

TABLE A

MINIMUM MEAN DAILY INSTREAM FLOW REQUIREMENTS (see Condition 23)

Fall December 1- December 15	Winter December 16-April 15	Spring April 16-May 31
<p><u>All Water Year Types</u>¹</p> <p>May divert with minimum bypass of 40 cfs at the Highway 1 gage.</p>	<p><u>Normal or Better and Below Normal Water Years</u>¹</p> <p>For Normal or Better and Below Normal Water Years, an Attraction Day is defined as: Estimated unimpaired flow² at the Highway 1 gage of 200 cfs or greater.</p> <p>Prior to First Attraction Day: Continue December 1-15 bypass flows.</p> <p>During Attraction Day(s): Bypass sufficient flow to maintain 200 cfs at the Highway 1 gage.</p> <p>Following Attraction Day(s): Ramp down bypass flows as³ indicated on Table B. Following the ramp-down period, bypass 90 cfs throughout the reach³ between the Sleepy Hollow Weir gage and the USGS Near Carmel gage, and 60 cfs throughout the reach³ between the USGS Near Carmel gage and the Highway 1 gage.</p>	<p><u>All Water Year Types</u>¹</p> <p>Bypass 80 cfs throughout the reach³ between Sleepy Hollow Weir gage and the Highway 1 gage.</p>
	<p><u>Dry and Critically Dry Water Years</u>¹</p> <p>For Dry and Critically Dry Water Years, an Attraction Day is defined as: Estimated unimpaired flow² at the Highway 1 gage of 200 cfs or greater in January, 100 cfs or greater in February, and 75 cfs or greater in March.</p> <p>Prior to First Attraction Day: Continue December 1-15 bypass flows.</p> <p>During Attraction Day(s): Bypass sufficient flow to maintain 150 cfs at the Highway 1 gage.</p> <p>Following Attraction Day(s): Ramp down bypass flows as indicated on Table B. Following the ramp-down period, bypass the same as for wet, normal, and below normal water years.</p>	

¹ Water Year types are as specified in Table C.

² For purposes of Table A, "estimated unimpaired flow" shall be defined as the measured mean daily flow at the specified gage plus the mean daily diversion by California American Water from the Carmel River and underlying alluvial aquifer upstream of that gage during the preceding five days.

³ Maintaining the specified flow at both the upper and lower gage associated with the specified reach is sufficient evidence that the rate is maintained throughout the entire reach. In the case of bypass flow required throughout the reach between the Sleepy Hollow Weir and Highway 1 gages from April 16 to May 31, the required bypass flow must also be maintained at the USGS near Carmel gage.

Source: Table A is based on Table 9 in Instream Flow Needs for Steelhead in the Carmel River, Bypass Flow Recommendations for Water Supply Projects Using Carmel River Waters, National Marine Fisheries Service, Southwest Region – Santa Rosa Field Office, June 3, 2002, page 32.

TABLE B				
Carmel River Bypass Flows - "Ramp-Down" Flows				
Minimum Mean Daily Instream Flows Following an Attraction Day or Days				
(All Values in Cubic Feet Per Second)				
Between MPWMD Sleepy Hollow Gage and USGS Near Carmel Gage			Between USGS Near Carmel Gage and MPWMD Highway 1 Gage	
Days	Normal or Better and Below Normal Water Years	Dry and Critically Dry Water Years	Normal or Better and Below Normal Water Years	Dry and Critically Dry Water Years
0	200	150	200	150
1	175	125	175	125
2	150	100	150	100
3	125	90	125	80
4	90	90	100	60
5	90	90	80	60
6	90	90	60	60

Source: *Instream Flow Needs for Steelhead in the Carmel River, Bypass Flow Recommendations for Water Supply Projects Using Carmel River Waters*, National Marine Fisheries Service, Southwest Region - Santa Rosa Field Office, June 3, 2002, page 15.

Note: "Day 0" refers to an Attraction Day or Days. "Day 1" refers to the first day after an Attraction Day or Days. See Table A for the definition of an Attraction Day.

TABLE C
Carmel River Water Supply Index

Cumulative Unimpaired Carmel River Flow at the Sleepy Hollow Weir Site in Acre-Feet				
Water Year Type				
Period	Normal or Better	Below Normal	Dry	Critically-Dry
Oct	> 300	300 - 100	99 - 1	0
Oct - Nov	> 1,000	1,000 - 500	499 - 300	< 300
Oct - Dec	> 4,000	4,000 - 1,700	1,699 - 1,200	< 1,200
Oct - Jan	> 11,700	11,700 - 5,700	5,699 - 3,200	< 3,200
Oct - Feb	> 28,800	28,800 - 11,800	11,799 - 7,300	< 7,300
Oct - Mar	> 40,600	40,600 - 21,300	21,299 - 10,700	< 10,700
Oct - Apr	> 47,600	47,600 - 24,300	24,299 - 13,200	< 13,200
Oct - May	> 49,500	49,500 - 26,000	25,999 - 13,900	< 13,900
Oct - Jun	> 49,900	49,900 - 26,800	26,799 - 14,600	< 14,600
Oct - Jul	> 50,000	50,000 - 27,200	27,199 - 14,700	< 14,700
Oct - Aug	> 50,300	50,300 - 27,300	27,299 - 14,800	< 14,800
Oct - Sep	> 50,700	50,700 - 27,400	27,399 - 14,900	< 14,900

Expected Unimpaired Carmel River Flow at the Sleepy Hollow Weir Site in Acre-Feet				
Assuming 75% Reliability				
Water Year Type				
Period	Normal or Better	Below Normal	Dry	Critically-Dry
Nov - Sep	50,400	34,000	25,000	21,000
Dec - Sep	43,000	27,000	17,500	14,900
Jan - Sep	36,000	22,300	12,200	10,000
Feb - Sep	29,000	17,300	9,000	7,000
Mar - Sep	21,500	11,275	6,000	3,400
Apr - Sep	13,000	5,850	3,250	1,575
May - Sep	5,000	2,500	1,425	800
Jun - Sep	2,000	900	625	400
Jul - Sep	600	300	300	300
Aug - Sep	200	200	200	200
Sep	100	100	100	100

Notes:

1. "Cumulative" and "Expected" water year types are derived from the daily unimpaired flow record at the Sleepy Hollow Weir site simulated by the Monterey Peninsula Water Management District for Water Years 1902 through 1996.
2. Water Year types are based on selected exceedance frequencies. "Normal or Better" refers to flows that are equaled or exceeded 50% of the time. "Below Normal" refers to flows that are exceeded between 50% and 75% of the time. "Dry" refers to flows that are exceeded between 75% and 87.5% of the time. "Critically Dry" refers to flows that are exceeded 87.5% of the time.
3. The Water Supply Index shall incorporate a daily timestep so that it can be updated on a daily basis.