



California

**Department of
Conservation**

Division of Land Resource Protection

California Important Farmland

Farmland Mapping & Monitoring Program

March 19, 2024



A Brief History of FMMP

- Established 1982, Gov Code §65570(b)
- Soil Conservation Fund, Gov Code §51283(d)
- Location, Quality, and Quantity
- Conversion over time
- Consistent and Impartial
- Nonregulatory
- First Important Farmland Maps were produced in 1984, covered 30.3 million acres (38 counties)



Photo: R. Yoha

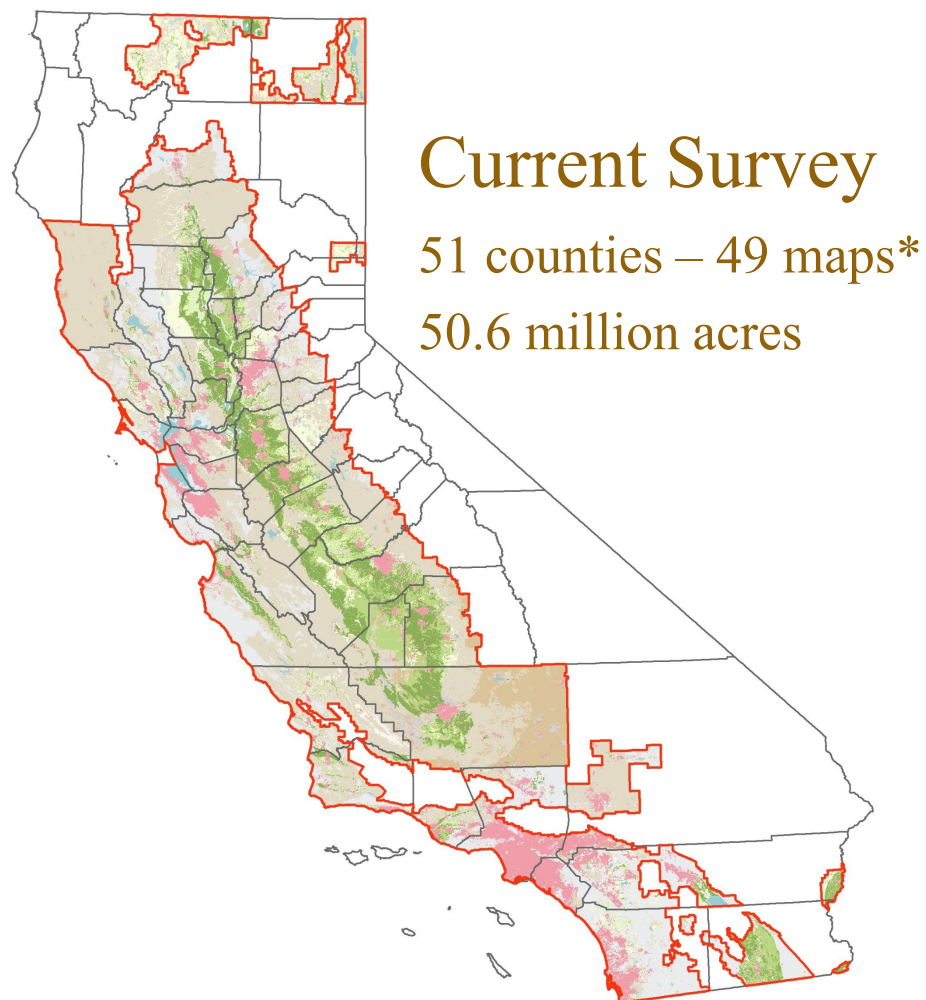
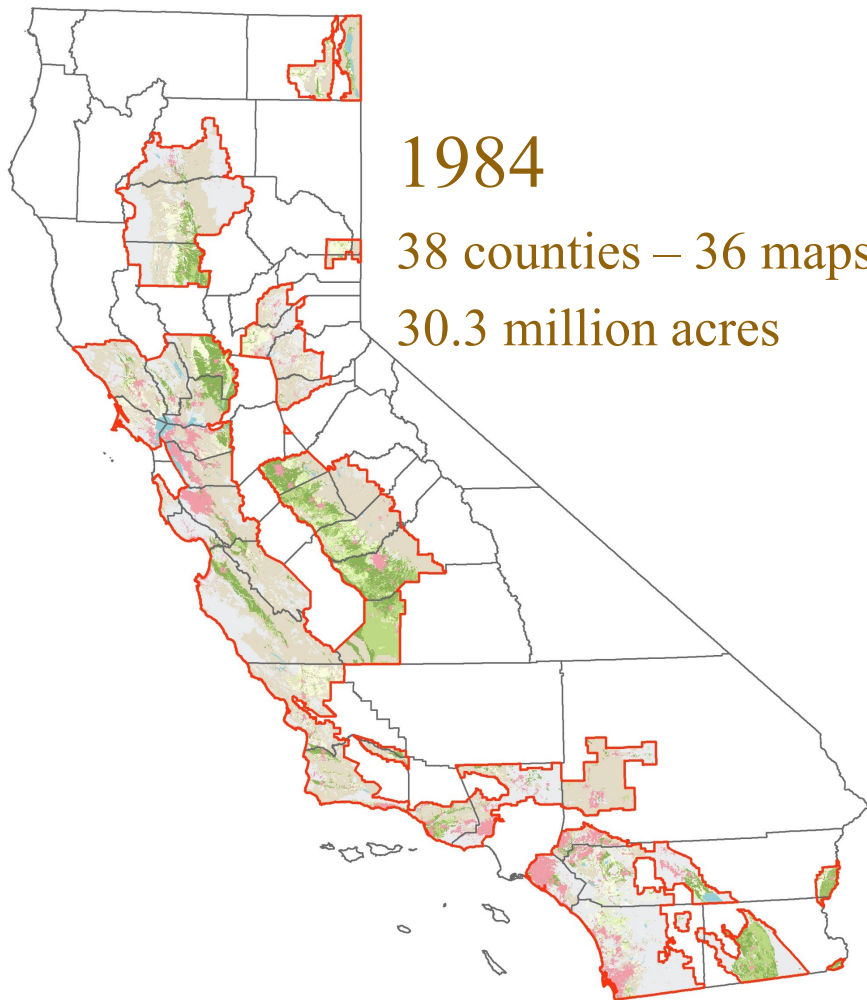


Mandated Deliverables

- Important Farmland Maps
- Land Use Conversion Statistics
- GIS Data
- Biennial Farmland Conversion Report
- Land Committed to Nonagricultural Uses
- Expert Responsibility in Determining Right to Farm Disclosure



Survey Area



California Important Farmland Map

What is it?

How is it made?



Photo: M. Kisko

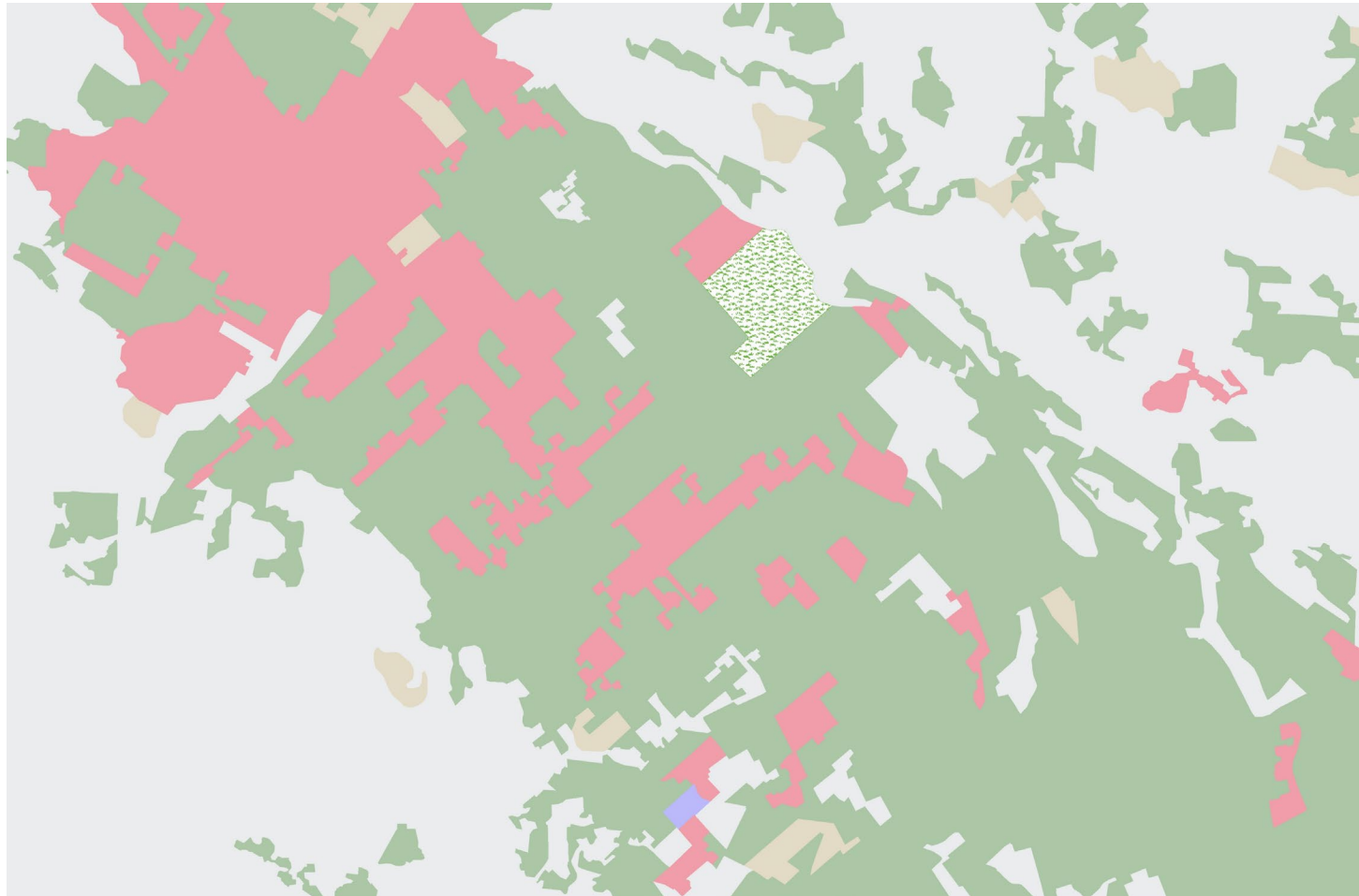


Photo Interpretation



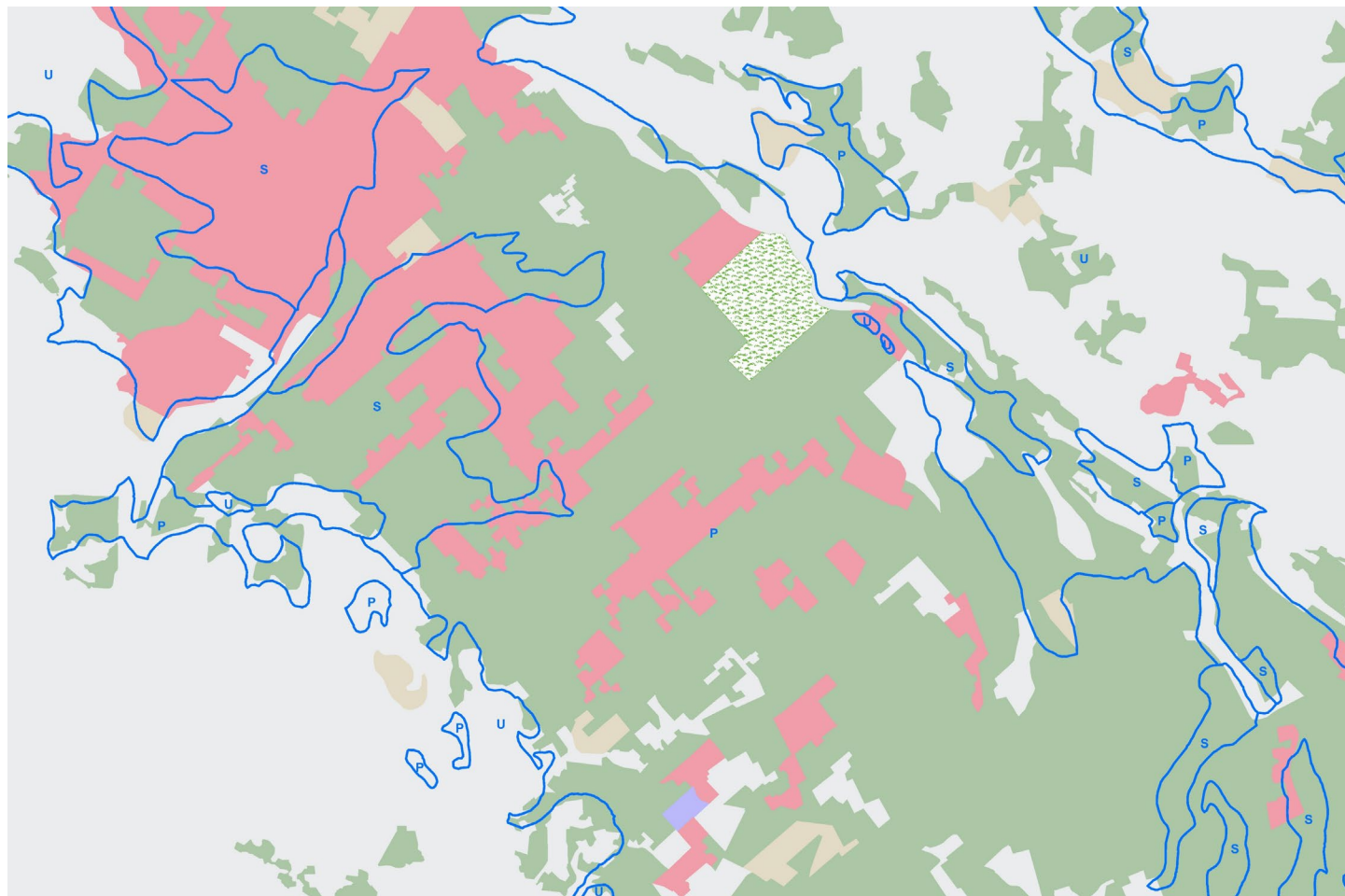


Land Use Data



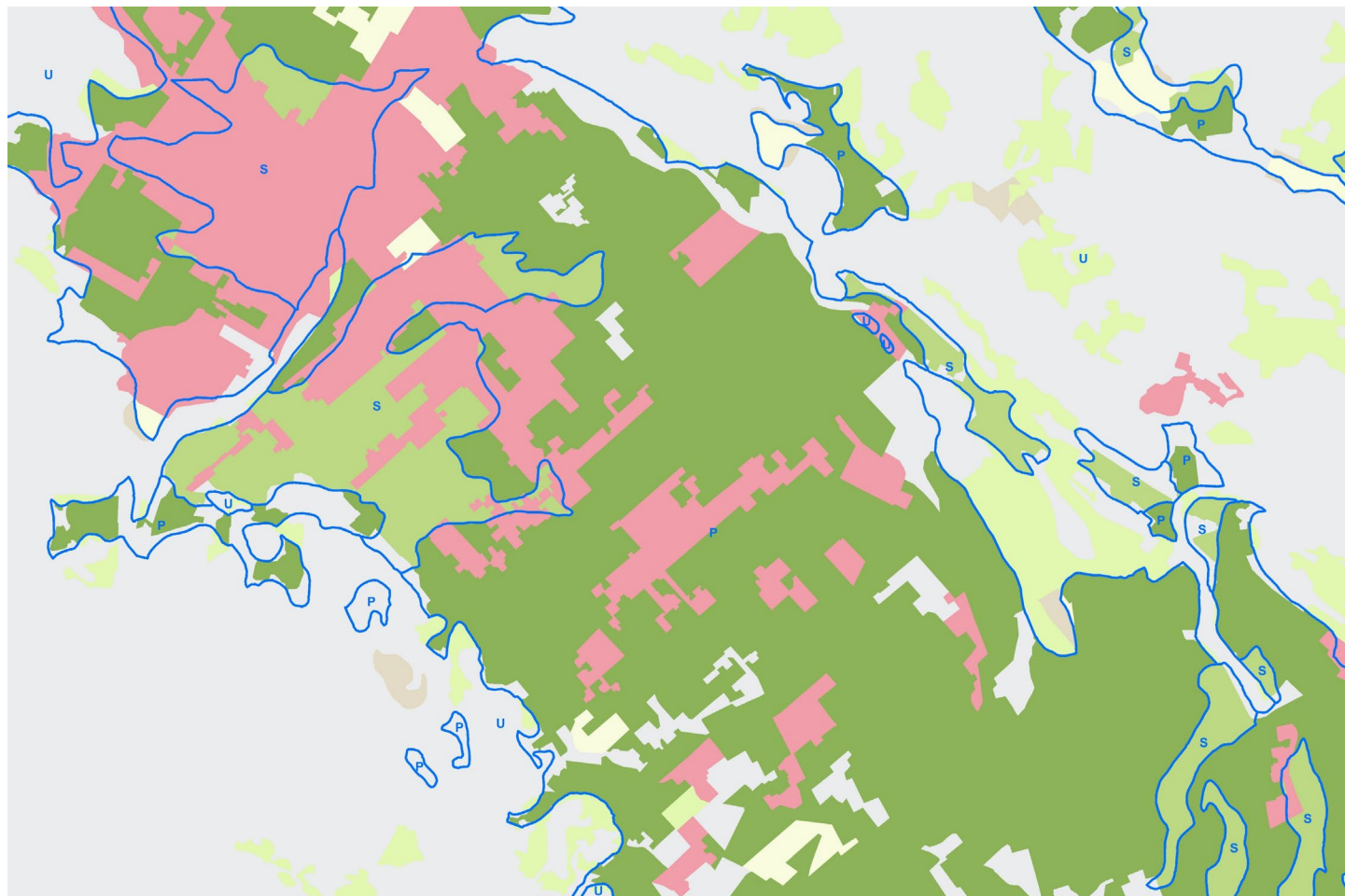


Land Use combined with the Soil Survey





Agricultural Categories affected by Soils





Important Farmland Data

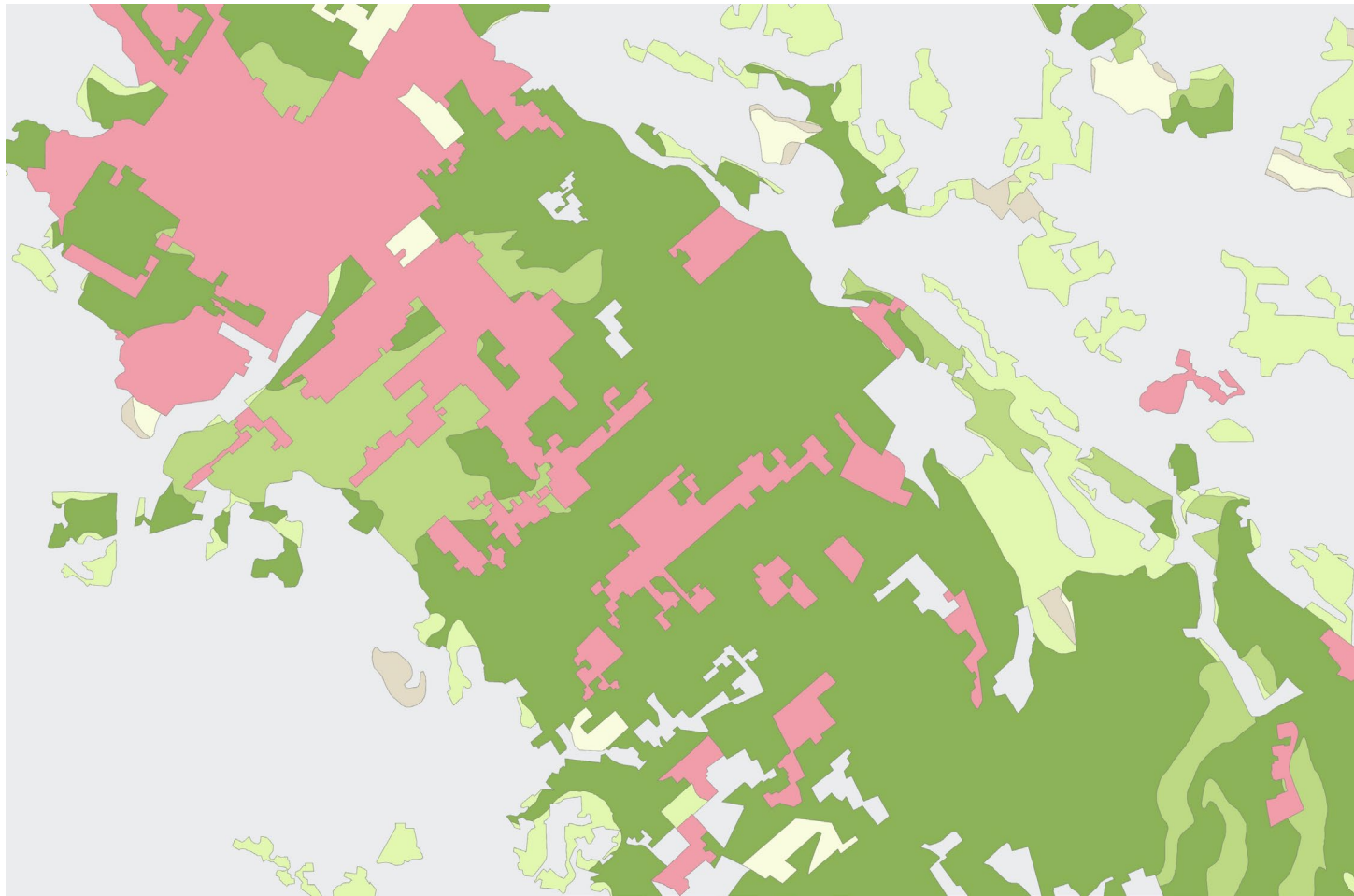


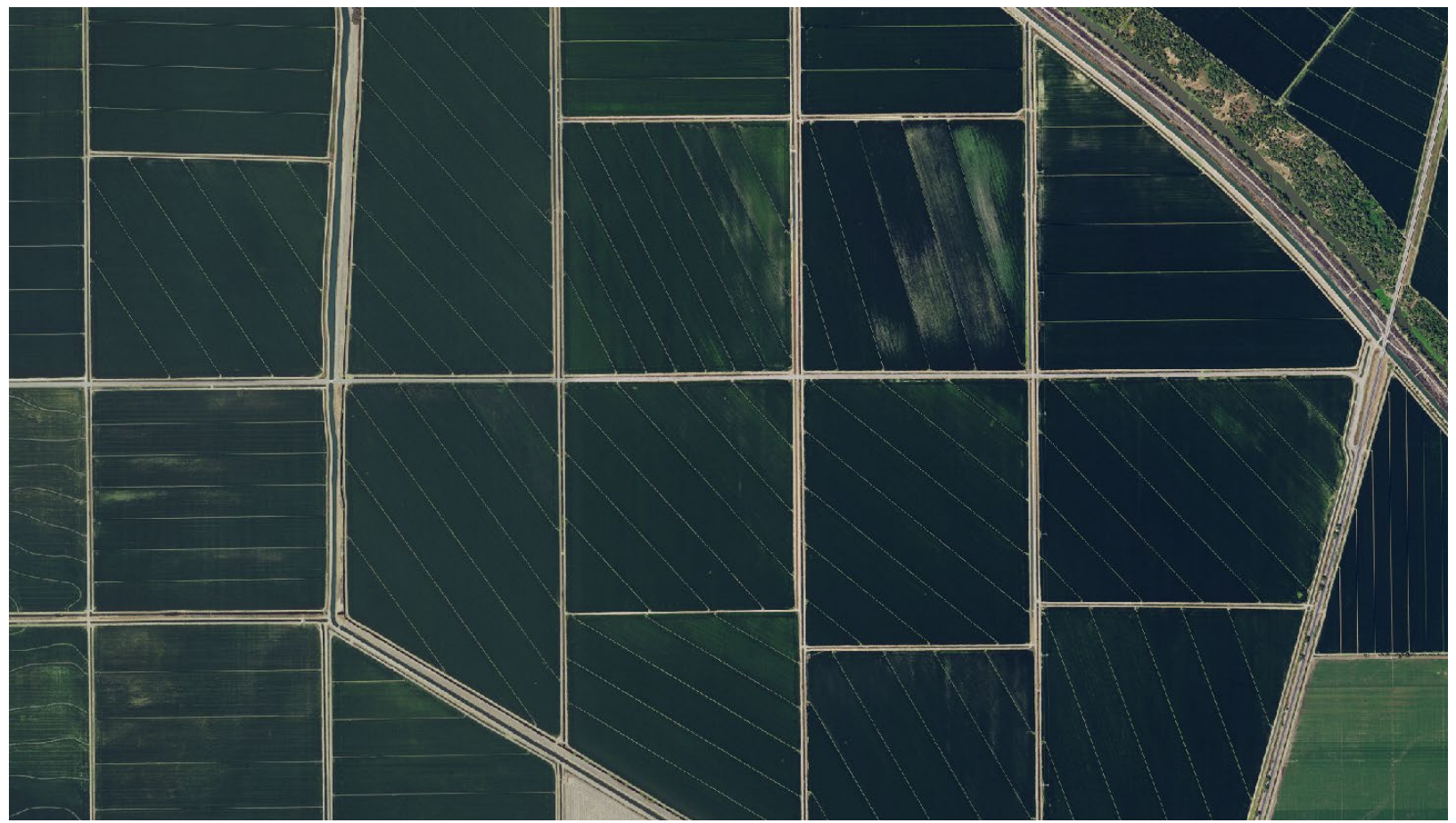


Photo Interpretation





Rice





Citrus Orchard





Irrigated Pasture





Almonds





Non-irrigated Grains





Solar Photovoltaic Panels





Landfill





Polo Fields



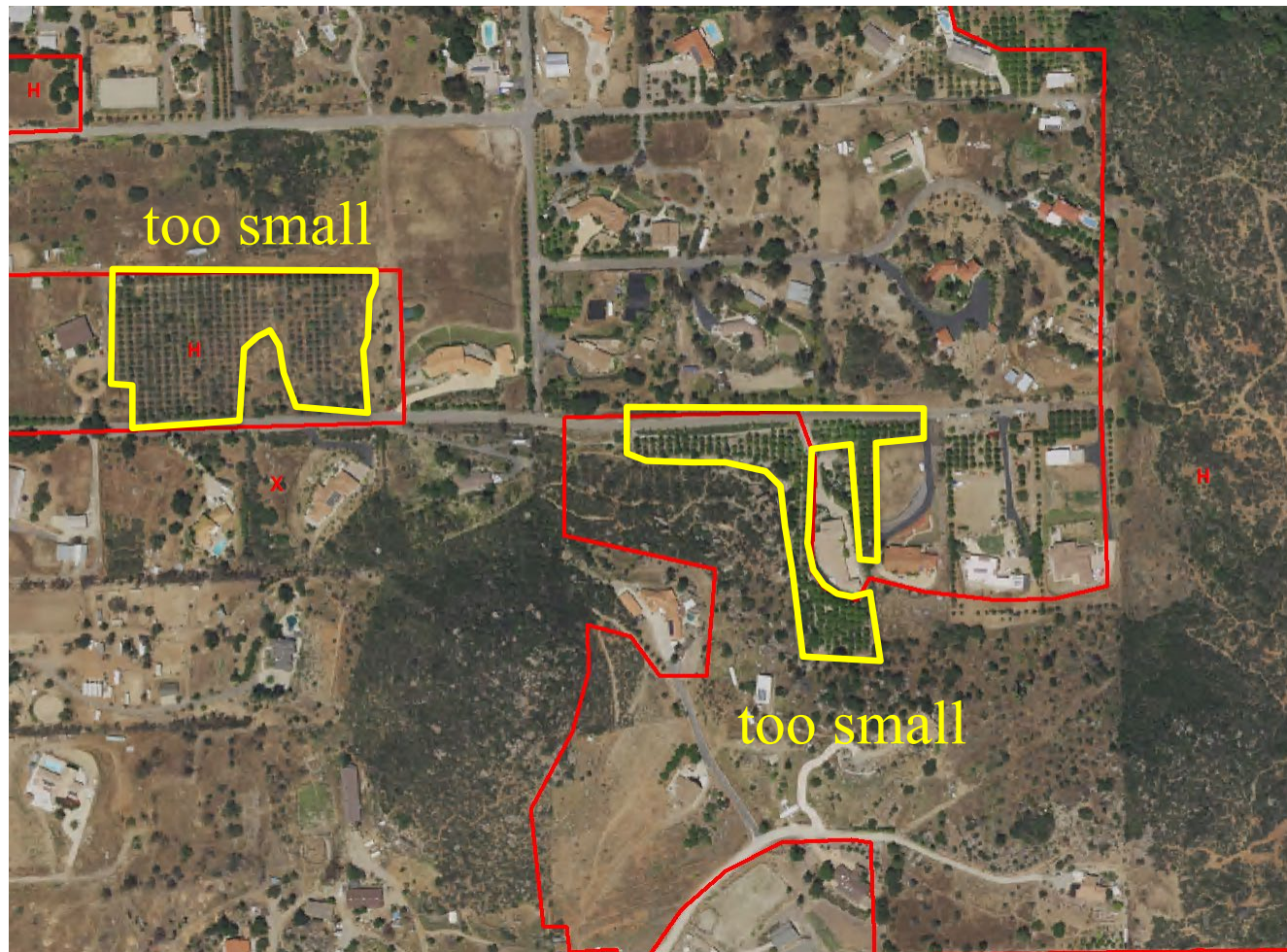


Land Use Data



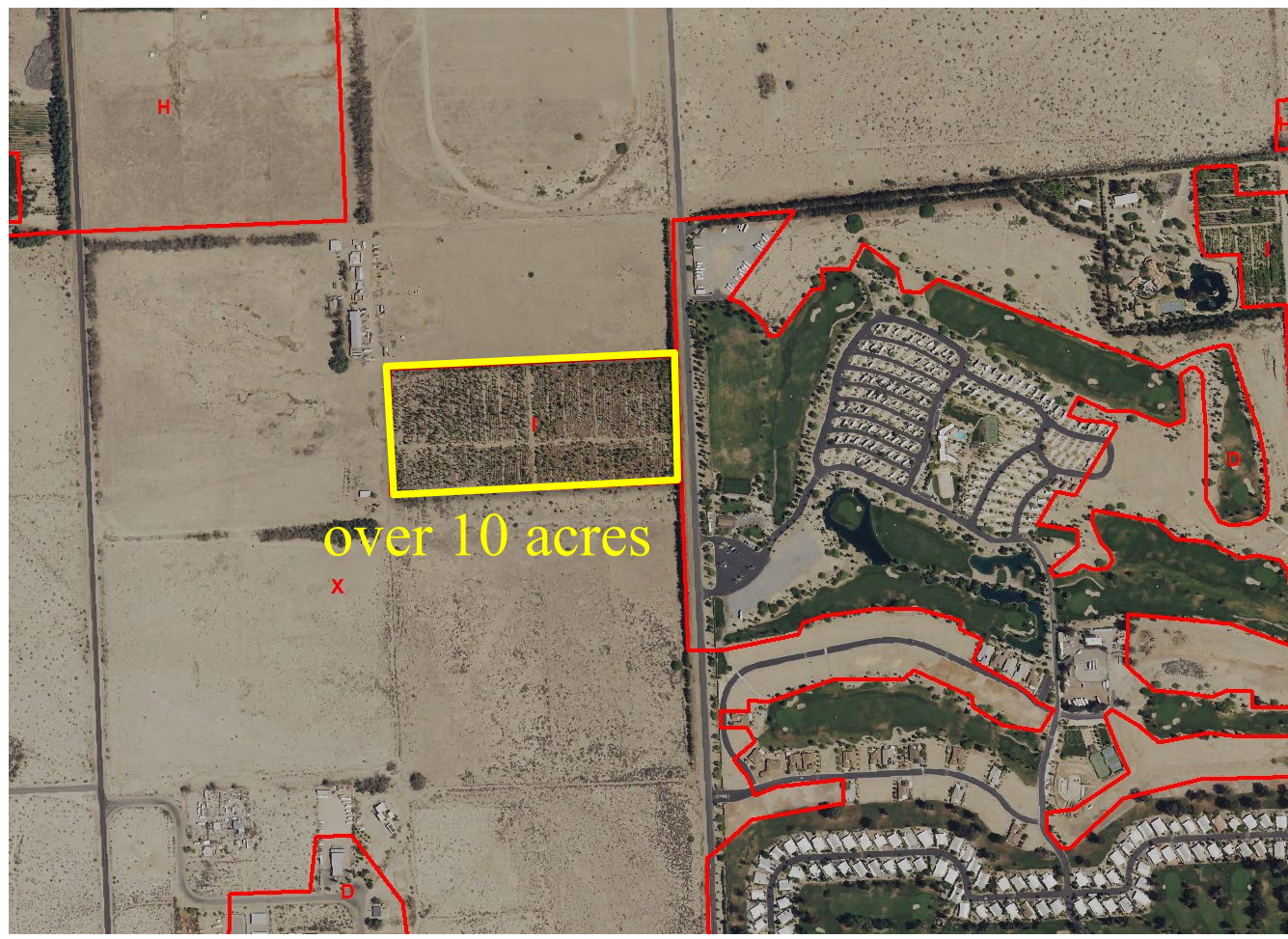


Minimum Map Unit 10 Acres





Minimum Map Unit 10 Acres



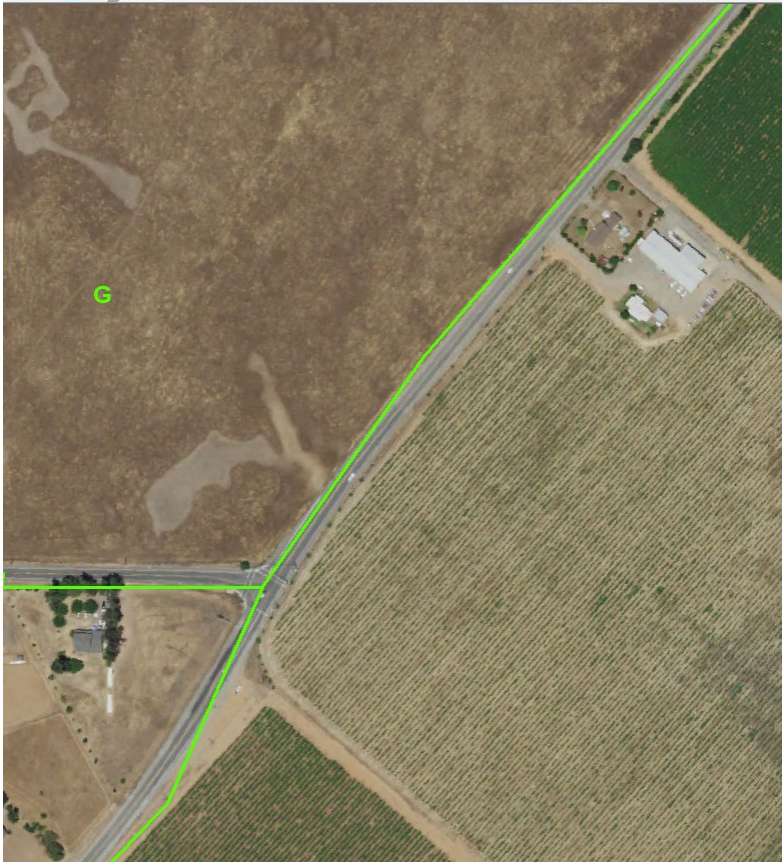


Looking for land use changes





Boundary Adjustments



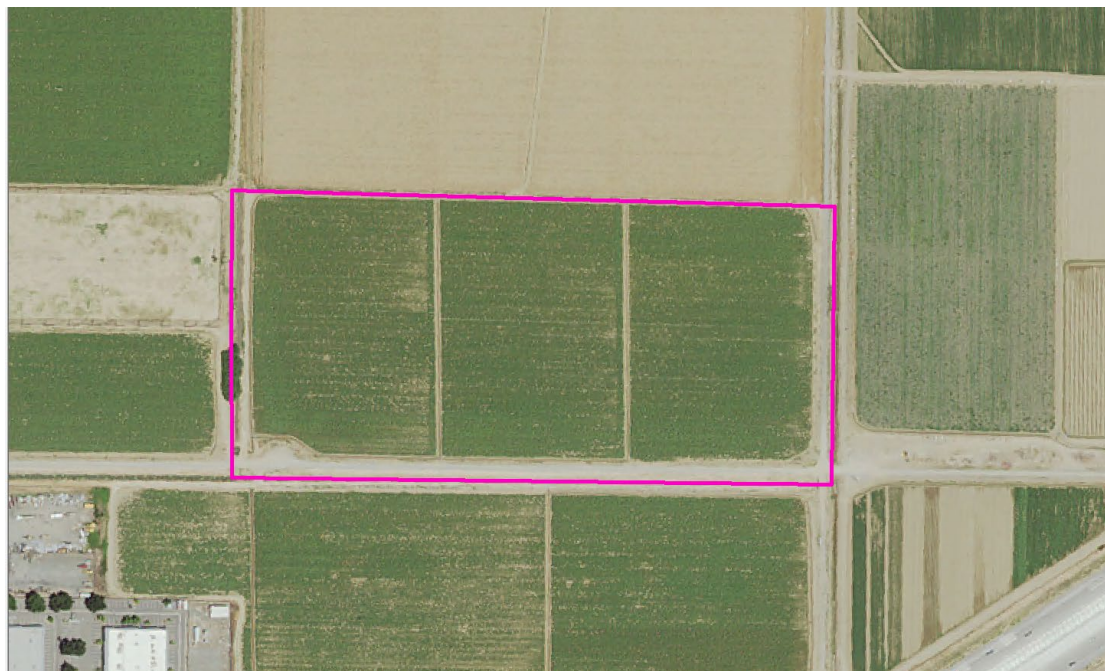


Internal Notes & Tracking





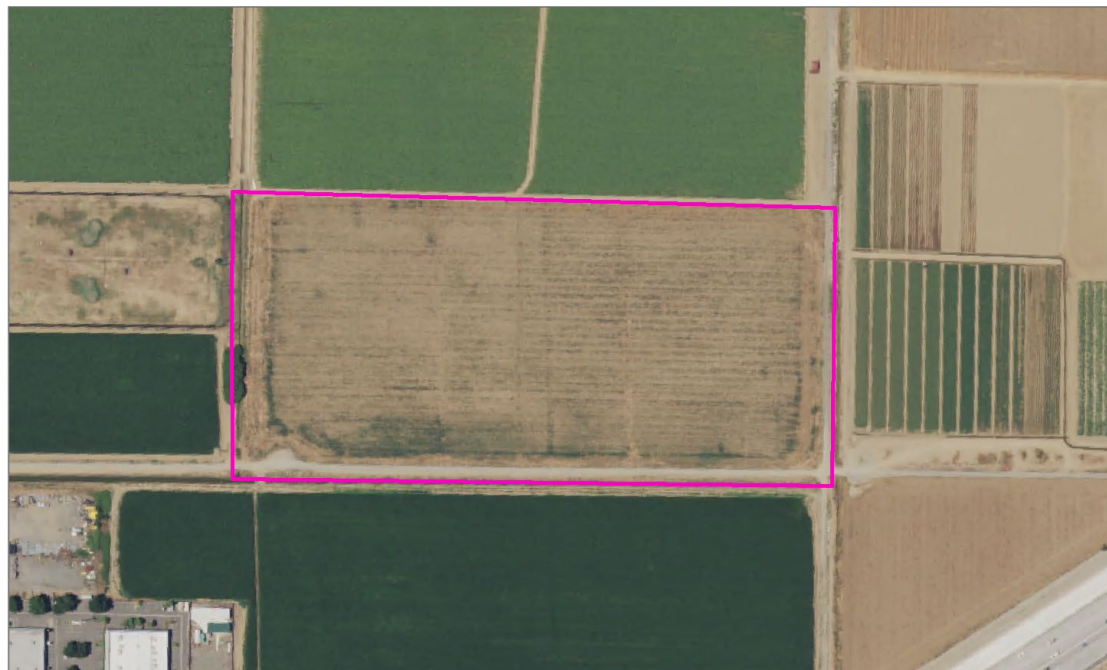
Irrigation Status



Irrigated agriculture



Irrigation Status



Irrigated agriculture
Fallow or non-irrigated grains noted (0 years)



Irrigation Status



Irrigated agriculture
Fallow or non-irrigated grains noted (2 years)



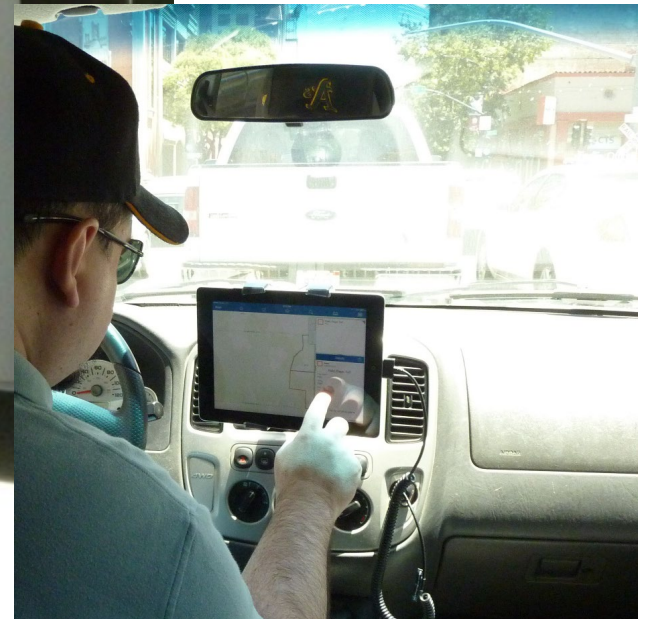
Irrigation Status



Land use changed from irrigated agriculture
Fallow or non-irrigated grains noted (4 years)

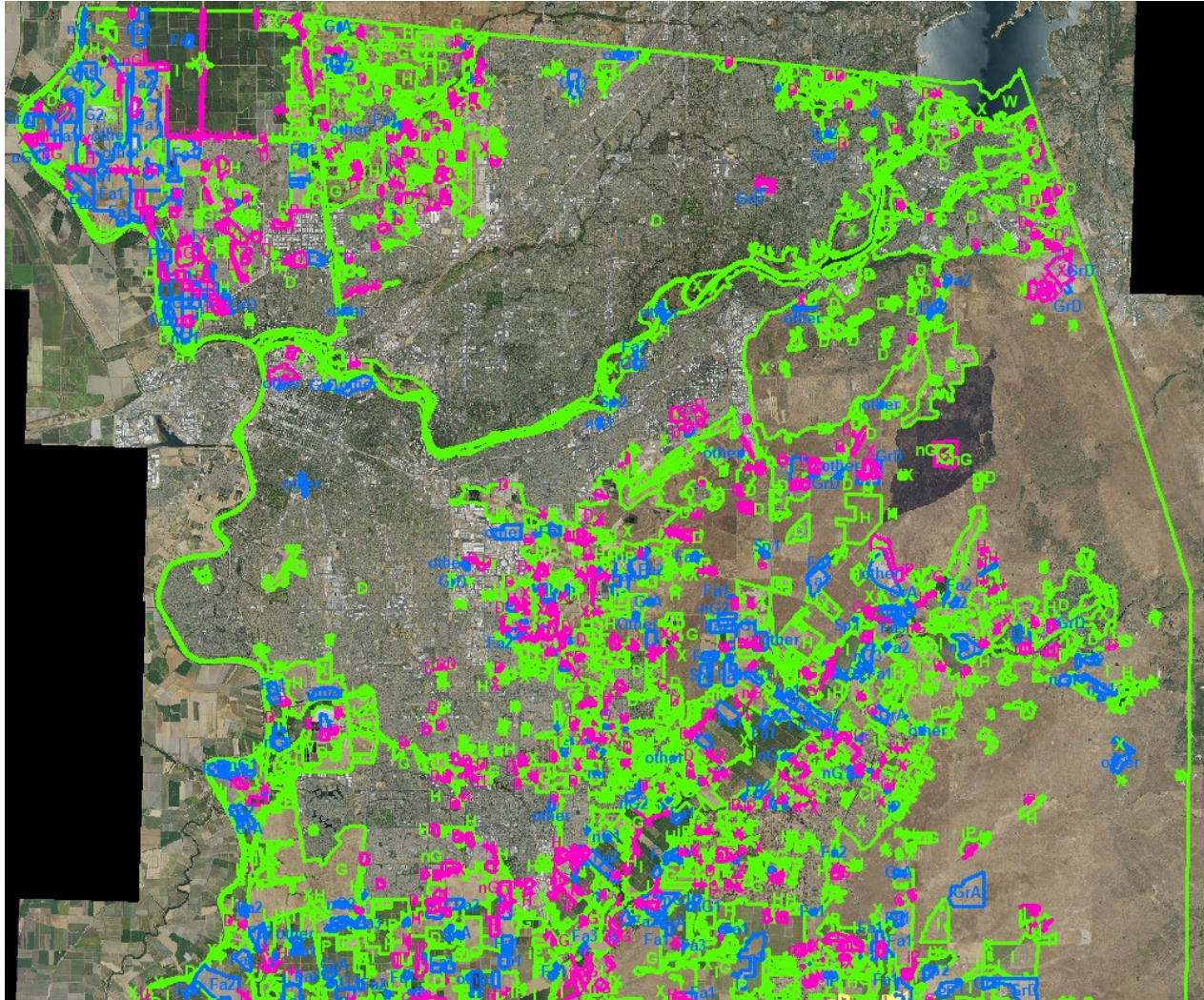


Field Work on iPads



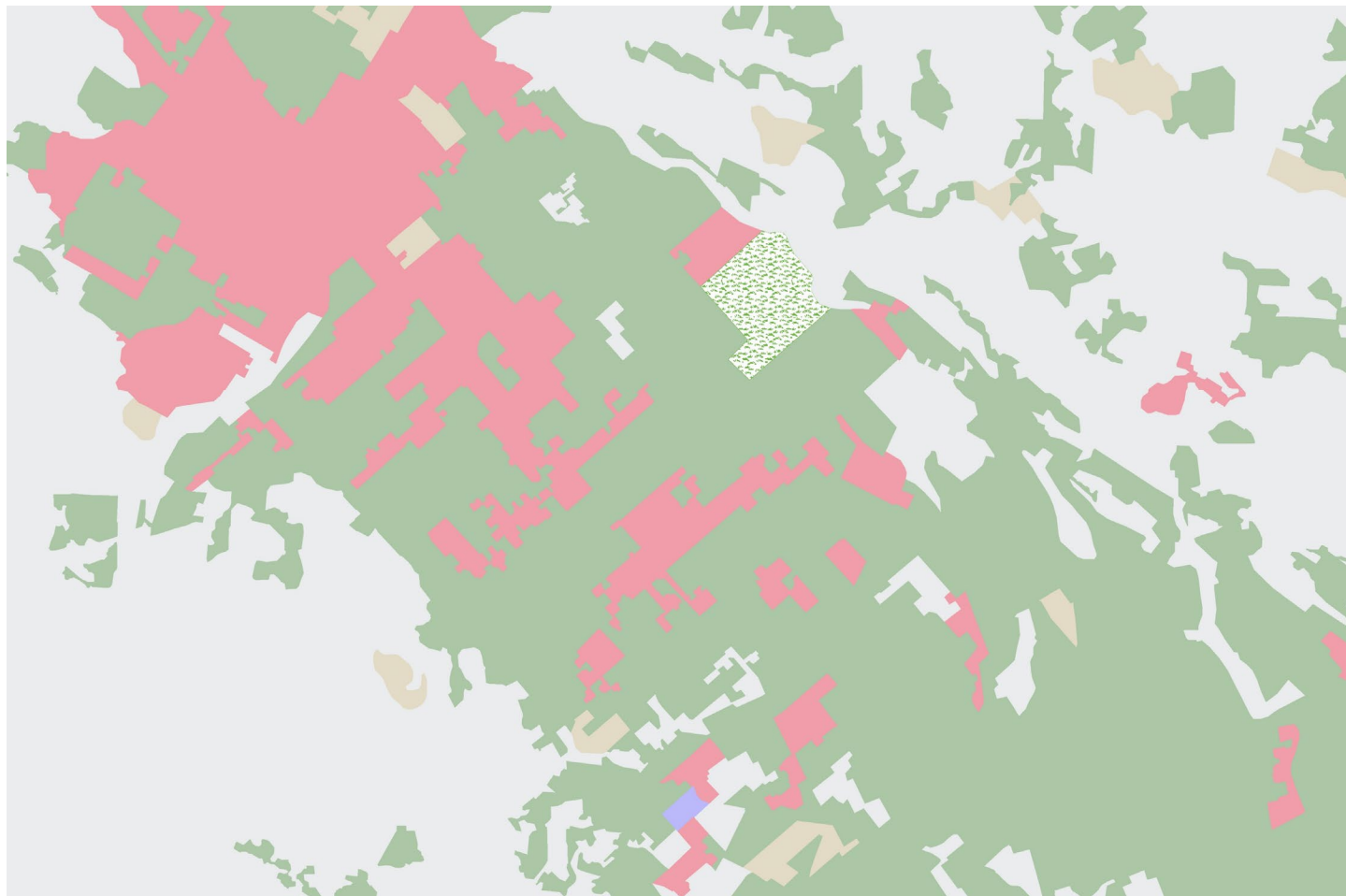


Managing the Project



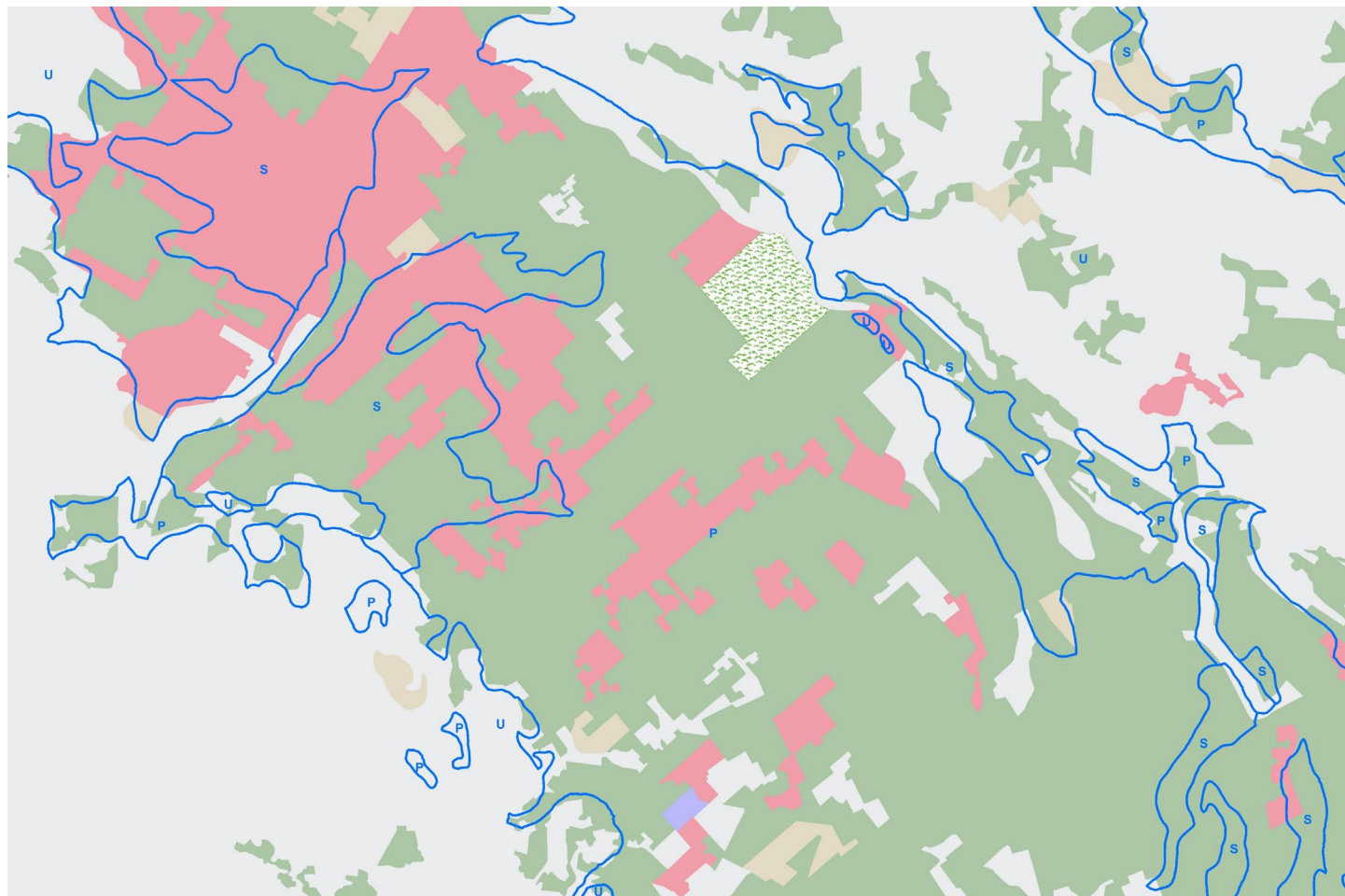


Land Use Data





Land Use combined with the Soil Survey





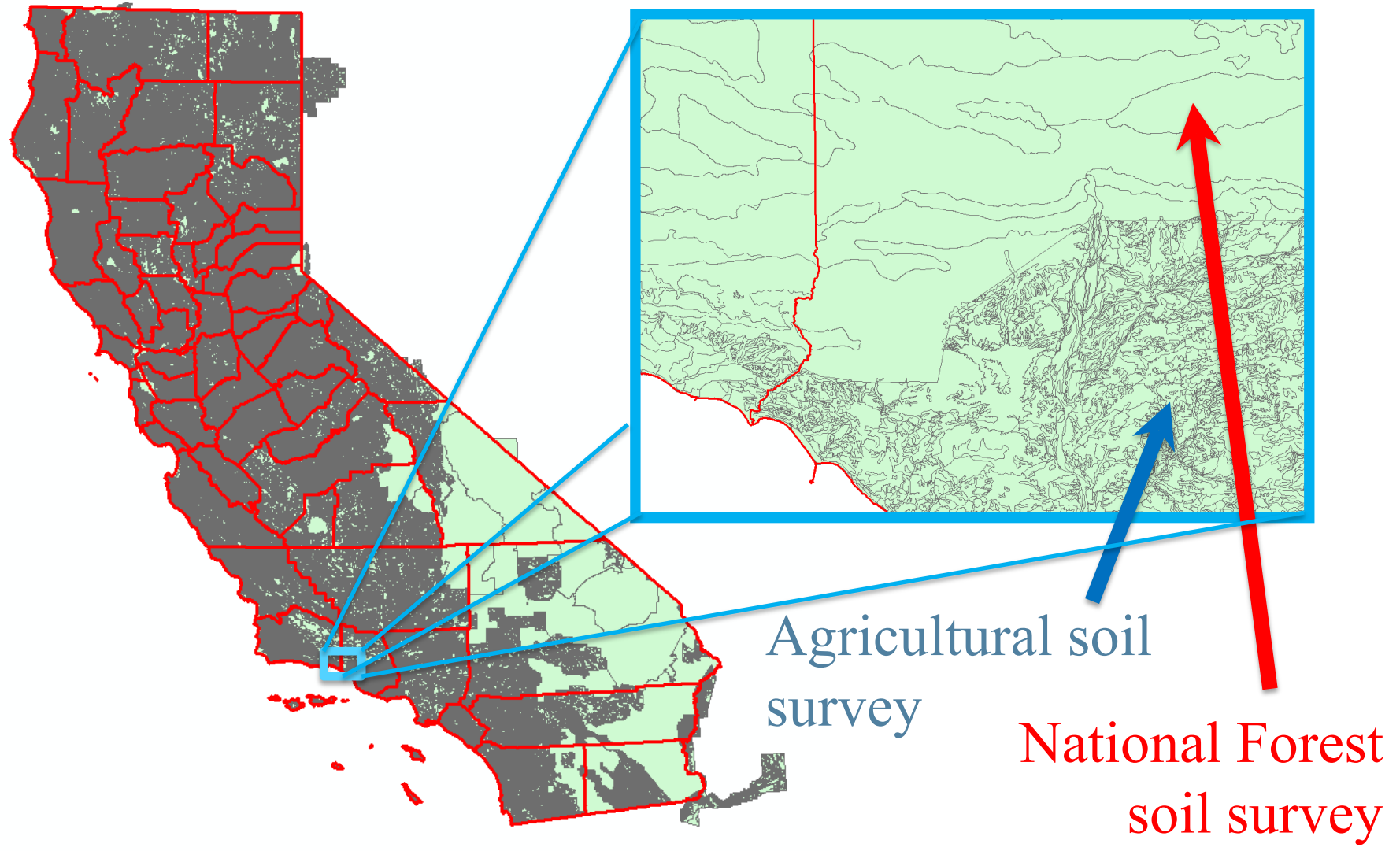
Soil Quality



Photo: M. Kisko

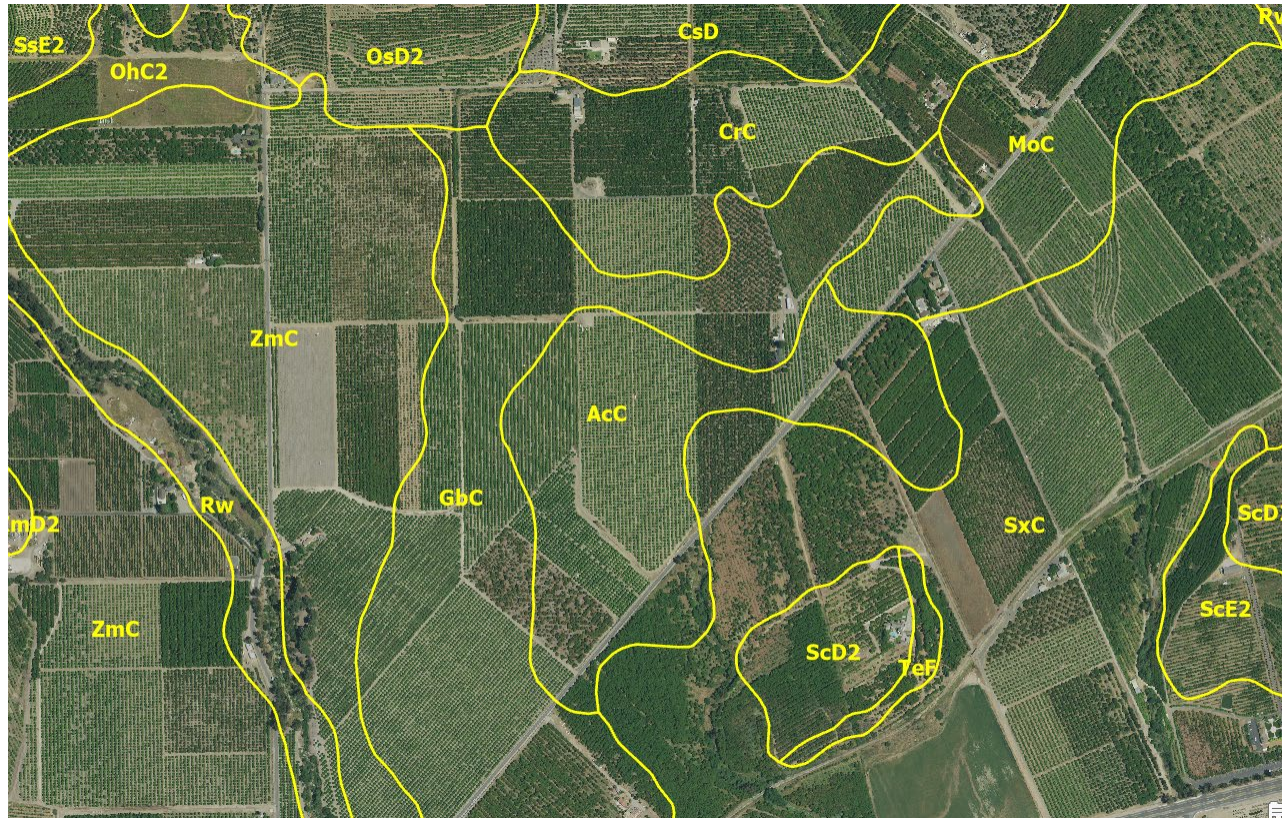


USDA-NRCS Soil Survey





NRCS soil units





USDA-NRCS determines which soils are Prime and Statewide Importance

SACRAMENTO COUNTY PRIME FARMLAND SOILS

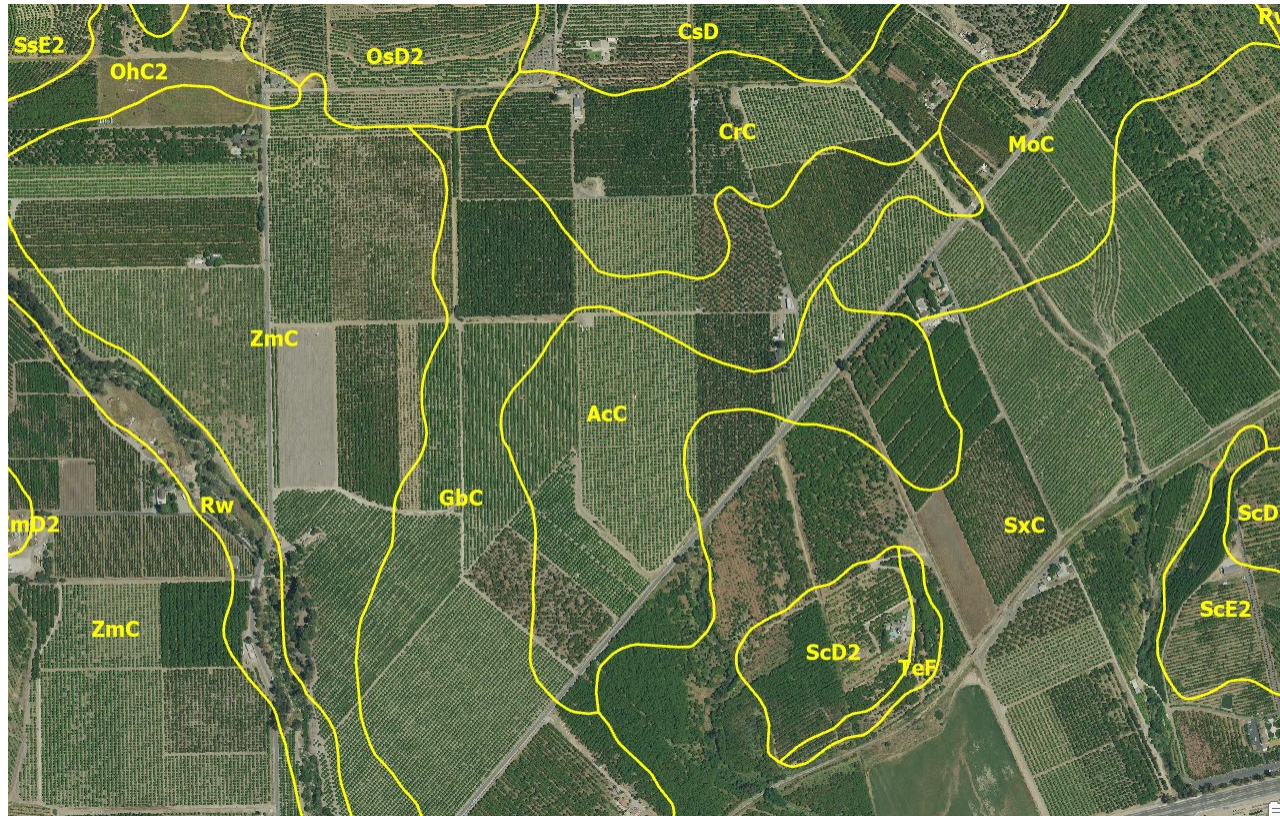
THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR PRIME FARMLAND AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE SACRAMENTO COUNTY SOIL SURVEY.

SACRAMENTO COUNTY

<u>SYMBOL</u>	<u>NAME</u>
111	Bruella sandy loam, 0 to 2 percent slopes
112	Bruella sandy loam, 2 to 5 percent slopes
113	Capay clay loam, 0 to 2 percent slopes, occasionally flooded
114*	Clear Lake clay, partially drained, 0 to 2 percent slopes, frequently flooded
115	Clear Lake clay, hardpan substratum, drained, 0 to 1 percent slopes
116	Columbia sandy loam, partially drained, 0 to 2 percent slopes
117	Columbia sandy loam, drained, 0 to 2 percent slopes
118	Columbia sandy loam, drained, 0 to 2 percent slopes, occasionally flooded
119	Columbia sandy loam, clayey substratum, partially drained, 0 to 2 percent slopes
120	Columbia sandy loam, clayey substratum, drained, 0 to 2 percent slopes
121	Columbia sandy loam, clayey substratum, drained, 0 to 2 percent slopes, occasionally flooded
122	Columbia fine sandy loam, partially drained, 0 to 2 percent slopes
123	Columbia silt loam, drained, 2 to 5 percent slopes
127	Cosumnes silt loam, partially drained, 0 to 2 percent slopes
128	Cosumnes silt loam, drained, 0 to 2 percent slopes
129	Cosumnes silt loam, drained, 0 to 2 percent slopes, occasionally flooded
131	Coyotecreek silt loam, 0 to 2 percent slopes, occasionally flooded
132	Creviscreek sandy loam, 0 to 3 percent slopes
135	Dierrsens clay loam, deep, drained, 0 to 2 percent slopes

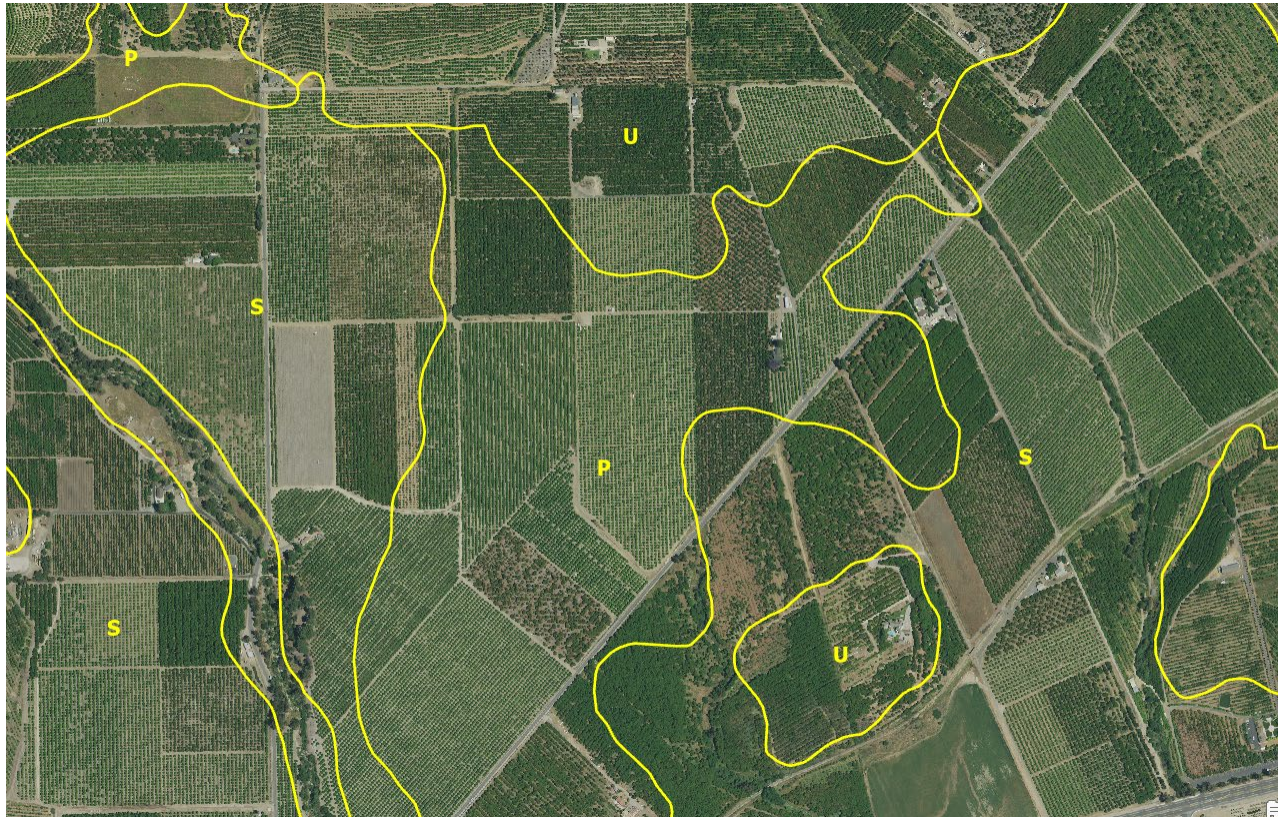


Soil Units Classified as Prime Soils or Soils of Statewide Importance



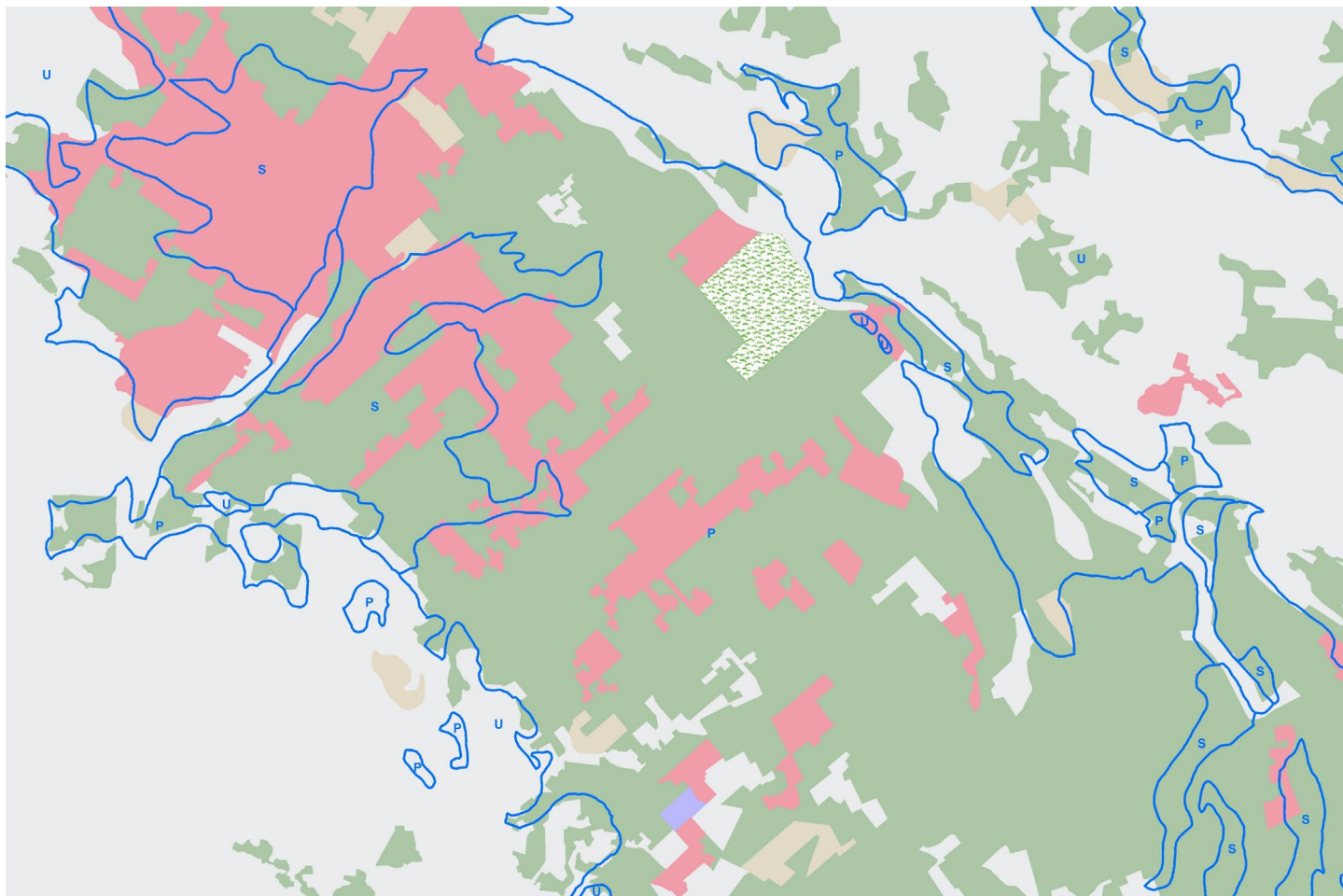


Soil Units Classified as Prime Soils or Soils of Statewide Importance



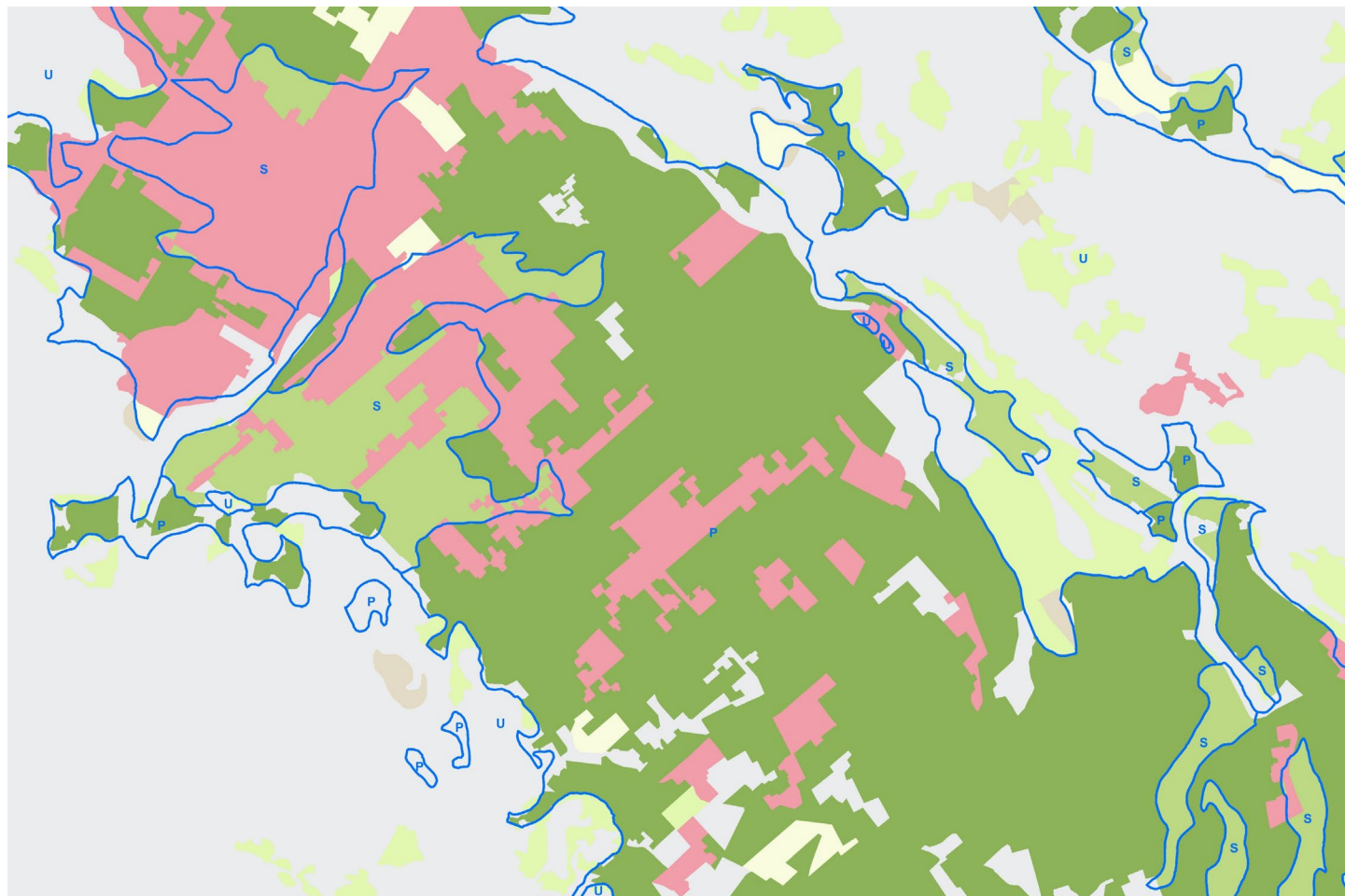


Land Use combined with the Soil Survey



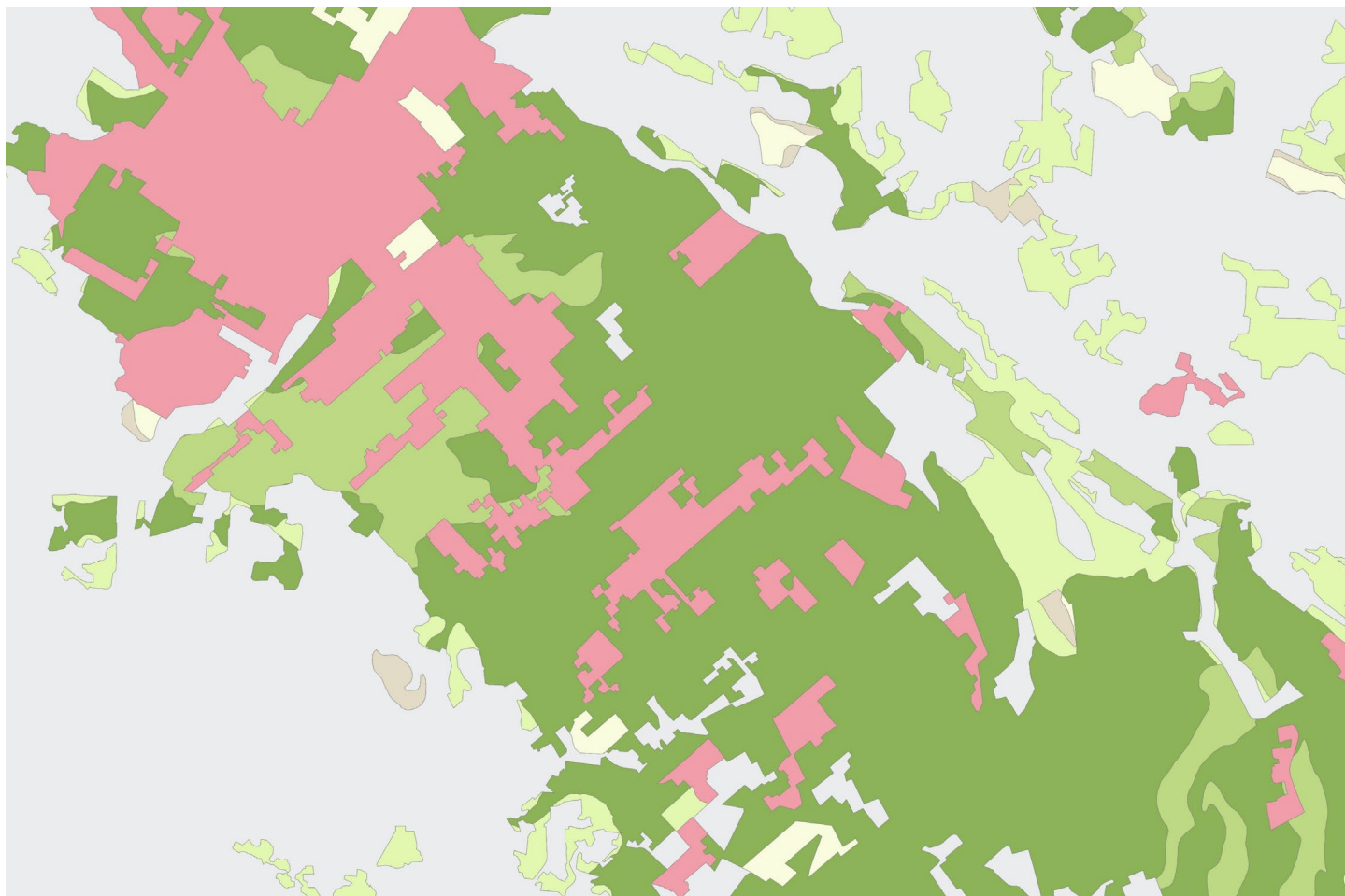


Agricultural Categories affected by Soils



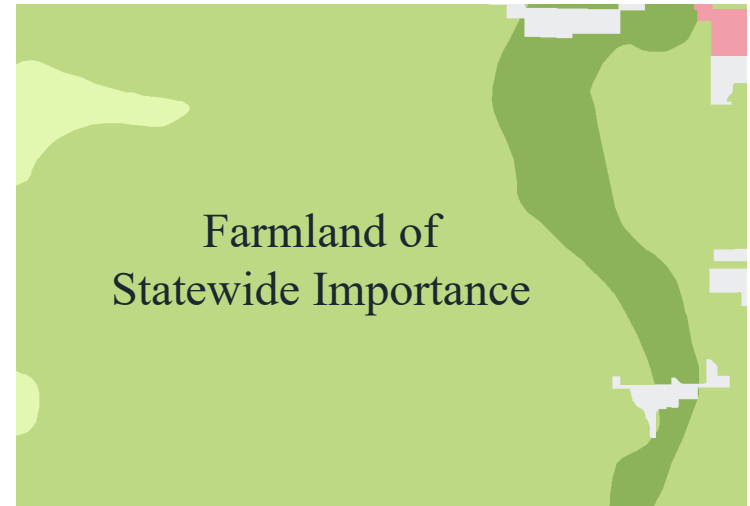


Important Farmland Data



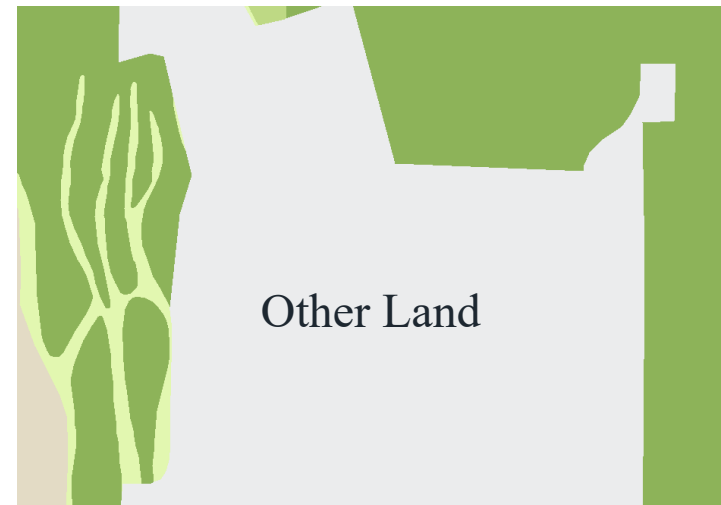
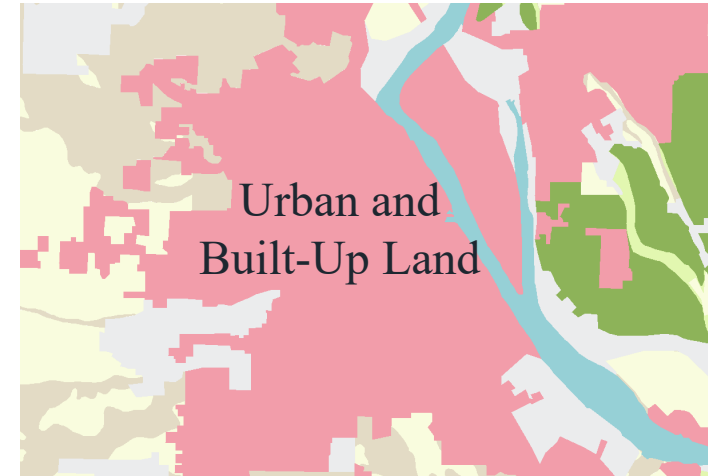


Important Farmland Categories



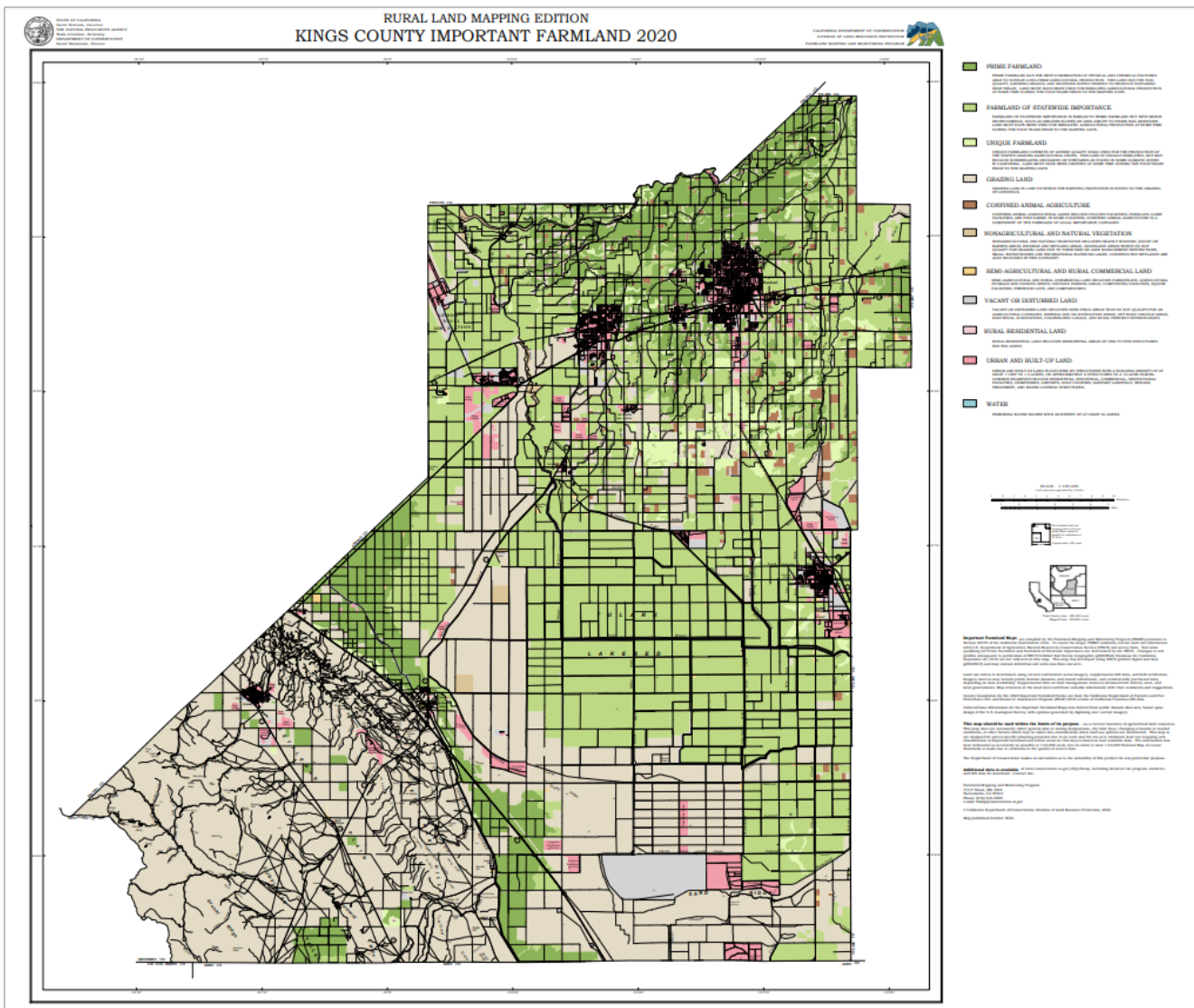


Additional Map Categories





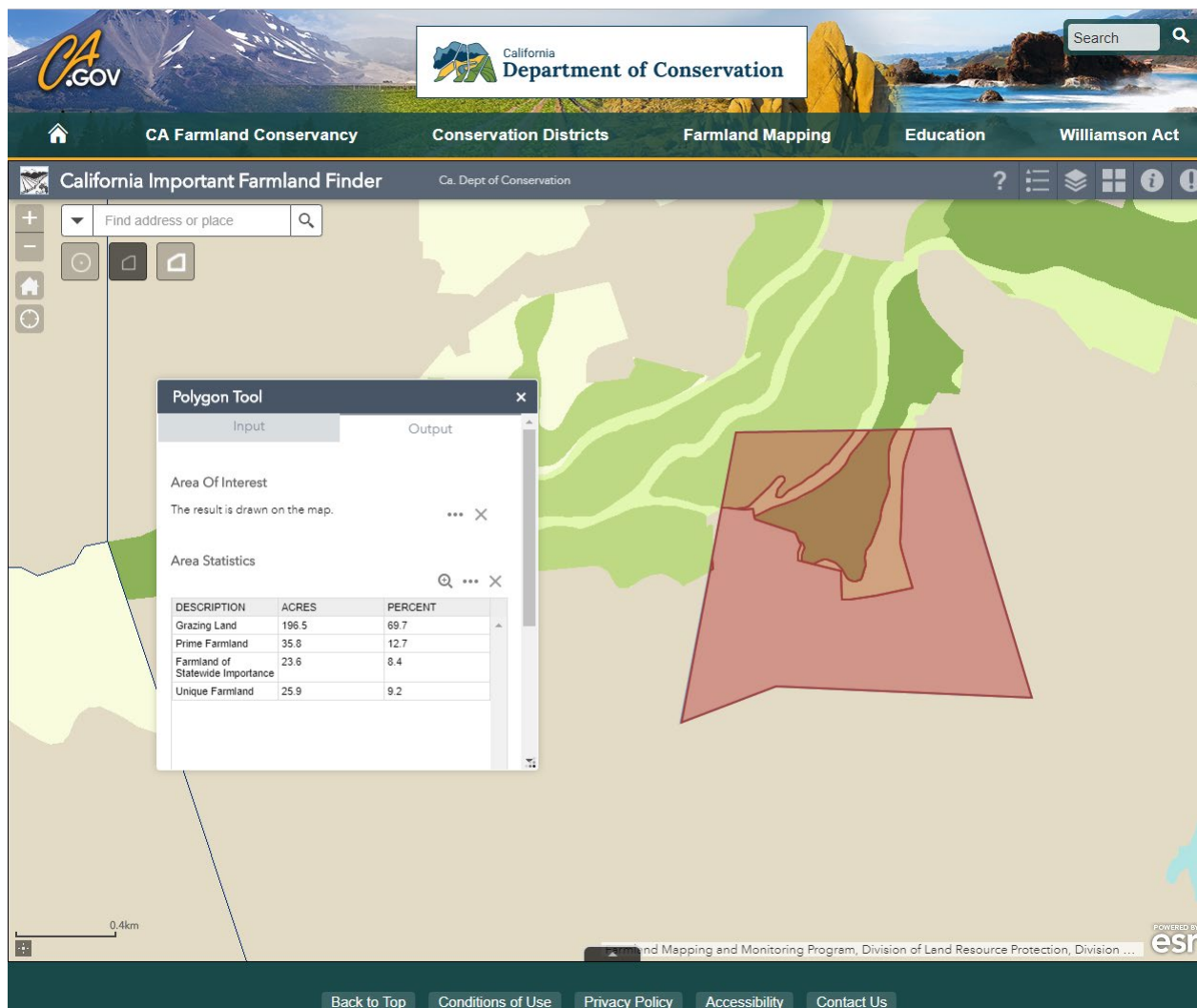
Important Farmland Map





California Important Farmland Finder

<https://maps.conservation.ca.gov/DLRP/CIFF/>



CA Farmland Conservancy Conservation Districts Farmland Mapping Education Williamson Act

California Important Farmland Finder Ca. Dept of Conservation

Find address or place

Polygon Tool

Input Output

Area Of Interest
The result is drawn on the map. ... X

Area Statistics
... X

DESCRIPTION	ACRES	PERCENT
Grazing Land	196.5	69.7
Prime Farmland	35.8	12.7
Farmland of Statewide Importance	23.6	8.4
Unique Farmland	25.9	9.2

0.4km

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Land Use Conversion Table

**TABLE A-12
KINGS COUNTY
2018-2020 Land Use Conversion**

**CALIFORNIA DEPARTMENT OF CONSERVATION
Division of Land Resource Protection**

Farmland Mapping and Monitoring Program

**PART I
County Summary and Change by Land Use Category**

LAND USE CATEGORY	TOTAL ACREAGE 2018	TOTAL ACREAGE 2020	2018-2020 ACRES LOST (-)	2018-2020 ACRES GAINED (+)	2018-2020 TOTAL ACREAGE CHANGED	2018-2020 NET ACREAGE CHANGED
Prime Farmland	107,913	109,698	2,623	4,408	7,031	1,785
Farmland of Statewide Importance	320,052	315,272	6,452	1,672	8,124	-4,780
Unique Farmland	20,531	20,272	274	15	289	-259
Farmland of Local Importance	10,534	10,514	64	44	108	-20
IMPORTANT FARMLAND SUBTOTAL	459,030	455,756	9,413	6,139	15,552	-3,274
Grazing Land	358,342	359,932	6,952	8,542	15,494	1,590
AGRICULTURAL LAND SUBTOTAL	817,372	815,688	16,365	14,681	31,046	-1,684
Urban and Built-up Land	39,428	40,930	125	1,627	1,752	1,502
Other Land	33,942	34,186	737	981	1,718	244
Water Area	62	0	62	0	62	-62
TOTAL AREA INVENTORIED	890,804	890,804	17,289	17,289	34,578	0

**PART II
Land Committed to Nonagricultural Use**

LAND USE CATEGORY	TOTAL ACREAGE 2020
Prime Farmland	DATA NOT AVAILABLE
Farmland of Statewide Importance	DATA NOT AVAILABLE
Unique Farmland	DATA NOT AVAILABLE
Farmland of Local Importance	DATA NOT AVAILABLE
IMPORTANT FARMLAND SUBTOTAL	
Grazing Land	
AGRICULTURAL LAND SUBTOTAL	
Urban and Built-up Land	
Other Land	
Water Area	
TOTAL ACREAGE REPORTED	

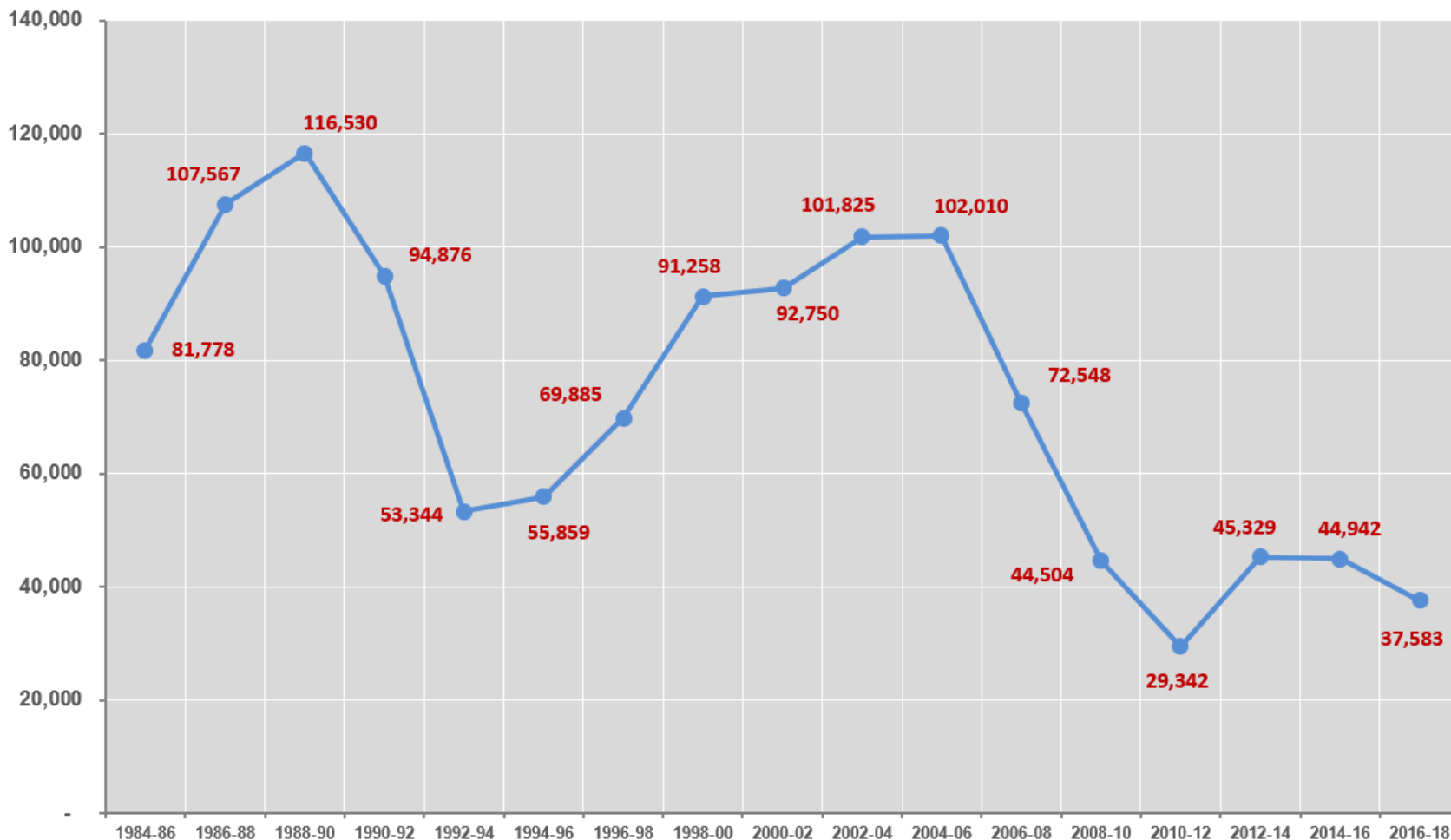
PART III Land Use Conversion from 2018 to 2020

LAND USE CATEGORY	Prime Farmland	Farmland of Statewide Importance	Unique Farmland	Farmland of Local Importance	Subtotal Important Farmland	Grazing Land	Total Agricultural Land	Urban and Built-up Land	Other Land	Water Area	Total Converted To Another Use
Prime Farmland (1)	to: --	0	0	7	7	2,319	2,326	133	164	0	2,623
Farmland of Statewide Importance (2)	to: 0	--	0	25	25	5,564	5,589	333	530	0	6,452
Unique Farmland	to: 0	0	--	0	0	252	252	13	9	0	274
Farmland of Local Importance	to: 7	13	2	--	22	4	26	0	38	0	64
IMPORTANT FARMLAND SUBTOTAL		7	13	2	32	54	8,139	479	741	0	9,413
Grazing Land (2)	to: 4,291	1,624	12	12	5,939	--	5,939	875	138	0	6,952
AGRICULTURAL LAND SUBTOTAL	4,298	1,637	14	44	5,993	8,139	14,132	1,354	879	0	16,365
Urban and Built-up Land (3)	to: 11	0	0	0	11	12	23	--	102	0	125
Other Land	to: 99	35	1	0	135	329	464	273	--	0	737
Water Area (4)	to: 0	0	0	0	0	62	62	0	0	--	62
TOTAL ACREAGE CONVERTED	to: 4,408	1,672	15	44	6,139	8,542	14,681	1,627	981	0	17,289

(1) Conversion to Grazing Land is primarily due to land left idle or land used for dryland grain production for three or more update cycles.
 (2) Conversion to irrigated farmland is primarily due to the addition of irrigated orchards, row crops and field crops.
 (3) Conversion from Urban and Built-up Land is primarily the result of a defunct golf course, land lacking sufficient infrastructure, and the use of detailed digital imagery to delineate more distinct urban boundaries.
 (4) Conversion from Water due to a water body northeast of Lemoore Naval Air Station that had been dry for multiple updates.

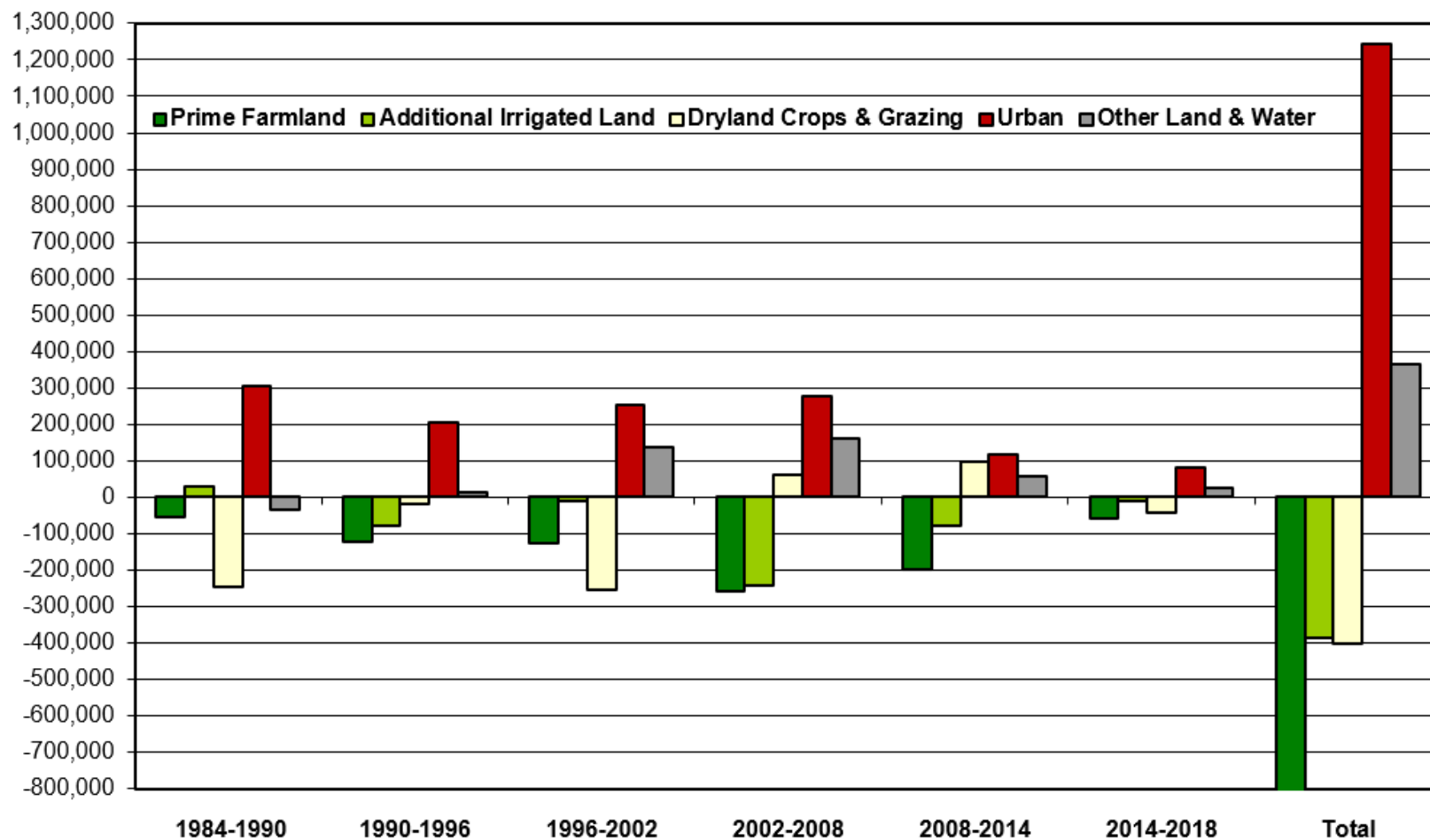


Net Urban Acreage Change 1984-2018





Net Acreage Change 1984-2018



Total irrigated farmland loss – 1,203,340 acres
 Prime Farmland loss – 816,123 acres - 68% of total



#1 Urbanizing Region

1984-1986
Southern California

1986-1988
Southern California

1988-1990
Southern California

1990-1992
Southern California

1992-1994
Southern California

1994-1996
Southern California

1996-1998
Southern California

1998-2000
Southern California

2000-2002
Southern California



2002-2004
Southern California

2004-2006
Southern California

2006-2008
Southern California

2008-2010
Southern California

2010-2012
Southern California

2012-2014
Southern California

2014-2016
San Joaquin Valley

2016-2018
Southern California

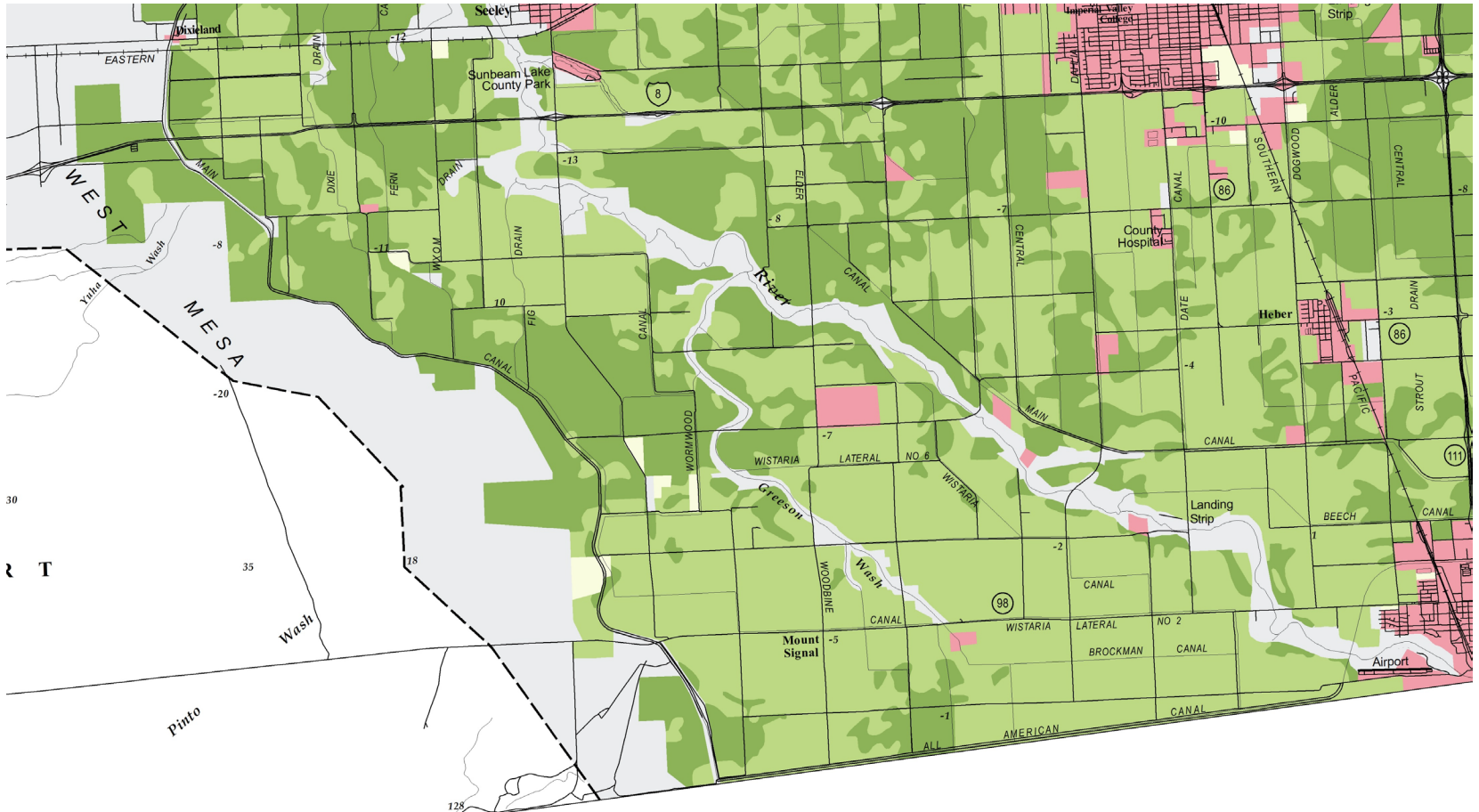


New Urban Due to Solar (within FMMP survey area)

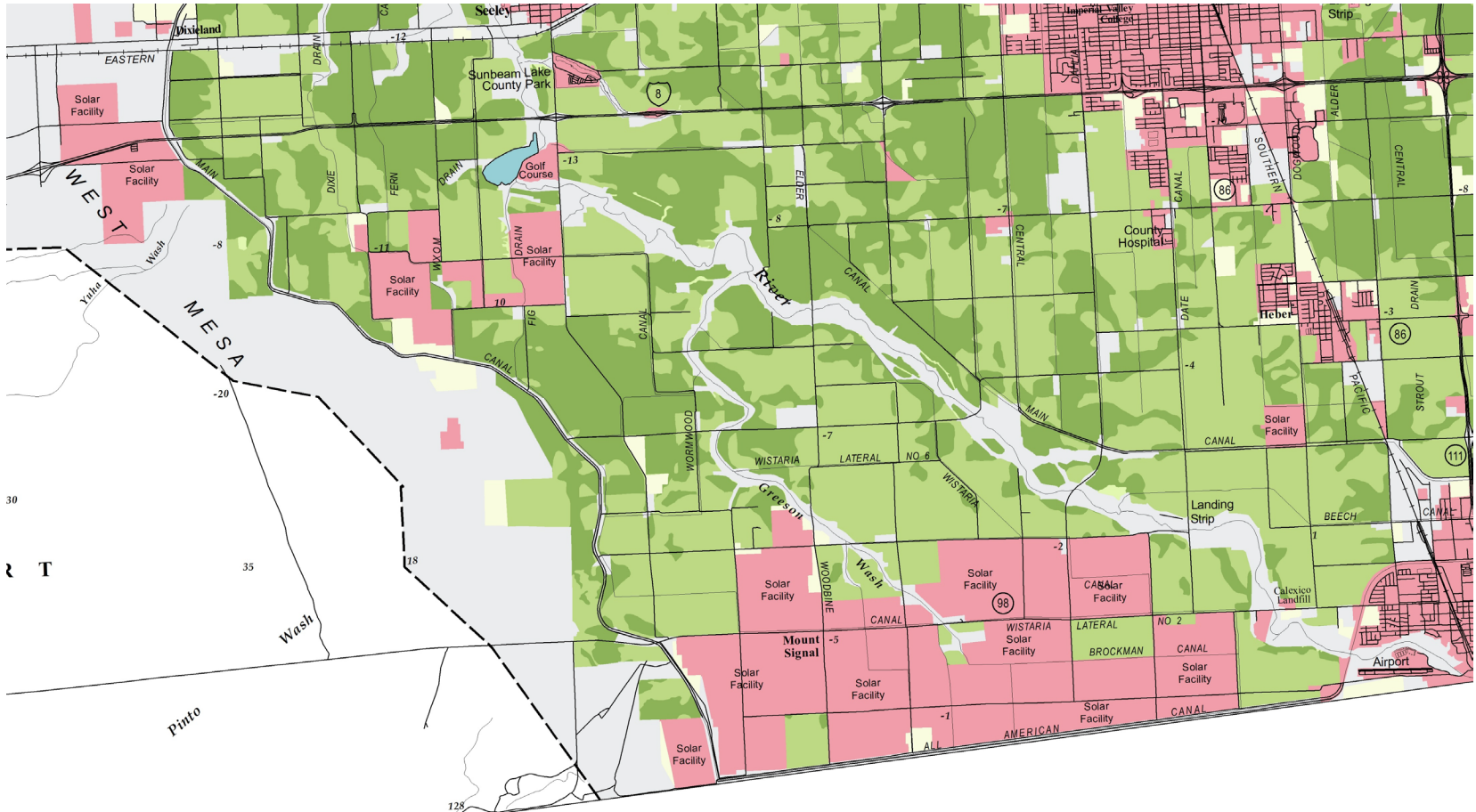




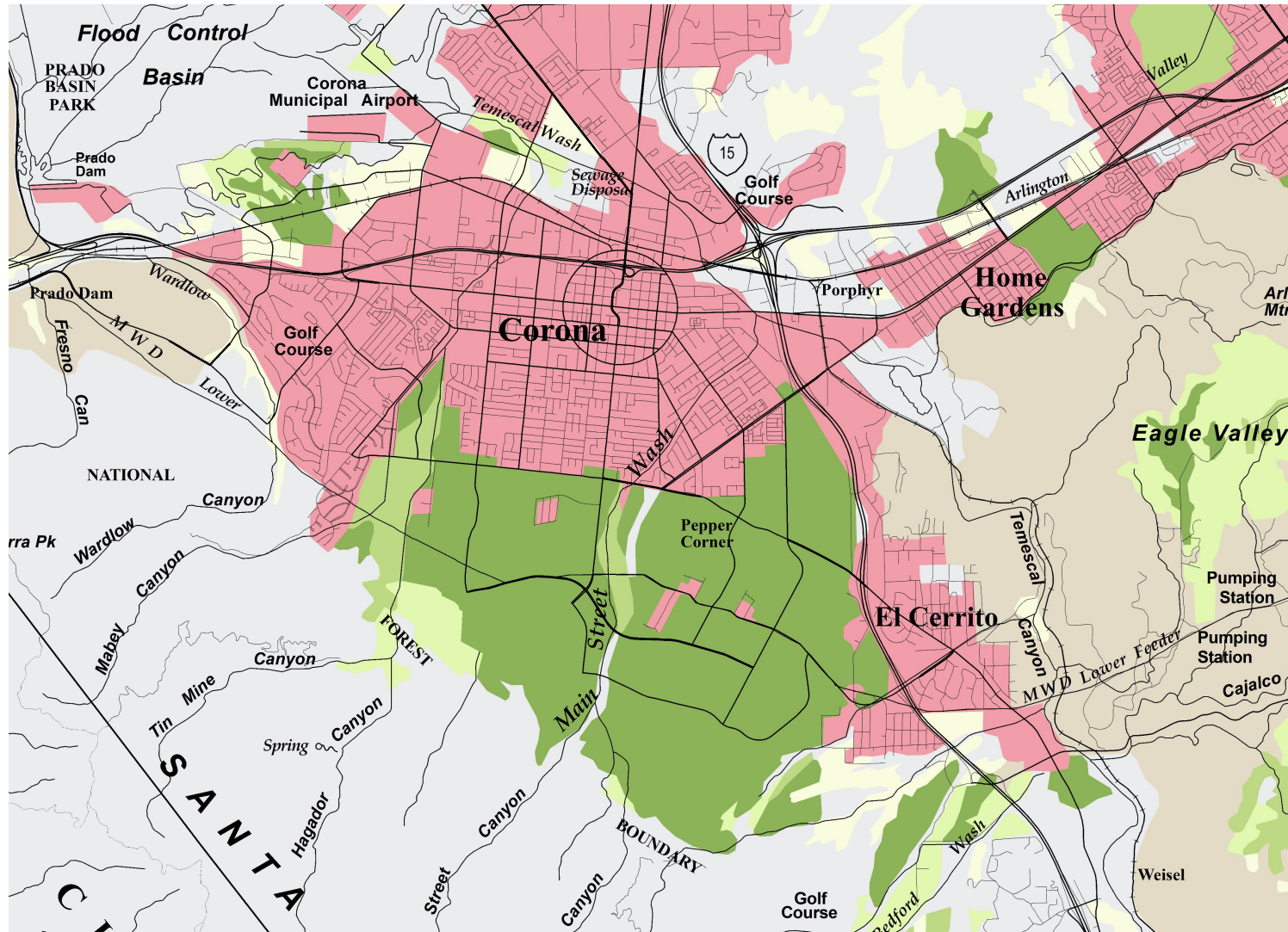
Solar, Imperial County 1984



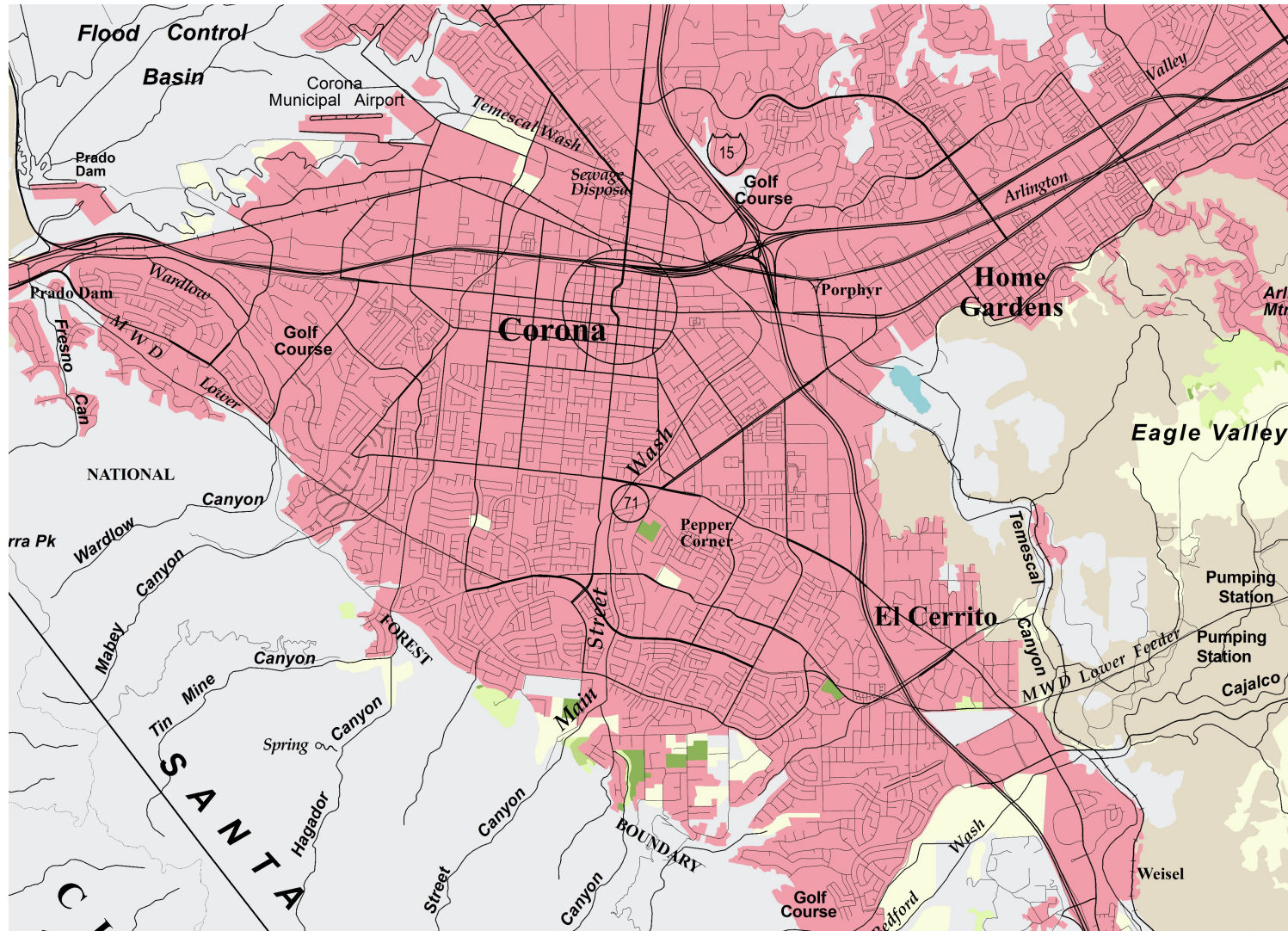
Solar, Imperial County 2020



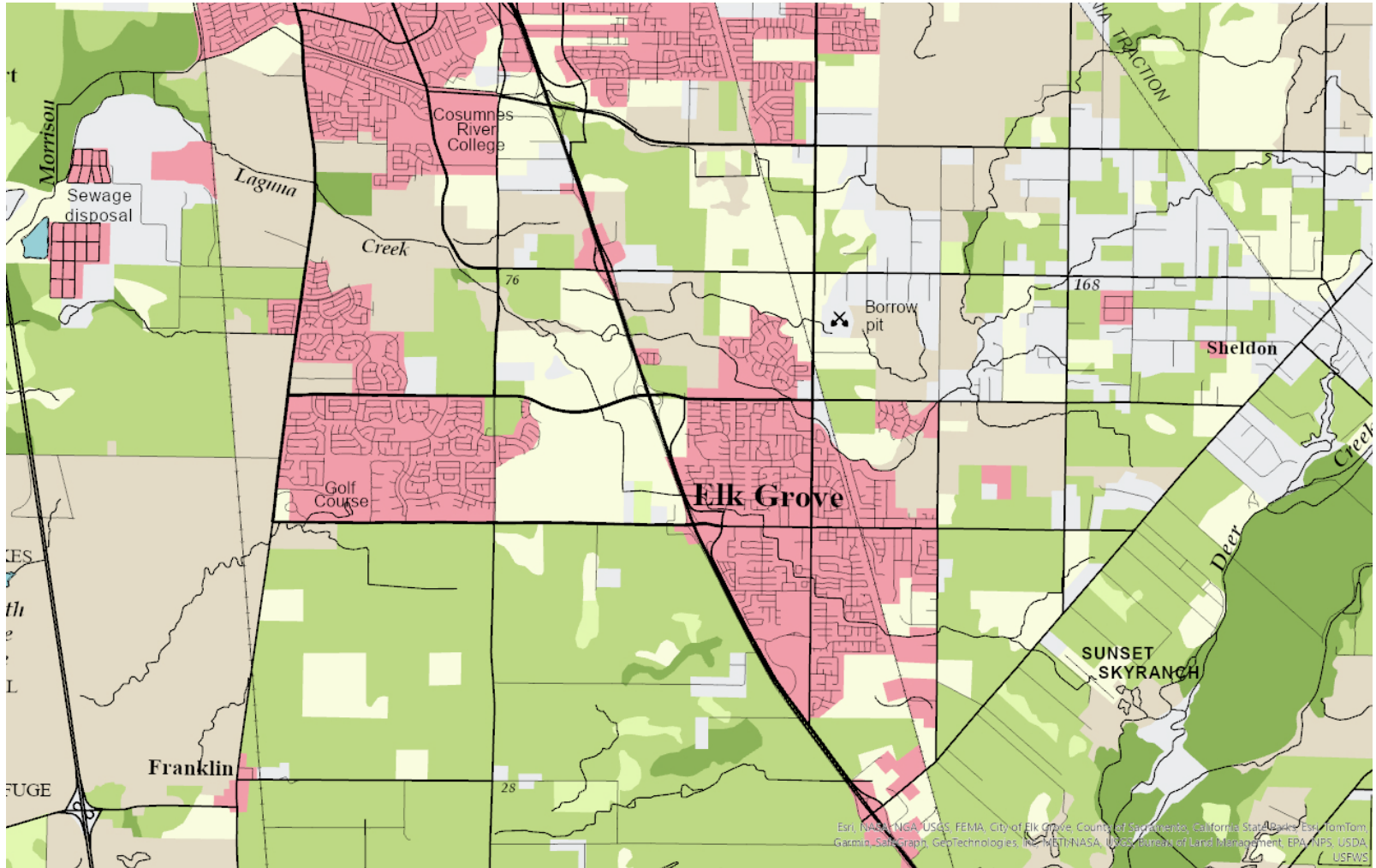
Corona, Riverside County 1984



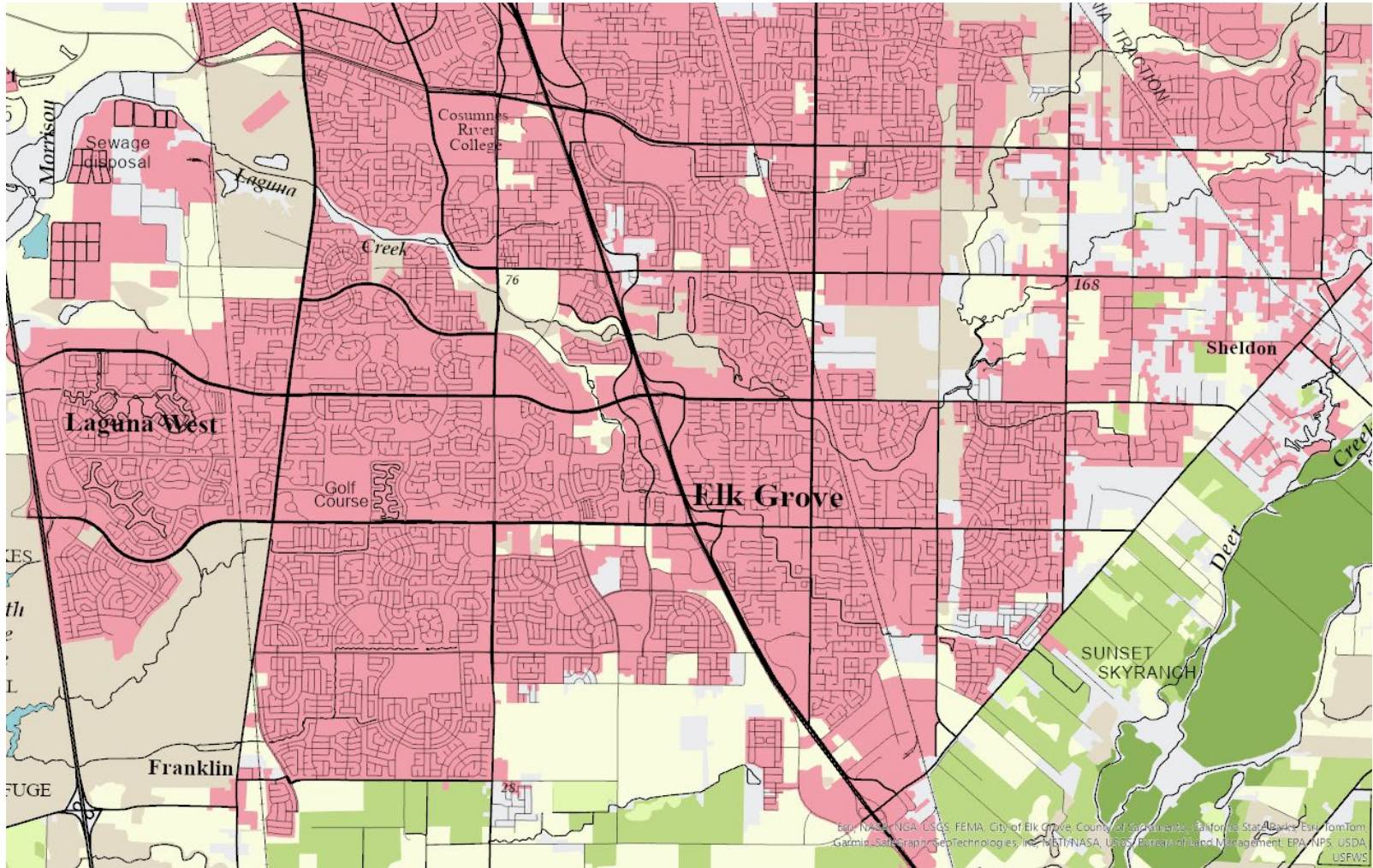
Corona, Riverside County 2018



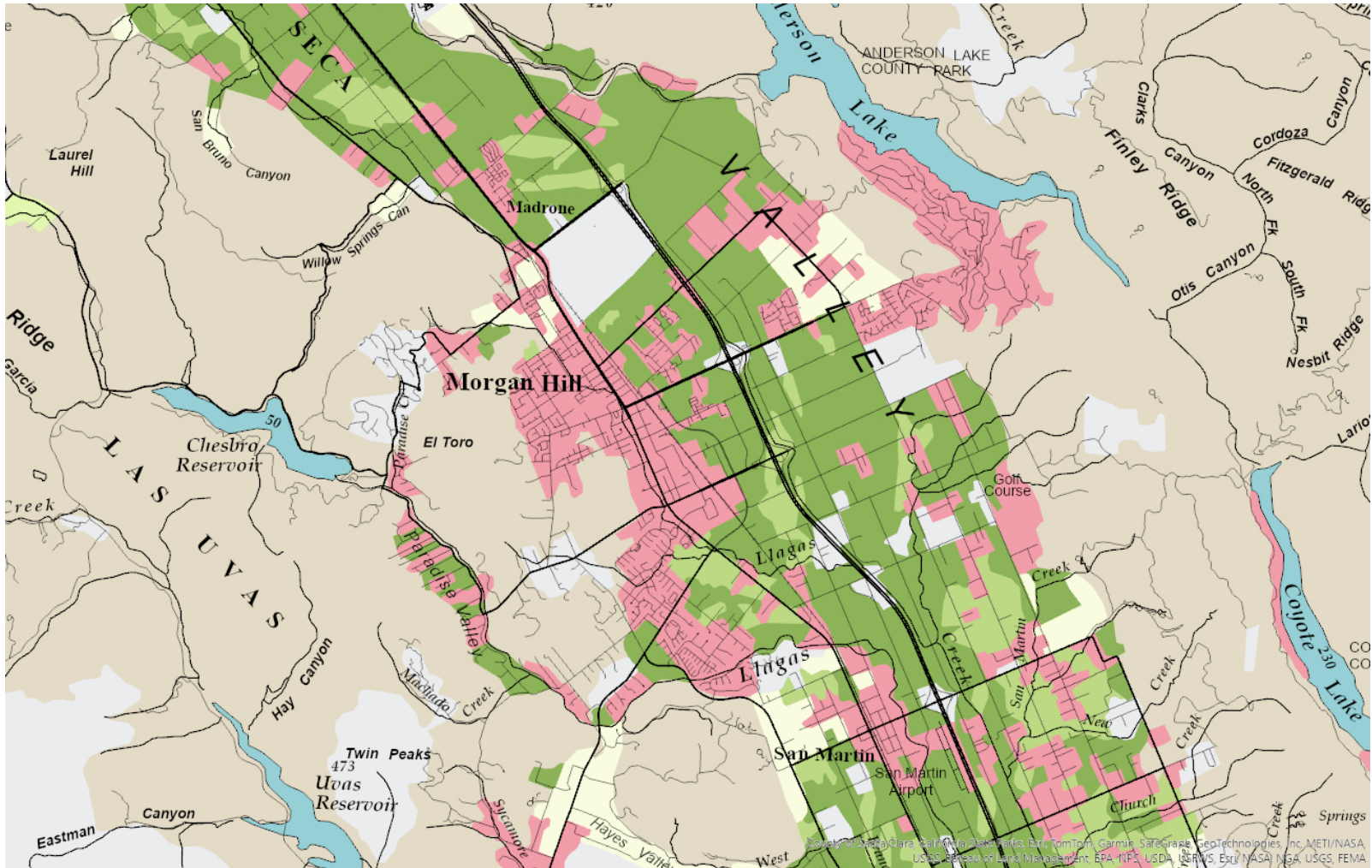
Elk Grove, Sacramento County 1988



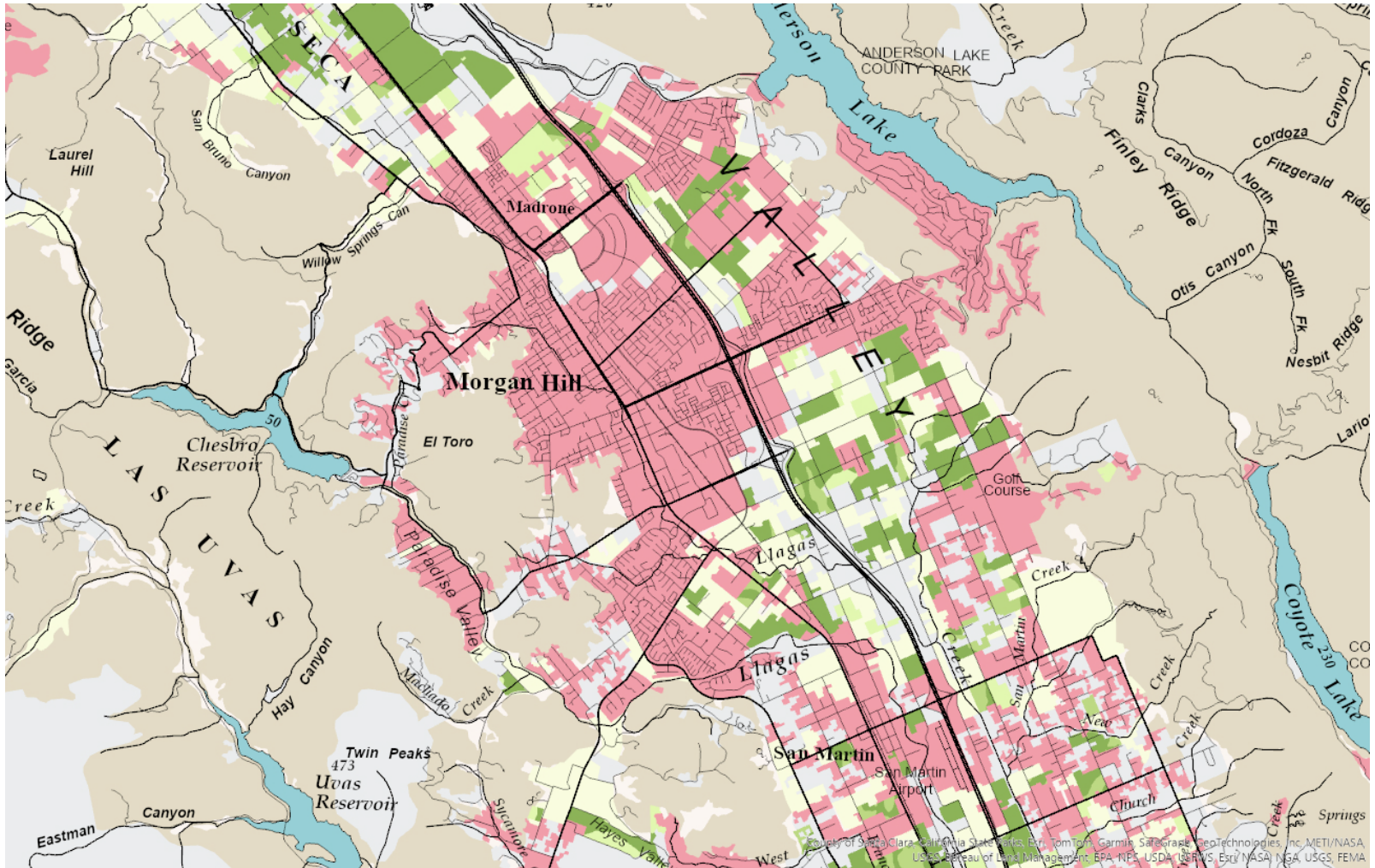
Elk Grove, Sacramento County 2020



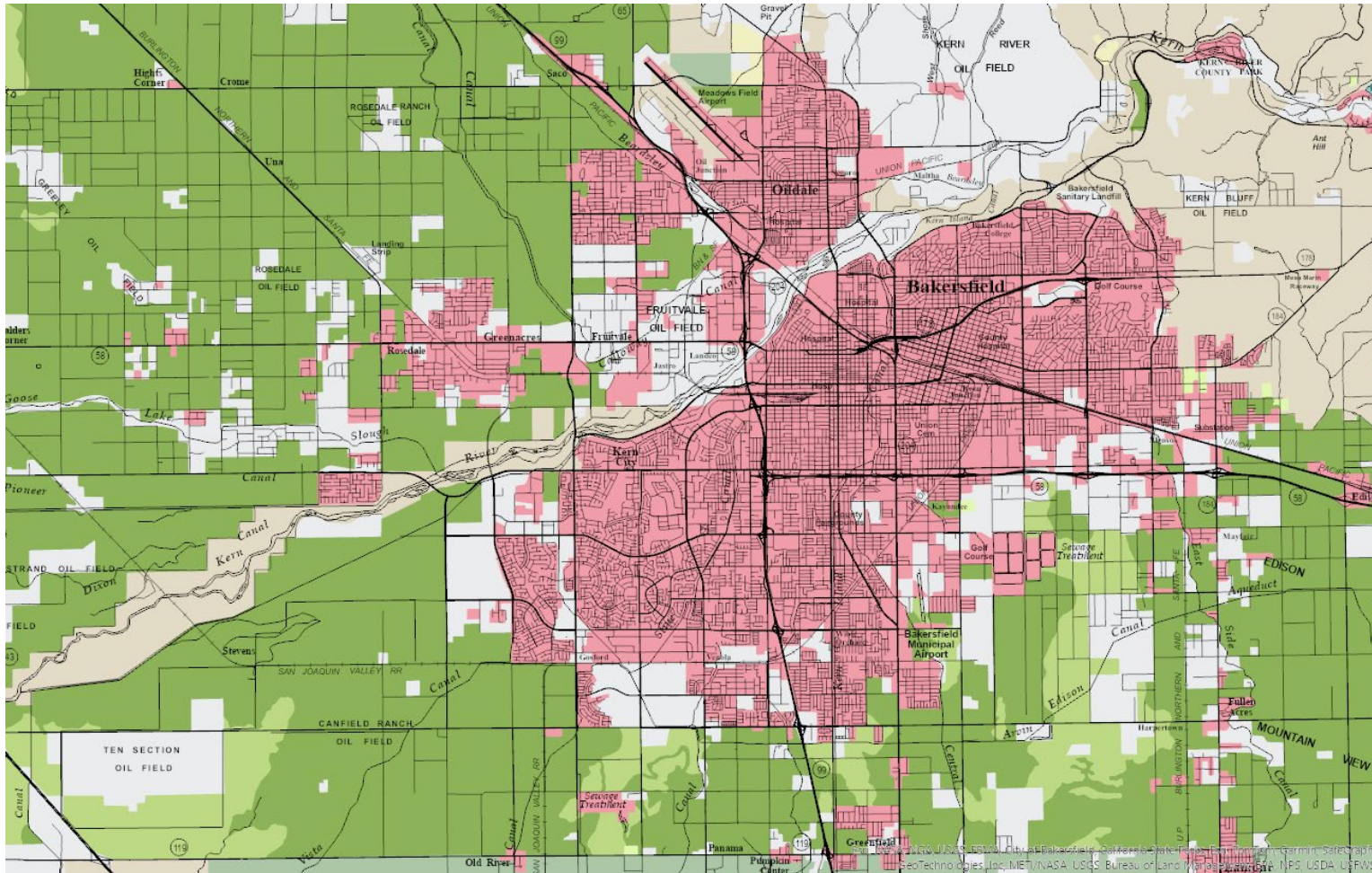
Morgan Hill, Santa Clara County 1988



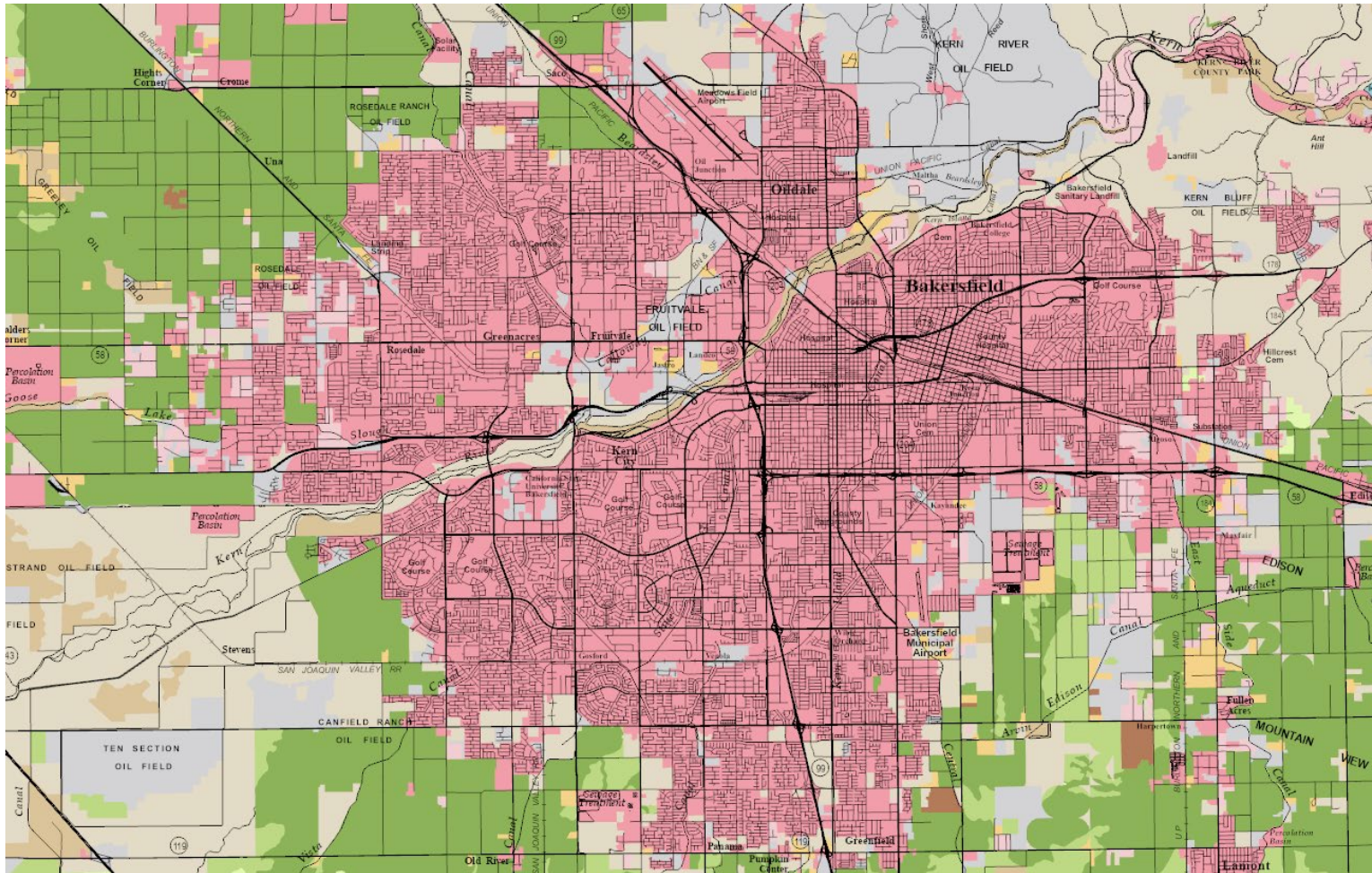
Morgan Hill, Santa Clara County 2020



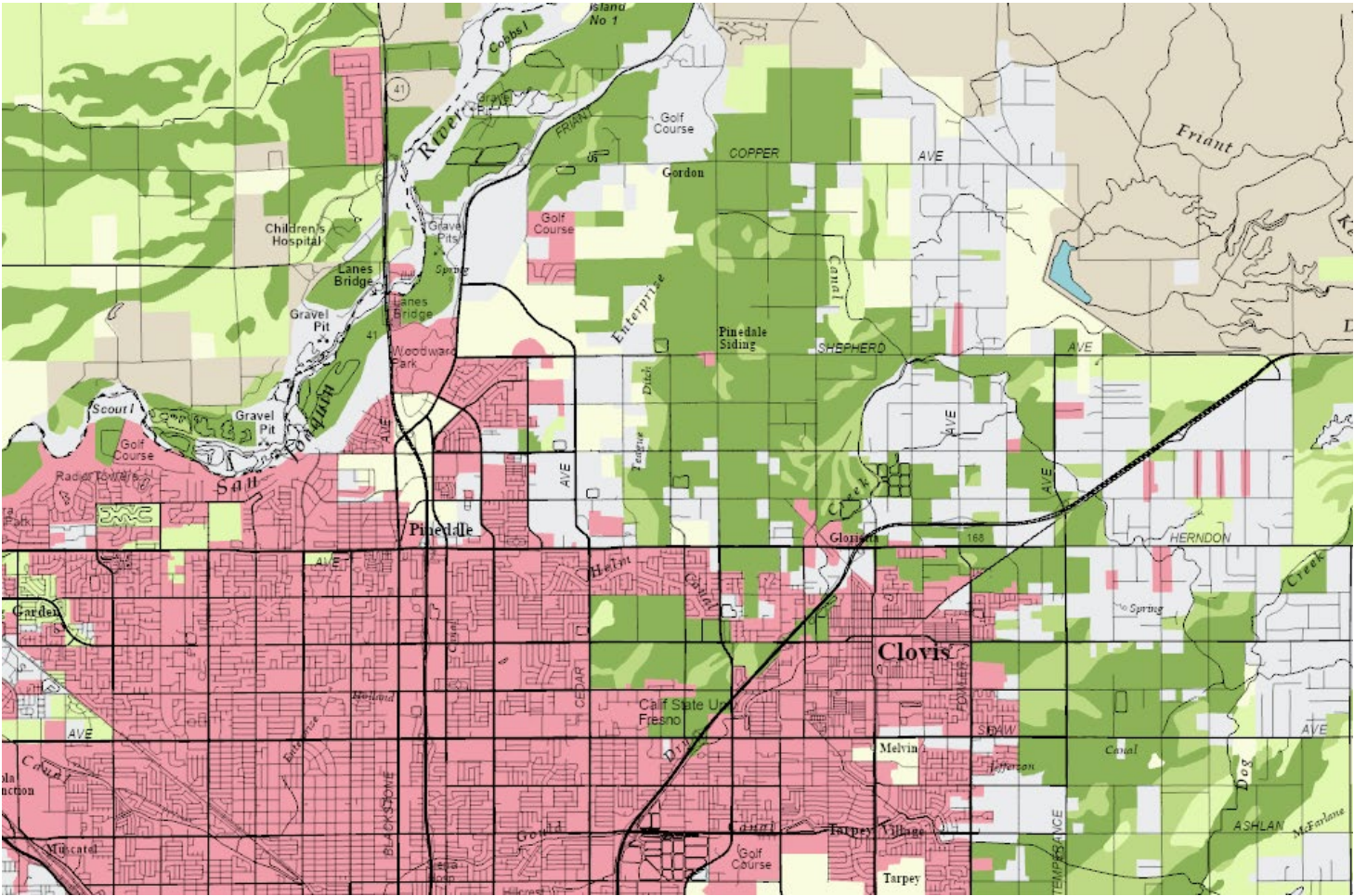
Bakersfield, Kern County 1988



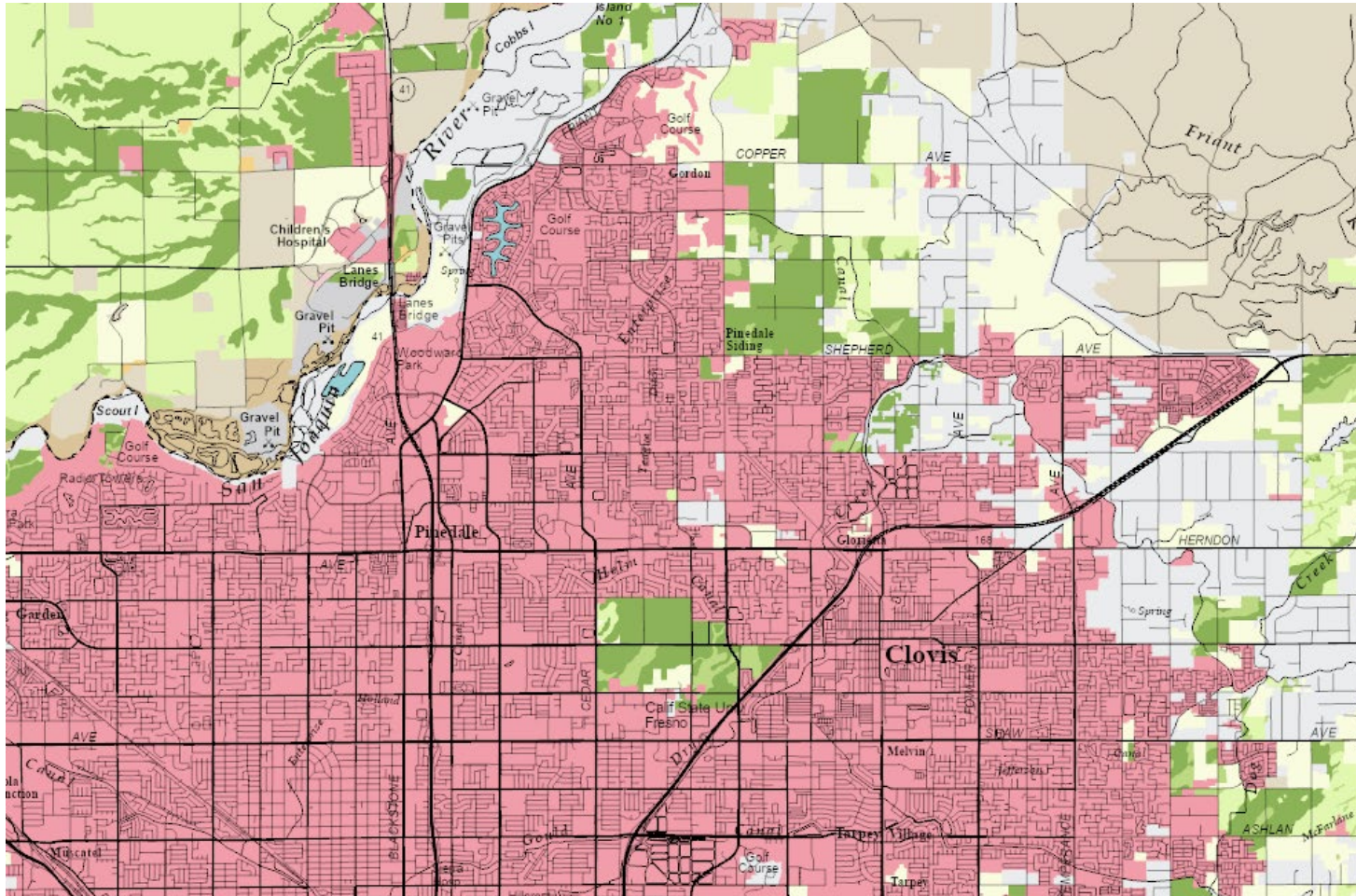
Bakersfield, Kern County 2020



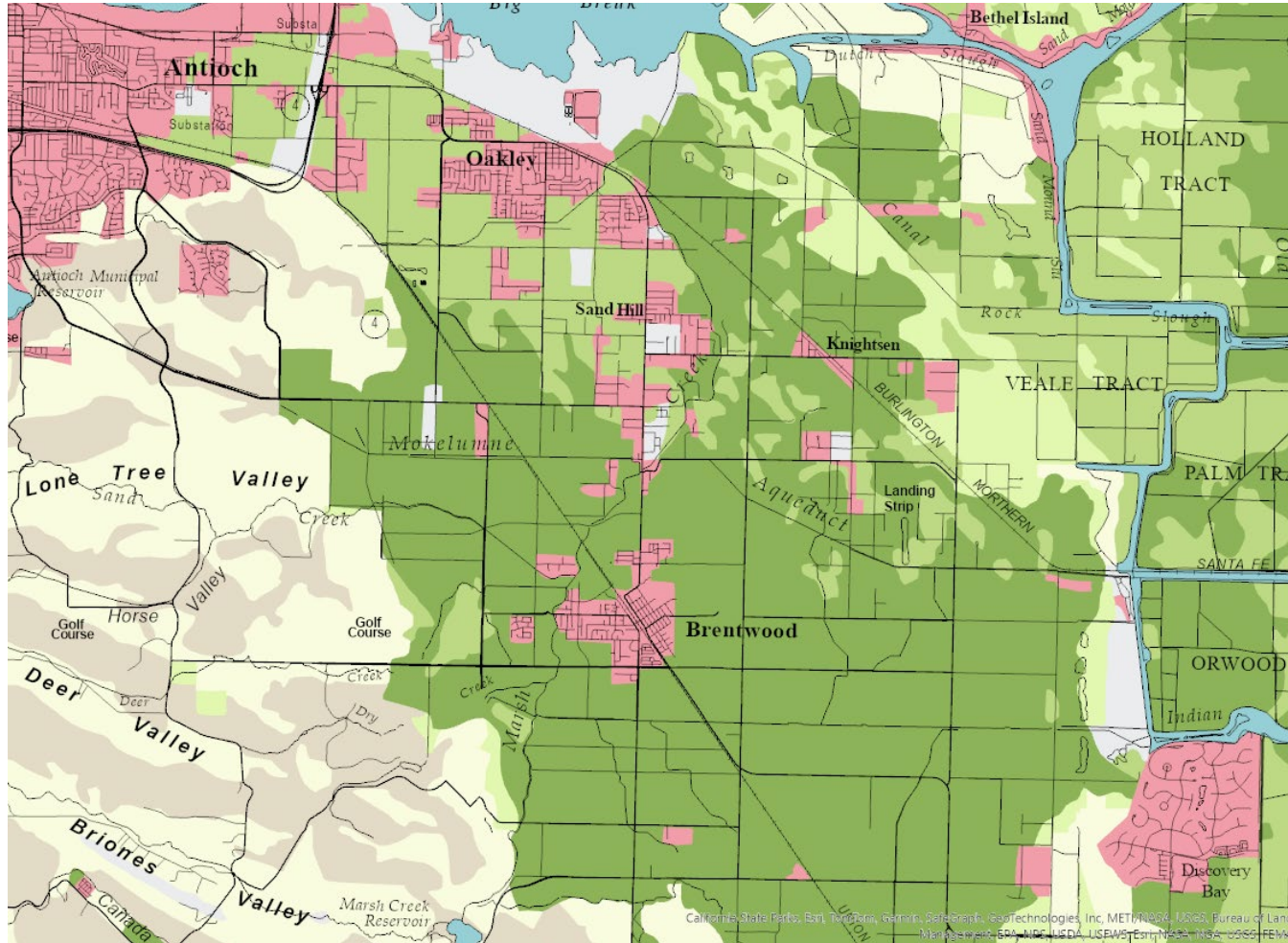
Clovis, Fresno County 1984



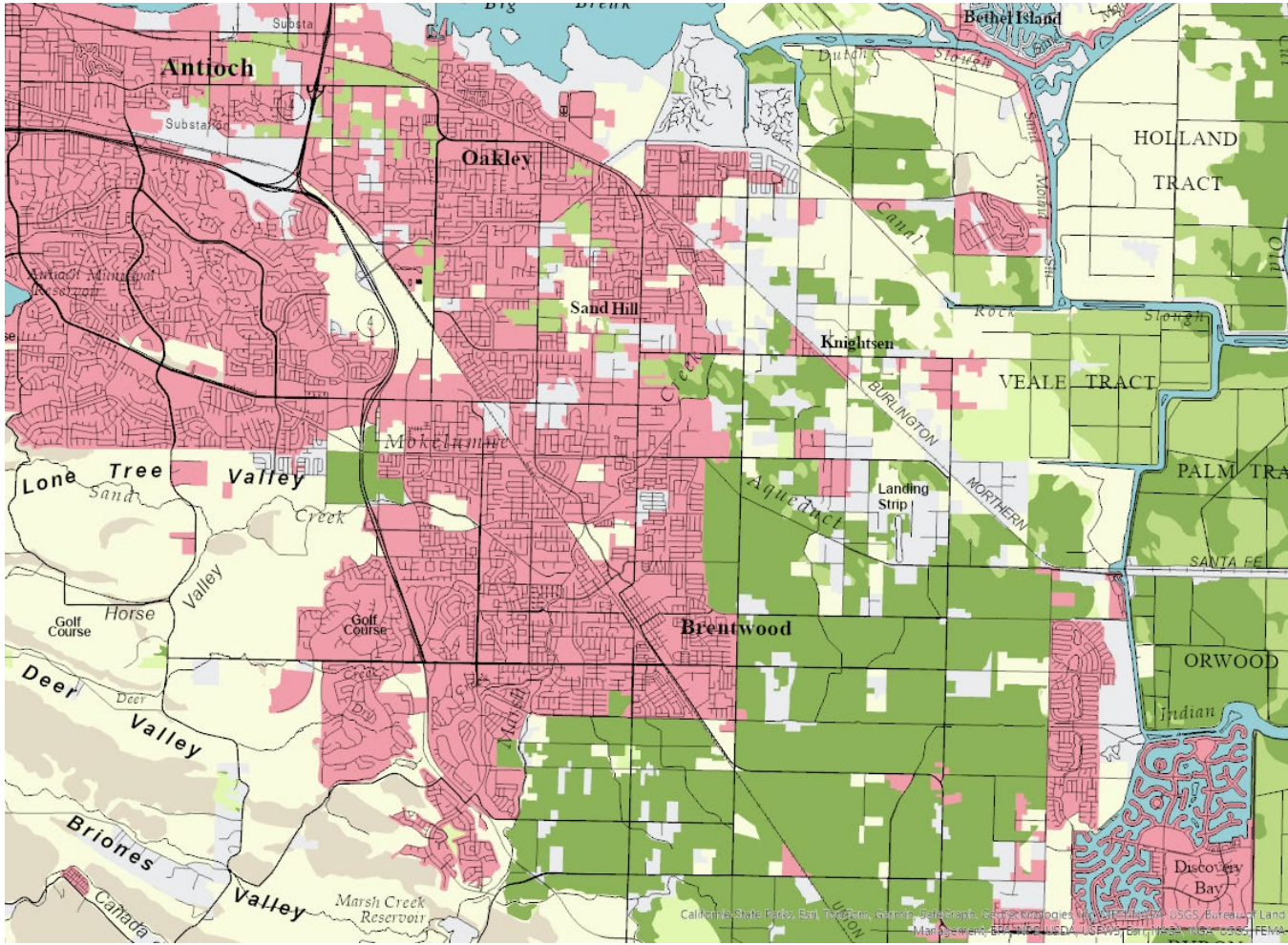
Clovis, Fresno County 2020



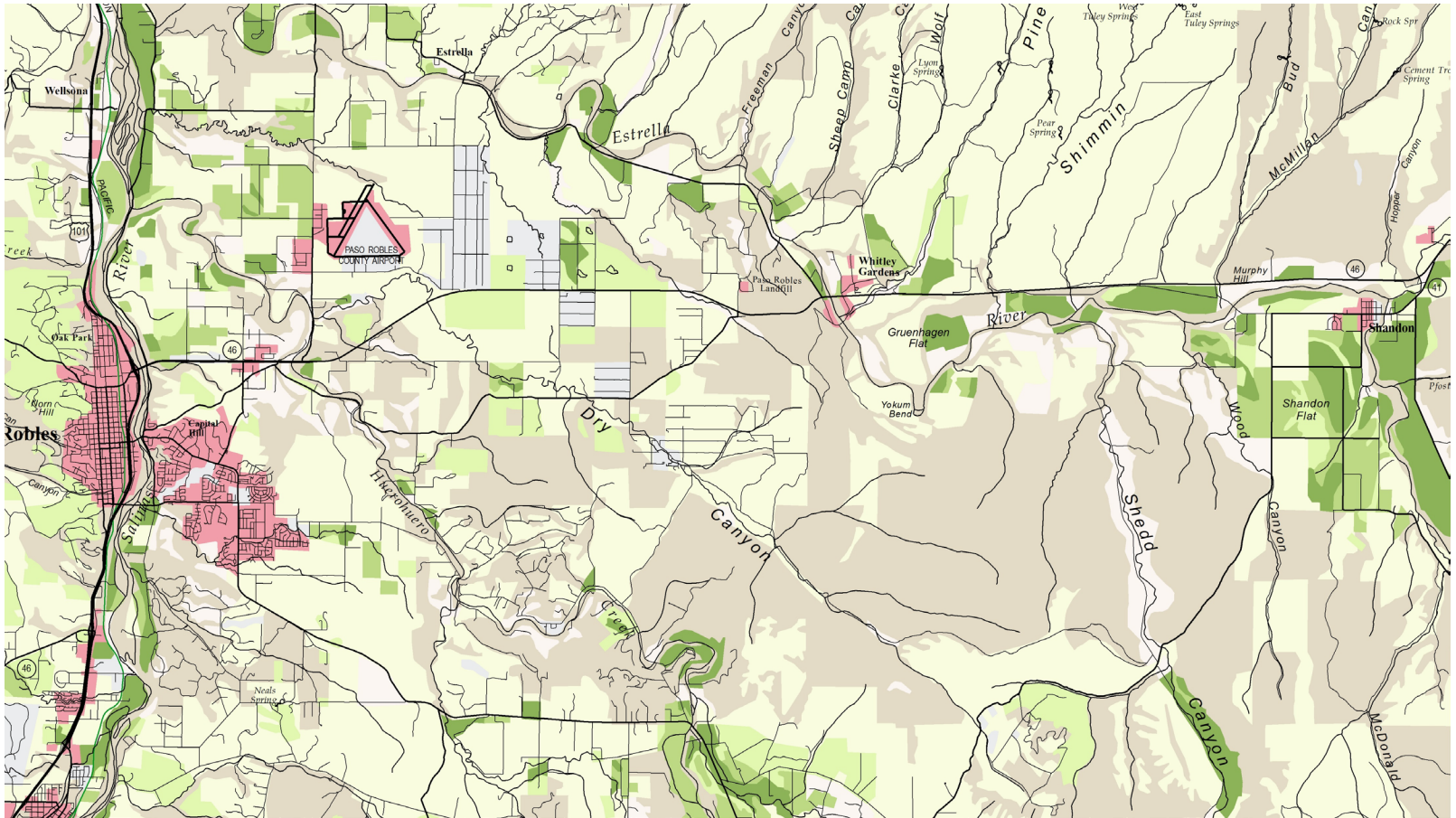
Brentwood, Contra Costa County 1984



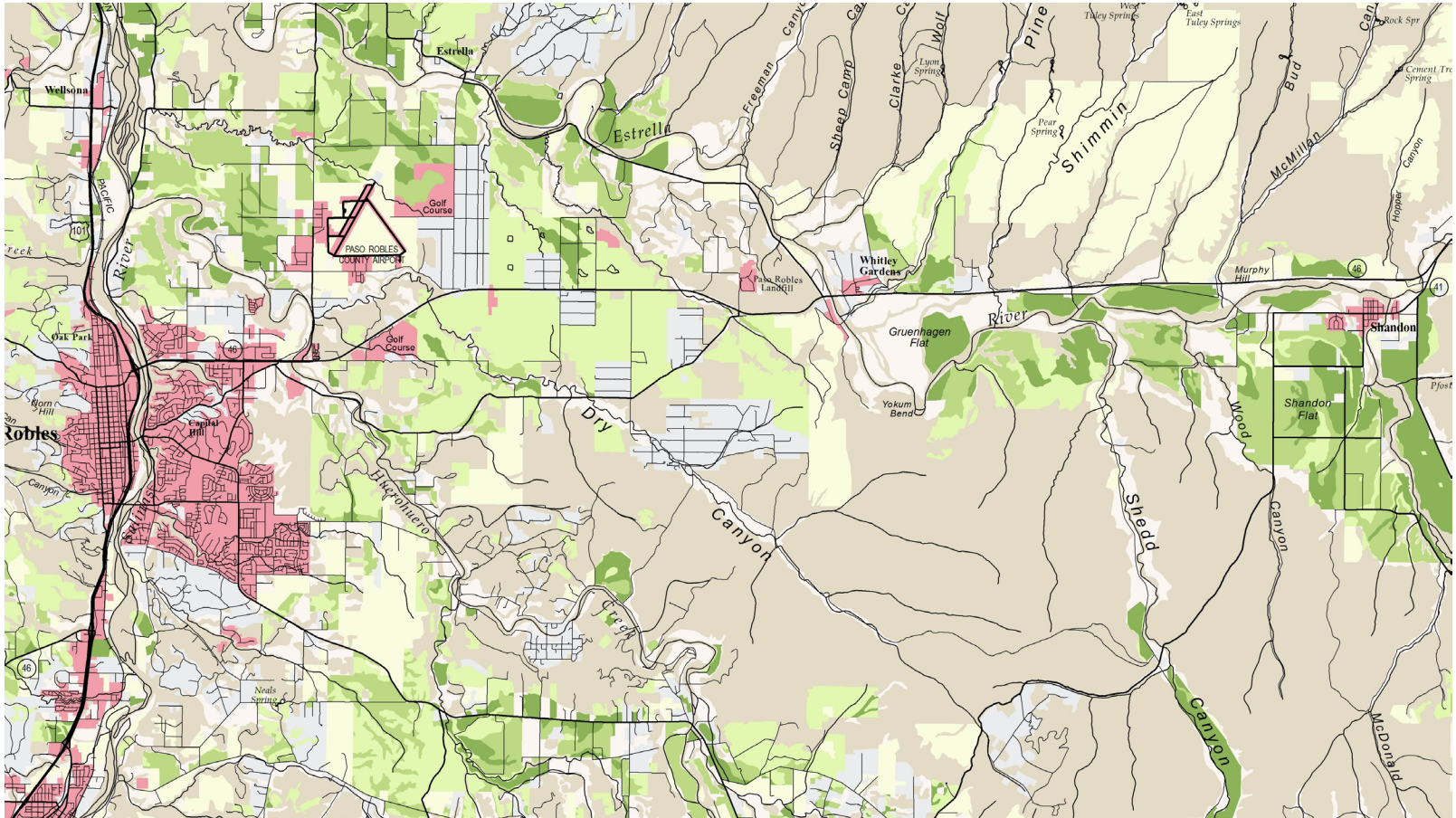
Brentwood, Contra Costa County 2020



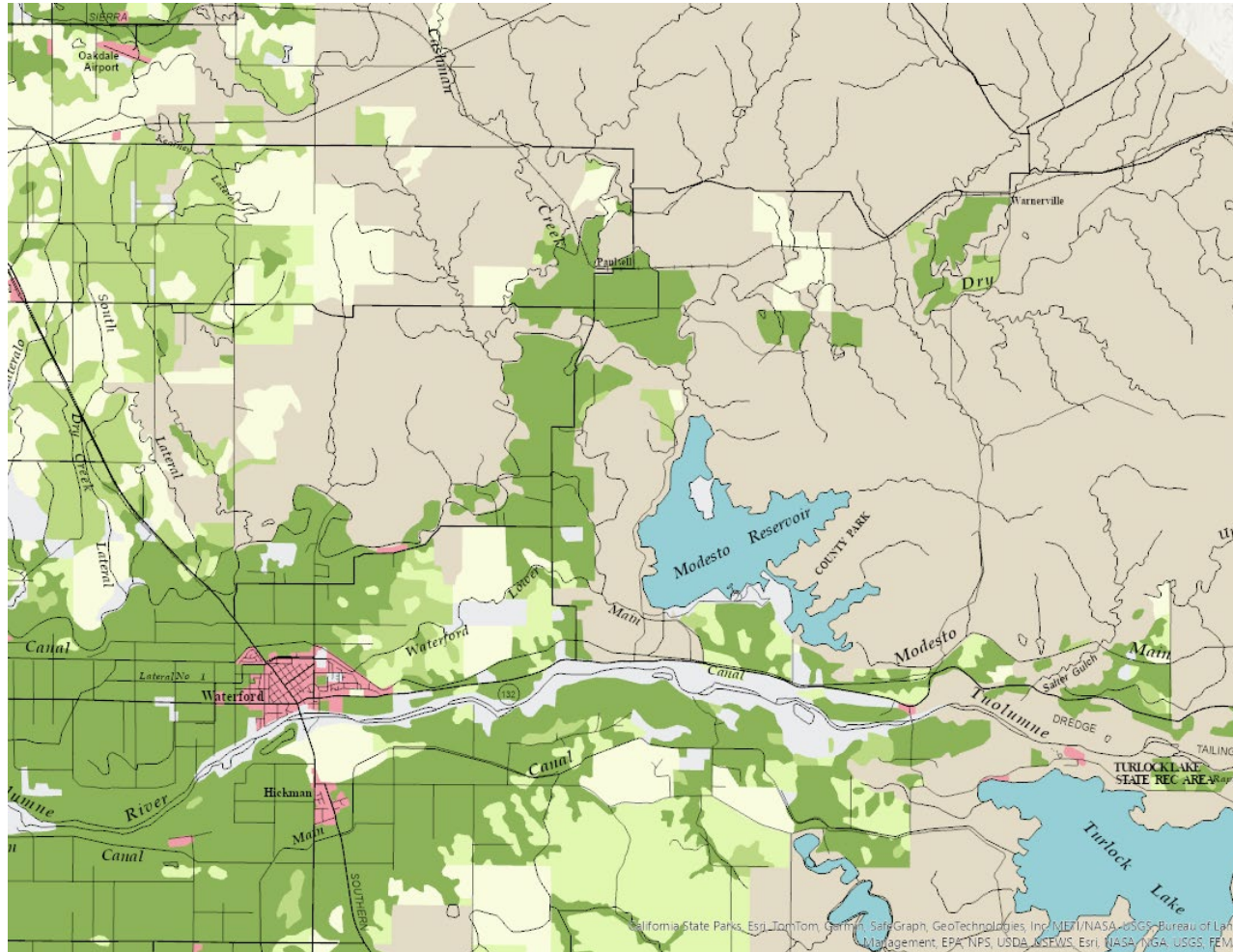
Paso Robles, San Luis Obispo County 1988



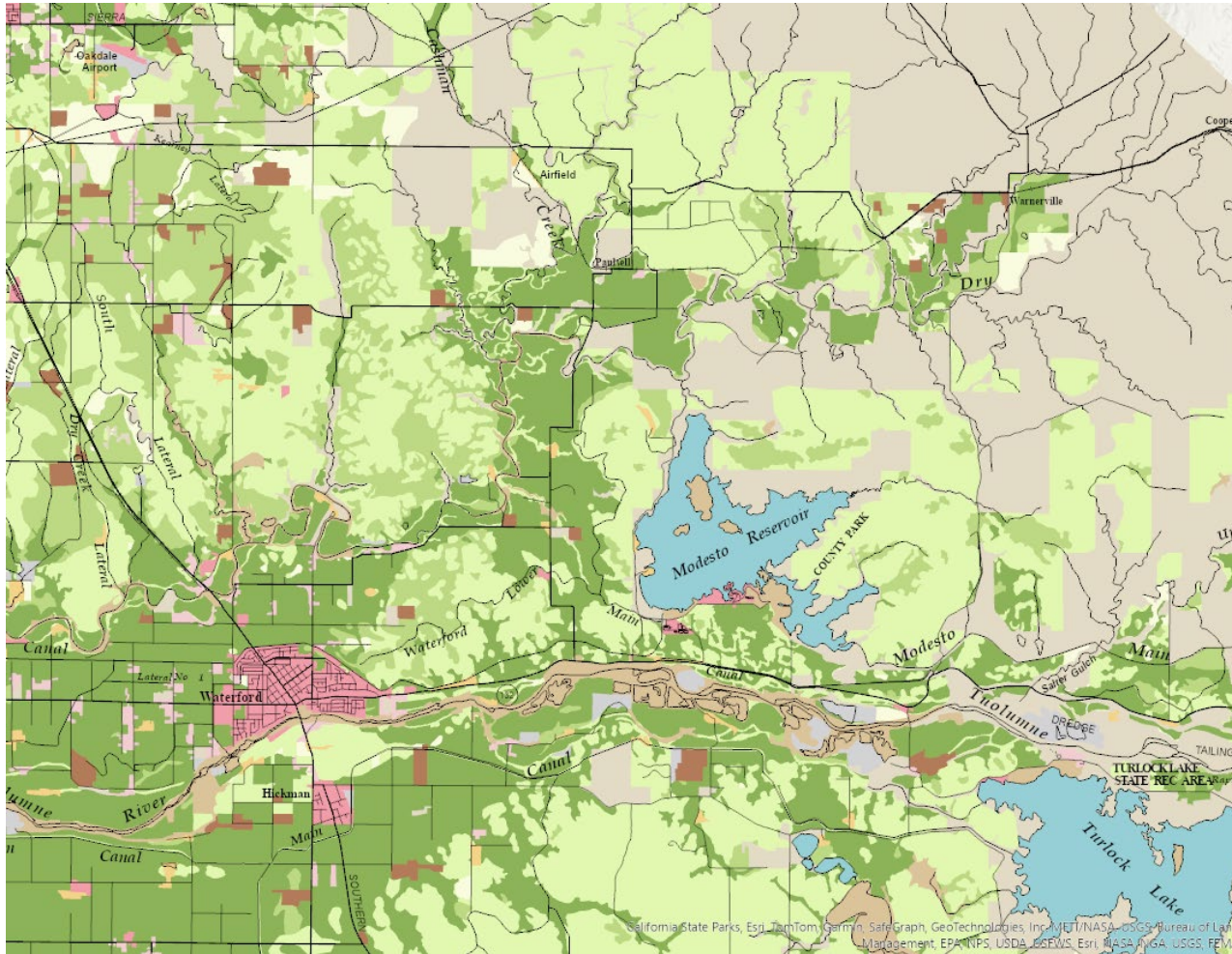
Paso Robles, San Luis Obispo County 2018



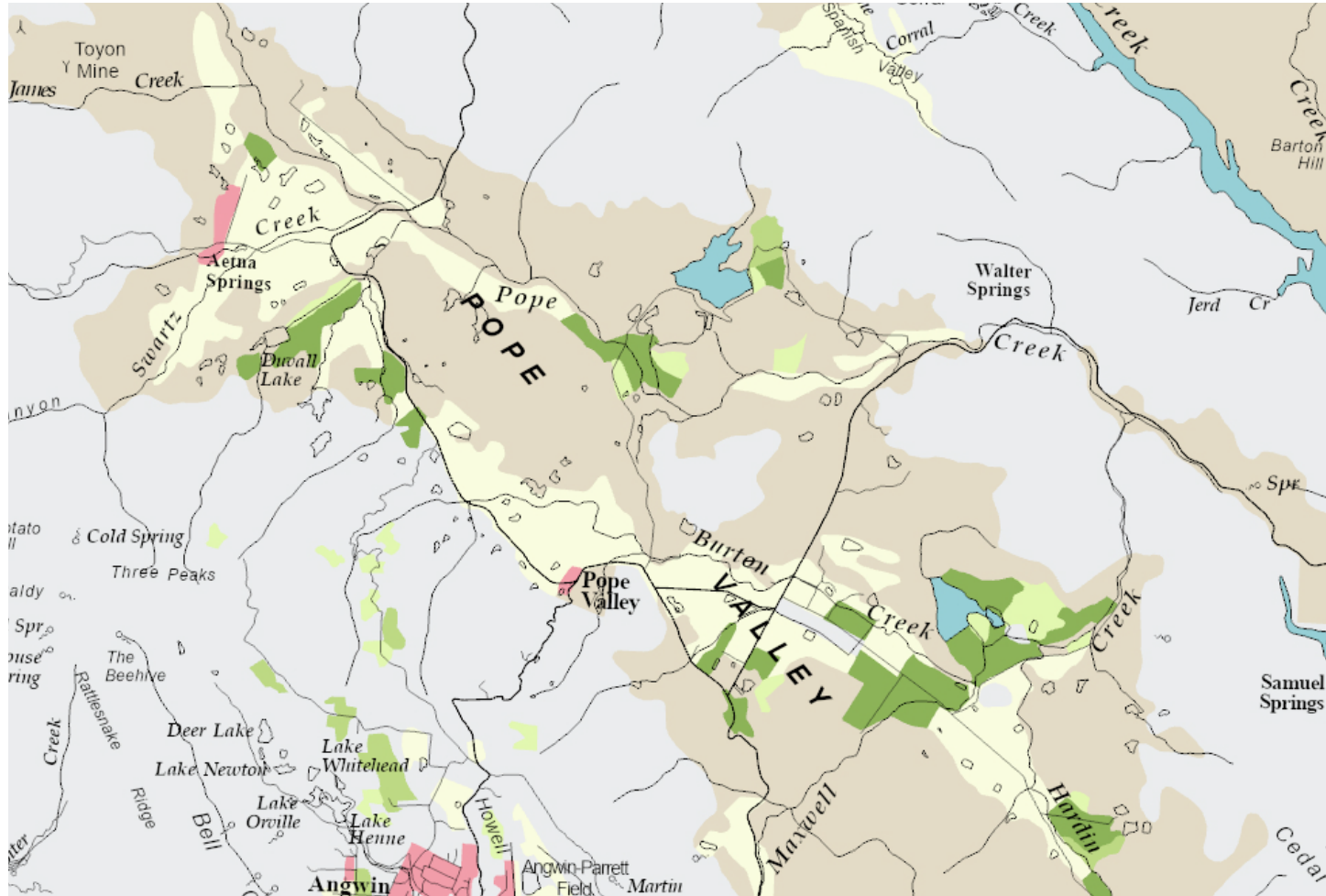
Eastern Stanislaus County 1984



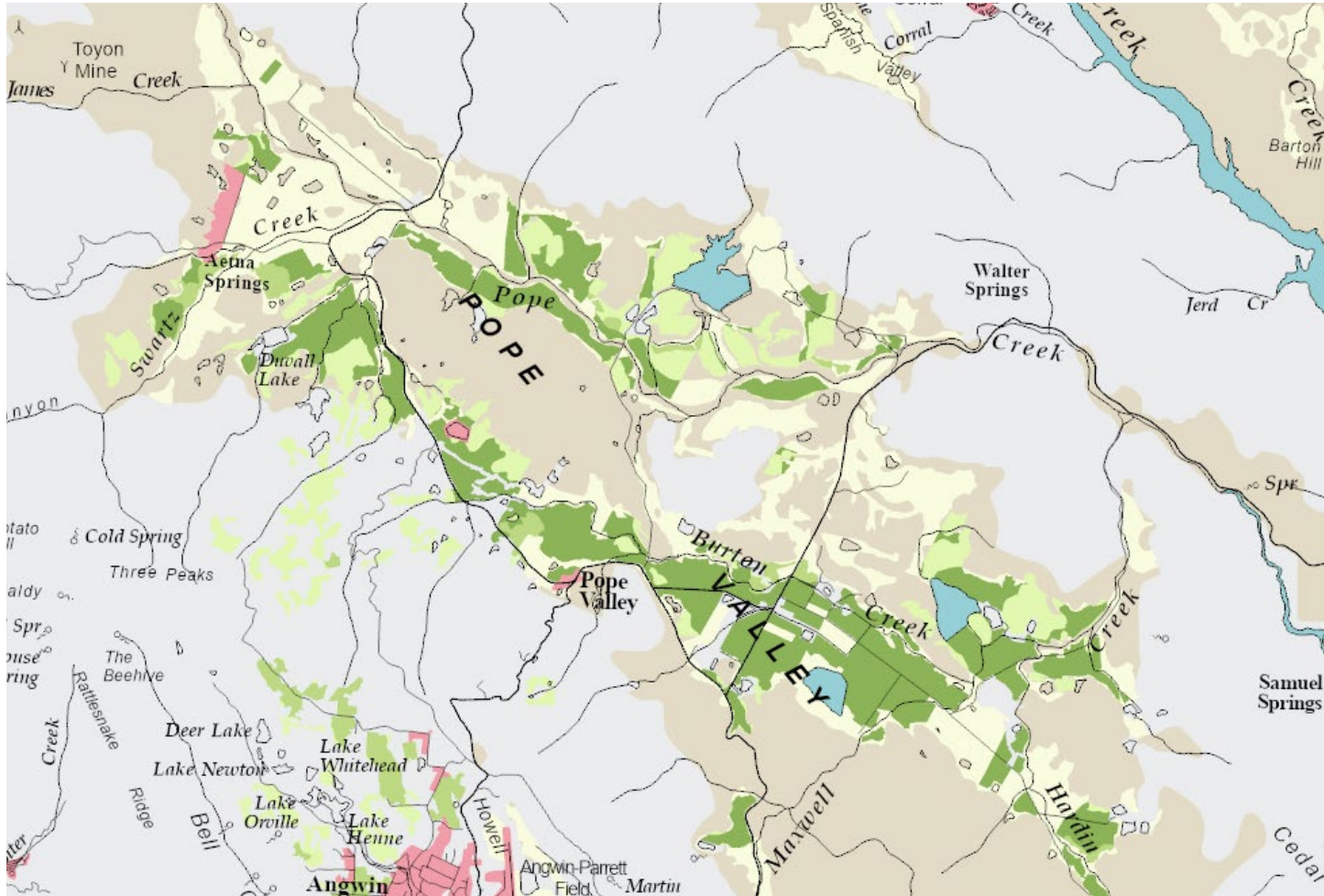
Eastern Stanislaus County 2020



Pope Valley, Napa County 1984



Pope Valley, Napa County 2020





Farmland Mapping & Monitoring Program



<https://www.conservation.ca.gov/dlrp/fmmp>
fmmp@conservation.ca.gov

Photo: M. Kisko



References

U.S. Department of Agriculture, Natural Resources Conservation Service, Gridded Soil Survey Geographic (gSSURGO) Database.

<https://www.nrcs.usda.gov>

U.S. Department of Agriculture, Farm Services Agency, National Agricultural Imagery Program.

<https://www.fsa.usda.gov>



Photo: M. Kisko