589	0	411	64	44	67	0
1/31	1550	114	18	104	0	0	0	0	0	0	390	0	547	514	732	314	189	197	96	47	90	25	206	87	13	452	0	369	78	39	64	0

*A water year begins on October 1 and ends on September 30 of the named year.
For example, water year 2013 began on Oct. 1, 2012, and concluded on September 30, 2013.

Daily streamflow (by water year*) for the Carmel River near Carmel USGS gaging station (Site #11143250). Highlights indicate days when flow in the Carmel River is between 0 and 0.16 cfs.

	Water Year						Water Year									Water Year									Water Year							
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
2/1	1350	114	17	187	0	0	0	0	0	0	363	0	486	614	656	481	223	163	87	47	87	24	193	83	12	381	0	336	69	35	62	0
2/2	1200	111	18	157	0	0	0	0	0	0	341	0	428	338	591	2340	155	145	80	46	84	30	184	79	11	325	0	308	64	33	59	0
2/3	1050	107	20	155	0	0	0	0	0	0	323	0	380	247	538	9050	126	137	72	45	81	107	173	77	11	500	0	285	61	31	58	0
2/4	930	104	22	144	0	0	0	0	0	0	308	0	344	325	492	3330	98	152	66	44	79	157	166	75	11	558	0	265	59	28	56	0
2/5	910	99	22	126	0	0	0	0	0	0	299	0	307	1290	446	1900	78	130	64	43	75	142	160	72	10	451	0	444	58	27	55	0
2/6	1100	98	21	115	0	0	0	0	0	0	292	0	287	764	408	4280	69	129	62	42	73	118	154	69	10	382	0	441	55	25	54	0
2/7	1500	96	20	106	0	0	0	0	0	0	279	0	271	525	375	6400	93	121	60	42	71	102	151	66	10	328	0	460	53	24	52	0
2/8	1800	93	166	99	0	0	0	0	0	0	463	55	268	398	350	5300	172	111	55	57	67	90	148	63	10	288	0	430	52	22	56	0
2/9	1650	97	317	92	0	0	0	0	0	0	537	83	255	322	325	3490	1220	105	59	64	65	82	141	60	11	256	0	438	50	22	56	0
2/10	1310	108	183	86	0	0	0	0	0	0	504	64	223	278	306	2280	864	110	112	59	64	74	135	57	13	229	0	420	49	21	52	0
2/11	1200	99	144	80	0	0	0	0	0	306	462	52	202	247	289	1720	499	260	255	57	62	68	132	55	29	205	0	385	48	21	50	0
2/12	1140	94	123	92	0	0	0	0	0	1220	421	41	188	225	272	1420	361	716	310	54	65	63	142	53	86	184	0	359	46	20	48	0
2/13	1250	98	109	1390	334	0	0	0	0	1060	387	34	181	203	259	1200	277	786	233	52	77	59	133	52	70	166	0	338	45	21	47	0
2/14	1100	121	99	2580	221	0	0	0	0	715	364	30	231	189	242	1300	231	1900	185	49	78	56	127	51	58	153	12	314	44	21	46	0
2/15	998	114	90	4010	105	0	0	0	0	2450	346	25	195	180	228	1280	198	1240	162	47	73	53	163	49	50	143	81	293	48	25	45	0
2/16	925	172	85	1920	70	0	0	0	0	1160	331	23	174	193	217	1210	171	925	142	48	91	52	390	49	44	135	749	275	121	24	43	0
2/17	840	156	82	1330	52	0	0	78	0	775	336	106	162	177	220	1330	174	729	127	81	99	61	305	49	39	129	1050	259	288	23	42	0
2/18	952	138	81	3010	36	0	0	59	0	589	527	228	152	168	214	1160	161	594	120	109	89	289	431	55	36	123	776	246	731	22	41	0
2/19	850	126	80	3010	29	0	0	24	0	458	2230	203	146	975	194	1320	158	502	221	95	85	336	472	55	32	118	450	235	970	21	44	0
2/20	763	119	78	1560	24	0	0	0	0	444	2300	521	137	1920	184	1380	146	475	303	91	84	245	981	55	29	120	307	223	719	20	53	0
2/21	699	123	68	975	22	0	0	0	0	393	1610	312	130	1470	182	1680	212	711	270	88	81	208	1460	51	28	119	242	215	522	20	48	0
2/22	656	119	54	784	23	0	0	0	0	334	1190	214	124	1220	176	2200	178	604	269	82	76	189	1450	49	31	120	214	225	420	19	44	0
2/23	642	110	51	653	20	0	0	0	0	285	1130	164	119	858	169	2180	159	973	329	74	74	169	1050	47	48	133	339	210	357	19	43	0
2/24	791	106	48	572	20	0	0	0	0	247	1200	133	113	724	159	2030	154	760	329	71	72	151	819	45	46	502	486	421	311	18	41	0
2/25	870	104	45	504	17	0	0	0	0	215	1050	112	109	616	151	1710	162	654	366	67	77	912	678	43	45	825	356	422	701	17	39	0
2/26	1240	100	45	450	15	0	0	0	0	191	1420	100	103	519	147	1520	148	561	334	63	74	2020	578	44	61	531	286	383	984	17	38	0
2/27	1670	97	42	411	12	0	0	0	0	168	1130	90	99	522	145	1380	137	800	292	60	78	1230	511	167	173	430	242	778	665	17	37	0
2/28	3500	93	41	373	11	0	0	0	0	157	946	81	98	485	144	1220	128	787	258	57	74	828	648	1650	202	366	212	724	538	17	36	0
2/29		92				0				148				518				683				598				321				17		
3/1	8000	89	46	340	10	0	0	0	0	144	825	73	95	525	137	1100	120	611	224	55	71	493	518	753	158	286	187	595	461	18	36	0
3/2	6800	87	46	315	9.8	0	0	0	0	138	736	67	96	475	134	1000	116	545	207	51	68	434	475	561	129	260	435	594	424	28	34	14
3/3	4800	86	46	293	8.9	0	0	0	0	129	657	61	129	433	133	901	118	497	193	49	66	348	435	553	113	239	1190	671	417	38	33	6.9
3/4	3300	84	33	280	8.7	0	0	0	0	119	580	57	155	451	128	816	116	443	744	47	66	294	531	511	98	221	2100	816	384	30	32	0.78
3/5	3200	82	38	257	14	0	0	0	0	133	519	57	180	710	123	767	110	863	1930	46	63	257	510	446	86	206	1250	646	353	22	31	0
3/6	2500	86	52	253	96	0	0	0	0	330	469	53	183	577	118	763	101	851	1220	49	61	229	434	558	74	191	852	570	329	20	35	0
3/7	2100	76	107	240	89	0	0	0	0	318	427	49	166	499	116	672	97	654	874	64	59	210	395	552	66	178	640	524	326	18	42	0
3/8	1500	75	98	868	76	0	0	0	0	261	392	45	154	440	110	627	97	695	671	72	56	196	365	503	62	165	522	484	302	18	39	0
3/9	1410	74	85	697	67	0	0	0	0	230	362	41	661	393	106	585	162	715	569	69	55	183	340	466	58	156	441	468	281	17	36	0
3/10	1530	73	82	1130	60	0	0	0	0	207	336	38	7960	354	102	547	149	644	498	64	53	170	320	472	54	146	382	442	262	17	33	0
3/11	1640	71	99	1400	54	0	0	0	0	191	315	36	5280	327	99	519	138	595	435	61	51	158	302	450	50	137	339	408	246	16	32	0
3/12	1540	69	131	1160	51	0	0	0	0	176	296	33	2440	499	96	493	128	551	386	58	50	149	286	477	47	131	304	385	232	16	31	0
3/13	1990	74	116	1050	54	0	0	0	0	163	278	31	1760	518	95	505	119	500	342	56	50	141	274	466	42	124	276	415	219	16	30	0
3/14	1830	124	105	879	61	0	0	0	0	155	265	30	1470	420	92	462	123	460	308	54	49	131	263	515	39	118	253	372	208	15	28	0
3/15	1610	107	96	1540	80	0	0	0	0	154	247	26	1310	368	89	435	197	421	284	53	161	121	251	554	36	115	235	347	197	15	27	0
3/16	1650	99	66	1810	85	0	0	0	0	144	236	24	1160	335	87	416	173	387	260	56	221	115	239	499	34	112	219	323	189	16	26	0
3/17	1760	98	80	1510	79	0	0	0	108	135	233	23	1060	314	87	404	155	353	242	63	169	109	230	505	32	101	202	305	181	33	25	0
3/18	1900	94	85	1110	75	0	0	0	270	128	220	22	981	290	84	387	147	326	224	78	144	102	225	493	30	96	186	289	181	96	25	0
3/19	1550	92	53	943	72	0	0	0	180	122	206	22	919	275	82	369	167	303	213	67	128	96	241	457	28	92	173	271	219	98	25	0
3/20	1400	88	40	811	68	0	0	0	271	119	196	21	936	257	80	356	206	285	199	62	118	90	263	454	27	87	165	255	1790	83	24	0
3/21	1370	83	34	710	76	0	0	0	441	126	189	20	1100	248	79	346	204	267	183	59	110	86	271	495	29	81	154	242	1330	74	23	0
3/22	1340	81	31	632	87	0	0	0	350	128	187	18	1610	238	77	332	194	247	174	57	103	84	950	450	27	78	181	232	904	70	23	0
3/23	1320	77	48	571	80	0	0	0	251	144	185	20	2630	228	78	321	222	230	165	84	97	80	1490	423	25	75	165	222	1010	66	22	0
3/24	1700	75	79	518	86	0	0	0.21	578	137	203	20	1370	220	77	401	219	220	155	120	94	76	1020	401	23	71	147	211	1620	65	22	0
3/25	2000	72	69	475	80	0	0	0	1340	132	205	23	1080	207	74	438	557	205	144	120	87	74	757	468	22	68	138	203	3620	102	21	0
3/26	1850	72	77	441	74	0	0	0	891	127	391	24	975	202	71	407	436	194	136	112	83	84	633	495	22	65	130	194	1890	111	20	0
3/27	1650	73	166	405	69	0	0	0	605	120	316	20	885	190	69	390	341	179	131	107	79	76	553	453	25	62	122	185	1620	99	19	0
3/28	1400	69	174	373	64	0	0	0	431	114	298	19	828	193	62	714	281	178	127	100	75	72	609	471	28	59	116	176	1270	114	18	0
3/29	1250	60	154	349	56	0	0	0	343	109	258	17	748	181	67	654	251	169	119	94	70	67	530	512	24	58	110	169	1060	146	18	0
3/30	1150	59	145	331	50	0	0	0	289	105	235	13	672	175	64	560	227	161	113	87	67	63	485	504	22	57	105	168	914	130	18	0
3/31	1050	66	133	315	47	0	0	0	248	106	221	13	611	167	63	643	230	150	102	82	65	62	437	487	20	55	100	169	808	122	19	0
4/1	960	68	121	303	47	0	0	0	224	102	219	11	576	201	64	878	203	140	98	77	63	61	406	561	20	54	96	166	726	144	20	0
4/2	880	65	106	283	46	0	0	0	202	90	203	9.1	533	303	65	734	187	132	93	73	67	58	380	515	18	53	92	156	654	133	21	2.6
4/3	790	64	102	268	45	0	0	0	179	88	190	8.2	505	226	64	832	177	124	89	69	72	55	363	1160	17	56	88	157	589	120	20	13
4/4	700	66	94	257	44	0	0	0	158	84	175	9.5	471	206	62	837	165	117	85	67	74	51	368	2030	16	52	83	157	536	110	19	13
4/5	650	66	86	260	42	0	0	0	137	80	169	9.5	445	172	61	762	165	114	81	66	80	50	336	3680	16	50	79	416	492	100	36	14
4/6	600	64	81	269	43	0	0	0	118	78	160	9.3	416	163	61	734	224	108	83	64	71	48	317	2170	15	46	75	313	454	92	31	16
4/7	570	59	80	288	36	0	0	0	106	74	158	8.1	399	157	59	820	220	94	125	61	66	47	310	1550	15	43	74	254	429	86	22	15
4/8	540	58	80	253	32	0	0	0	87	70	152	8.9	385	156	58	724	257	98	126	58	61	45	306	1310	14	42	95	222	408	79	21	14
4/9	500	58	79	231	31	0	0	0	85	68	146	9.9	361	146	56	670	299	95	106	53	58	42	336	1040	13	40	91	206	382	72	19	13
4/10	480	57	46	219	28	0	0	0	79	66	139	10	344	137	56	630	258	89	100	52	55	40	314	940	12	39	83	196	351	70	17	13
4/11	470	58	48	207	27	0	0	0	75	59	130	9.9	325	131	54	705	513	86	94	51	55	37	293	872	12	38	77	229	330	79	16	12
4/12	450	54	52	197	26	0	0	0	70	60	130	8.2	314	128	52	643	526	82	91	50	59	35	278	870	13	36	75	513	311	82	15	11
4/13	430	52	53	192	23	0	0	0	65	59	127	8.5	318	127	52	715	440	81	84	48	214	34	264	884	13	33	72	514	294	170	15	9.5
4/14	410	50	53	183	19	0	0	0	61	58	123	8	300	114	49	672	381	82	80	45	231	33	252	776	15	30	69	424	280	215	15	8
4/15	400	43	53	178	16	0	0	0	57	55	119	6.5	283	113	49	618	336	83	79	44	201	31	240	700	16	28	65	373	263	180	14	6.8
4/16	385	41	54	174	13	0	0	0	56	50	117	6.3	294	131	48	579	286	78	74	43	172	30	226	652	16	27	59	334	251	154	14	6.2
4/17	380	41	57	169	11	0	0	0	53	45	119	6.4	266	131	48	549	264	228	72	45	165	29	216	653	15	26	57	304	240	135	13	5.4
4/18	410	41	54	162	9.3	0	0	0	51	46	140	4.7	267	133	48	522	246	180	69	45	151	29	208	597	15	25	58	282	228	121	12	5.1
4/19	400	33	55	154	7.9	0	0	0	49	38	122	4.7	260	130	51	498	225	141	71	43	141	30	200	542	15	21	56	262	221	109	11	4.5
4/20	380	25	52	145	4.5	0	0	0	50	35	112	5	251	128	54	472	211	125	76	41	132	29	191	506	17	19	52	283	210	99	13	4.4
4/21	370	25	50	135	1.2	0	0	0	54	32	106	3.8	221	122	51	453	200	116	153	40	125	28	185	468	18	20	49	353	204	91	11	3.9
4/22	360	25	49	135	0.39	0	0	0	50	29	102	3	225	116	49	433	191	109	127	37	126	26	178	439	19	21	47	380	197	83	11	3.6
4/23	427	25	47	138	0.18	0	0	0	49	26	99	4.5	213	109	48	416	182	105	116	35	119	25	178	412	20	22	46	330	186	76	9.7	3.2
4/24	608	25	43	139	0.09	0	0	0	43	23	96	7.3	208	103	47	405	166	102	105	33	116	22	178	385	20	22	46	297	176	72	9.1	3.1
4/25	594	25	41	132	0.05	0	0	0	39	21	94	8.7	204	91	45	390	160	96	90	33	129	20	168	366	19	21	46	278	170	69	9.3	3.5
4/26	511	25	40	126	0.01	0	0	0	34	19	89	9.6	195	82	43	373	155	92	85	34	128	18	161	352	17	20	47	261	165	69	9	3.6
4/27	545	25	38	110	0	0	0	0	30	17	86	10	194	77	41	352	145	88	82	38	122	16	154	330	15	19	47	250	158	67	8.9	3.8
4/28	1730	25	36	113	0	0	0	0	27	16	83	9.4	218	78	40	340	140	84	80	39	136	15	172	310	13	17	46	259	152	63	8.8	3.6
4/29	1420	25	35	111	0	0	0	0	25	14	81	7.2	223	76	39	330	135	85	75	36	141	15	169	293	13	16	46	247	147	59	9.1	3.2
4/30	1370	28	32	107	0	0	0	0	21	14	78	6.7	371	75	39	314	130	79	71	40	133	14	157	279	12	15	45	235	142	56	8.2	2.5
5/1	1250	30	29	104	0	0	0	0	18	15	74	6.4	315	72	39	319	121	75	71	38	128	14	150	263	11	15	45	221	137	53	8.1	2.2
5/2	1050	33	26	91	0	0	0	0	14	14	71	5.4	282	66	35	365	122	75	66	38	121	13	141	251	11	14	58	212	130	49	7.9	2.2
5/3	962	31	23	89	0	0	0	0	11	15	73	4.7	257	59	32	333	120	73	62	35	159	12	134	241	10	14	57	198	122	47	7.7	2.5
5/4	864	29	23	91	0	0	0	0	11	17	71	4	235	57	31	336	118	67	59	34	175	11	130	232	11	15	52	190	122	45	7.8	2.6
5/5	824	27	23	89	0	0	0	0	8.2	17	70	4.3	231	55	31	372	114	66	58	33	165	11	140	222	11	14	48	181	118	43	7.7	2.3
5/6	771	26	23	86	0	0	0	0	6	16	66	4	236	57	30	362	112	65	56	31	157	11	137	215	9.9	14	45	174	114	41	7.6	2
5/7	705	24	19	82	0	0	0	0	3.9	16	65	4.7	222	57	30	351	106	61	52	29	154	11	127	206	8.9	13	42	167	113	38	7.9	1.4
5/8	677	23	8	78	0	0	0	0	2.7	16	61	5.8	206	50	28	330	103	65	50	27	150	10	124	195	7	13	40	160	111	37	8	1.1
5/9	632	22	7.6	73	0	0	0	0	4.5	16	62	7.8	199	45	26	312	100	70	48	25	147	10	139	187	5.9	13	38	157	111	34	7.6	0.8
5/10	595	20	7.3	69	0	0	0	0	6.9	12	60	9.3	207	45	25	296	95	66	46	25	138	11	137	180	5.4	12	37	157	107	33	7.2	0.79
5/11	583	19	8.7	66	0	0	0	0	10	12	64	9.2	194	45	25	306	91	67	43	23	130	11	127	161	4.9	13	34	157	105	31	7.3	0.5
5/12	563	19	9.4	63	0	0	0	0	11	11	57	9.4	185	42	24	325	88	61	43	21	124	12	123	145	4.3	12	32	146	102	29	6.3	0.07
5/13	540	19	8.5	59	0	0	0	0	11	9.8	49	9.2	223	39	21	302	81	60	43	19	119	12	117	139	3.5	11	31	141	99	28	4.5	0
5/14	480	17	8.1	56	0	0	0	0	8.8	8.9	47	8.5	232	37	19	298	81	55	42	19	114	11	112	133	3	10	30	137	97	28	2.5	0
5/15	472	19	7.1	53	0	0	0	0	8.7	8.3	47	7.5	236	43	16	299	90	60	40	18	109	10	108	124	2.4	8.9	30	132	107	27	1.7	0
5/16	460	18	6.1	51	0	0	0	0	9.2	7.3	45	7.6	227	174	14	278	91	70	38	17	104	10	104	119	2.1	7	29	128	104	26	1.4	0
5/17	456	17	5.8	47	0	0	0	0	8.4	6.9	44	7.3	208	134	12	264	82	68	36	16	99	9.8	101	117	1.6	5.5	26	124	107	25	1.3	0
5/18	428	16	5.5	46	0	0	0	0	8	5.6	39	8.9	189	89	13	253	72	60	36	15	93	9.7	97	113	0.98	5	25	125	124	24	1	0
5/19	412	15	5.2	44	0	0	0	0	7.2	3.7	35	9.3	177	71	11	256	68	53	33	15	88	9.3	93	112	0.47	6.4	24	125	130	23	0.82	0
5/20	397	16	4.7	43	0	0	0	0	6.3	3	32	11	170	60	9.9	258	67	48	31	17	82	9.4	91	117	0.16	7.6	24	119	110	22	0.54	0
5/21	376	14	4.1	40	0	0	0	0	5.4	2.9	30	11	167	55	9.3	240	68	46	29	26	77	9.2	89	131	0.01	8.6	23	116	103	20	0.15	0
5/22	361	12	3.9	40	0	0	0	0	4.4	2.7	30	9.4	163	58	8	229	65	41	26	28	74	9.2	86	157	0	9.3	22	113	98	19	0	0
5/23	354	10	3.6	38	0	0	0	0	5	2.3	29	7.5	157	55	8.3	218	59	38	24	25	72	9.7	82	127	0	9	22	111	94	18	0	0
5/24	335	9.1	3.3	37	0	0	0	0	4.5	1.8	30	5.8	154	50	9.8	222	60	41	21	22	69	10	79	117	0	6.6	22	107	91	17	0	0
5/25	329	9.3	3.1	36	0	0	0	0	2.9	2.3	31	5.8	152	46	11	231	64	40	19	19	69	9.7	77	112	0	7	23	104	88	16	0	0
5/26	311	7.8	2.6	36	0	0	0	0	3.2	1.4	30	5.7	143	44	10	228	55	40	19	18	66	9.1	76	108	0	6.3	22	102	88	17	0	0
5/27	292	7.5	2.4	35	0	0	0	0	3.2	1.1	30	5.8	136	44	9	213	53	39	20	17	63	8.6	73	106	0	6	20	103	84	19	0	0
5/28	287	6.5	2.2	25	0	0	0	0	2.1	1.4	28	5	130	42	8	224	49	37	20	16	58	8.1	70	104	0	5.4	19	111	82	17	0	0
5/29	270	5.5	2.3	24	0	0	0	0	2	1.1	27	4.6	123	40	7.3	252	46	36	19	15	55	7.8	70	99	0	5	18	101	84	16	0	0
5/30	250	4.5	1.8	21	0	0	0	0	2.5	1	27	3.9	118	39	6.5	232	48	36	18	12	54	7.3	69	95	0	5.1	18	96	81	14	0	0
5/31	235	4.5	1.6	19	0	0	0	0	3.1	1.3	29	2.9	115	38	4.9	229	48	34	16	12	54	7.2	67	91	0	4.4	18	91	78	14	0	0

*A water year begins on October 1 and ends on September 30 of the named year.
For example, water year 2013 began on Oct. 1, 2012, and concluded on September 30, 2013.

Daily streamflow (by water year*) for the Carmel River near Carmel USGS gaging station (Site #11143250). Highlights indicate days when flow in the Carmel River is between 0 and 0.16 cfs.

	Water Year						Water Year									Water Year										Water Year							
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
6/1	220	4.5	1.2	17	0	0	0	0	3.6	1.2	32	2	113	37	4.6	210	46	32	14	11	52	6.2	65	86	0	5.4	19	89	77	13	0	0
6/2	210	4.5	1.4	18	0	0	0	0	5.8	1.2	53	0.99	109	34	4.9	200	45	29	14	12	50	5.7	62	81	0	5.4	19	89	75	11	0	0
6/3	195	4.5	1.3	16	0	0	0	0	6	0.97	47	0	124	32	4.3	198	47	29	14	13	46	4.8	60	78	0	5.3	19	86	74	10	0	0
6/4	188	4.5	1	14	0	0	0	0	6.5	0.92	67	0	130	30	5	203	56	30	12	11	44	4.1	58	75	0	5.2	19	84	119	9.8	0	0
6/5	182	4.5	0.41	12	0	0	0	0	2.8	0.92	53	0	122	28	5.9	205	49	29	11	9.5	42	3.1	57	70	0	5.2	18	81	261	9.8	0	0
6/6	175	4.5	0.6	10	0	0	0	0	0.3	0.69	57	0	118	28	5.9	191	47	27	9.8	7.5	41	2.5	55	67	0	5.1	17	78	192	11	0	0
6/7	168	4.5	0.86	9.6	0	0	0	0	0.05	0.11	54	0	99	24	5	188	42	25	9	6.8	40	1.8	54	63	0	4.8	18	75	158	10	0	0
6/8	164	4.4	0.7	10	0	0	0	0	0	0.03	43	0	96	23	5	189	40	26	7.9	6	41	0.83	53	59	0	5.1	18	74	139	8.6	0	0
6/9	155	4.2	0.6	9.1	0	0	0	0	0	0.23	40	0	88	21	3.9	190	39	33	6.9	5.2	39	0.27	56	58	0	5.1	17	73	125	7.9	0	0
6/10	148	4.2	0.51	7	0	0	0	0	0	0.11	34	0	83	18	3.6	188	37	31	7.8	4.3	37	1.4	57	57	0	4.2	16	75	116	7	0	0
6/11	145	4.2	0.46	5	0	0	0	0	0	0	31	0	82	16	3.3	178	37	29	8.2	3.4	37	1.3	54	56	0	3.7	15	74	108	6.2	0	0
6/12	138	4.2	0.42	4.5	0	0	0	0	0	0	33	0	77	15	2.9	172	34	28	8.7	2.7	38	0.01	50	53	0	2.7	15	71	102	5.5	0	0
6/13	130	3.7	0.38	2.5	0	0	0	0	0	0	35	0	79	14	2.8	171	35	26	8.5	2.5	35	0	47	53	0	1.5	15	67	96	5.1	0	0
6/14	127	2.4	0.35	2	0	0	0	0	0	0	30	0	82	13	2.2	170	32	24	6.7	2.6	33	0	43	51	0	1.2	14	63	90	5.1	0	0
6/15	122	2.1	0.33	1.9	0	0	0	0	0	0	29	0	86	13	2	159	30	19	5.6	2.9	32	0	41	49	0	1.1	14	62	84	5.2	0	0
6/16	118	2	0.32	1.2	0	0	0	0	0	0	29	0	134	13	2.1	154	28	18	5.1	2.5	29	0	38	46	0	0.64	13	60	79	4.8	0	0
6/17	114	1.5	0.3	0.81	0	0	0	0	0	0	28	0	124	12	1.7	152	27	18	4.9	2	27	0	38	43	0	0.28	13	59	75	4.6	0	0
6/18	110	1.3	0.23	1	0	0	0	0	0	0	28	0	94	11	1.3	145	26	19	4.8	1.6	25	0	38	41	0	0	13	57	72	4.5	0	0
6/19	103	1.2	0.29	5.1	0	0	0	0	0	0	26	0	89	11	1.1	138	25	19	3.5	1.3	24	0	38	39	0	0	12	56	69	4.2	0	0
6/20	101	1.2	0.38	6.2	0	0	0	0	0	0	23	0	85	10	0.65	138	22	19	3	0.61	24	0	37	38	0	0	12	56	66	4.2	0	0
6/21	100	0.95	0.33	8	0	0	0	0	0	0	24	0	76	11	0.2	141	20	18	1.7	0.97	24	0	34	36	0	0	11	55	61	3.8	0	0
6/22	99	0.66	0.3	8.1	0	0	0	0	0	0	23	0	68	11	0.01	141	18	16	1.1	1.4	23	0	33	33	0	0	11	53	58	3.4	0	0
6/23	100	0.49	0.24	6.3	0	0	0	0	0	0	22	0	68	11	0	137	17	15	0.47	1.5	23	0	31	31	0	0	9.9	52	56	2.4	0	0
6/24	92	0.3	0.23	3.8	0	0	0	0	0	0	20	0	68	11	0	132	17	13	0.74	0.51	26	0	28	30	0	0	9.4	50	54	1.9	0	0
6/25	87	0.13	0.18	3.2	0	0	0	0	0	0	18	0	64	11	0	130	17	13	0.69	0.06	24	0	27	30	0	0	8.2	49	53	1.4	0	0
6/26	83	0	0.17	3	0	0	0	0	0	0	16	0	59	12	0	128	16	13	0.8	0	19	0	27	29	0	0	7.9	48	54	1	0	0
6/27	81	0	0.17	2.7	0	0	0	0	0	0	14	0	54	11	0	125	15	11	0.58	0	15	0	27	28	0	0	7.6	46	52	0.65	0	0
6/28	79	0	0.14	2.4	0	0	0	0	0	0	12	0	54	12	0	124	13	10	0.22	0	13	0	27	27	0	0	6.2	44	50	0.48	0	0
6/29	78	0.02	0.23	2.1	0	0	0	0	0	0	10	0	55	10	0	120	11	10	0.05	0	12	0	27	27	0	0	5.3	41	52	0.45	0	0
6/30	76	0.02	0.27	1.8	0	0	0	0	0	0	9.5	0	61	9.3	0	116	9.2	9.6	0	0	11	0	26	25	0	0	4.8	39	53	0.53	0	0
7/1	75	0.03	0.26	1.5	0	0	0	0	0	0	6.9	0	57	8.5	0	113	8.4	8.9	0	0	9.9	0	24	25	0	0	3.8	38	49	0.52	0	0
7/2	73	0.06	0.1	1.2	0	0	0	0	0	0	5.6	0	53	7.6	0	115	8	9.5	0	0	9.5	0	23	26	0	0	2.7	37	47	0.49	0	0
7/3	71	0	0.07	0.9	0	0	0	0	0	0	4.9	0	53	7.1	0	121	7.6	9	0	0	8.9	0	22	25	0	0	1.9	36	47	0.46	0	0
7/4	73	0	0.05	0.6	0	0	0	0	0	0	4.9	0	54	7.4	0	115	7.2	8.8	0	0	8.2	0	21	26	0	0	1.3	34	44	0.47	0	0
7/5	75	0	0.04	0.3	0	0	0	0	0	0	4.9	0	54	7.6	0	109	6.7	9.5	0	0	8.2	0	20	28	0	0	0.9	33	44	0.43	0	0
7/6	73	0	0	0.2	0	0	0	0	0	0	4.9	0	52	7.4	0	104	6	9.5	0	0	8.5	0	20	27	0	0	0.6	33	41	0.41	0	0
7/7	73	0	0	0.13	0	0	0	0	0	0	4.3	0	45	7.2	0	99	5.2	8.7	0	0	8.3	0	20	26	0	0	0.4	32	40	0.38	0	0
7/8	67	0	0	0.11	0	0	0	0	0	0	3.1	0	44	7.8	0	95	4.4	7.6	0	0	7.8	0	18	25	0	0	0.38	32	40	0.37	0	0
7/9	71	0	0	0.1	0	0	0	0	0	0	1.6	0	39	7.7	0	94	3.5	7.7	0	0	7.3	0	17	22	0	0	0.23	31	36	0.35	0	0
7/10	59	0	0	0.09	0	0	0	0	0	0	0.5	0	38	7.6	0	92	3	7	0	0	6.8	0	16	21	0	0	0.1	30	34	0.34	0	0
7/11	55	0	0	0.08	0	0	0	0	0	0	0	0	39	7.8	0	86	2.2	5.8	0	0	6.8	0	16	19	0	0	0	28	33	0.33	0	0
7/12	55	0	0	0.07	0	0	0	0	0	0	0.7	0	37	6.9	0	84	1.8	5	0	0	6.5	0	15	17	0	0	0	28	33	0.3	0	0
7/13	52	0	0	0.06	0	0	0	0	0	0	0	0	35	6.7	0	80	1.4	4.3	0	0	6.9	0	14	18	0	0	0	28	33	0.29	0	0
7/14	51	0	0	0.05	0	0	0	0	0	0	0	0	32	6.2	0	77	0.75	3.9	0	0	7.5	0	14	16	0	0	0	29	33	0.27	0	0
7/15	45	0	0	0.04	0	0	0	0	0	0	0	0	28	7.5	0	74	0.46	4	0	0	7.4	0	12	15	0	0	0	27	33	0.23	0	0
7/16	46	0	0	0.02	0	0	0	0	0	0	0	0	26	8.9	0	69	0.4	4.3	0	0	7.2	0	12	14	0	0	0	25	32	0.21	0	0
7/17	45	0	0	0	0	0	0	0	0	0	0	0	27	6.9	0	62	0.3	4.7	0	0	6.5	0	11	13	0	0	0	23	31	0.16	0	0
7/18	45	0	0	0	0	0	0	0	0	0	0	0	28	5.6	0	62	0.2	4.7	0	0	5.6	0	10	11	0	0	0	22	31	0.06	0	0
7/19	42	0	0	0	0	0	0	0	0	0	0.04	0	28	5.5	0	60	0.1	4.6	0	0	4.7	0	9.3	9.6	0	0	0	21	29	0.01	0	0
7/20	45	0	0	0	0	0	0	0	0	0	1	0	27	4	0	59	0.05	4.7	0	0	5.9	0	8.6	8.2	0	0	0	20	28	0	0	0
7/21	44	0	0	0	0	0	0	0	0	0	1	0	25	3	0	58	0	4.4	0	0	7	0	7.7	6.7	0	0	0	20	26	0	0	0
7/22	40	0	0	0	0	0	0	0	0	0	0.18	0	23	2.8	0	57	0	4	0	0	5.4	0	8.4	5.7	0	0	0	20	24	0	0	0
7/23	40	0	0	0	0	0	0	0	0	0	0	0	23	5.4	0	57	0	4.2	0	0	4.1	0	7.7	4.7	0	0	0	20	24	0	0	0
7/24	41	0	0	0	0	0	0	0	0	0	0	0	21	7.7	0	54	0	4.3	0	0	3.6	0	6.5	4.2	0	0	0	19	26	0	0	0
7/25	42	0	0	0	0	0	0	0	0	0	0	0	20	7.6	0	54	0	4.2	0	0	2.9	0	6.2	3.4	0	0	0	18	26	0	0	0
7/26	38	0	0	0	0	0	0	0	0	0	0	0	19	6.3	0	52	0	4.1	0	0	2.5	0	6.1	3.5	0	0	0	17	25	0	0	0
7/27	35	0	0	0	0	0	0	0	0	0	0	0	17	6.8	0	48	0	3.9	0	0	2.4	0	5.9	4.9	0	0	0	17	23	0	0	0
7/28	36	0	0	0	0	0	0	0	0	0	0	0	16	6.8	0	48	0	2.3	0	0	1.8	0	5.4	4.7	0	0	0	16	22	0	0	0
7/29	33	0	0	0	0	0	0	0	0	0	0	0	15	4.9	0	45	0	2.7	0	0	0	0	4.7	4.6	0	0	0	16	20	0	0	0
7/30	28	0	0	0	0	0	0	0	0	0	0	0	13	5.7	0	44	0	2.8	0	0	0	0	4.5	5.2	0	0	0	16	20	0	0	0
7/31	24	0	0	0	0	0	0	0	0	0	0	0	11	2.5	0	43	0	2.4	0	0	0	0	4.8	5	0	0	0	15	19	0	0	0
8/1	21	0	0	0	0	0	0	0	0	0	0	0	10	0.86	0	43	0	0.73	0	0	0	0	4.9	4.8	0	0	0	14	19	0	0	0
8/2	19	0	0	0	0	0	0	0	0	0	0	0	8.8	0.76	0	39	0	0	0	0	0	0	4	4.9	0	0	0	13	18	0	0	0
8/3	17	0	0	0	0	0	0	0	0	0	0	0	8.9	0.07	0	37	0	0	0	0	0	0	3.7	5.3	0	0	0	12	17	0	0	0
8/4	15	0	0	0	0	0	0	0	0	0	0	0	8.5	0	0	34	0	0	0	0	0	0	4	5.2	0	0	0	11	16	0	0	0
8/5	12	0	0	0	0	0	0	0	0	0	0	0	7.6	0	0	31	0	0	0	0	0	0	4.3	4.4	0	0	0	11	16	0	0	0
8/6	11	0	0	0	0	0	0	0	0	0	0	0	7.1	0	0	30	0	0	0	0	0	0	4.3	3.6	0	0	0	11	16	0	0	0
8/7	10	0	0	0	0	0	0	0	0	0	0	0	6.1	0	0	31	0	0	0	0	0	0	4.8	3.4	0	0	0	11	16	0	0	0
8/8	10	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0	30	0	0	0	0	0	0	5.3	3.1	0	0	0	10	15	0	0	0
8/9	9.9	0	0	0	0	0	0	0	0	0	0	0	3.7	0	0	30	0	0	0	0	0	0	4.9	2.6	0	0	0	11	15	0	0	0
8/10	9.6	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	29	0	0	0	0	0	0	4.1	1.8	0	0	0	11	14	0	0	0
8/11	10	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	28	0	0	0	0	0	0	3.8	1.7	0	0	0	10	13	0	0	0
8/12	11	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	25	0	0	0	0	0	0	3.4	2.4	0	0	0	10	12	0	0	0
8/13	11	0	0	0	0	0	0	0	0	0	0	0	1.7	0	0	23	0	0	0	0	0	0	4	2.8	0	0	0	9.4	11	0	0	0
8/14	12	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	21	0	0	0	0	0	0	4.7	2.9	0	0	0	8.9	11	0	0	0
8/15	11	0	0	0	0	0	0	0	0	0	0	0	0.91	0	0	21	0	0	0	0	0	0	4.7	2.2	0	0	0	8.3	11	0	0	0
8/16	12	0	0	0	0	0	0	0	0	0	0	0	0.66	0	0	23	0	0	0	0	0	0	5.2	1.8	0	0	0	8.5	9.9	0	0	0
8/17	13	0	0	0	0	0	0	0	0	0	0	0	0.74	0	0	21	0	0	0	0	0	0	4.8	1.3	0	0	0	7.7	9	0	0	0
8/18	13	0	0	0	0	0	0	0	0	0	0	0	1.3	0	0	22	0	0	0	0	0	0	4.7	1.3	0	0	0	7.1	8.7	0	0	0
8/19	15	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	23	0	0	0	0	0	0	4.1	1.3	0	0	0	6.6	8.5	0	0	0
8/20	18	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	25	0	0	0	0	0	0	3.8	1.5	0	0	0	6.5	9	0	0	0
8/21	18	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	27	0	0	0	0	0	0	3.6	1.5	0	0	0	5.9	9.4	0	0	0
8/22	17	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	27	0	0	0	0	0	0	3.6	1.9	0	0	0	5.8	9.5	0	0	0
8/23	15	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	26	0	0	0	0	0	0	2.8	1.3	0	0	0	5.5	9.2	0	0	0
8/24	13	0	0	0	0	0	0	0	0	0	0	0	2.7	0	0	26	0	0	0	0	0	0	1.4	1	0	0	0	4.5	8.5	0	0	0
8/25	11	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	24	0	0	0	0	0	0	0.05	0.15	0	0	0	3.5	8	0	0	0
8/26	14	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	27	0	0	0	0	0	0	0	0	0	0	0	2.9	8	0	0	0
8/27	13	0	0	0	0	0	0	0	0	0	0	0	2	0	0	26	0	0	0	0	0	0	0	0	0	0	0	3.1	7.5	0	0	0
8/28	12	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	25	0	0	0	0	0	0	0	0	0	0	0	2.9	6.9	0	0	0
8/29	11	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	25	0	0	0	0	0	0	0	0	0	0	0	2.6	6.7	0	0	0
8/30	11	0	0	0	0	0	0	0	0	0	0	0	2.7	0	0	25	0	0	0	0	0	0	0	0	0	0	0	2.5	7.1	0	0	0
8/31	11	0	0	0	0	0	0	0	0	0	0	0	4.3	0	0	23	0	0	0	0	0	0	0	0	0	0	0	2.5	6.9	0	0	0
9/1	11	0	0	0	0	0	0	0	0	0	0	0	6.2	0	0	21	0	0	0	0	0	0	0	0	0	0	0	2.2	6.7	0	0	0
9/2	10	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	18	0	0	0	0	0	0	0	0	0	0	0	2	6.6	0	0	0
9/3	9.7	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	16	0	0	0	0	0	0	0	0	0	0	0	1.6	6.7	0	0	0
9/4	8.4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	14	0	0	0	0	0	0	0	0	0	0	0	1.3	6.7	0	0	0
9/5	7.1	0	0	0	0	0	0	0	0	0	0	0	3.9	0	0	16	0	0	0	0	0	0	0	0	0	0	0	1.7	6.3	0	0	0
9/6	5.6	0	0	0	0	0	0	0	0	0	0	0	3	0	0	15	0	0	0	0	0	0	0	0	0	0	0	2	6.1	0	0	0
9/7	4.9	0	0	0	0	0	0	0	0	0	0	0	2.8	0	0	15	0	0	0	0	0	0	0	0	0	0	0	1.7	5.6	0	0	0
9/8	4.4	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	13	0	0	0	0	0	0	0	0	0	0	0	2	5.4	0	0	0
9/9	4.2	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	15	0	0	0	0	0	0	0	0	0	0	0	2.3	6.3	0	0	0
9/10	3.7	0	0	0	0	0	0	0	0	0	0	0	1.9	0	0	17	0	0	0	0	0	0	0	0	0	0	0	2.3	7	0	0	0
9/11	3.2	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	16	0	0	0	0	0	0	0	0	0	0	0	2.3	7.3	0	0	0
9/12	2.6	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	13	0	0	0	0	0	0	0	0	0	0	0	2.4	7.1	0	0	0
9/13	2.1	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	13	0	0	0	0	0	0	0	0	0	0	0	2.7	7.3	0	0	0
9/14	1.8	0	0	0	0	0	0	0	0	0	0	0	3.9	0	0	12	0	0	0	0	0	0	0	0	0	0	0	2.6	8	0	0	0
9/15	1.6	0	0	0	0	0	0	0	0	0	0	0	5	0	0	12	0	0	0	0	0	0	0	0	0	0	0	2.7	7.9	0	0	0
9/16	1.4	0	0	0	0	0	0	0	0	0	0	0	3.7	0	0	16	0	0	0	0	0	0	0	0	0	0	0	2.6	7.8	0	0	0
9/17	1.2	0	0	0	0	0	0	0	0	0	0	0	3.9	0	0	16	0	0	0	0	0	0	0	0	0	0	0	2.3	7.5	0	0	0
9/18	1.3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	15	0	0	0	0	0	0	0	0	0	0	0	2.5	7.2	0	0	0
9/19	1.4	0	0	0	0	0	0	0	0	0	0	0	5.4	0	0	15	0	0	0	0	0	0	0	0	0	0	0	2.3	6.8	0	0	0
9/20	1.2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	14	0	0	0	0	0	0	0	0	0	0	0	2.8	6.5	0	0	0
9/21	1.2	0	0	0	0	0	0	0	0	0	0	0	3.7	0	0	14	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	0
9/22	1.2	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	14	0	0	0	0	0	0	0	0	0	0	0	2.7	6.6	0	0	0
9/23	1.2	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	13	0	0	0	0	0	0	0	0	0	0	0	2.3	6.9	0	0	0
9/24	1.2	0	0	0	0	0	0	0	0	0	0	0	5.8	0	0	12	0	0	0	0	0	0	0	0	0	0	0	1.8	7.2	0	0	0
9/25	1.2	0	0	0	0	0	0	0	0	0	0	0	5.1	0	0	13	0	0	0	0	0	0	0	0	0	0	0	1.3	7.3	0	0	0
9/26	1.2	0	0	0	0	0	0	0	0	0	0	0	4.3	0	0	20	0	0	0	0	0	0	0	0	0	0	0	1.6	7.4	0	0	0
9/27	1.2	0	0	0	0	0	0	0	0	0	0	0	3.6	0	0	22	0	0	0	0	0	0	0	0	0	0	0	2.7	7.2	0	0	0
9/28	1.5	0	0	0	0	0	0	0	0	0	0	0	2.7	0	0	23	0	0	0	0	0	0	0	0	0	0	0	2.8	7.3	0	0	0
9/29	2.2	0	0	0	0	0	0	0	0	0	0	0	2.7	0	0	22	0	0	0	0	0	0	0	0	0	0	0	2.8	6.7	0	0	0
9/30	15	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	22	0	0	0	0	0	0	0	0	0	0	0	2.5	7.5	0	0	0

*A water year begins on October 1 and ends on September 30 of the named year.
For example, water year 2013 began on Oct. 1, 2012, and concluded on September 30, 2013.