

TABLE 1A-4. Measured Water Temperature Ranges¹ (°F) in the Guadalupe River at the Alamos Drop Structure and Temperature Thresholds for Important Steelhead Life Stages

This table shows the range of measured water temperatures in the Guadalupe River during the spawning, smoltification, and rearing periods for steelhead. It also indicates the percentage of time that water temperatures are optimal, suboptimal, and lethal during these periods.

SPAWNING (JANUARY - APRIL)²

Percentages	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0%	49.8	50.4	51.7	46.0								
10%	51.1	52.3	54.3	57.4								
20%	51.7	53.6	54.9	58.7								
30%	51.8	54.9	55.9	60.0								
40%	52.3	55.8	56.8	60.6								
50%	53.0	56.8	57.4	61.9								
60%	53.0	57.4	58.1	63.1								
70%	53.0	58.1	58.7	64.4								
80%	53.6	58.7	60.0	66.3								
90%	53.6	59.3	60.6	68.9								
100%	54.9	61.9	65.0	76.4								

SMOLTIFICATION (MARCH - JUNE)²

Percentages	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0%			51.7	46.0	42.7	49.7						
10%			54.3	57.4	57.2	59.2						
20%			54.9	58.7	61.2	66.1						
30%			55.9	60.0	65.0	71.3						
40%			56.8	60.6	66.9	72.6						
50%			57.4	61.9	68.2	73.2						
60%			58.1	63.1	69.4	73.8						
70%			58.7	64.4	70.7	74.5						
80%			60.0	66.3	73.2	75.1						
90%			60.6	68.9	77.5	76.4						
100%			65.0	76.4	97.6	86.9						

SUMMER REARING (JULY - OCTOBER)²

Percentages	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0%							69.9	60.5	66.9	60.5		
10%							73.7	72.4	69.4	61.7		
20%							74.3	73.7	70.5	63.6		
30%							75.0	75.0	71.2	64.3		
40%							75.6	75.6	71.8	64.9		
50%							76.4	77.7	72.4	65.5		
60%							78.3	79.0	72.4	66.1		
70%							79.0	79.6	73.0	67.6		
80%							79.6	80.9	78.3	68.5		
90%							80.3	82.2	80.3	69.4		
100%							82.8	88.0	82.2	71.8		

Notes: Temperature data collected by SCVWD during 1996 and 1997.

¹ Percentage of time that temperature is less than stated value. Data collected at 1-hour intervals.

² Lifestages may be present during months where data are not shown, however, focus of analysis is on those months when temperatures are typically limiting.

Legend:

#°F	Suboptimal Water Temperatures	#°F	Lethal Water Temperatures
#°F	Optimal Water Temperatures	ND	No Data