

Coyote Creek, Ventura County
CAP Workbook Threats Assessment Summary Tables
2008

**Assessment of Target Viability
Coyote Creek, Ventura County**

**Assessment of Target Viability
Coyote Creek, Ventura County**

Double-click opens entry form

Conservation Target	Category	Key Attribute	Indicator	Indicator Ratings				Current Indicator Status	Current Rating	Desired Rating	Date of Current Rating	Date for Desired Rating
				Poor	Fair	Good	Very Good					
1 Egg	Landscape Context	Flow during incubation period	Baseflow in relation to avg. annual daily flow	< 25% of avg. annual daily flow	26-50% of avg. annual daily flow		> 50% of avg. annual daily flow	no summer flows below Casitas Dam	Poor		Dec-97	
1 Egg	Landscape Context	Non-native species	Non-native egg predators	present throughout watershed	present in >50% of watershed	present in < 50% of watershed	absent	present in and around Lake Casitas	Fair		May-08	
1 Egg	Landscape Context	Water temperature	Mean weekly avg. temperature in redds	< 5 C. and > 13 C.	11.1-13 C.	10.1-11 C.	6-10 C.	temperatures are limiting	Poor		Dec-97	
1 Egg	Condition	Substrate quality	Avg. percent fines (<0.85mm) in potential spawning areas	> 17% fines	11-17% fines	5-10 % fines	< 5% fines	low quality below Casitas Dam	Fair		Dec-97	
1 Egg	Condition	Substrate quality	Embeddedness	> 75% embedded	50-75% embedded	25-49% embedded	< 25% embedded	low quality spawning habitat below Casitas Dam	Poor		Dec-97	
2 Fry	Landscape Context	Dispersal	Barriers between redds and rearing habitat	complete barrier	partial barriers common	partial barriers scarce	no barriers				May-04	
2 Fry	Landscape Context	Non-native species	Non-native fry predators	present throughout watershed	present > 50% watershed	present < 50% of watershed	absent	present in and around Lake Casitas	Fair		May-08	
2 Fry	Landscape Context	Sediment supply	Turbidity (no. days turbidity is > 25 NTUs)	> 30 days during fry development period	20-30 days	10-19 days	< 10 days	high turbidity	Poor		Dec-97	
2 Fry	Condition	Habitat complexity/refugia	Amount of functional high velocity refuge habitat with flows < 15 cm/sec (boulders, overhanging banks, etc.)	none; watercourse in rearing habitat is channelized	some	common	abundant	no summer flows below Casitas Dam	Poor		Dec-97	
3 Juvenile	Landscape Context	Dispersal	Barriers between rearing habitat and estuary	present			absent	Casitas Dam	Poor		May-08	

**Assessment of Target Viability
Coyote Creek, Ventura County**

Conservation Target		Category	Key Attribute	Indicator	Poor	Fair	Good	Very Good	Current Indicator Status	Current Rating	Desired Rating	Date of Current Rating	Date for Desired Rating
3	Juvenile	Landscape Context	Flow during rearing period	Pool habitat > 3 feet in depth	pools scarce or absent	low abundance of pools	high abundance of pools	high abundance of pools with multiple "refuge" pools (> 5 ft deep)	limited habitat	Fair		Dec-97	
3	Juvenile	Landscape Context	Non-native species	Non-native juvenile predators	present throughout watershed	present > 50% watershed	present < 50% watershed	absent	present in and around Lake Casitas	Fair		May-08	
3	Juvenile	Landscape Context	Summer flow	Percent of unimpaired median summer baseflow (based on long-term mean monthly discharge)	< 70%	70-90%	> 90%	100% over all IP-km				Jan-96	
3	Juvenile	Landscape Context	Water temperature	Median weekly average temperature (MWAT) in potential rearing habitat	> 21 C.	18-21 C.	< 18 C.	< 17 C.	lack of thermal refugia	Fair		May-97	
3	Juvenile	Condition	Estuarine inflows	Percentage of unimpaired freshwater inflow to estuary (necessary for maintaining brackish water < 15 ppt salinity)	< 25%	25-49%	50-75%	> 75%				Sep-07	
3	Juvenile	Condition	Estuarine inflows	Persistence of hypoxic or anoxic saline layer (> 15 ppt) in potential rearing habitat areas between May and onset of winter rains	3 months	1 month	1 week	< 3 days				Sep-96	
3	Juvenile	Condition	Food availability	Species richness	< 25 taxa	25-29 taxa	30-40 taxa	> 40 taxa				Jan-99	
3	Juvenile	Condition	Habitat complexity/refugia	Instream refugia	absent			present (boulders, overhanging banks, etc.)	lack of rearing habitat; lack of flows below dam	Poor		May-97	
3	Juvenile	Condition	Riparian corridor species composition and structure	Mean percent native, undisturbed composition and structure in 100-foot riparian buffer	< 25%	25-50%	51-75%	historic conditions				Jan-96	
4	Smolt	Landscape Context	Dispersal	Number of days when depths are < 0.4 ft anywhere in migration corridor during outmigration period (March through June)	> 10 days	6-10 days	1-5 days	0 days	no flows below Casitas Dam in summer	Poor		Dec-97	

**Assessment of Target Viability
Coyote Creek, Ventura County**

Conservation Target		Category	Key Attribute	Indicator	Poor	Fair	Good	Very Good	Current Indicator Status	Current Rating	Desired Rating	Date of Current Rating	Date for Desired Rating
4	Smolt	Landscape Context	Flow for downstream passage March through June	Maximum potential rate of diversion by pumping during April and May (expressed as percent of estimate unimpaired median flow in April)	> 150%	100-150%	50-99%	< 50%				Sep-07	
4	Smolt	Landscape Context	Passage to ocean	Number of days stream mouth is open with adequate flow during outmigration period (March through June)	< 30 days	30-60 days	60-90 days	> 90 days				Sep-96	
5	Adult	Landscape Context	Dispersal	Accessibility of suitable spawning areas (based on TRT criteria)	accessible sites are clumped in one location or < 25% of all tributaries are accessible	25-50% of all tributaries are accessible	50-75% of all tributaries are accessible	> 75% of all tributaries are accessible	Casitas Dam blocks access to 80% of watershed	Poor		May-08	
5	Adult	Landscape Context	Dispersal	Number of days stream mouth is open with adequate flow during entry period (1 November to 1 June)	< 30 days	30-60 days	60-90 days	> 90 days				Sep-96	
5	Adult	Landscape Context	Flow during spawning period (spawning and upstream/downstream passage)	Percent of net discharge (unimpaired flow minus total diversions) occurring between 1 December to 1 June, in all water years	> 10%	6-10%	3-5%	< 3%				Jun-02	
5	Adult	Landscape Context	Water temperature	Median weekly average temperature in migration corridor	> 17 C.	15-16.9 C.	13-14.9 C.	10-12.9 C.	high summer temperatures	Fair		Dec-97	
5	Adult	Size	Population size	Mean annual adult spawner abundance		TRT criteria for low extinction risk (by watershed)						May-07	
6	Multiple Life Stages	Landscape Context	Barriers/diversions	Stream crossings/stream mile	> two/mile			< two/mile				Oct-07	
6	Multiple Life Stages	Landscape Context	Channel flow and morphology	Percent of total watercourse length channelized	> 25%	16-25%	5-15%	< 5%				May-02	
6	Multiple Life Stages	Landscape Context	Fire regime/vegetation maturity	Percent of watershed affected by high intensity fire within previous 100 yrs	> 25%	10-24%	5-9%	< 5%					

**Assessment of Target Viability
Coyote Creek, Ventura County**

Conservation Target	Category	Key Attribute	Indicator	Poor	Fair	Good	Very Good	Current Indicator Status	Current Rating	Desired Rating	Date of Current Rating	Date for Desired Rating	
6	Multiple Life Stages	Landscape Context	Floodplain connectivity	Floodplain connectivity	< 50% of response reaches in watershed have inundation of historic floodplains by bankfull flows (connectivity)	50-65% of response reaches in watershed demonstrate floodplain connectivity	66-80% of response reaches in watershed demonstrate floodplain connectivity	> 80% of response reaches in watershed demonstrate connectivity				May-02	
6	Multiple Life Stages	Landscape Context	Historic vs Current Spawning Habitat	Fraction of historic spawning tributaries currently accessible to spawners	< 15% available	16-50% available	51-90% available	>90% available	Casitas Dam	Poor		May-08	
6	Multiple Life Stages	Landscape Context	Hydrology	Dry stream reaches	> 75% dry reaches	26-75% dry reaches	1-25% dry reaches	no dry reaches; perennial surface flows	no summer flows below Casitas Dam	Poor		Dec-97	
6	Multiple Life Stages	Landscape Context	Hydrology	Hydrograph	severely modified			natural				Jan-96	
6	Multiple Life Stages	Landscape Context	Land use	Distribution of public ownership along main stem of watercourse	< 25% of land bordering main stem of drainage is publicly owned	25-50%	51-75%	> 75%				Jun-07	
6	Multiple Life Stages	Landscape Context	Land use	Miles of road per square mile of watershed within 100 meters of watercourse	> 1 mi	0.5-1.0 mi	0.1-0.49 mi	< 0.1 mi				Sep-07	
6	Multiple Life Stages	Landscape Context	Land use	Miles of roads per square mile of watershed	> 3.0 mi	2.6-3.0 mi	1.6-2.5 mi	< 1.6 mi				Jun-02	
6	Multiple Life Stages	Landscape Context	Land use	Percent of watershed area in agricultural use	> 30%	20-29%	10-19%	< 10%				Jun-02	
6	Multiple Life Stages	Landscape Context	Land use	Percent of watershed area in agriculture within 100 meters of watercourse	> 20%	11-20%	5-10%	< 5%					
6	Multiple Life Stages	Landscape Context	Land use	Percent of watershed area in public ownership	< 25 % public ownership	25-50%	51-75%	> 75%				Jan-06	
6	Multiple Life Stages	Landscape Context	Land use	Percent of watershed area in urban/residential use	> 25%	10-25%	5-9%	< 5%				Sep-07	

**Assessment of Target Viability
Coyote Creek, Ventura County**

Conservation Target		Category	Key Attribute	Indicator	Poor	Fair	Good	Very Good	Current Indicator Status	Current Rating	Desired Rating	Date of Current Rating	Date for Desired Rating
6	Multiple Life Stages	Landscape Context	Water quality	General index of toxicity based on severity of adverse effects on fish	Acute lethal effects (fish kill)	Sublethal effects (reduced growth, altered behavior, etc.)	Toxins detected but no sublethal effects	No toxins or contaminants detected	very low levels of coliform bacteria	Good		May-00	
6	Multiple Life Stages	Landscape Context	Water quality	Percent total impervious surfaces as % of watershed area	>40%	21-40%	5-20%	< 5%				Sep-07	
6	Multiple Life Stages	Condition	Estuarine habitat quality	Current lagoon area as percentage of historic total area	< 25%	26-50%	51-75%	> 75%				Jan-08	
6	Multiple Life Stages	Condition	Estuarine habitat quality	Depth, LWD, and other habitat elements (e.g. eelgrass)	depth < 1 meter; LWD and/or overhanging banks absent		depth > 1 meter; LWD and/or overhanging banks present					Sep-96	
6	Multiple Life Stages	Condition	Riparian corridor quality	Riparian canopy cover	< 25% cover	25-49% cover	50-75% cover	> 75% cover		Good		Dec-97	
6	Multiple Life Stages	Condition	Riparian corridor quality	Riparian corridor species composition	< 25% native composition	25-50% native composition	50-75% native composition	> 75% native composition				Oct-07	

**Detailed Viability Summary
San Miguel/Dolores River**

Summary of Threats Click the page-down icon ▼ to the right to view more summary tables.
Coyote Creek, Ventura County

Threats Across Targets		Egg	Fry	Juvenile	Smolt	Adult	Multiple Life Stages			Overall Threat Rank
		1	2	3	4	5	6	7	8	
1	Dams and surface water diversions	Very High			Very High					
2	Groundwater extraction	Very High	High	Very High	Very High	Very High	Very High			Very High
3	Urban development	Very High	-	Very High	-	-	Very High			Very High
4	Recreational facilities and activities (ORV use, campgrounds, etc.)	Medium	Very High	High	-	-	Very High			Very High
5	Non-native species present (incl. hatchery fish)	High	Very High	High	-	-	High			Very High
6	Conversion of watershed lands to row crop agriculture	High	High	High	-	-	Low			High
7	Non-point pollution from roads	High	High	High	-	-	Low			High
8	Roads in watershed and/or within 300 feet of watercourses	High	High	-	-	-	Low			High
9	Livestock Farming & Ranching	-	-	-	-	-	Low			Low
10	Agricultural effluents	-	-	-	-	-	-			-
11	Artificial lagoon breaching	-	-	-	-	-	-			-
12	Channel and/or estuary maintenance, dredging, and vegetation control (incl. flood control activities)	-	-	-	-	-	-			-
13	Culverts, crossings, and bridges	-	-	-	-	-	-			-
14	Gas, water, and/or other utility pipelines	-	-	-	-	-	-			-
15	Illegal collecting, poaching, and/or unauthorized angling	-	-	-	-	-	-			-
16	Invasive, non-native plants	-	-	-	-	-	-			-
Threat Status for Targets and Project		Very High	-	-	Very High					

**Detailed Viability Summary
San Miguel/Dolores River**

Summary of Threats

Click the page-down icon ▼ to the right to view more summary tables.

Coyote Creek, Ventura County

Threats Across Targets		Egg	Fry	Juvenile	Smolt	Adult	Multiple Life Stages			Overall Threat Rank
Project-specific threats		1	2	3	4	5	6	7	8	
17	Levees and channelization	-	-	-	-	-	-			-
18	Mining & Quarrying	-	-	-	-	-	-			-
19	Oil & Gas Drilling	-	-	-	-	-	-			-
20	Public ownership in watershed									-
21	Urban wastewater effluents (incl. industrial and commercial effluents)	-	-	-	-	-	-			-
22	Wildland fires (incl. debris flows following fires)	-	-	-	-	-	-			-
23										-
24										-
25										-
26										-
27										-
28										-
29										-
30										-
31										-
32										-
Threat Status for Targets and Project		Very High	-	-	Very High					

Detailed Viability Summary San Miguel/Dolores River

Stress Matrix

Coyote Creek, Ventura County

Stresses (Altered Key Ecological Attributes) Across Targets		Egg	Fry	Juvenile	Smolt	Adult	Multiple Life Stages		
		1	2	3	4	5	6	7	8
1	Altered hydrograph	-	-	-	-	-	Very High	-	-
2	Impaired access to rearing and/or spawning habitat	-	-	-	-	-	Very High	-	-
3	Altered base flows during incubation	Very High	-	-	-	-	-	-	-
4	Impaired access to spawning areas	-	-	-	-	Very High	-	-	-
5	Impaired water temperature in spawning areas	Very High	-	-	-	-	-	-	-
6	Impaired substrate quality (sedimentation and embeddedness)	Very High	-	-	-	-	-	-	-
7	Impaired access to ocean	-	-	-	Very High	-	-	-	-
8	Impaired instream habitat complexity/refugia	-	-	Very High	-	-	-	-	-
9	Altered sediment supply	-	Very High	-	-	-	-	-	-
10	Impaired habitat complexity/refugia	-	Very High	-	-	-	-	-	-
11	Impaired access to estuary	-	-	Very High	-	-	-	-	-
12	Impaired flows during rearing period	-	-	Very High	-	-	-	-	-
13	Non-native predators	-	High	High	-	-	-	-	-
14	Non-native egg predators	High	-	-	-	-	-	-	-
15	Impaired water temperatures in migration corridor	-	-	-	-	High	-	-	-
16	Impaired water temperature	-	-	High	-	-	-	-	-

Detailed Viability Summary San Miguel/Dolores River

Stresses (Altered Key Ecological Attributes) Across Targets		Egg	Fry	Juvenile	Smolt	Adult	Multiple Life Stages		
		1	2	3	4	5	6	7	8
17	Impaired summer base flows	-	-	High	-	-	-	-	-
18	Altered riparian habitat quality	-	-	-	-	-	Medium	-	-
19	Impaired water quality	-	-	-	-	-	Medium	-	-
20	Impaired riparian habitat quality	-	-	-	-	-	-	-	-
21	Impaired food availability	-	-	-	-	-	-	-	-
22	Low adult population size	-	-	-	-	-	-	-	-
23	Impaired estuarine inflows	-	-	-	-	-	-	-	-
24	Impaired floodplain connectivity	-	-	-	-	-	-	-	-
25	Altered fire regime/recent fire in watershed	-	-	-	-	-	-	-	-
26	Dispersal barriers between redds and rearing habitat	-	-	-	-	-	-	-	-
27	Altered land use from natural condition	-	-	-	-	-	-	-	-
28	Impaired estuarine habitat quality	-	-	-	-	-	-	-	-
29	Impaired access to stream from ocean (stream mouth closed)	-	-	-	-	-	-	-	-
30		-	-	-	-	-	-	-	-
31		-	-	-	-	-	-	-	-
32		-	-	-	-	-	-	-	-

**Detailed Viability Summary
San Miguel/Dolores River**

**Overall Viability Summary
Coyote Creek, Ventura County**

Conservation Targets		Landscape Context		Condition		Size		Viability Rank
		Grade	Weight	Grade	Weight	Grade	Weight	
1	Egg	Poor	1	Fair	1	-	1	Fair
2	Fry	Poor	1	Poor	1	-	1	Poor
3	Juvenile	Poor	1	Poor	1	-	1	Poor
4	Smolt	Poor	1	-	1	-	1	Poor
5	Adult	Poor	1	-	1	-	1	Poor
6	Multiple Life Stages	Poor	1	Good	1	-	1	Fair
7		-	1	-	1	-	1	-
8		-	1	-	1	-	1	-
Project Biodiversity Health Rank								Poor

Detailed Viability Summary San Miguel/Dolores River

Detailed Viability Summary Coyote Creek, Ventura County

Conservation Targets		Key Ecological Attributes				Indicators				Calculated Rank	User Override
		Poor	Fair	Good	Very Good	Poor	Fair	Good	Very Good		
1	Egg									Fair	
	Landscape Context	2	1			2	1			Poor	
	Condition		1			1	1			Fair	
	Size									-	
2	Fry									Poor	
	Landscape Context	1	1			1	1			Poor	
	Condition	1				1				Poor	
	Size									-	
3	Juvenile									Poor	
	Landscape Context	1	3			1	3			Poor	
	Condition	1				1				Poor	
	Size									-	
4	Smolt									Poor	
	Landscape Context	1				1				Poor	
	Condition									-	
	Size									-	
5	Adult									Poor	
	Landscape Context	1	1			1	1			Poor	
	Condition									-	
	Size									-	
6	Multiple Life Stages									Fair	
	Landscape Context	2		1		2		1		Poor	
	Condition			1				1		Good	
	Size									-	
7										-	
	Landscape Context									-	
	Condition									-	
	Size									-	
8										-	
	Landscape Context									-	
	Condition									-	
	Size									-	