

Appendix F: Natural Resource Data for the 2020 MTP/SCS

Natural Resources Data

This appendix contains information about the agricultural, forest, biological, and hydrological resources in the 2020 MTP/SCS plan area. Additional information on these resources can be found in the Draft Environmental Impact Report, which is incorporated herein by reference. This information was gathered and considered in the creation and evaluation of the 2020 MTP/SCS.

Agricultural and Forest Resources

This section provides a basic summary of the extent, distribution, use, quality, and productivity of agriculture and forest lands in the plan area of the proposed MTP/SCS. This information is informed by SACOG's Rural-Urban Connections Strategy (RUCS), literature, maps and data published by the Natural Resources Conservation Service (NRCS), the California Department of Conservation (DOC), and county agricultural commissioners. A full discussion of the environmental settings, data analyzed, and impacts to agricultural and forest lands can be found in the Draft Environmental Impact Report – Chapter 4: Agriculture and Forestry Resources.

The following describes agriculture and forestry resources in each county in the region. The baseline data used are 2016 data, but to the extent more recent information is available, it is provided.

Table 1.1

**Acres of Agricultural and Forest Land in the Plan
Area of the Proposed 2020 MTP/SCS**

County	Agricultural Land	Forest Land	
		Publicly- Owned	Total
El Dorado	238,684	414,354	562,660
Placer	162,620	372,383	455,104
Sacramento	208,525	--	--
Sutter	356,092	--	--
Yolo	328,452	--	--
Yuba	266,899	43,015	67,834
Region	1,561,272	829,752	1,085,597

Sources: El Dorado 2016 Crop Report; Placer County 2017 Crop Report, Sacramento County Crop Report 2017, Sutter County 2017 Crop Report, Yolo County 2017 Crop Report, Yuba County 2017 Crop Report. US Forest Service Administrative Forest Boundaries, 2019. Placer County, El Dorado County, Yuba County Assessor Ownership Data, 2018.

Table 1.2

FMMP Farmlands Summary by County for the Plan Area of the Proposed MTP/SCS of the Proposed MTP/SCS

Farmland Category	El Dorado	Placer	Sacramento	Sutter	Yolo²	Yuba	Region
Prime Farmland	697	8,331	92,838	161,159	255,587	45,125	563,738
Farmland of Statewide Importance	1,015	3,963	46,874	103,197	19,127	10,635	184,810
Unique Farmland	3,368	19,211	15,730	16,935	46,192	31,143	132,579
Farmland of Local Importance	59,153	93,948	54,716	0	49,257	0	257,074
Grazing Land	195,881	29,248	149,328	51,059	165,432	136,231	727,179
All Farmland	260,114	154,701	359,487	332,351	535,595	223,133	1,865,380
Urban and Built-Up Land	32,190	56,143	152,129	11,258	25,574	13,847	291,141
Other Land	234,705	189,195	70,244	29,256	73,057	162,273	758,730
Water	8,906	1,188	5,985	202	5,891	7,340	29,512
Non-Farmland	275,801	246,526	228,358	40,717	104,522	183,461	1,079,384
Total Area Surveyed¹	535,915	401,227	587,845	373,067	640,116	406,594	2,944,764

¹ Approximately 915,000 acres of land within the plan area of the proposed MTP/SCS in eastern Placer and El Dorado counties were not surveyed. The survey area excludes most of the Sierra Nevada, as well as desert and forested parts of California that are less likely to have productive farmland. Some of these locations may be added in the future, while most areas identified as "Local, State, and Federal Owned Land" will not be added. Some small areas of public land are included in the survey area, generally as "Other Land." See California Farmland Conversion Report 2014-2016 (California Department of Conservation, 2016).

²Includes Farmland of Local Potential in Yolo County

Source: California Department of Conservation 2016. California Farmland Conversion Report 2014–2016.

Figure 1.1
Significant Agricultural Lands

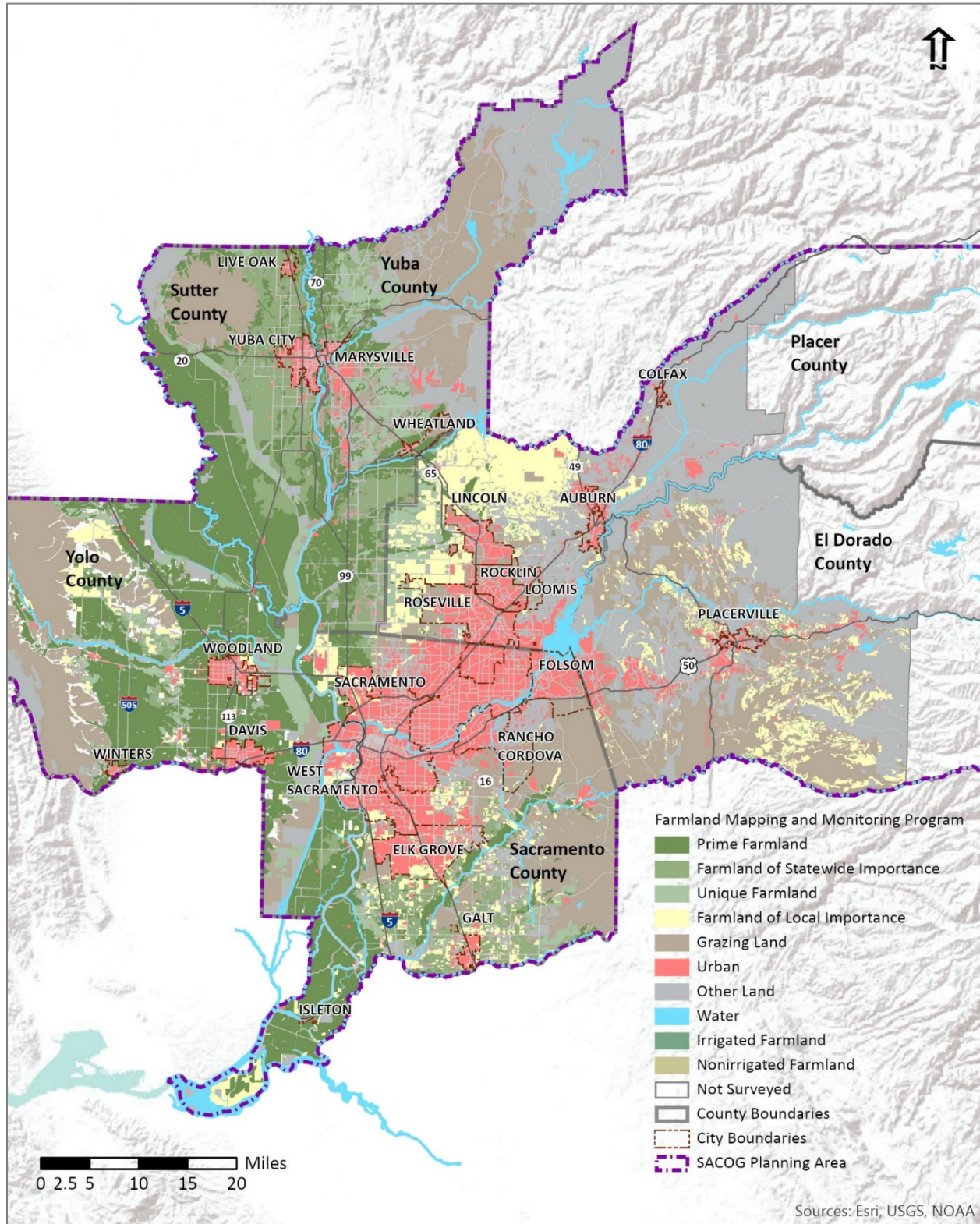


Table 1.3

Williamson Act Lands within the SACOG Region as of 2016

County	Acres of Active Williamson Act Lands			Percent of Total Land Acres in Williamson Act Contracts
	Prime	Nonprime	Total	
El Dorado	7,070	24,734	31,804	5%
Placer	22,443	1,691	24,134	4%
Sacramento	88,809	72,581	161,390	25%
Sutter	48,610	13,617	62,227	9%
Yolo	228,067	148,316	376,383	57%
Yuba ¹	0	0	0	0%
SACOG Region	394,999	260,938	655,938	100%

¹ Yuba County does not participate in the Williamson Act program.

Source: California Department of Conservation, 2016. The California Land Conservation (Williamson) Act Status Report 2016. Yolo data is from 2013.

Biological Resources

This section contains information about the following biological resources:

- Land cover types and associated biological habitat uses
- Invasive plants
- Waters of the United States (including wetlands)
- Special-status species
- Sensitive natural communities

This information is informed by SACOG's Rural-Urban Connections Strategy (RUCS), literature, maps and

data published by the California Department of Fish and Wildlife, U.S. Fish and Wildlife Service, and county conservation plans (draft and adopted). A full discussion of the environmental settings, data analyzed, and impacts to biological resources can be found in the Draft Environmental Impact Report – Chapter 6: Biological Resources.

The following describes the biological resources in the region. The baseline data used are 2016 data, but to the extent more recent information is available, it is provided.

Figure 1.2
General Land Cover

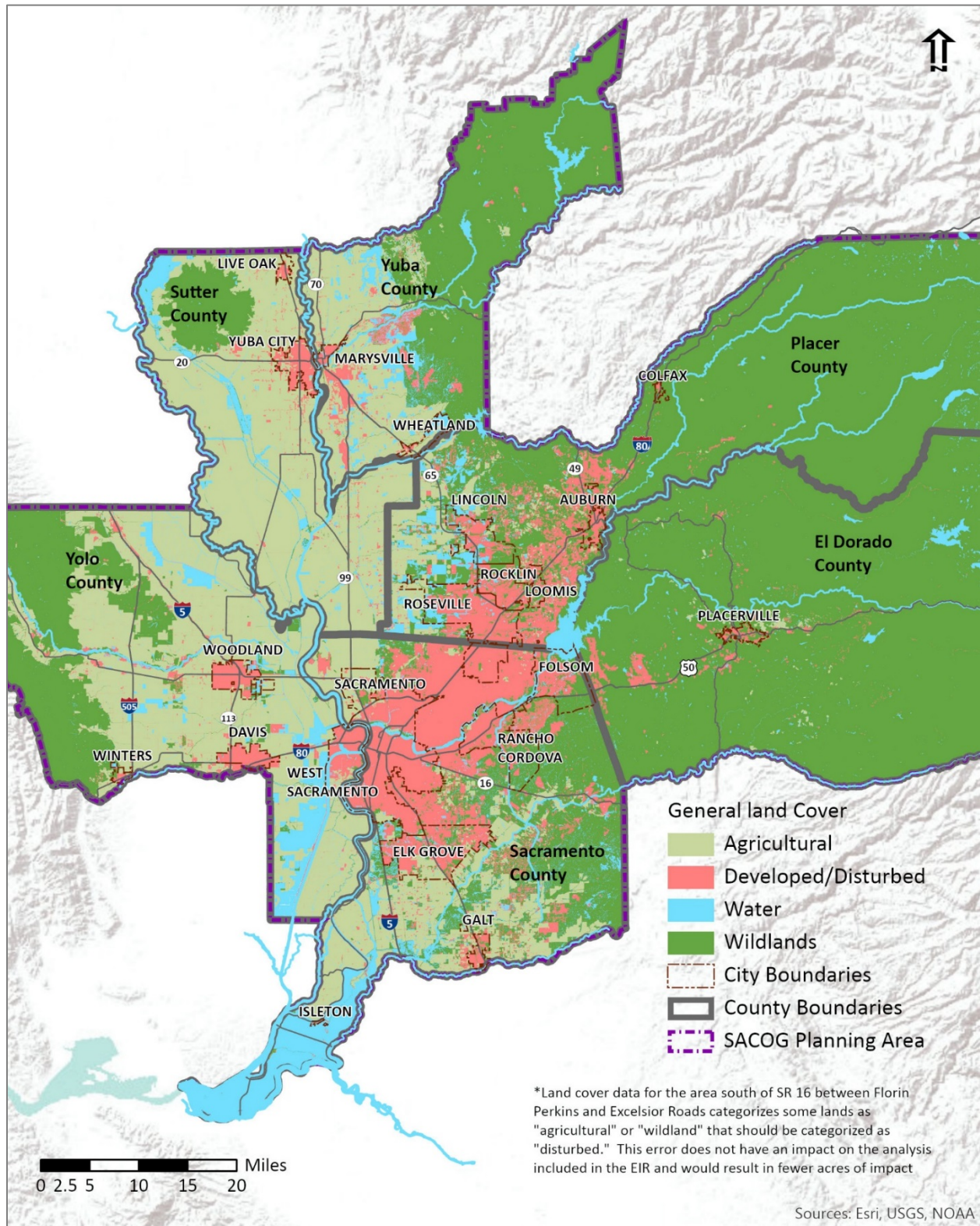


Table 1.4
Land Cover Types and Acreages by County in the Proposed MTP/SCS Plan Area

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
WILDLAND LAND COVER							
Grasslands	85,334	57,152	166,203	34,296	77,136	47,338	467,459
Annual Grassland	73,630	54,862	166,099	34,296	77,136	47,338	453,361
Perennial Grassland	11,705	2,290	104	0	0	0	14,099
Chaparral	70,600	59,664	2	0	45,608	2,429	178,303
Chamise-Redshank Chaparral	3,505	57	0	0	418	0	3,980
Chamise - Alliance	0	0	0	0	30,083	0	30,083
Chaparral	0	604	0	0	86	0	690
Mixed Chaparral	29,729	10,907	2	0	15,021	647	56,306
Montane Chaparral	37,366	48,096	0	0	0	1,782	87,244
Scrub	323	2,108	44	0	266	0	2,741
Alkali Sink	0	0	0	0	266	0	266
Alkali Desert Scrub	0	0	33	0	0	0	33
Alpine-Dwarf Shrub	270	619	0	0	0	0	889
Bitterbrush	0	177	0	0	0	0	177
Coastal Scrub	0	0	11	0	0	0	11
Low Sage	0	1	0	0	0	0	1
Sagebrush	53	1,311	0	0	0	0	1,364
Valley Oak Savanah	0	10,046	5,186	0	0	0	15,232
Valley Oak Woodland	3,628	793	1,185	5,095	182	1,057	11,940
Foothill Woodland	50,217	48,102	11,143	299	79,867	50,725	240,353
Blue Oak-Foothill Pine	5,348	4,290	105	0	43,763	3,196	56,702
Blue Oak Woodland	44,868	9,816	11,007	28	36,070	38,464	140,253
Canyon Live Oak Woodland	0	0	0	0	0	0	0
Coastal Oak Woodland	0	0	29	0	0	0	29

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
Foothill Pine-Oak Woodland	1	12,844	0	0	1	0	12,846
Interior Live Oak Woodland	0	704	0	0	5	0	709
Juniper	0	0	0	0	2	0	2
Mixed Foothill Woodland	0	0	0	0	4	0	4
Mixed Oak Woodland	0	20,447	1	271	22	9,065	29,806
Montane Forest	708,609	484,174	405	0	3,269	131,398	1,327,855
Aspen	13	99	0	0	0	10	122
Black Oak Woodland	0		0	0	1	0	1
Closed-Cone Pine-Cypress	278	1,925	0	0	209	74	2,486
Douglas-Fir	746	167	0	0	0	70	983
Eastside Pine	11	3,662	0	0	0	0	3,673
Jeffrey Pine	10,833	1,823	0	0	0	0	12,656
Lodgepole Pine	1,877	4,131	0	0	0	0	6,008
Montane Hardwood	175,023	83,703	404	0	3,059	38,733	300,922
Montane Hardwood-Conifer	66,115	54,062	1	0	0	16,684	136,862
Ponderosa Pine	77,598	30,973	0	0	0	14,199	122,770
Ponderosa Pine Forest	0	984	0	0	0	0	984
Red Fir	70,285	42,665	0	0	0	0	112,950
Sierran Mixed Conifer	283,202	224,091	0	0	0	61,380	568,673
Subalpine Conifer	1,569	1,171	0	0	0	0	2,740
White Fir	21,056	34,718	0	0	0	248	56,022
Barren	33,832	18,908	1,101	94	2,255	5,153	61,343
Rock Outcrop	2	151	0	0	248	0	401
Rock Outcrop	0	0	0	0	3	0	3
Rock Outcrops/Cliffs	2	151	0	0	0	0	153
Serpentine	0	0	0	0	244	0	244
Riparian	1,463	9,166	11,066	6,290	10,367	5,475	43,827

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
Montane Riparian	1,462	2,932	96	0	0	215	4,705
Valley Foothill Riparian	0	6,234	10,970	6,290	10,367	5,260	39,121
TOTAL WILDLAND	954,007	690,263	196,334	46,074	219,196	243,576	2,349,450
AQUATIC LAND COVER							
Wetlands	11,687	35,157	225,651	34,124	33,969	27,914	368,502
Fresh/Freshwater Emergent Wetland	2,295	4,382	9,465	21,465	16,870	6,352	60,829
Freshwater Forested/Shrub Wetland	2,841	3,950	2,663	2,752	845	818	13,869
Other Freshwater Wetland	35	92	197,596	88	2,461	0	200,272
Freshwater Marsh	4	3	1,511	0	0	0	1,518
Freshwater Pond	1,572	1,142	2,096	374	666	279	6,129
Lacustrine	731	580	265	505	34	2,610	4,725
Other	0	0	0	0	0	0	0
Other Depressional	2,671	2,049	1,918	3,116	11,886	1,592	23,232
Seasonal Wetlands	10	533	1,410	51	18	486	2,508
Submerged Stream	333	181	31	0	0	0	545
Swale	0	0	1,275	0	0	306	1,581
Swamp/Marsh	35	14	265	4,903	132	238	5,587
Vernal Pool	0	391	0	0	598	5,451	6,440
Vernal Pool Complex	0	0	4,039	189	456	9,154	13,838
Vernal Pool Complex: High	0	2,975	11	680	0	0	3,666
Vernal Pool Complex: Medium	0	7,621	0	0	0	0	7,621
Vernal Pool Complex: Low	0	11,184	2	0	0	0	11,186
Wet Meadow	1,160	0	8	0	0	9	1,177
Urban Wetland	0	61	0	0	0	1	62
Estuarine and Marine Deepwater	0	0	292	0	0	0	292

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
Estuarine and Marine Wetland	0	0	58	0	0	0	58
Seasonal Impoundment	0	0	2,005	0	0	0	2,005
Saline Emergent Wetland	0	0	0	0	3	0	3
Slope Wetlands/Seeps	0	0	0	0	1	86	87
Wetland Restoration	0	0	739	0	0	0	739
Wetland	0	0	0	0	0	532	532
Open Water/Lakes and Reservoirs	42,548	18,145	17,911	3,395	18,648	9,826	110,509
Reservoir	0	173	124	99	364	61	821
Stream/creek/River	1,078	1,193	9,990	1,442	1,980	990	16,673
Lake	14,005	4,214	1,250	430	1,118	42	21,059
Lake/Pond	27,269	10,958	2,722	673	752	7,280	49,654
Landscape and Golf Course Ponds	0	110	0	0	0	0	110
Open water	43	306	2,341	208	4,929	0	7,827
Open Water/Fringe	153	567	880	250	4,435	1,110	7,395
Springs and Seeps	0	2	0	0	0	0	2
Stock Ponds	0	621	0	0	0	0	621
Aqueducts	0	0	264	0	0	0	264
Canal	0	0	0	0	0	0	0
Canal/Ditch	0	0	251	228	377	0	856
Water	0	0	90	65	4,694	0	4,894
deep water	0	0	0	0	0	103	103
ditch	0	0	0	0	0	240	240
Riverine	1,336	1,618	8,225	5,300	2,838	3,248	22,565
TOTAL AQUATIC	55,572	54,919	251,787	42,818	55,455	40,988	501,539
AGRICULTURE LAND COVER							

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
Orchards and Vineyards	333	2,938	34,361	67,179	47,812	34,644	187,267
Orchards	0	2,844	2,845	66,075	0	34,636	106,400
Deciduous Orchard	106	0	5,988	1,105	32,721	8	39,928
Evergreen Orchard	34	0	6	0	0	0	40
Citrus/Subtropical	0	0	0	0	849	0	849
Vineyards	193	95	25,521	0	14,242	0	40,051
Pasture	3	17,438	48,158	1,861	66,287	241	133,988
Rice	0	20,525	8,635	130,824	33,279	37,803	231,066
Row and Field Crops	4,046	2,390	61,176	95,569	190,937	37,411	391,529
Agriculture	0	0	59	35	0	0	94
Field Crop	0	1,662	45,115	88,342	43,581	36,087	214,787
Row Crop	0	728	388	54	38	0	1,208
Cropland	4,046	0	39	0	0	1,318	5,403
Grain/Hay Crops	0	0	0	0	72,282	0	72,282
Truck/Nursery/Berry Crops	0	0	0	0	45,401	0	45,401
Irrigated Row and Field Crops	0	0	15,575	7,139	85	7	22,806
Semiagricultural/Incidental to Agriculture	0	0	0	0	29,552	0	29,552
TOTAL AGRICULTURE	4,382	43,291	152,330	295,434	338,316	110,099	943,852
DEVELOPED/DISTURBED LAND COVER							
Developed	15,706	78,520	187,125	18,318	44,249	22,160	366,078
Developed	0	40,291	61,436	18,057	8	18,059	137,851
Rural Residential	0	38,229	0	5	0	0	38,234
Urban	15,706	0	125,689	255	44,241	4,101	189,992
Disturbed	0	4,514	12,618	4	3	2	17,141
Landscaped	0	3,474	2,671	0	0	0	6,145

Land Cover Type	El Dorado	Placer	Sacramento	Sutter	Yolo	Yuba	TOTAL
Non-native Vegetation	34	0	63	2	370	0	469
Arundo	0	0	0	0	0	0	0
Black Locust	0	0	1	0	0	0	1
Blackberry	0	0	8	2	0	0	10
Eucalyptus	34	0	51	0	370	0	455
Pepperweed	0	0	2	0	0	0	2
Tamarisk	0	0	0	0	0	0	0
TOTAL DEVELOPED/DISTURBED	15,740	86,508	202,477	18,324	44,622	22,163	389,834
TOTAL LAND COVER	1,029,700	874,981	802,927	402,651	657,589	416,826	4,184,674

Source: Yuba-Sutter Regional Conservation Plan 2015; County of Sacramento et al. 2010; County of Placer 2014; Yolo HCP/NCCP 2015; USDA 2014; USDA 2016; USACE and SACOG 2011; Mayer and Laudenslayer 1988; compiled by SACOG and Ascent Environmental 2019

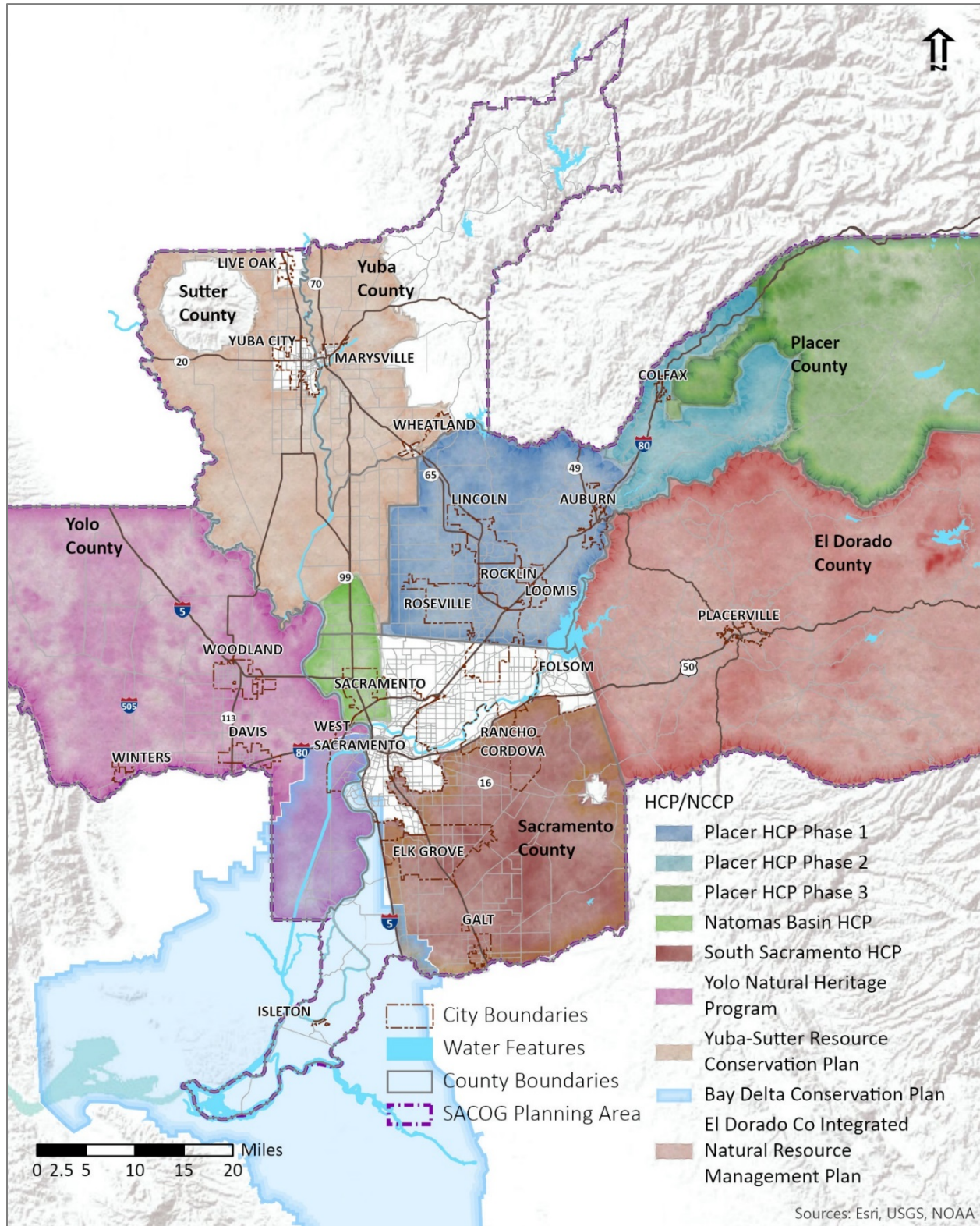
Table 1.5
Acreages of Critical Habitat for Federally Listed Species in the Plan Area of the Proposed MTP/SCS

Species	Federal Status	Total
Amphibians		
California red-legged frog (<i>Rana draytonii</i>)	Threatened	13,032
California tiger salamander (<i>Ambystoma californiense</i>)	Threatened	12,873
Sierra Nevada Yellow-Legged Frog (<i>Rana sierrae</i>)	Endangered	117,516
Birds		
Yellow-Billed Cuckoo (<i>Coccyzus americanus</i>)	Threatened	1,089
Fish		
Delta smelt (<i>Hypomesus transpacificus</i>)	Threatened	211,269
Invertebrates		
Valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)	Threatened	515

Vernal pool fairy shrimp (<i>Branchinecta lynchi</i>)	Threatened	40,927
Vernal pool tadpole shrimp (<i>Lepidurus packardii</i>)	Endangered	38,787
Plants		
Fleshy owl's-clover (<i>Castilleja campestris</i> ssp. <i>succulent</i>)	Threatened	82
Contra Costa wallflower (<i>Erysimum capitatum</i> var. <i>angustatum</i>)	Endangered	19
Colusa grass (<i>Neostapfia colusana</i>)	Threatened	440
Antioch Dunes evening primrose (<i>Oenothera deltoides</i> ssp. <i>howellii</i>)	Endangered	19
Sacramento Orcutt grass (<i>Orcuttia viscida</i>)	Endangered	30,751
Slender Orcutt grass (<i>Orcuttia tenuis</i>)	Threatened	1,161
Solana grass (<i>Tuctoria mucronata</i>)	Endangered	440
TOTAL		468,921

Source: USFWS Critical Habitat Portal, 2019, Accessed March 2019

Figure 1.3
Plan Area HCP-NCP Boundaries



Hydrological Resources

This section contains information about the following biological resources:

- Watersheds
- Flooding
- Groundwater
- Water quality

This information is informed by SACOG's Rural-Urban Connections Strategy (RUCS), literature, maps and data from a number of state and federal agencies including, U.S. Geological Survey, California Department of Water Resources, California Environmental Protection Agency, and State Water Resources Control Board. A full discussion of the environmental settings, data analyzed, and impacts to hydrological resources can be found in the Draft Environmental Impact Report – Chapter 11: Hydrology and Water Quality.

The following describes the hydrological resources in the region. The baseline data used are 2016 data, but to the extent more recent information is available, it is provided.

Figure 1.4
Major Watersheds in the Sacramento River Hydrologic Region
and San Joaquin River Hydrologic Region

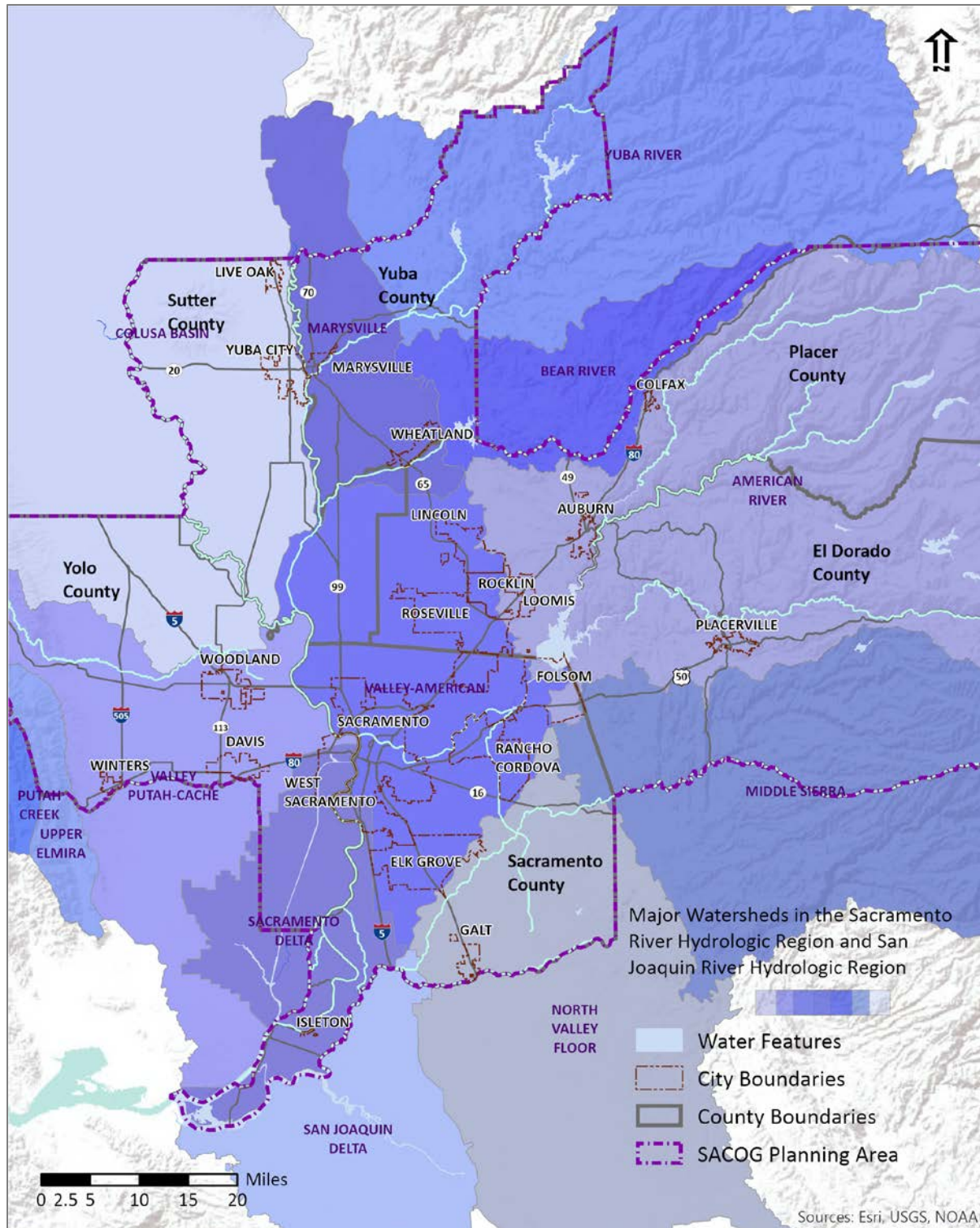


Table 1.6
Major Rivers and Creeks in the Plan Area of the Proposed MTP/SCS

Watershed and Watercourse	Annual Average Flows (cfs)¹	Outlet
American River Watershed		
North Fork American River	205,005	Main Branch American River
Middle Fork American River	67,436	Main Branch American River
Rubicon River	24,506	Middle Fork American River
South Fork American River	44,339	Main Branch American River
Silver Fork of the South Fork American River	17,023	South Fork American River
Main Branch American River	206,006	Sacramento River
Bear River Watershed		
Bear River	87,132	Feather River
Cache Creek Watershed		
Cache Creek	55,256	Sacramento River/Yolo Bypass
Cosumnes River Watershed		
Cosumnes River	9,180	Mokelumne River
Laguna Creek	377	Sacramento River
Feather River Watershed		
Feather River	20,230	Sacramento River
Honcut Creek	457	Feather River
Yuba River	362,006	Feather River
Bear River	87,132	Feather River
Putah Creek Watershed		
Putah Creek	7,356	Sacramento River/Yolo Bypass
Sacramento River Watershed		
Sacramento River	752,006	Sacramento-San Joaquin Delta
Feather River	20,230	Sacramento River
Dry Creek	269,486	Sacramento River

Arcade Creek	856	Sacramento River
American River	206,006	Sacramento River
Morrison Creek	862	Sacramento River
Truckee River Watershed		
Truckee River	6,001	Pyramid Lake
Yuba River Watershed		
Yuba River	362,006	Feather River
Dry Creek (Yuba County)	269,486	Yuba River

Note: Data is for 2016 streamflows except where denoted with an asterisk () symbol. For those noted exceptions, flow figures are for the most recent available data year.*

Source: US Geological Service 2019

Figure 1.5
100-Year and 200-Year Flood Plains

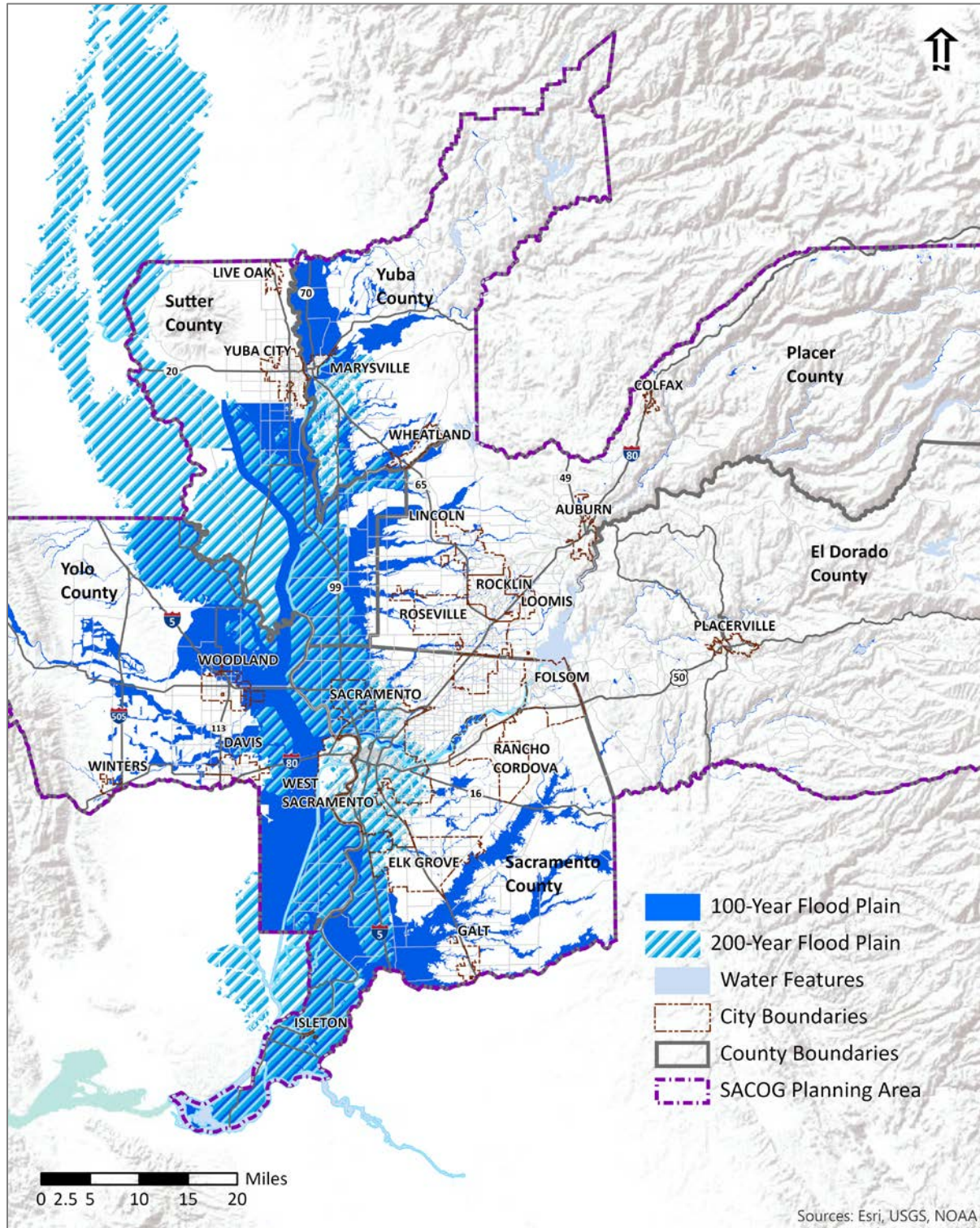


Table 1.7
Groundwater Basin Physical Properties

Groundwater Basin	Size (square miles)	Average Flow Rate (gallons per minute)	Hydrologic Region	Overall Basin Priority
North Yuba	95	1,439-1,629	Sacramento	Medium
South Yuba	170	1,439-1,629	Sacramento	High
Butte	415	1,439-2,540	Sacramento	Medium
Sutter	447	1,630-2,540	Sacramento	Medium
North American	535	1,439-1,629	Sacramento	High
South American	388	1,630-2,540	Sacramento	High
Solano	554	1,249-1,438	Sacramento	High
Yolo	845	1,439-1,629	Sacramento	High
Colusa	1,131	1,439-1,629	Sacramento	High
Capay Valley	39	unknown	Sacramento	Low
Cosumnes	329	1,058-1,248	San Joaquin	Medium
Martis Valley	57	150	North Lahontan	Very Low
Olympic Valley	1	unknown	North Lahontan	Very Low

Source: DWR Water Data Library, Bulletin 118, 2004(a-e), 2006(a-e); CASGEM 2014

Table 1.8
CWA Section 303(d)-Listed Impairments in the Plan Area

Surface Water	Water Quality Impairments	Suspected Sources
American River, Lower (Nimbus Dam to confluence with Sacramento River)	Mercury	Source Unknown
American River, North Fork	Mercury	Source Unknown
American River, South Fork (below Slab Creek Reservoir to Folsom Lake)	Mercury	Source Unknown

Surface Water	Water Quality Impairments	Suspected Sources
Arcade Creek	Diazinon	Urban Runoff/Storm Sewers
Bear River, Lower (below Camp Far West Reservoir)	Copper	Source Unknown
Bear River, Upper (from Combie Lake to Camp Far West Reservoir, Nevada and Placer Counties)	Mercury	Source Unknown
Butte Creek (Butte County)	pH	Source Unknown
Butte Slough	Dichlorvos	Source Unknown
Cache Creek, Lower (Clear Lake Dam to Cache Creek Settling Basin near Yolo Bypass)	Toxicity	Source Unknown
Camp Far West Reservoir	Mercury	Source Unknown
Chicken Ranch Slough	Chlorpyrifos	Urban Runoff/Storm Sewers
Colusa Basin Drain	Diazinon	Agriculture
Combie, Lake	Mercury	Source Unknown
Coon Creek (from confluence of Orr and Dry Creeks to East Side Canal, Placer and Sutter Counties)	Indicator Bacteria	Source Unknown
Coon Creek, Lower (from Pacific Avenue to Main Canal, Sutter County)	Toxicity	Source Unknown
Coon Hollow Creek (El Dorado County)	DDE (Dichlorodiphenyldichloroethylene)	Source Unknown
Cosumnes River, Lower (below Michigan Bar; partly in Delta Waterways, eastern portion)	Indicator Bacteria	Source Unknown
Curry Creek (Placer and Sutter Counties)	Toxicity	Source Unknown
Davis Creek (downstream from Davis Creek Reservoir, Yolo County)	Mercury	Source Unknown
Davis Creek (upstream from Davis Creek Reservoir, Yolo County)	Mercury	Source Unknown
Davis Creek Reservoir	Mercury	Source Unknown

Surface Water	Water Quality Impairments	Suspected Sources
Delta Waterways (central portion)	DDT (Dichlorodiphenyltrichloroethane)	Source Unknown
Delta Waterways (eastern portion)	DDT (Dichlorodiphenyltrichloroethane)	Source Unknown
Delta Waterways (northern portion)	Invasive Species	Source Unknown
Delta Waterways (northwestern portion)	Diazinon	Source Unknown
Delta Waterways (western portion)	DDT (Dichlorodiphenyltrichloroethane)	Source Unknown
Dry Creek (Placer and Sacramento Counties)	Indicator Bacteria	Source Unknown
Duck Slough (in Delta Waterways, northern portion)	Chlorpyrifos	Agriculture
Elder Creek	Chlorpyrifos	Urban Runoff/Storm Sewers
Elk Grove Creek	Diazinon	Urban Runoff/Storm Sewers
Englebright Lake	Mercury	Source Unknown
Feather River, Lower (Lake Oroville Dam to Confluence with Sacramento River)	PCBs (Polychlorinated biphenyls)	Source Unknown
Folsom Lake	Mercury	Source Unknown
Gilsizer Slough (from Yuba City to downstream of Township Road, Sutter County)	pH	Source Unknown
Gordon Slough (from headwaters and Goodnow Slough to Adams Canal, Yolo County)	Oxygen, Dissolved	Source Unknown
Hell Hole Reservoir	Mercury	Source Unknown
Honcut Creek (Butte and Yuba Counties)	Oxygen, Dissolved	Source Unknown
Jack Slough	Diazinon	Agriculture

Surface Water	Water Quality Impairments	Suspected Sources
Kaseberg Creek (tributary to Pleasant Grove Creek, Placer County)	Toxicity	Source Unknown
Kaseberg Creek, unnamed eastern tributary (from Green Grove Ln to Del Webb Blvd)	Bifenthrin	Source Unknown
Kaseberg Creek, unnamed southeastern tributary (from Silverado Middle School to Timber Creek Golf Course, Placer County)	Bifenthrin	Source Unknown
Kaseberg Creek, unnamed southern tributary (from Baseline Road to Timber Creek Golf Course, Placer County)	Bifenthrin	Source Unknown
Knights Landing Ridge Cut (Yolo County)	Oxygen, Dissolved	Source Unknown
Laguna Creek (tributary to Cosumnes River, Sacramento County)	Toxicity	Source Unknown
Live Oak Slough	Oxygen, Dissolved	Source Unknown
Loon Lake	Mercury	Source Unknown
Main Drainage Canal	Oxygen, Dissolved	Source Unknown
Meadows Slough (Sacramento County)	Mercury	Source Unknown
Merle Collins Lake	Mercury	Source Unknown
Miners Ravine (Placer County)	Oxygen, Dissolved	Source Unknown
Mokelumne River, Lower (in Delta Waterways, eastern portion)	Zinc	Source Unknown
Morrison Creek	Diazinon	Urban Runoff/Storm Sewers
Morrison Slough	Diazinon	Agriculture
Natoma, Lake	Mercury	Source Unknown
Natomas Cross Canal (Sutter County)	Mercury	Source Unknown
Natomas East Main Drainage Canal (aka Steelhead Creek, downstream of confluence with Arcade Creek)	PCBs (Polychlorinated biphenyls)	Source Unknown

Surface Water	Water Quality Impairments	Suspected Sources
Natomas East Main Drainage Canal (aka Steelhead Creek, upstream of confluence with Arcade Creek)	PCBs (Polychlorinated biphenyls)	Source Unknown
New Bullards Bar Reservoir	Mercury	Source Unknown
North Canyon Creek (El Dorado County)	Indicator Bacteria	Source Unknown
Oregon Creek (Yuba and Sierra Counties)	Copper	Source Unknown
Oxbow Reservoir (Ralston Afterbay, El Dorado and Placer Counties)	Mercury	Source Unknown
Pleasant Grove Creek	Pyrethroids	Source Unknown
Pleasant Grove Creek, South Branch	Pyrethroids	Source Unknown
Pleasant Grove Creek, South Branch, unnamed southeastern trib (from east of Sierra View Country Club to confl with Pleasant Grove Cr, South Branch)	Bifenthrin	Source Unknown
Pleasant Grove Creek, unnamed northern tributary (from Greywood Circle to confluence with Pleasant Grove Creek)	Bifenthrin	Source Unknown
Pleasant Grove Creek, unnamed northern tributary (from Mt Tamalpais Dr to confluence with Pleasant Grove Creek)	Bifenthrin	Source Unknown
Putah Creek (Solano Lake to Putah Creek Sinks; partly in Delta Waterways, northwestern portion)	Mercury	Resource Extraction
Rock Creek (Placer County)	Indicator Bacteria	Source Unknown
Rollins Reservoir	Mercury	Source Unknown
Sacramento River (Red Bluff to Knights Landing)	Mercury	Source Unknown
Sacramento River (Knights Landing to the Delta)	Mercury	Source Unknown
Sacramento San Joaquin Delta	Chlordane	Source Unknown
Sacramento Slough	Mercury	Source Unknown
Simmerly Slough (Yuba County)	Toxicity	Source Unknown
Slab Creek Reservoir (El Dorado County)	Mercury	Source Unknown

Surface Water	Water Quality Impairments	Suspected Sources
Snake River (Butte and Sutter Counties)	Chlorpyrifos	Agriculture
Solano, Lake	Mercury	Source Unknown
Squaw Creek	Sedimentation/Siltation	Construction/Land Development
Strong Ranch Slough	Chlorpyrifos	Urban Runoff/Storm Sewers
Sutter Bypass	Mercury	Source Unknown
Sycamore Slough (Yolo County)	Oxygen, Dissolved	Source Unknown
Truckee River	Sedimentation/Siltation	Channel Erosion
Tule Canal (Yolo County)	Boron	Source Unknown
Wadsworth Canal	Diazinon	Agriculture
Willow Slough (Yolo County)	Toxicity	Source Unknown
Willow Slough Bypass (Yolo County)	Indicator Bacteria	Source Unknown
Winters Canal (Yolo County)	Diazinon	Agriculture
Wolf Creek (Nevada County)	Indicator Bacteria	Source Unknown
Yankee Slough (Placer and Sutter Counties)	Chlorpyrifos	Agriculture
Yuba River (confluence of North and Middle Yuba Rivers to Englebright Lake)	Mercury	Source Unknown
Yuba River (Englebright Lake Dam to Feather River, Lower)	Mercury	Source Unknown
Yuba River, North Fork	Mercury	Source Unknown
Yuba River, South Fork (Headwaters to Spaulding, Lake)	pH	Source Unknown

Source: California Environmental Protection Agency, State Water Resources Control Board, Data updated April 2, 2019

2014 AND 2016 CLEAN WATER ACT SECTION 303(d) AND 305(b) INTEGRATED REPORT — STATEWIDE

https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2014_2016.shtml

Table 1.9
Groundwater Basin Quality

Sub-basin	Overall Quality	Number of Wells Tested for Contaminants	Constituents with MCL Exceedances (Contaminated Wells)
North Yuba	Good – Excellent	27	Radiological (1), nitrates (1), VOCs (2)
South Yuba	Good	38	Primary organics (2), VOCs (1)
East Butte	Not Characterized	30	Primary organics (1), nitrates (2)
Sutter	Good – Excellent		None
North American	Acceptable	265	Primary inorganics (7), Radiological (2), VOCs and SVOCs (6)
South American	Good - Excellent	144	Primary inorganics (2), Radiological (1), nitrates (1), VOCs and SVOCs (8)
Solano	Good	71	Primary inorganics (1), nitrates (8), pesticides (3), VOCs and SVOCs (1)
Yolo	Good	61	Primary inorganics (3), nitrates (1), VOCs (1)
Colusa	Good	Localized areas have high manganese, fluoride, magnesium, sodium, iron, chloride, total dissolved solids, ammonia, and phosphorous.	
Capay Valley	Good	Several	None
Cosumnes	Good	26	Pesticides (1)
Martis Valley	Good - Excellent		None
Olympic Valley	Good - Excellent		None

MCL = Maximum Contaminant Level allowed in drinking water

VOC = Volatile Organic Chemical

SVOC = Semi-volatile Organic Chemical

Source: DWR, 2006a; DWR, 2006b; DWR, 2006c; DWR, 2006d; DWR, 2006e; DWR, 2004a; DWR, 2004b; DWR, 2004c; DWR, 2004d; DWR, 2004e

