

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION**

ORDER R5-2014-XXXX
MONITORING AND REPORTING PROGRAM
APPENDIX MRP-3
REPRESENTATIVE MONITORING SITES AND SUBWATERSHED DRAINAGES

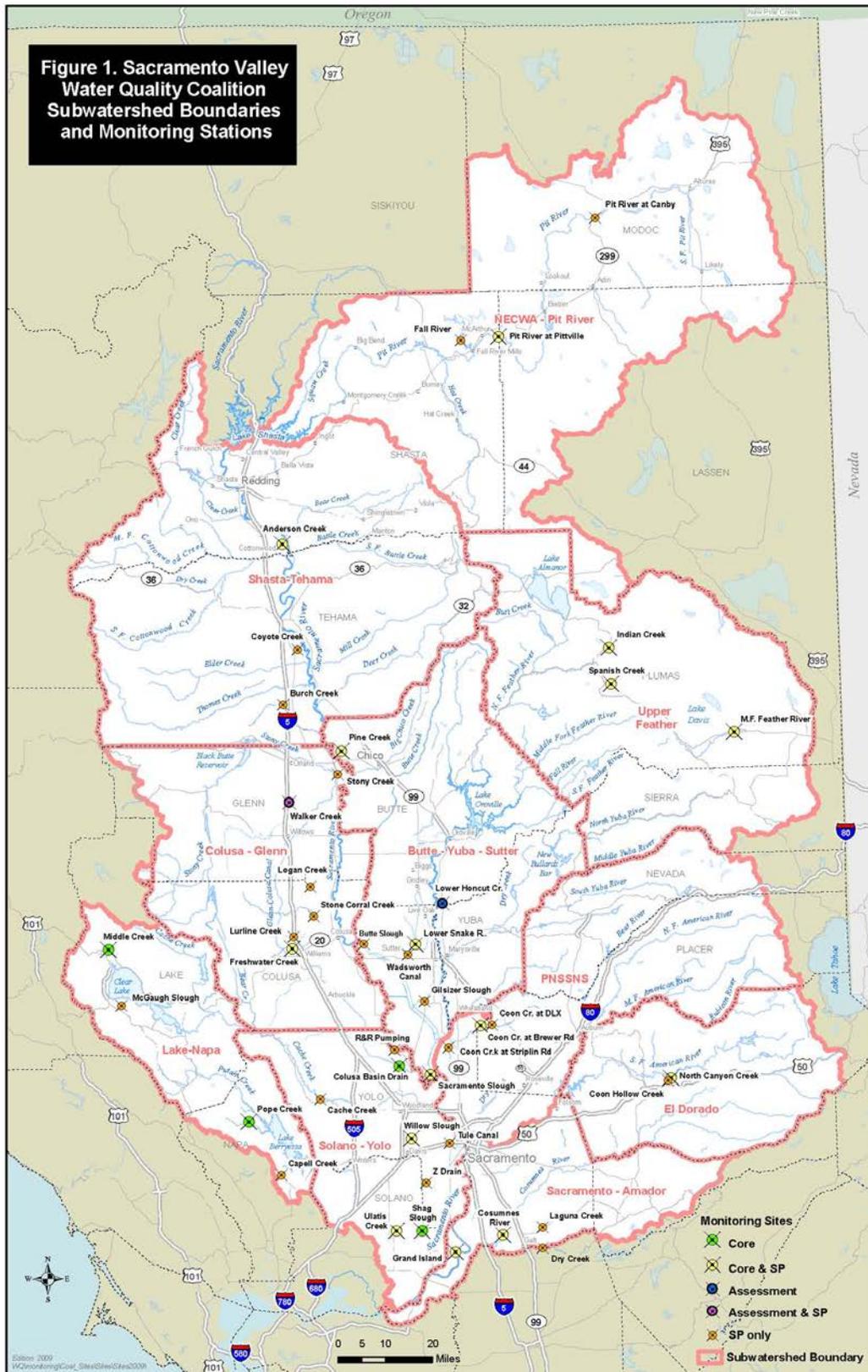
This appendix is provided as part of Monitoring and Reporting Program Order R5-2014-XXX that includes requirements for a third-party representative entity assisting individual irrigated lands operators or owners that are members of the third-party. This appendix uses information from the Sacramento Valley Water Quality Coalition's (SVWQC) Monitoring and Reporting Program Order R5-2009-0875 (2009 MRP), Attachment C. The purpose of this appendix is to provide documentation of the representative monitoring sites in each subwatershed for the third-party monitoring program and to provide background information that can be applied to selecting drainages that may qualify for the reduced monitoring/management practice verification option (see Attachment B, MRP Section III.C.1.a.).

Under the 2009 MRP, monitoring sites were selected by the Sacramento Valley Water Quality Coalition in each subwatershed area of the Sacramento River Watershed. Under MRP Order R5-2014-XXXX, the monitoring sites are categorized as Representative, Integration and/or Special Project sites according to the approach described in the MRP section III.A. Representative sites are shown in the tables in this appendix with the drainages that they represent and all of the relevant drainages are shown in the subwatershed maps included here and provided by the SVWQC.

The Sacramento Valley Water Quality Coalition is organized into ten (10) subwatershed areas (Figure 1). Each subwatershed area is organized and managed by a group of local representatives who are actively engaged in agriculture and/or resource management in their region.

Each of the SVWQC's Subwatershed Groups is listed below, along with the name of the managing entity(s) (in parentheses):

- Butte-Yuba-Sutter Subwatershed (Sutter County RCD and Farm Bureau)
- Colusa-Glenn Subwatershed (Colusa Glenn Subwatershed Program)
- El Dorado Subwatershed (El Dorado County Agricultural Water Quality Management Corporation)
- Lake-Napa Subwatershed (Lake County Agricultural Watershed Program and Napa County Putah Creek Watershed Group)
- Pit River Subwatershed (Northeastern California Water Association)
- Placer-Nevada-South Sutter-North Sacramento Subwatershed (PNSSNS Subwatershed Group)
- Sacramento-Amador Subwatershed (Sacramento Amador Water Quality Alliance)
- Shasta-Tehama Subwatershed (Shasta Tehama Water Education Coalition)
- Solano-Yolo Subwatershed (Solano Resource Conservation District Water Quality Coalition and Yolo County Farm Bureau Education Corporation)
- Upper Feather River Subwatershed (Upper Feather River Watershed Group)



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Butte-Yuba-Sutter Subwatershed

The Butte-Yuba-Sutter Subwatershed encompasses approximately 1,874,510 acres in the central portion of the Sacramento Valley, and includes all of Butte and Yuba Counties and roughly three-quarters of Sutter County. Approximately 251,000 acres are in the upper portions of the watershed and have no irrigated acreage. The subwatershed area is bounded on the east by the Sierra Nevada Range, on the west by the Sacramento River, on the north by the Tehama County line, and on the south by the Feather and Bear Rivers (Figure 1). Topography varies from a relatively flat valley floor, to rolling foothills and volcanic buttes, to steep forested mountains and deep river canyons. Elevation ranges from approximately 20 to 7,000 feet above sea level. Irrigated agriculture occurs in a large portion of the Butte-Yuba-Sutter Subwatershed, with approximately 570,000 acres currently being farmed, a significant portion (about 260,000 acres) of which is planted in rice. Some dryland grains are also grown, typically in rotation with other field crops. Other land use types include non-irrigated grazing rangeland, urban and rural residential development, and coniferous forests, oak woodlands, grasslands, and wetlands.

The Butte-Yuba-Sutter Subwatershed encompasses 32 different drainages where irrigated agriculture is present. Table 1 lists the drainages by name and the crops grown within each drainage area. Figure 2 shows the extent of the drainages.

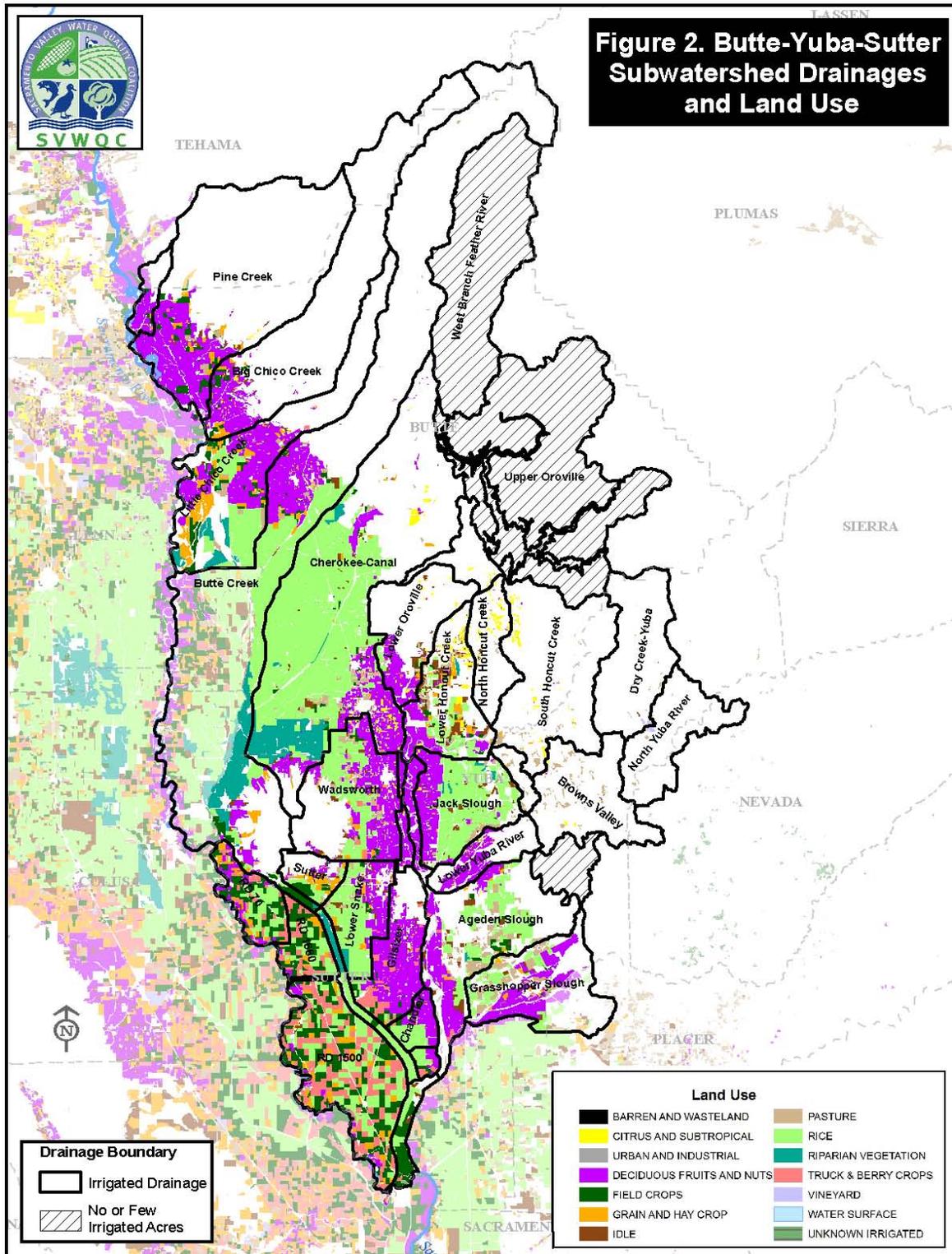
Table 1. Butte-Yuba-Sutter Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|-------------------------|--|
| Representative monitoring site to be determined | RD 1500 (Robbins Basin) | Rice, beans, alfalfa, hay, corn, wheat, tomatoes, pumpkins, melons, onions, walnuts, milo, safflower, sunflower, sudan |
| | Grasshopper Slough | Walnuts, rice, pasture, almonds, prunes, safflower, peaches, nectarines, melons and squash |
| | Ageden Slough | Rice, prunes, pasture, walnuts, peaches, alfalfa, sunflowers, safflower, apples |
| | RD 70 | Rice, safflower, walnuts, tomatoes, grain, beans, melons/squash, sunflowers, alfalfa |
| | RD 1660 | Rice, safflower, tomatoes, grain, melons/squash, beans, walnuts, sunflowers |
| | Chandler | Rice, prunes, walnuts, peaches, alfalfa, wheat, melons |
| | RD 823 | Rice, wheat, walnuts, alfalfa, prunes, safflower, peaches and nectarines |
| | Sutter Bypass | Rice, beans, safflower |
| Monitoring site in Pine Creek | Pine Creek | Almonds, walnuts, prunes, pasture, grain, beans, safflower |

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| Type of Monitoring | Drainages | Crops |
|---|-------------------------------|---|
| Represented by Pine Creek monitoring site | Little Chico Creek | Almonds, rice, grain, wheat, corn, walnuts, prunes, beans |
| | Big Chico Creek | Almonds, walnuts, wheat, pasture, prunes, beans |
| | Dicus Slough | Walnuts, almonds, prunes, olives |
| Monitoring site in Lower Snake River | Lower Snake River | Rice, prunes, peaches, nursery, walnuts, pasture, almonds, nectarines |
| Represented by Lower Snake River monitoring site | Cherokee Canal | Rice, prunes, almonds, walnuts, peaches |
| | Butte Creek | Rice, almonds, walnuts, pecans, beans, sunflower, safflower |
| | Wadsworth | Rice, prunes, peaches, walnuts, pasture, beans, melons |
| | Lower Oroville | Walnuts, prunes, rice, peaches, |
| | Gilsizer | Prunes, peaches, walnuts, rice, tomatoes, melons/squash, sunflower, safflower |
| | Sutter | Grain, rice, almonds, safflower, walnuts, beans |
| Monitoring Site on Lower Honcut Creek | Lower Honcut Creek | Rice, walnuts, prunes, pasture, citrus, olives, grapes, pasture |
| Represented by Lower Honcut Creek monitoring site | Jack Slough | Rice, prunes, peaches, pasture |
| | Lower Yuba River | Peaches, walnuts, olives, prunes, pasture, cherries |
| | Feather River Direct – Sutter | Walnuts, prunes, peaches |
| | Feather River Direct – Yuba | Peaches, prunes, walnuts, cherries, pears |
| | South Honcut Creek | Pasture |
| | North Honcut Creek | Pasture |
| | Browns Valley | Pasture |
| | Dry Creek – Yuba | Pasture |
| | North Yuba River | Pasture |
| | Upper Jack Slough | Pasture, rice |
| | Oroville Dam | Pasture, grain |

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Colusa-Glenn Subwatershed

The Colusa-Glenn Subwatershed encompasses approximately 1.6 million acres in the west central portion of the Sacramento Valley, and includes all of Colusa and Glenn Counties and the northern portion of Yolo County. The subwatershed area is bounded on the east by the Sacramento River and Butte Creek, on the West by the Coast Ranges, on the north by the Tehama County line, and on the south by Cache Creek from the Dunnigan Hills, through the town of Yolo, to the Sacramento River at the Fremont Weir just south of Knight's Landing (Figure 1). Topography varies from a relatively flat or gently sloping valley floor, to rolling Coast Range foothills, to steep mountainous terrain. Elevation ranges from approximately 35 to 7,000 feet above sea level. Irrigated agriculture occurs in about 40% of the Colusa-Glenn Subwatershed, with approximately 600,000 acres currently being farmed, approximately 230,000 of which is rice. Over 520,000 acres in the subwatershed are in the Coast Range and have no significant irrigated acres. Some dryland grains are also grown, typically in rotation with other field crops. Other land use types include non-irrigated grazing rangeland, urban/rural residential development, and oak woodlands, grasslands, and wetlands.

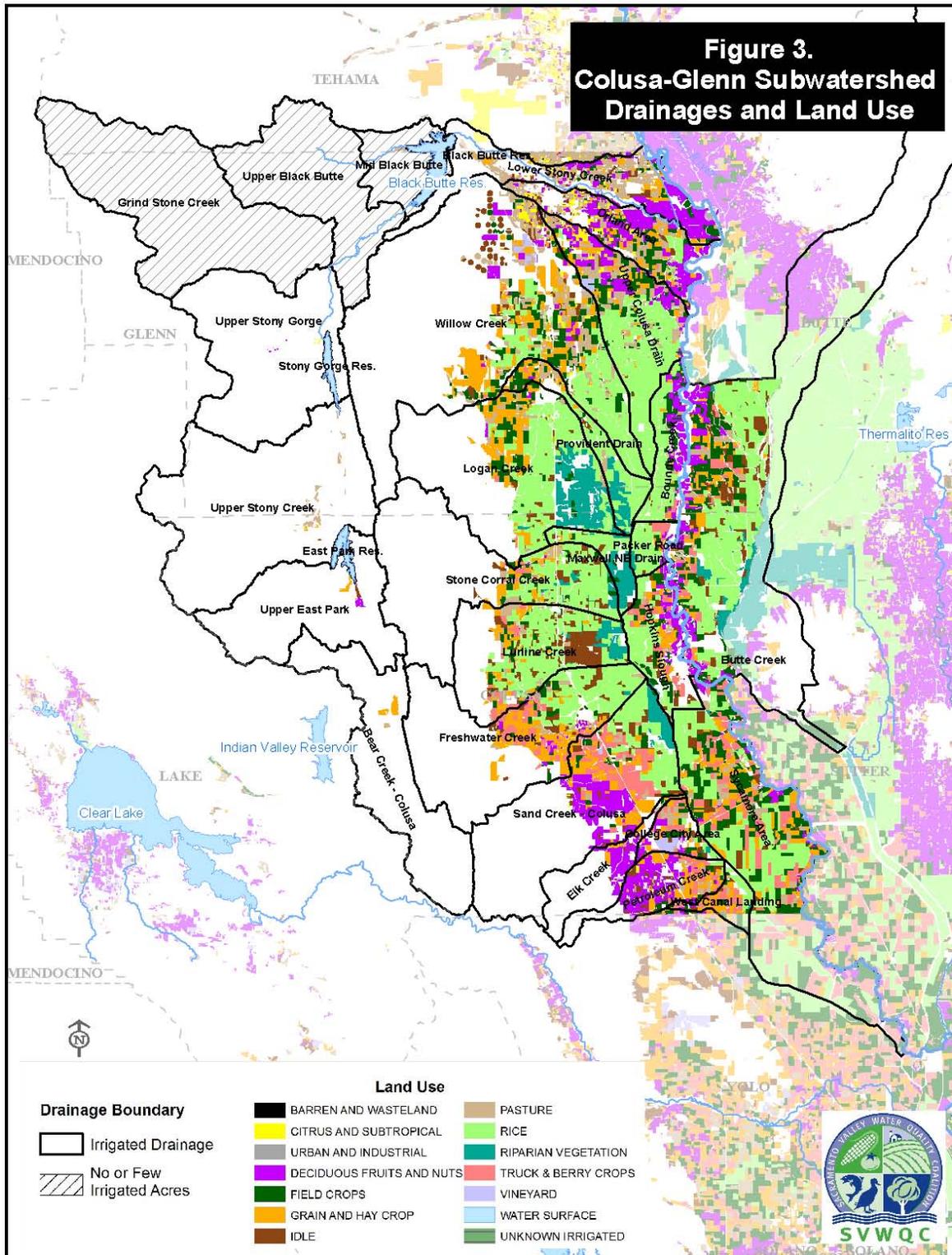
The Colusa-Glenn Subwatershed encompasses 31 different drainages where irrigated agriculture is present. Table 3 lists the drainages by name and the crops grown within each drainage area. Figure 3 shows the extent of the drainages.

Table 3. Colusa-Glenn Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|--------------------|--|
| Representative monitoring site to be determined | Sycamore area | Rice, tomatoes, wheat, safflower, melons/squash |
| | Buckeye Creek | Almonds, tomatoes, pasture, grain |
| | Bird Creek | Grain, rice, melons/squash, corn |
| | Smith Creek | Tomatoes, grain, pasture, corn, rice, melons, squash |
| | Breton Creek | Grain, pasture, rice, tomatoes, safflower |
| | Oat Creek | Grain, rice, safflower, pasture, melons/squash |
| | College City Area | Almonds, tomatoes, wheat, pasture |
| | Meridian Edge | Grain, melons/squash, cotton, tomatoes |
| | West Canal Landing | Rice, wheat, tomatoes, melons/squash, safflower |
| Monitoring site in Walker Creek | Walker Creek | Rice, grain, pasture, corn, almonds, olives, range |
| Represented monitoring site in Walker Creek | Lower Stony Creek | Pasture, prunes, almonds, grain, walnuts |
| | Orland Area | Almonds, pasture, grain, walnuts, corn, prunes |
| | Upper Colusa Drain | Rice, grain, almonds, corn, |

| Type of Monitoring | Drainages | Crops |
|--|---------------------|--|
| | | pasture, walnuts |
| | Logan Creek | Rice, grain, corn, pasture, cotton, sunflower, walnuts |
| | Bounde Creek | Rice, walnuts, almonds |
| | Provident Drain | Rice, grain, pasture, corn |
| | Packer Road | Rice, tomatoes, wheat, prunes |
| | Upper Stony Gorge | Range, pasture |
| | Upper Stony Creek | Range, pasture |
| Monitoring site in Freshwater Creek | Freshwater Creek | Rice, tomatoes, squash, grain, pasture, safflower |
| Represented monitoring site Freshwater Creek | Lurline Creek | Rice, pasture, grain, melons/squash |
| | Maxwell NE Drain | Rice, safflower |
| | Sand Creek | Rice, tomatoes, almonds, squash/melons |
| | Petroleum Creek | Almonds, wheat, tomatoes, melons/squash, pasture |
| | Elk Creek | Almonds, wheat, pasture |
| | East Park Reservoir | Grain |
| | Upper East Park | Grain, walnuts |
| | Stone Corral Creek | Rice, wheat, safflower, pasture |
| | Bear Creek | Grain, pasture |
| | Hopkins Slough | Rice, wheat, prunes, safflower |

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El Dorado Subwatershed

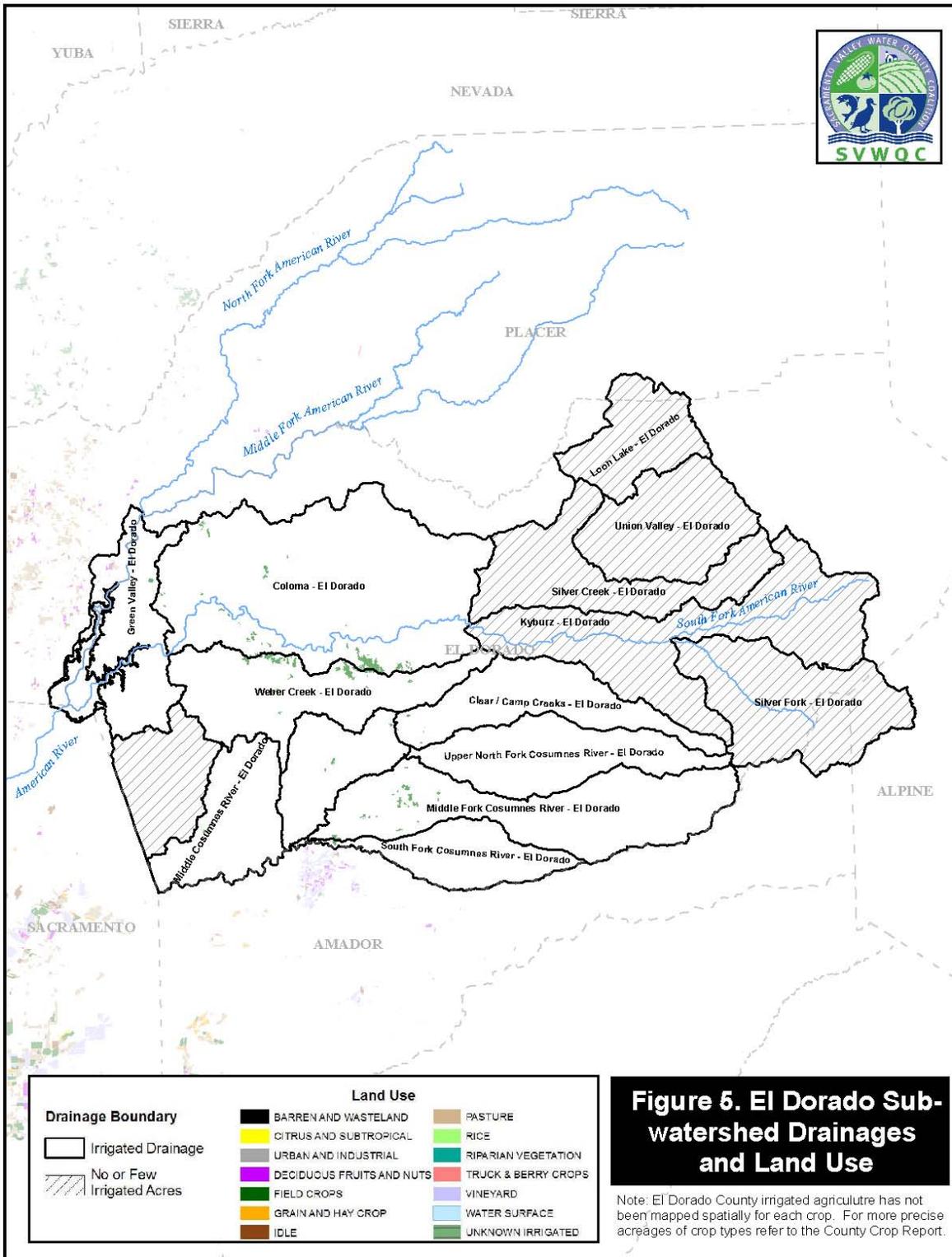
The El Dorado Subwatershed encompasses approximately 1.1 million acres in the two primary river watersheds—South Fork American River and Cosumnes River—of El Dorado County, extending from the crest of the Sierra Nevada mountains west to Folsom Lake and from the Cosumnes River north to the Rubicon River (Figure 1). The topography is characterized by mountainous terrain with elevations ranging from approximately 400 to 10,000 feet above sea level. More than 55% (636,000 acres, *El Dorado County DRAFT General Plan EIR, Section 5.12 Biological Resources, EDAW, May 2003*) of the subwatershed consists of native vegetation dominated by conifer forest and oak/grass woodlands. Agricultural use occurs on about 5,000 acres, or 0.5% of the watershed area, and is typically situated at elevations ranging from 1,200 to 3,000 feet above sea level.

El Dorado Subwatershed encompasses nine main drainages where irrigated agriculture is present. Table 5 lists the drainages by name and the crops grown within each drainage area. Figure 5 shows the area of the nine drainages.

Table 5. El Dorado Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|---------------------------------|--|
| Monitoring site in North Canyon Creek | Coloma | Winegrapes, apples, pears, peaches, plums, berries, olives, irrigated pasture, Christmas trees |
| Represented by North Canyon Creek monitoring site | Clear & Camp Creeks | Winegrapes |
| | Green Valley | Winegrapes, irrigated pasture |
| | Lower North Fork Cosumnes River | Winegrapes, walnuts, Christmas trees |
| | Middle Cosumnes River | Winegrapes, walnuts, Christmas trees |
| | Middle Fork Cosumnes River | Winegrapes, walnuts, Christmas trees |
| | South Fork Cosumnes River | Winegrapes, walnuts |
| | Upper North Fork Cosumnes River | Winegrapes |
| | Weber Creek | Winegrapes, olives, irrigated pasture, Christmas trees |

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Lake-Napa Subwatershed

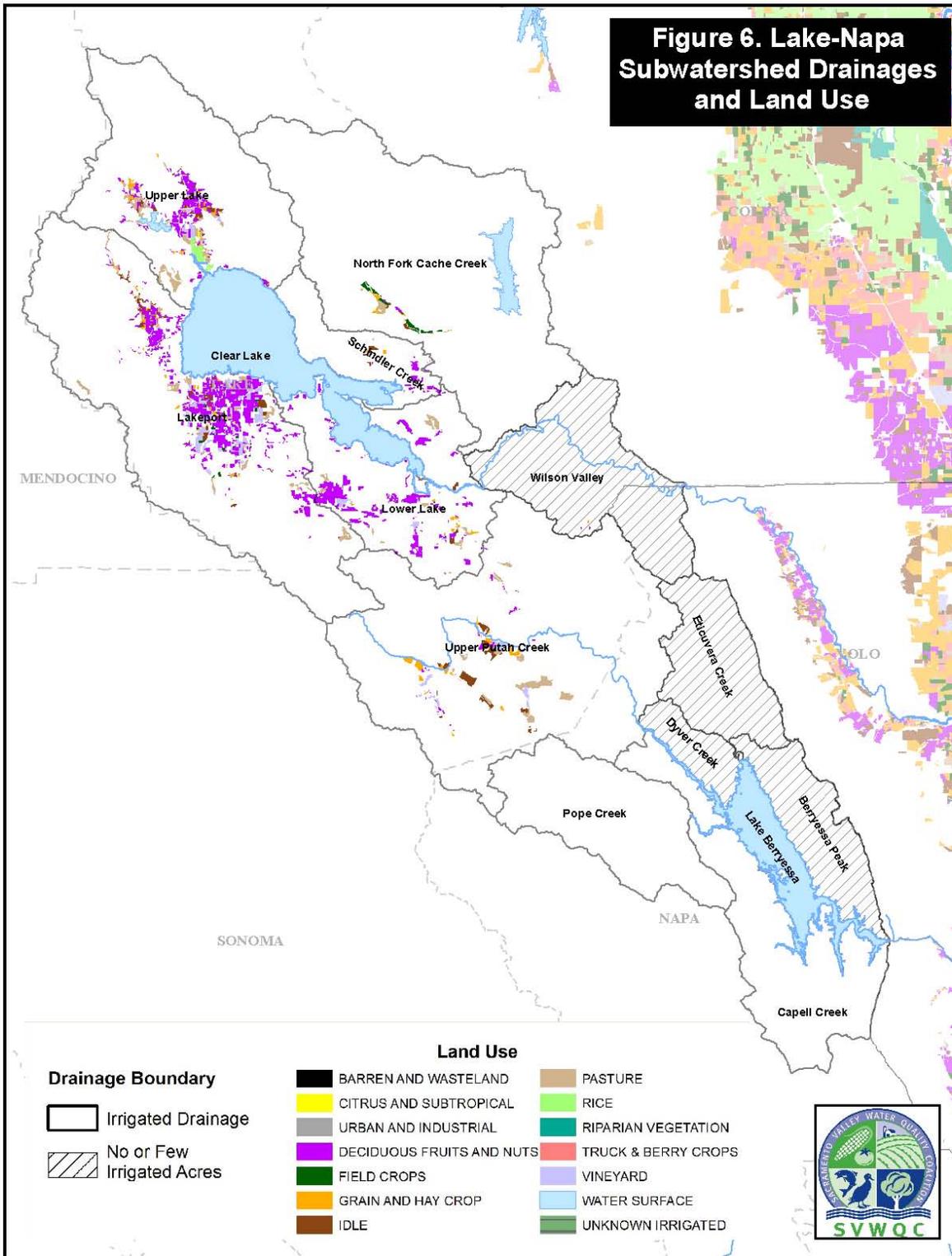
The Lake-Napa Subwatershed encompasses approximately 850,000 acres on the southwest side of the Sacramento Valley, and includes roughly two-thirds of Lake County and one-third of Napa County (Figure 1). This subwatershed area is located in the central Coast Range, extending from the Clear Lake watershed in the north to the Lake Berryessa watershed in the south and bordered by northwest-southeast trending ridgelines. Topography is characterized by rolling hills and low mountains interspersed with valley areas adjacent to lakes and streams. Elevation ranges from approximately 440 to 4,700 feet above sea level. Irrigated agriculture occurs in a small portion of the Lake-Napa Subwatershed, with approximately 20,000 acres (<2.5%) currently being farmed. Some dryland farming also occurs in a small proportion of walnut orchards and wine grape vineyards. Other land uses include non-irrigated rangeland, urban and rural residential development, and native woodlands, chaparral, grasslands, and wetlands.

The Lake-Napa Subwatershed encompasses eight drainages where irrigated agriculture is present. Table 7 lists the drainages by name and the crops grown within each drainage area. Figure 6 shows the extent of the drainages.

Table 7. Lake-Napa Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|---|--------------------------------------|
| Monitoring site in Middle Creek | Upper Lake (Middle Creek) (Lake County) | Walnuts, pears, wine grapes, pasture |
| Represented by Middle Creek monitoring site | Lakeport | Walnuts, pears, wine grapes, pasture |
| | Lower Lake | Walnuts, pears, wine grapes, pasture |
| | Upper Putah Creek | Walnut, wine grapes, pasture |
| | Schindler Creek | Walnuts |
| | North Fork Cache Creek | Walnuts, wine grapes |
| Monitoring site in Pope Creek | Pope Creek (Napa County) | Wine grapes |
| Represented by Pope Creek monitoring site | Capell Creek | Wine grapes |

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Upper Pit River Subwatershed

The Upper Pit River Subwatershed encompasses approximately 2,767,000 acres, extending from the Warner Mountains along the South Fork Pit River, to Shasta Lake in Shasta County (Figure 1). The subwatershed includes portions of Modoc, Lassen and Shasta counties. The topography is characterized by mountainous terrain with elevations ranging from approximately 3,200 to 9,833 feet above sea level. The low gradient of valley floors throughout the watershed is attributed to the deposition of large amounts of volcanic material. Approximately 44% of the acreage is privately owned, with predominant uses in production agriculture (ranching, hay/alfalfa, and wild rice), timber, and livestock grazing, while 56% of the subwatershed is held by federal and state agencies. It is estimated that 152,196 irrigated acres of privately owned land are currently in production.

The Upper Pit River Subwatershed encompasses 23 main drainages where irrigated agriculture is present. Table 9 lists the drainages by name and the crops grown within each area. Figure 7 shows the location and relative extent of the drainages.

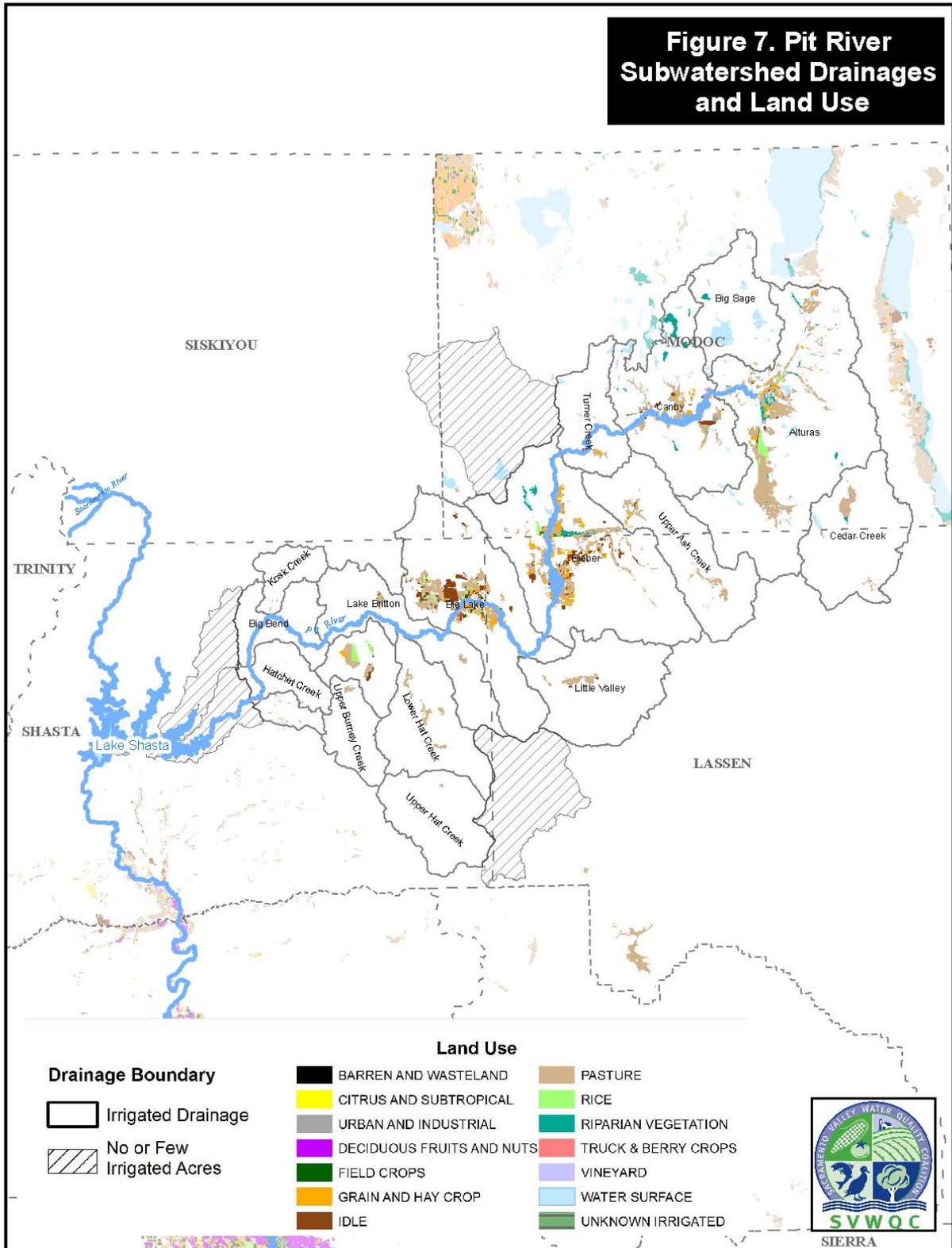
Table 9. Upper Pit River Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|--------------------|---|
| Monitoring site in Pit River at Pittville | Big Lake | Pasture, rice, oats, wheat grain and hay, idle |
| Represented by Pit River at Pittville monitoring site | Bieber | Pasture, grain and hay, barley |
| | Alturas | Pasture, rice, oats, wheat, grain and hay, marsh |
| | Canby | Pasture, grain and hay, barley |
| | Lower Burney Creek | Pasture, rice, grain and hay, nursery, idle |
| | Upper Ash Creek | Pasture, grain and hay, barley, general field crops |
| | Lower Hat Creek | Pasture, nursery |
| | Little Valley | Pasture, idle |
| | Lake Britton | Pasture |
| | Cedar Creek | Pasture, grain and hay, barley |
| | Upper Burney Creek | Pasture |
| | Turner Creek | Pasture, grain and hay, barley, general field crops |
| | Montgomery Creek | Pasture |
| | Big Sage | Pasture, grain and hay, barley |
| | Hatchet Creek | Pasture |
| | Pondosa | Pasture |
| | Upper Hat Creek | Pasture |
| | Kosk Creek | Pasture |
| | Squaw Valley | Pasture |
| | Big Bend | Pasture |
| | Dunsmuir | Pasture |

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| Type of Monitoring | Drainages | Crops |
|--------------------|---------------------|---------|
| | Sweetbriar Creek | Pasture |
| | Lower McCloud River | Pasture |

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Placer-Nevada-South Sutter-North Sacramento Subwatershed

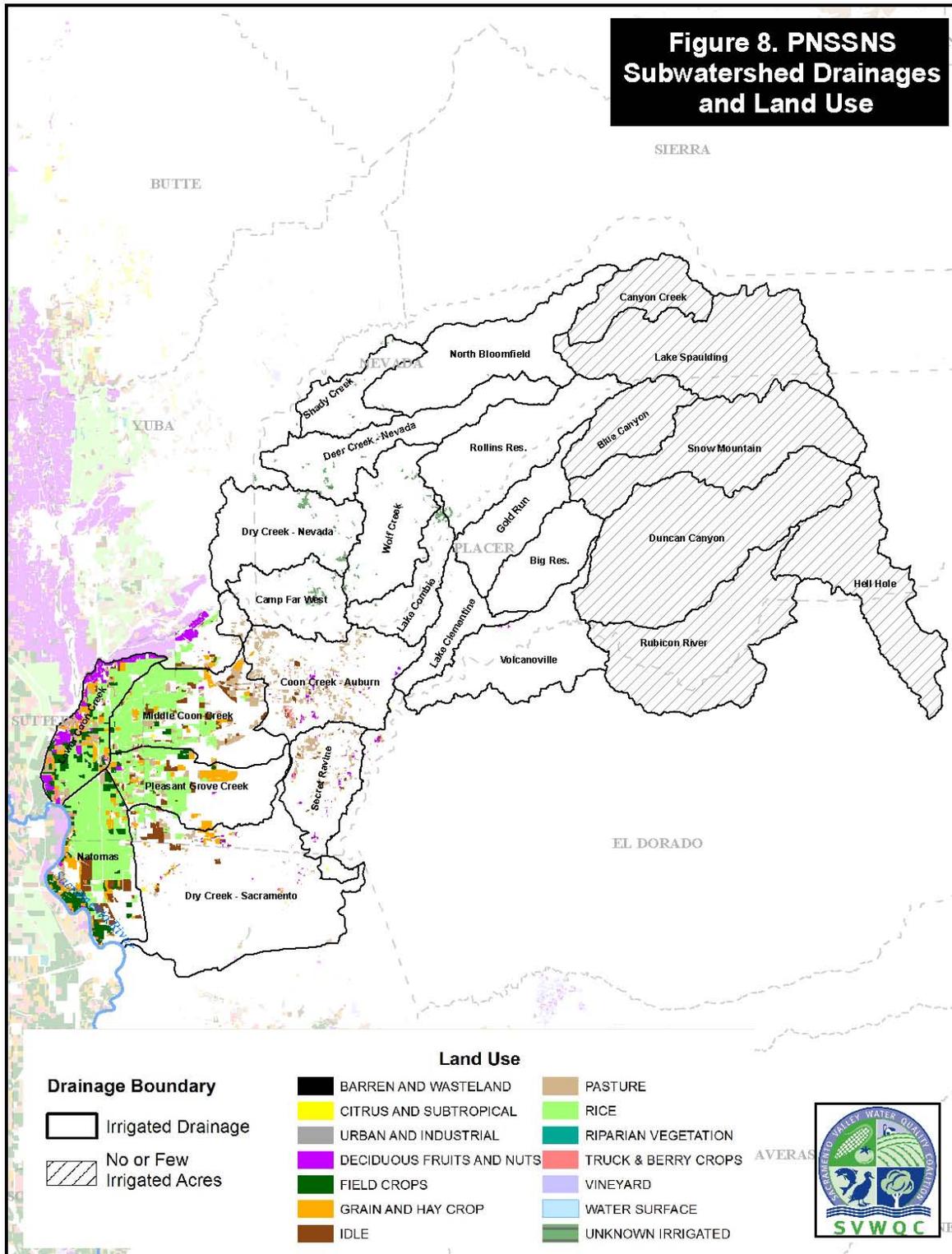
The Placer-Nevada-South Sutter-North Sacramento (PNSSNS) Subwatershed encompasses approximately 1.17 million acres in the southeast portion of the Sacramento Valley, and includes most of Placer and Nevada Counties, and roughly one-fifth and one-quarter of Sutter and Sacramento counties, respectively (Figure 1). About 38% (447,000 acres) of the watershed (Gold Run, Blue Canyon, Hell Hole, Snow Mountain, Rubicon River, and Duncan Canyon drainages) has no irrigated acreage. In general, the subwatershed area is bounded on the east by the Sierra Nevada Range, on the west by the Yolo Causeway and the Sacramento River, on the north by the Yuba and Bear rivers, and on the south by the Rubicon River and the American River. Topography varies from a relatively flat valley floor, to rolling foothills and volcanic buttes, to steep forested mountains and deep river canyons. Elevation ranges from approximately 30 to 7,000 feet above sea level, although irrigated cropland does not generally occur above 3,000 feet. The majority of irrigated agriculture occurs in the southwest area of the PNSSNS Subwatershed, with approximately 162,000 acres currently being farmed, of which about 72,000 acres is in rice. Some dryland grains are also grown, typically in rotation with other field crops. Other land use types include non-irrigated grazing rangeland, urban and rural residential development, and coniferous forests, oak woodlands, grasslands, and wetlands.

The PNSSNS Subwatershed encompasses 16 different drainages where irrigated agriculture is present. Table 11 lists the drainages by name and the crops grown within each drainage area. Figure 8 shows the extent of the drainages.

Table 11. PNSSNS Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|------------------------|--|
| Monitoring site in Coon Creek | Middle Coon Creek | Rice, pasture, grain, sudan, walnuts, corn |
| Represented by Coon Creek monitoring site | Lower Coon Creek | Rice, grain pasture, walnuts, corn |
| | Natomas | Rice, grain, corn |
| | Pleasant Grove Creek | Rice, grain, pasture, corn |
| | Coon Creek – Auburn | Pasture |
| | Dry Creek – Sacramento | Rice, pasture, grain |
| | Secret Ravine | Pasture |
| | Volcanoville | Walnuts |
| | Lake Clementine | Pasture, corn |
| | Camp Far West | Pasture, wine grapes |
| | Wolf Creek | Pasture |
| | Dry Creek – Nevada | Pasture, wine grapes |
| | Lower Bear River | Pasture, grain, rice |
| | Rollins Reservoir | Apples |
| | Shady Creek | Pasture, wine grapes |
| New Bullards Bar | Pasture | |

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Sacramento-Amador Subwatershed

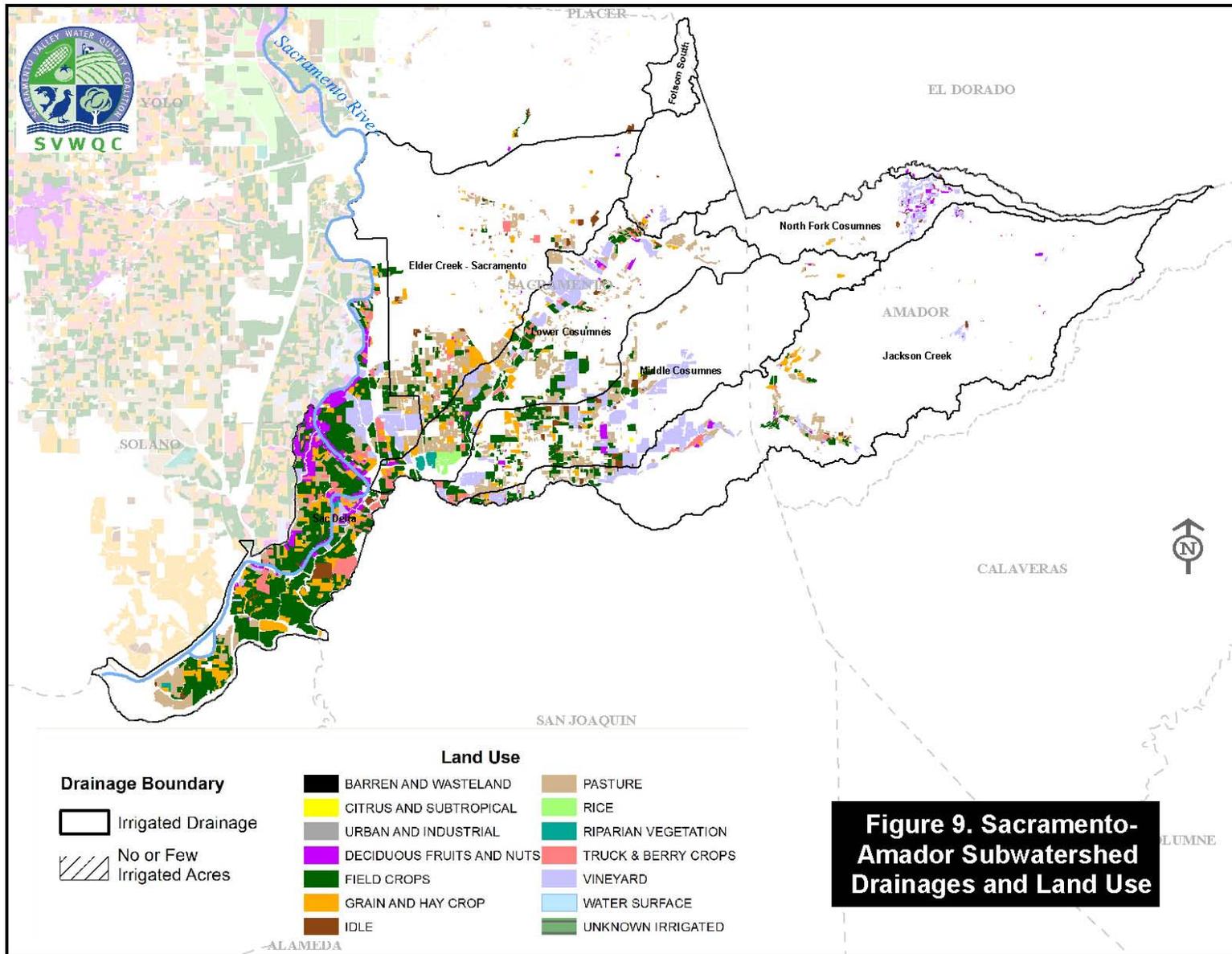
The Sacramento-Amador Subwatershed encompasses approximately 490,000 acres at the south end of the Sacramento Valley and contains roughly three-quarters of Sacramento County and half of Amador County (Figure 1). The subwatershed is generally bounded on the east by the Sierra Nevada foothills, on the west by the Sacramento River, on the north by the lower American River (in part) and the Cosumnes River (in part), and on the south by the Mokelumne River. Moving from west to east, the subwatershed's topography starts out relatively flat in the area of the Sacramento-San Joaquin Delta and alluvial floodplains; it then transitions to low rolling hills and dissected alluvial terraces, tabletop buttes, and escarpments; and ends up in rolling to steep foothills, mesa-like plateaus, and undulating flats and valleys. Elevations range from sea level to approximately 4,500 feet above sea level. Irrigated agriculture occurs in just over 15% of the Sacramento-Amador Subwatershed, with approximately 76,000 acres currently being farmed (Figure 9). Other land use types include non-irrigated rangeland, urban/rural residential development, and oak woodlands, grasslands, chaparral, and wetlands.

The Sacramento-Amador Subwatershed encompasses eight different drainages where irrigated agriculture is present. Table 13 lists the drainages by name and the crops grown within each drainage area. Figure 9 shows the extent of the drainages.

Table 13. Sacramento-Amador Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|-------------------------------|---|
| Monitoring site in Cosumnes River | Lower Cosumnes River | Pasture, wine grapes, corn, grain, sudan, orchards (pears, cherries, apples, almonds, walnuts, peaches, nectarines, citrus, olives), strawberries |
| Represented by Cosumnes River monitoring site | Middle Cosumnes River | Wine grapes, pasture, corn, grain, sudan |
| | Elder Creek – Sacramento | Pasture, grain, hay |
| | Jackson Creek | Wine grapes, pasture, corn, grain |
| | North Fork Cosumnes River | Wine grapes, walnuts, pasture, grain |
| | Upper Deer Creek – Sacramento | Wine grapes, pasture |
| | Omo Ranch | Wine grapes, walnuts |
| Monitoring site in Grand Island | Grand Island (Delta) | Corn, grain, hay, wine grapes, pears, pasture |

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Shasta-Tehama Subwatershed

The Shasta-Tehama Subwatershed is located in the north central part of California and encompasses approximately 2.7 million acres within Shasta and Tehama counties (Figure 1). These counties are contiguous from north to south and represent a hydrologic unit that is framed by Shasta Dam to the north and the political boundaries associated with Glenn and Butte counties to the south. The subwatershed area is bounded by the convergence of the Klamath and Coastal Mountain Ranges to the west and northwest and the Cascade Mountain Range to the east. The topography varies from the flat valley floor through rolling foothills up to rugged, steep mountains, with elevations ranging from approximately 300 to over 8,000 feet above sea level.

The irrigated acreage of the Shasta-Tehama Subwatershed is dominated by orchards, a diversity of field crops, and irrigated pasture for livestock. These crops comprise approximately 142,000 acres or a little more than 5% of the total acres in the subwatershed, located primarily in the floodplains of the Sacramento River and its tributaries.

The Shasta-Tehama Subwatershed encompasses 35 drainages where irrigated agriculture is present. Table 15 lists the drainages by name and the crops grown within each drainage area. Figure 10 shows the location and relative extent of the drainages.

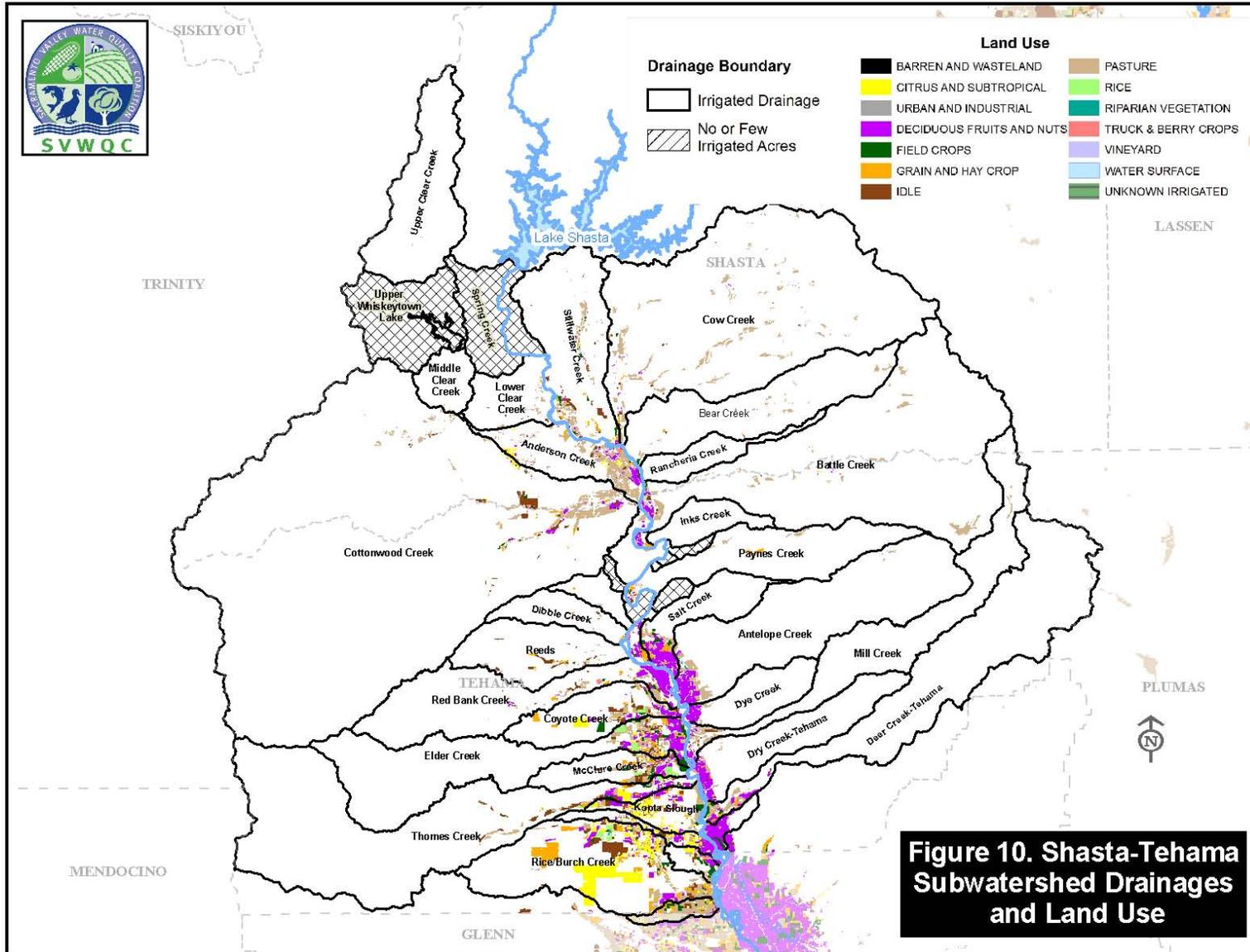
Table 15. Shasta-Tehama Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|--|---|
| Monitoring Site | Anderson Creek | Pasture, Walnuts, Prunes, Olives, Almonds, Eucalyptus |
| Represented by Anderson Creek monitoring site | Rice/Burch Creek | Pasture, Walnuts, Prunes, Almond, Olives, Rice |
| | Elder Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Kopta Slough | Pasture, Walnuts, Prunes, Almond, Olives |
| | Cottonwood Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Salt Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Thomes Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Coyote Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Red Bank Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Antelope Creek | Pasture, Walnuts, Prunes, Olives, Eucalyptus |
| | Jewett Creek | Pasture, Walnuts, Prunes, Almond, Olives |
| | Vina-Hoag N/Dicus Slough | Pasture, Walnuts, Prunes, Almond, Olives, Grains, Safflower |
| | Capay (SE Birch Creek) | Pasture, Prunes, Almond, Olives, Eucalyptus |
| | McClure Creek | Pasture, Walnuts, Prunes, Olives, Eucalyptus |
| | Dry Creek – Tehama | Pasture, Walnuts, Prunes, Olives, Grains |
| | Cow Creek | Pasture, Walnuts, Grains |
| | Battle Creek | Pasture, Walnuts, Prunes, Eucalyptus, Grains |
| Deer Creek – | Pasture, Walnuts, Prunes, Almond, Eucalyptus | |

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| Type of Monitoring | Drainages | Crops |
|--------------------|----------------------------------|---|
| | Tehama | |
| | Stillwater Creek | Pasture, Walnuts, Almonds, Olives, Eucalyptus |
| | Foster Island (NE Birch Ck) | Pasture, Walnuts, Prunes, Olives, Eucalyptus |
| | Dye Creek | Pasture, Walnuts, Prunes |
| | Mill Creek | Pasture, Walnuts, Prunes, Eucalyptus, General Field Crops |
| | Paynes Creek | Pasture, Walnuts, Prunes, Eucalyptus, Grain |
| | Paynes Slough | Pasture, Walnuts, Prunes, Almond, Grain, Wheat |
| | Reeds | Pasture, Olives, Grain, Kiwis, Plums |
| | Jelly School | Pasture, Walnuts, Prunes, Almonds, Eucalyptus |
| | Bear Creek | Pasture, Grain |
| | Lower Clear Creek | Pasture, Grain |
| | Dibble Creek | Pasture, Olives, Wheat |
| | Rancheria Creek | Pasture, Safflower, Strawberries |
| | Blue Tent Creek | Pasture, Grain |
| | Middle Clear Creek | Pasture |
| | Inks Creek | Pasture, Wheat |
| | Upper Clear Creek | Pasture |
| | North and adjacent Paynes Slough | Walnuts |

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Solano-Yolo Subwatershed

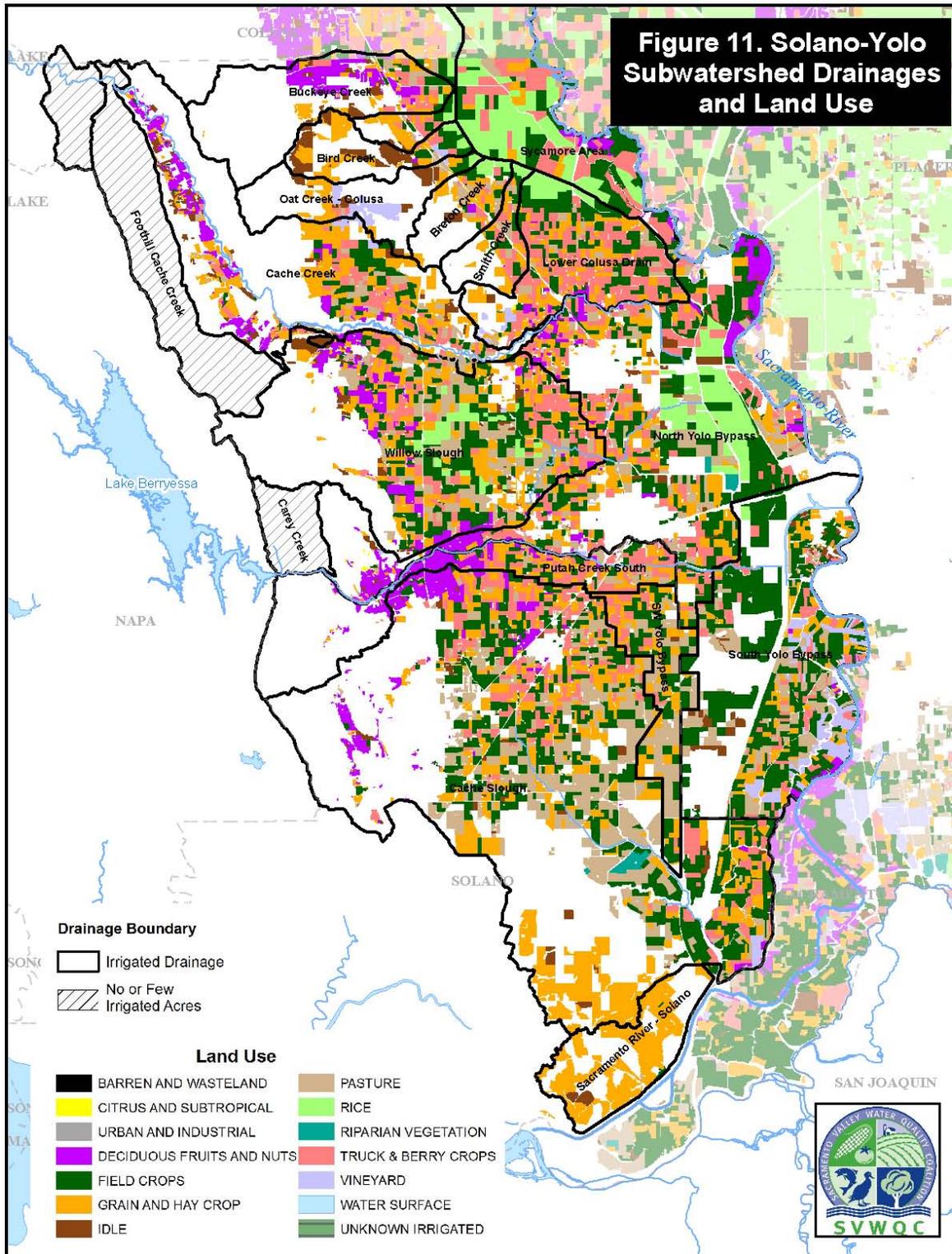
The Solano-Yolo Subwatershed encompasses approximately 872,000 acres on the lower portion and west side of the Sacramento Valley, and includes all of Yolo County south of Cache Creek and roughly half of Solano County. This subwatershed area is bounded on the east by the Sacramento River, on the west by the California Coast Ranges, on the north by the Yolo County line, and on the south and southwest by sloughs and wetlands of the Grizzly Island area near the Delta (Figure 1). Topography varies from a nearly level or gently sloping landscape in the eastern region, to rolling hills in the southeast and steep mountainous terrain in the west. Elevation ranges from approximately 10 to 2,800 feet above sea level. The southern portion of Solano County contains a large area of tidal flats and marshland adjacent to Suisun Bay that has been cut into islands by a maze of natural drainage channels. Intensive irrigated agriculture occurs in a large portion of the Solano-Yolo Subwatershed, with approximately 518,000 acres currently being farmed, with about 14,000 acres in rice. Some dryland grains are also grown, typically in rotation with other field crops. Other land uses include non-irrigated rangeland, urban and rural residential development, and native woodlands, grasslands, and wetlands.

The Solano-Yolo Subwatershed encompasses eight main drainages where irrigated agriculture is present. Table 17 lists the drainages by name and the crops grown within each drainage area. Figure 11 shows the extent of the drainages.

Table 17. Solano-Yolo Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|---|-------------------------|--|
| Representative monitoring site to be determined | South Yolo Bypass | Corn, alfalfa, rice, safflower, sunflower, tomatoes, pasture, grain |
| | Southwest Yolo Bypass | Almonds, walnuts, corn, alfalfa, safflower, sunflower, wheat, tomatoes, pasture, grain |
| | Putah Creek South | Almonds, walnuts, tree fruits, wine grapes, corn, alfalfa, safflower, sunflower, wheat, melons, tomatoes, pasture, grain |
| Monitoring site in Ulatis Creek | Cache Slough | Almonds, walnuts, tree fruits, wine grapes, corn, alfalfa, safflower, sunflower, wheat, melons, tomatoes, pasture, grain |
| Represented by Ulatis Creek monitoring site | Sacramento River-Solano | Grain, safflower, pasture |
| Monitoring site in Willow Slough | Willow Slough | Grain, alfalfa, pasture, corn, tomatoes, rice, walnuts, almonds, wheat, sunflower, prunes, |
| Represented by Willow Slough monitoring site | Cache Creek | Almonds, walnuts, prunes, corn, alfalfa, rice, safflower, sunflower, wheat, melons, tomatoes, pasture, grain |
| | North Yolo Bypass | Grain, tomatoes, corn, rice, pasture, safflower |

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Upper Feather River Subwatershed

The Upper Feather River Subwatershed encompasses an area of approximately 3,222 square miles that drains west from the northern Sierra Nevada through Lake Oroville and the Feather River to the Sacramento River (Figure 1). The topography is characterized by mountainous terrain with elevations that range from 2,250 to over 10,000 feet above sea level, and annual precipitation that varies broadly from 70 inches on the western slopes to less than 12 inches on the arid east side. The Plumas National Forest manages approximately 50% of the watershed, while alluvial valleys are predominantly privately owned with the dominant land use being livestock grazing. Agriculture accounts for 3.5% of land use in Plumas County and 6.7% of land use in Sierra County within the Upper Feather River Subwatershed region.

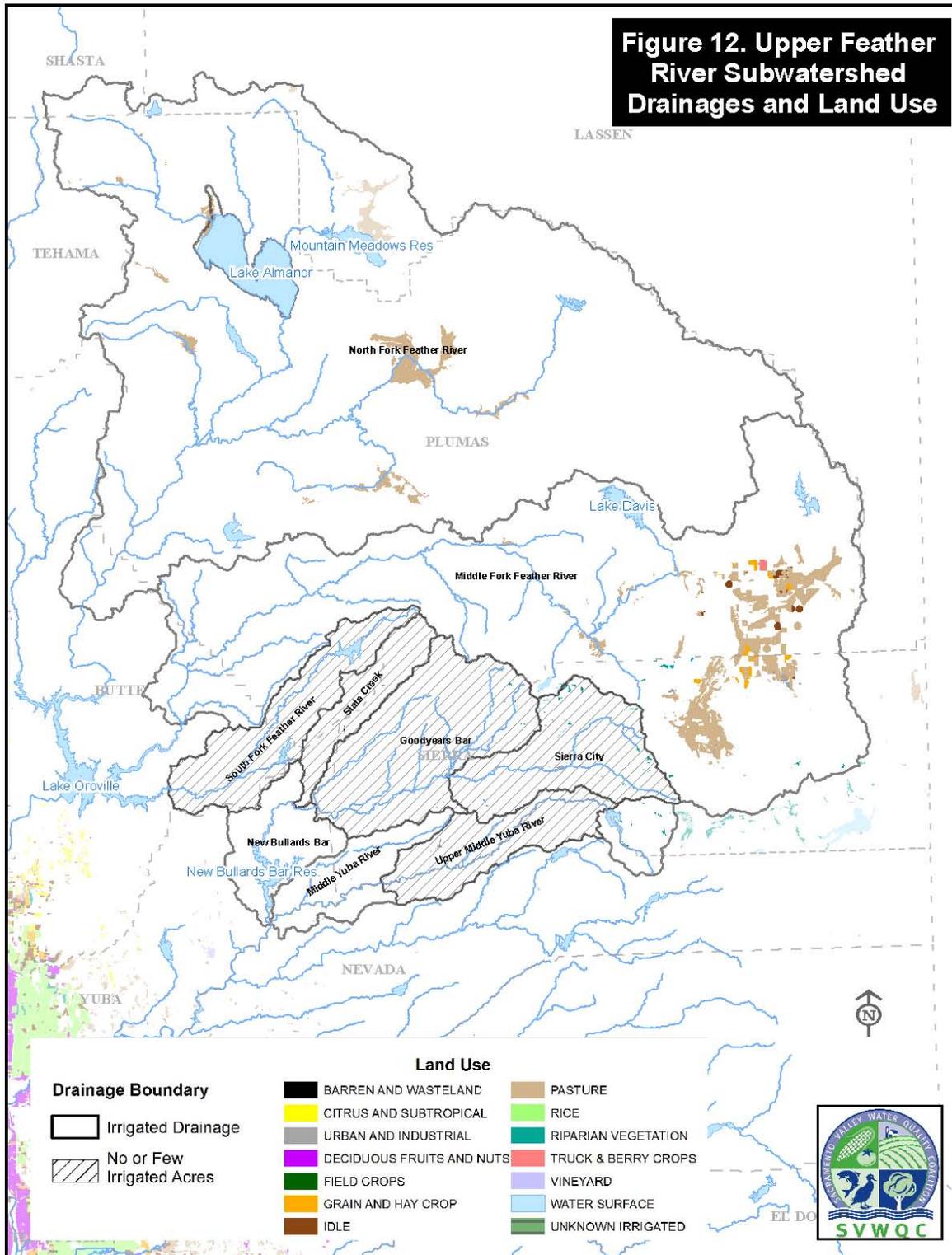
The Upper Feather River Subwatershed is uniquely divided into three distinct agricultural valleys located in Plumas and Sierra Counties: the Sierra Valley, the Indian Valley and the American Valley. Parallel lying valleys separated by low elevation ridges are common throughout the subwatershed. These valleys once contained ancient lakes that are now alluvial meadow systems.

The Upper Feather River Subwatershed encompasses four main drainage areas. Table 19 lists the drainages by name and the crops grown within each area. Figure 12 shows the extent of the drainages.

Table 19. Upper Feather River Subwatershed Drainages and Crops

| Type of Monitoring | Drainages | Crops |
|--|---|---|
| Monitoring site in Middle Fork Feather River | Middle Fork Feather River Sierra Valley | Pasture, alfalfa, grass hay, grain hay, nursery, Xmas trees |
| Monitoring site in Spanish Creek | North Fork Feather River American Valley | Pasture, alfalfa, grass hay, oats, wheat |
| Monitoring site in Indian Creek | North Fork Feather River Indian Valley | Pasture, alfalfa, grass hay, oats, wheat |

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