

Table S1. Baseline and climate change vulnerability scores for native and alien fishes in California, as determined by methods discussed in this paper.

Taxon			Vulnerability scores				Status score ^a	Conservation status ^b
			Baseline		Climate			
			change					
			Best	Range	Best	Range		
<i>Native taxa</i>	Petromyzontidae	Pacific lamprey, <i>Entosphenus tridentata</i>	21	19-28	17	14-24	3.4	NT
		Goose Lake lamprey, <i>Entosphenus</i> sp.	24	20-28	15	13-20	2.6	VU
		Klamath River lamprey, <i>E. similis</i>	32	30-34	18	15-21	3.9	NT
		River lamprey, <i>E. ayersi</i>	24	23-30	18	16-22	3.6	NT
		Kern brook lamprey, <i>Lampetra</i>	19	16-20	15	12-18	2.0	VU

	<i>hubbsi</i>		22		18		
	Western	33	27-	18	15-	3.1	NT
	brook		33		22		
	lamprey, <i>L.</i>						
	<i>richardsoni</i>						
	Pit-Klamath	31	30-	18	13-	3.6	NT
	brook		33		23		
	lamprey, <i>L.</i>						
	<i>lethophaga</i>						
Acipenseri	Northern	29	27-	18	15-	2.4	VU
dae	green		33		21		
	sturgeon,						
	<i>Acipenser</i>						
	<i>medirostris</i>						
	Southern	25	19-	25	18-	1.6	EN*
	green		28		26		
	sturgeon, <i>A.</i>						
	<i>medirostris</i>						
	White	24	22-	18	17-	2.0	VU
	sturgeon, <i>A.</i>		29		24		
	<i>transmontanu</i>						
	s						
Cyprinidae	Thicktail	0		0		0.0	Extinct
	chub,						
	<i>Siphatales</i>						

crassicauda

Goose Lake 29 25- 17 14- 3.4 NT

tui chub, *S. t.* 32 22

thalassinus

Pit River tui 32 29- 24 19- 4.0 LC

chub, *S.* 33 27

thalassinus

subsp.

Cow Head tui 24 23- 16 14- 2.1 VU

chub, *S. t.* 29 19

vaccaceps

Klamath tui 32 29- 27 25- 4.1 LC

chub, *S. b.* 33 29

bicolor

High Rock 0 0 0.0 Extinct

Springs tui

chub, *S. b.*

subsp.

Lahontan 27 25- 19 18- 2.4 VU

Lake tui 31 23

chub, *S. b.*

pectinifer

Lahontan 34 33- 25 23- 4.7 LC

stream tui 38 28

chub, *S. b.*

obesus

Eagle Lake 33 30- 18 16- 3.3 NT

tui chub, *S. b.* 35 20

subsp.

Owens tui 17 16- 17 14- 1.4 EN*

chub, *S. b.* 22 19

snyderi

Mojave tui 17 16- 17 15- 1.4 EN*

chub, *S.* 19 20

mohavensis

Bonytail, 0 0 0.0 Extinct

Gila elegans

Blue chub, 34 33- 22 19- 3.4 NT

Gila coerulea 37 25

Arroyo chub, 31 31- 26 23- 2.3 VU

Gila orcutti 34 27

Lahontan 37 33- 24 23- 4.8 LC

redside, 37 30

Richardsoni

s egregius

Sacramento 24 21- 25 20- 3.3 NT

hitch, *Lavinia* 31 29

e. exilicauda

Clear Lake 25 22- 14 13- 1.9 EN

hitch, *L. e.* 30 19

chi

Monterey	29	25-	20	15-	2.7	VU
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hitch, <i>L. e.</i>		31		21		
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harengeus

Central	29	22-	24	20-	3.4	NT
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California		30		29		
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roach, *L. s.*

symmetricus

Red Hills	24	21-	16	15-	2.0	VU
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roach, <i>L. s.</i>		25		19		
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subsp.

Russian River	31	28-	22	19-	3.0	NT
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roach, <i>L. s.</i>		33		25		
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subsp

Clear Lake	31	27-	20	16-	3.1	NT
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roach, <i>L. s.</i>		35		22		
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subsp.

Monterey	31	26-	21	13-	3.3	NT
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roach, <i>L. s.</i>		34		21		
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subditus

Navarro	32	31-	24	18-	3.0	NT
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Roach, <i>L. s.</i>		37		27		
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navarroensis

Tomales	30	27-	18	15-	3.0	NT
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Roach, <i>L. s.</i>		32		20		
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subspecies

Gualala 29 26- 18 13- 3.0 NT

roach, *L.* 31 19

parvipinnus

Northern 25 22- 17 12- 2.9 VU

Roach, *L.* 29 19

mitrulus

Sacramento 29 27- 29 24- 4.4 LC

blackfish, 35 31

Orthodon

microlepidotu

s

Sacramento 26 25- 21 17- 2.9 VU

splittail, 30 26

Pogonichthys

macrolepidot

us

Clear Lake 0 0 0.0 Extinct

splittail, *P.*

ciscoides

Hardhead, 25 22- 15 13- 3.4 NT

Mylopharodo 31 21

n

conocephalus

Sacramento	34	30-	23	20-	4.7	LC
pikeminow,		38		27		
<i>Ptychocheilu</i>						
<i>s grandis</i>						
Colorado	0		0		0.0	Extinct
pikeminnow,						
<i>P. lucius</i>						
Sacramento	29	25-	21	18-	4.1	LC
speckled		32		22		
dace,						
<i>Rhinichthys</i>						
<i>osculus subp.</i>						
Lahontan	35	34-	25	23-	4.8	LC
speckled		36		29		
dace, <i>R. o.</i>						
<i>robustus</i>						
Klamath	35	34-	24	23-	4.8	LC
speckled		35		30		
dace, <i>R. o.</i>						
<i>klamathensis</i>						
Owens	17	14-	14	11-	1.9	EN
speckled		20		17		
dace, <i>R. o.</i>						
<i>subsp.</i>						

	Long Valley	15	14-	13	12-	1.0	EN
	speckled		20		18		
	dace, <i>R. o.</i>						
	<i>subsp.</i>						
	Amargosa	23	20-	15	12-	1.6	EN
	Canyon		28		19		
	speckled						
	dace, <i>R. o.</i>						
	<i>nevadensis</i>						
	Santa Ana	20	17-	17	17-	1.6	EN
	speckled		25		21		
	dace, <i>R. o.</i>						
	<i>subsp.</i>						
Catostomi	Tahoe sucker,	34	34-	26	26-	5.0	LC
dae	<i>Catostomus</i>		37		28		
	<i>tahoensis</i>						
	Owens	32	32-	24	23-	3.9	NT
	sucker, <i>C.</i>		39		27		
	<i>fumeiventris</i>						
	Mountain	29	26-	20	19-	3.3	NT
	sucker, <i>C.</i>		29		24		
	<i>platyrhynchus</i>						
	<i>s</i>						
	Sacramento	31	30-	23	20-	5.0	LC
	sucker, <i>C.</i>						

<i>occidentalis</i>		37		26		
Goose Lake	29	29-	22	22-	2.1	VU
sucker, <i>C. o.</i>		29		24		
<i>lacusanserinus</i>						
Monterey	34	28-	23	17-	4.1	LC
sucker, <i>C. o.</i>		36		24		
<i>mnioiltus</i>						
Humboldt	28	29-	21	20-	4.3	LC
sucker, <i>C. o.</i>		33		25		
<i>humboldtianus</i>						
Modoc	23	21-	16	14-	1.6	EN*
sucker,		23		19		
<i>Catostomus</i>						
<i>microps</i>						
Klamath	35	34-	27	24-	4.1	LC
smallscale		36		31		
sucker, <i>C.</i>						
<i>rimiculus</i>						
Klamath	19	16-	15	14-	2.0	VU
largescale		23		22		
sucker, <i>C.</i>						
<i>snyderi</i>						
Lost River	24	19-	19	19-	1.7	EN*

	sucker, <i>C.</i>		27		23		
	<i>luxatus</i>						
	Santa Ana	20	18-	17	17-	1.7	EN*
	sucker, <i>C.</i>		22		18		
	<i>santaanae</i>						
	Shortnose	26	21-	20	19-	1.6	EN
	sucker,		26		21		
	<i>Chasmistes</i>						
	<i>brevirostris</i>						
	Razorback	17	17-	14	12-	2.0	VU*
	sucker,		20		18		
	<i>Xyrauchen</i>						
	<i>texanus</i>						
Osmeridae	Eulachon,	18	18-	20	18-	1.6	EN*
	<i>Thaleichthys</i>		25		25		
	<i>pacificus</i>						
	Longfin	20	20-	15	14-	2.0	VU *
	smelt,		27		23		
	<i>Spirinchus</i>						
	<i>thaleichthys</i>						
	Delta smelt,	15	13-	12	11-	1.4	EN*
	<i>Hypomesus</i>		17		13		
	<i>pacificus</i>						
Salmonida	Mountain	30	26-	21	17-	3.9	NT
e	whitefish,		33		22		

Prosopium

williamsoni

Bull trout,	0	0	0.0	Extinct
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Salvelinus

confluentus

Upper	24	21-	18	15-	2.4	VU
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Klamath-	28	21
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Trinity fall

Chinook

salmon,

Oncorhynchus

s tshawytscha

Upper	16	13-	14	14-	1.6	EN
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Klamath-	17	17
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Trinity spring

Chinook

salmon, *O.*

tshawytscha

Southern	27	24-	17	16-	3.7	NT
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Oregon	32	21
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Northern

California

coast fall

Chinook

salmon, *O.*

tshawytscha

California	23	19-	18	15-	2.4	VU *
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Coast fall		26		20		
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Chinook

salmon, *O.*

tshawytscha

Central	18	16-	12	10-	2.0	VU *
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Valley winter		18		14		
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Chinook

salmon, *O.*

tshawytscha

Central	19	17-	13	11-	2.0	VU *
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Valley spring		22		16		
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Chinook

salmon, *O.*

tshawytscha

Central	21	18-	13	11-	1.7	EN
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Valley late		24		15		
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fall Chinook

salmon, *O.*

tshawytscha

Central	18	17-	16	12-	2.0	VU
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Valley fall		21		17		
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Chinook

salmon, *O.*

tshawytscha

Central coast	14	14-	16	13-	1.1	EN*
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coho salmon,		20		19		
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O. kisutch

Southern	13	12-	15	14-	1.6	EN*
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Oregon		17		16		
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Northern

California

coast coho

salmon, *O.*

kisutch

Pink salmon,	17	16-	16	15-	1.3	EN
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<i>O. gorbuscha</i>		24		21		
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Chum	19	18-	18	15-	1.6	EN
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salmon, <i>O.</i>		28		21		
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keta

Northern	24	20-	17	16-	3.3	NT*
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California		27		21		
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coast winter

steelhead, *O.*

mykiss

Northern	17	16-	14	10-	1.9	EN*
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California		21		16		
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coast summer

steelhead, *O.*

mykiss

Klamath	27	20-	21	19-	3.9	NT
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Mountains		27		22		
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Province

winter

steelhead, *O.*

mykiss

Klamath	17	16-	11	11-	1.7	EN
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Mountains		21		14		
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Province

summer

steelhead, *O.*

mykiss

Central	24	23-	18	15-	2.7	VU *
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California		28		22		
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coast winter

steelhead, *O.*

mykiss

Central					2.4	VU *
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Valley

steelhead, *O.*

mykiss

South Central	23	19-	19	17-	2.4	VU *
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California

coast		27		24		
steelhead, <i>O.</i>						
<i>mykiss</i>						
Southern	18	16-	14	13-	1.7	EN*
California		22		17		
steelhead, <i>O.</i>						
<i>mykiss</i>						
Coastal	35	32-	21	17-	4.7	LC
rainbow trout,		36		23		
<i>O. m. irideus</i>						
McCloud	21	18-	12	12-	1.9	EN
River		21		16		
redband trout,						
<i>O. m. stonei</i>						
Goose Lake	33	31-	17	15-	3.3	NT
redband trout,		36		21		
<i>O. m. subsp.</i>						
Eagle Lake	24	23-	13	11-	1.4	EN
rainbow trout,		25		16		
<i>O. m.</i>						
<i>aquilarum</i>						
Kern River	19	17-	13	11-	1.9	EN
rainbow trout,		21		17		
<i>O. m. gilberti</i>						

	California	18	15-	14	14-	2.0	VU
	golden trout,		20		17		
	<i>O. m.</i>						
	<i>aguabonita</i>						
	Little Kern	23	22-	15	12-	2.0	VU *
	golden trout,		26		17		
	<i>O. m. whitei</i>						
	Coastal	26	26-	16	15-	3.4	NT
	cutthroat		32		20		
	trout, <i>O.</i>						
	<i>clarki clarki</i>						
	Paiute	27	27-	14	13-	1.7	EN*
	cutthroat		28		17		
	trout, <i>O. c.</i>						
	<i>selenensis</i>						
	Lahontan	18	16-	17	12-	2.1	VU *
	cutthroat		21		19		
	trout, <i>O. c.</i>						
	<i>henshawi</i>						
Fundulida	California	31	26-	22	18-	4.1	LC
e	killifish,		32		24		
	<i>Fundulus</i>						
	<i>parvipinnis</i>						
Cyprinodo	Desert	21	17-	19	15-	1.9	EN*
ntidae	pupfish,						

<i>Cyprinodon</i>		22		20		
<i>macularius</i>						
Owens	17	16-	18	16-	1.4	EN*
pupfish, <i>C.</i>		17		19		
<i>radiosus</i>						
Saratoga	24	21-	19	15-	2.1	VU
Springs		26		19		
pupfish, <i>C. n.</i>						
<i>nevadensis</i>						
Amargosa	24	21-	22	17-	2.3	VU
River		28		24		
pupfish, <i>C. n.</i>						
<i>amargosae</i>						
Tecopa	0		0		0.0	Extinct
pupfish, <i>C. n.</i>						
<i>calidae</i>						
Shoshone	15	14-	14	11-	1.1	EN
pupfish, <i>C. n.</i>		17		15		
<i>shoshone</i>						
Salt Creek	28	26-	18	15-	2.6	VU
pupfish, <i>C. s.</i>		30		19		
<i>salinus</i>						
Cottonball	27	24-	16	15-	2.4	VU *
Marsh		28		20		
pupfish, <i>C. s.</i>						

	<i>milleri</i>						
Cottidae	Rough	24	22-	16	11-	3.4	NT*
	sculpin,		28		20		
	<i>Cottus</i>						
	<i>asperrimus</i>						
	Bigeye	30	26-	22	20-	2.7	VU
	marbled		33		24		
	sculpin, C.						
	<i>klamathensis</i>						
	<i>macrops</i>						
	Lower	32	31-	20	18-	3.3	NT
	Klamath		32		23		
	marbled						
	sculpin, C.k.						
	<i>polyporus</i>						
	Upper	24	20-	19	17-	3.0	NT
	Klamath		28		24		
	marbled						
	sculpin, C. k.						
	<i>klamathensis</i>						
	Coastal	36	31-	28	25-	4.7	LC
	Prickly		36		30		
	sculpin, C.						
	<i>asper subsp.</i>						

	Clear Lake	32	29-	21	19-	3.1	NT
	prickly		33		21		
	sculpin, <i>C. a.</i>						
	<i>subsp.</i>						
	Coastrange	32	27-	22	18-	4.4	LC
	sculpin, <i>C.</i>		35		24		
	<i>aleuticus</i>						
	Riffle	29	25-	17	14-	3.4	NT
	sculpin, <i>C.</i>		32		21		
	<i>gulosus</i>						
	Pit sculpin,	28	24-	18	16-	4.3	LC
	<i>C. pitensis</i>		32		20		
	Paiute	32	28-	18	16-	4.4	LC
	sculpin, <i>C.</i>		33		22		
	<i>beldingi</i>						
	Reticulate	31	29-	20	17-	3.9	NT
	sculpin, <i>C.</i>		32		25		
	<i>perplexus</i>						
	Staghorn	35	33-	31	29-		
	sculpin,		35		32		
	<i>Leptocottus</i>						
	<i>armatus</i>						
Gasteroste	Coastal	32	29-	25	22-	4.6	LC
idae	threespine		34		28		
	stickleback,						

	<i>Gasterosteus</i>						
	<i>a. aculeatus</i>						
	Inland	32	28-	21	15-	4.1	LC
	threespine		34		23		
	stickleback,						
	<i>G. a.</i>						
	<i>microcephalus</i>						
	s						
	Unarmored	17	14-	12	10-	1.9	EN*
	threespine		20		15		
	stickleback,						
	<i>G. a.</i>						
	<i>williamsoni</i>						
	Shay Creek	14	13-	12	10-	1.3	EN
	stickleback,		17		14		
	<i>G. a. subsp.</i>						
Centrarchi	Sacramento	23	23-	18	18-	1.6	EN
dae	perch,		25		18		
	<i>Archoplites</i>						
	<i>interruptus</i>						
Embiotoci	Sacramento	25	21-	17	16-	3.4	NT
dae	tule perch,		30		20		
	<i>Hysterocarpus</i>						
	<i>s t. traski</i>						

Alien taxa	Gobiidae	Russian River	34	30-	20	16-	3.1	NT
		tule perch, <i>H.</i>		35		21		
		<i>t. pomo</i>						
		Clear Lake	27	25-	20	15-	3.0	NT
		tule perch, <i>H.</i>		31		21		
		<i>t. lagunae</i>						
		Tidewater	24	21-	19	12-	2.9	VU *
		goby,		27		21		
	Clupeidae	<i>Eucyclogobiu</i>						
		<i>s newberryi</i>						
		American	28	27-	19	16-		RD
		shad, <i>Alosa</i>		32		23		
		<i>sapidissima</i>						
		Threadfin	37	36-	27	25-		WA
		shad,		39		29		
		<i>Dorosoma</i>						
	Cyprinidae	<i>cepedianum</i>						
		Fathead	36	33-	31	29-		WA
		minnow, <i>Pime</i>		38		34		
		<i>phales</i>						
		<i>promalas</i>						
		Golden	39	37-	33	29-		WA
		shiner,		41		34		
		<i>Notemigonus</i>						

	<i>chrysoleucas</i>					
	Red shiner.	39	36-	32	26-	WA
	<i>Cyprinella</i>		39		33	
	<i>lutrensis</i>					
	Goldfish,	40	39-	34	34-	WA
	<i>Carassius</i>		41		34	
	<i>auratus</i>					
	Common	39	38-	32	30-	WA
	carp,		42		34	
	<i>Cyprinus</i>					
	<i>carpio</i>					
Ictaluridae	Channel	40	39-	27	25-	WA
	catfish,		42		30	
	<i>Ictalurus</i>					
	<i>punctatus</i>					
	Blue catfish.	39	35-	25	24-	RD
	<i>I. furcatus</i>		41		29	
	White catfish,	38	38-	31	27-	WA
	<i>Ameiurus</i>		41		31	
	<i>catus</i>					
	Brown	37	37-	32	31-	WA
	bullhead, A.		40		33	
	<i>nebulosus</i>					
	Black	39	37-	35	32-	WA
	bullhead, A.		40		35	

	<i>melas</i>					
	Yellow	36	34-	24	21-	RD
	bullhead. A.		38		28	
	<i>natalis</i>					
	Flathead	39	38-	32	27-	WA
	catfish,		41		34	
	<i>Pylodictus</i>					
	<i>olivaris</i>					
Salmonida	Brook trout,	34	34-	19	15-	WA
e	<i>Salvelinus</i>		38		22	
	<i>fontinalis</i>					
	Lake trout, S.	37	34-	18	15-	RD
	<i>namaycush</i>		40		20	
	Brown trout,	34	32-	20	17-	WA
	<i>Salmo trutta</i>		38		22	
	Kokanee,	39	34-	17	16-	WA
	<i>Oncorhynchus</i>		39		19	
	<i>s nerka</i>					
	Colorado	28	27-	20	16-	RD
	cutthroat		29		20	
	trout, O.					
	<i>clarki</i>					
	<i>pleuriticus</i>					
Atherinops	Mississippi	38	36-	31	27-	WA
idae	silverside.		38		33	

	<i>Menidia</i>					
	<i>audens</i>					
Poeciliidae	Western	38	36-	34	29-	WA
	mosquitofish,		39		35	
	<i>Gambusia</i>					
	<i>affinis</i>					
	Sailfin molly,	37	36-	30	28-	WA
	<i>Molliensia</i>		40		34	
	<i>latipinnis</i>					
	Porthole	32	30-	22	17-	RD
	livebearer,		34		26	
	<i>Poecilopsis</i>					
	<i>gracilis</i>					
Fundulida	Rainwater	24	21-	24	21-	RD
e	killifish,		27		27	
	<i>Lucania</i>					
	<i>parva</i>					
Moronidae	Striped bass,	28	26-	23	20-	WA
	<i>Morone</i>		32		24	
	<i>saxatilis</i>					
	White bass,	37	35-	21	20-	RD
	<i>M. chrysops</i>		38		25	
Percidae	Yellow perch,	39	36-	26	21-	WA
	<i>Perca</i>		39		27	
	<i>flavescens</i>					

	Bigscale	36	36-	27	22-	WA
	logperch,		40		30	
	<i>Percina</i>					
	<i>macrolepida</i>					
Centrarchi	Green	39	37-	34	31-	WA
dae	sunfish,		41		35	
	<i>Lepomis</i>					
	<i>cyanellus</i>					
	Redear	39	36-	30	26-	WA
	sunfish, <i>L.</i>		41		31	
	<i>microlophus</i>					
	Bluegill, <i>L.</i>	39	36-	30	27-	WA
	<i>macrochirus</i>		40		32	
	Pumpkinseed,	39	37-	31	31-	WA
	<i>L. gibbosus</i>		40		34	
	Warmouth, <i>L.</i>	35	31-	29	25-	WA
	<i>gulosus</i>		40		30	
	Black	38	36-	27	25-	WA
	crappie,		39		30	
	<i>Pomoxis</i>					
	<i>nigromaculat</i>					
	<i>us</i>					
	White	36	34-	27	25-	WA
	crappie, <i>P.</i>		39		29	
	<i>annularis</i>					

	Smallmouth	37	36-	29	26-	WA
	bass,		38		30	
	<i>Micropterus</i>					
	<i>dolomieu</i>					
	Largemouth	39	36-	30	28-	WA
	bass, <i>M.</i>		41		33	
	<i>salmoides</i>					
	Spotted bass,	38	36-	28	28-	WA
	<i>M.</i>		38		31	
	<i>punctulatus</i>					
	Redeye bass,	33	32-	26	25-	WA
	<i>M. coosae</i>		36		27	
Cichlidae	California	38	37-	34	29-	WA
	tilapia,		40		35	
	<i>Oreochromis</i>					
	<i>sp.</i>					
	Redbelly	36	32-	27	25-	RD
	tilapia,		36		29	
	<i>Tilapia zilli</i>					
Gobiidae	Yellowfin	40	35-	26	23-	WA
	goby,		40		29	
	<i>Acanthogobi</i>					
	<i>us flavimanus</i>					
	Shimofuri	35	31-	28	21-	WA
	goby,		37		29	

Tridentiger

bifasciatus

^{a,b} The status score and conservation status designations for native species are from Moyle et al. (2011), based on the standards of the International Union for the Conservation of Nature (IUCN). Status scores of 1.0-1.9 indicate the species is endangered (EN), 2.0-2.9 indicate it is vulnerable to becoming endangered (VU), 3.0-3.9 indicate the species is in decline but not in immediate danger of extinction (near-threatened, NT), and 4.0-5.0 indicate the species of least concern (LC). An asterisk (*) indicates species formally listed under state and/or federal endangered species acts. For alien species, WA indicates a species is widespread and abundant in California (equivalent to LC for native species), RD indicates it has a restricted distribution in fresh water, either by habitat or by watershed (Moyle 2002).