Table 2-1. Population for 1990-2010, Cities and Township, Santa Rosa Plain

City or Township	1990	2000	2010
Santa Rosa	113,313	147,595	167,302
Rohnert Park	36,326	42,236	40,952
Cotati	5,714	6,471	7,258
Sebastopol	7,004	7,774	7,380
Town of Windsor	13,371	22,744	26,751
Totals	**175,728**	**226,820**	**249,643**

1 – Modified from U.S. Census Bureau (2010a)
2 – Modified from U.S. Census Bureau (2010b)

Table 2-2. Land Use Survey Data Summary – 1974 to 2008

LAND USE TYPE	LAND USE SURVEY YEARS									
	1974		1979		1986		1999		2008	
Single Use	Acres	Miles^2	Acres	Miles^2	Acres	Miles^2	Acres	Miles^2	Acres	Miles^2
Urban and Residential	28,902	45	20,767	32	23,432	37	29,233	46	-	-
Commercial and Industrial	700	1	1,637	3	2,221	3	2,772	4	-	-
Total Agriculture	24,681	39	23,919	37	28,080	44	24,644	39	25,782	40
Irrigated	*7,298*	*11*	*10,058*	*16*	*12,003*	*19*	*19,040*	*30*	-	-
Non-Irrigated	*17,383*	*27*	*13,861*	*22*	*15,218*	*24*	*5,059*	*8*	-	-
Idle (Irrigated/Non-Irrigated)	*0*	*0*	*0*	*0*	*859*	*1*	*545*	*1*	-	-
Native Vegetation	112,637	176	102,664	160	93,555	146	93,909	147	-	-
Riparian	0	0	408	1	416	1	1,318	2	-	-
Water Surface	358	1	640	1	832	1	1,635	2	-	-
Unknown Designation	108	0	27	0	250	0	0	0	-	-
Mixed Use										
Lumped Mixed*	0	0	413	1	311	1	215	0	-	-
Urban/Residential/Native Vegetation	0	0	16,458	26	16,080	25	13,967	22	-	-
Urban/Residential/Native Vegetation/Non-Irrigated Agriculture	0	0	156	0	2,082	3	415	1	-	-
Urban/Residential/Riparian/Water Surface	0	0	0	0	0	0	87	0	-	-
Total Single & Mixed Use Urban/Residential	*28,902*	*45*	*37,381*	*58*	*46,242*	*72*	*43,615*	*68*	-	-
TOTALS	167,386	262	167,089	261	167,259	261	167,595	262	-	-

Lumped Mixed – Irrigated Agriculture/Urban/Residential; Irrigated Agriculture/Native Vegetation; Irrigated Agriculture/Urban/Residential/Native Vegetation; Non-Irrigated Agriculture/Native Vegetation; Non-Irrigated Agriculture/Urban/Residential.

Table 2-3. Water Supplied to Contractors in the Plan Area

Retail Customer	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
City of Cotati	913	1,101	1,048	1,051	886	768	657	664	535	499
City of Rohnert Park	2,646	4,920	5,014	5,216	4,364	4,300	2,442	3,066	3,625	3,747
City of Santa Rosa	22,734	24,324	22,596	23,897	22,765	22,434	19,400	17,912	17,986	18,302
Town of Windsor[(1)]	4,091	4,488	3,907	4,336	4,519	4,425	3,855	3,447	3,566	3,826
Cal-American Water	453	512	538	509	543	453	322	359	389	313
Penngrove Water Co	206	238	211	227	227	222	204	179	178	185
Total	**30,384**	**34,834**	**32,565**	**34,501**	**32,534**	**31,926**	**26,354**	**25,089**	**25,711**	**26,374**

Notes:

All values in acre-feet per water year

1 - Deliveries to Town of Windsor include water diverted by the Town of Windsor under the Water Agency's water rights

Table 2-4. Hydrogeologic Units éÎ ÔÈÅ OÌÁÎ !ÒÅÁ.

Hydrogeologic Unit	Geologic Age	Age in Million Years	Mapped Geologic Units	Estimated Thickness in feet	Specific Yield (percent)	Depositional Environment	Lithologic Description
Quaternary Deposits	Quaternary	1.8 to Present	Younger and older alluvium, alluvial fan and terrace deposits.	0-550	8 to 17	Stream channel; flood-plain; alluvial fans; lacustrine.	Gravel; sand and gravel; sand; clay; sand and clay.
Glen Ellen Formation	Early Pleistocene (?) and Pliocene.	0.011 to 5.3	Glen Ellen Formation, Huichica Formation, and other unnamed Tertiary Continental deposits.	0-600	3 to 7	Continental, piedmont; alluvial fans; local lacustrine.	Clay and sand; clay and gravel; sand; sand and gravel; tuff; conglomerate.
Wilson Grove Formation	Late Pliocene to Late Miocene	1.8 to 23.0	Include rocks formerly assigned to Merced Formation.	0-2,700	10 to 20	Deep to shallow marine; locally transitional to continental environments.	Sand; sandstone; blue sandstone; clay, sand or gravel and shells; clay and sand.
Volcanic Rocks	Pliocene to Miocene	1.8 to 23.0	Includes Sonoma, Tolay, and Burdell Mountain volcanics.	0-3,000	0 to 15	___	Basalt; volcanic breccia; tuff.
Petaluma Formation	Pliocene to Late Miocene	1.8 to 23.0	Includes the Petaluma Formation.	0-3,000	3 to 7	Fluvial and lacustrine, estuarine and transitional marine environment.	Clay; clay and sand; shale; sand or sandstone.
Basement rocks	Pre-Miocene; predominantly Jurassic and Cretaceous	65.5 to 199.6	Includes the Franciscan Complex; Great Valley Complex and Coast Range Ophiolite.	>2,000	NA	___	Sandstone; greywacke; chert; serpentine.

Table 2-5. Streamflow Gaging Stations

SRPW Gage ID	USGS Gage ID	USGS Gage Name	Drainage Name	Drainage Area (mi2)	Operation Dates Begin	-------- End	Gage Status	Measured Parameter	Record Type
MWCW	11465500	Mark West Creek near Windsor	MWC	43.0	Oct-06	Apr-08	Inactive	Discharge	Seasonal
COPE	11465660	Copeland Creek at Rohnert Park	LSR	5.5	Oct-06	Apr-10	Active	Discharge	Seasonal
LAGC	11465680	Laguna de Santa Rosa near Cotati	LSR	40.8	Nov-98	Sep-10	Active	Discharge	Continuous
COLU	11465690	Colgan Creek near Santa Rosa	LSR	3.4	Oct-06	Apr-10	Active	Discharge	Seasonal
COLL	11465700	Colgan Creek near Sebastopol	LSR	6.8	Nov-98	Sep-10	Active	Discharge	Continuous
LAGS	11465750	Laguna de Santa Rosa near Sebastopol	LSR	79.6	Nov-98	Sep-10	Active	Discharge	Continuous
SRCU	11465800	Santa Rosa Creek near Santa Rosa	SRC	12.5	Aug-59	Oct-70	Inactive	Discharge	Continuous
BRSH	11466065	Bush Creek at Santa Rosa	SRC	10.1	Oct-05	Apr-10	Inactive	Discharge	Seasonal
					Nov-02	May-05		Stage	Seasonal
MATC	11466170	Matanzas Creek at Santa Rosa	SRC	21.0	Oct-04	Apr-10	Active	Discharge	Seasonal
					Nov-02	Apr-04		Stage	Seasonal
SRCS	11466200	Santa Rosa Creek at Santa Rosa	SRC	57.0	Oct-39	Apr-10	Active	Discharge	Mixed
					Oct-04	May-05		Stage	Seasonal
SRCW	11466320	Santa Rosa Creek at Willowside Rd	SRC	77.6	Dec-98	Sep-10	Active	Discharge	Continuous
MWCM	11466800	Mark West Creek near Mirabel Heights	MWC	251.0	Oct-05	Oct-10	Inactive	Discharge	Continuous
SRCA	11466080	Santa Rosa Creek at Alderbrook Dr	SRC		Oct-97	Apr-10	Inactive	Stage	Seasonal
SRCM	11466050	Santa Rosa Creek at Mission Blvd	SRC		Nov-97	Apr-10	Active	Stage	Seasonal
LAGG	11466500	Laguna de Santa Rosa near Graton	MWC	166.0	Nov-64	Sep-10	Inactive	Stage	Periodic
RUSG	11467000	Russian River near Guerneville	RR	1338.0	Oct-39	Jan-09	Active	Discharge	Continuous
RUSH	11464000	Russian River near Healdsburg	RR	793.0	Oct-39	Sep-10	Active	Discharge	Continuous
NAPH	11456000	Napa River near St Helena	NR	78.8	Oct-29	Sep-10	Active	Discharge	Continuous
NAPN	11458000	Napa River near Napa	NR	218.0	Oct-29	Sep-10	Active	Discharge	Continuous
SCAC	11458500	Sonoma Creek at Agua Caliente	SC	58.4	Feb-55	Sep-10	Active	Discharge	Continuous

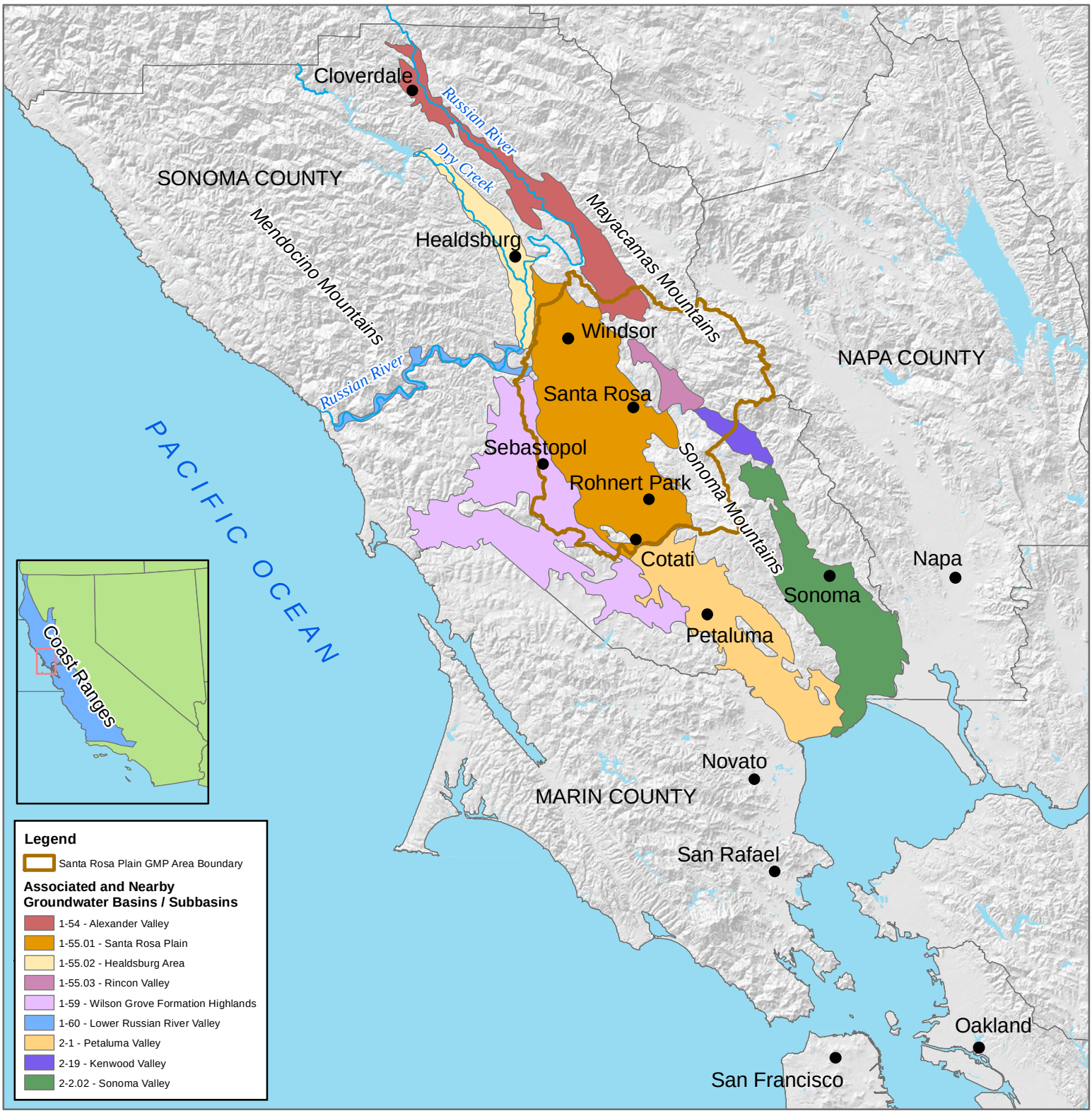
LSR - Laguna De Santa Rosa

MWC - Mark West Creek

NR - Napa River

RR - Russian River

Santa Rosa Creek

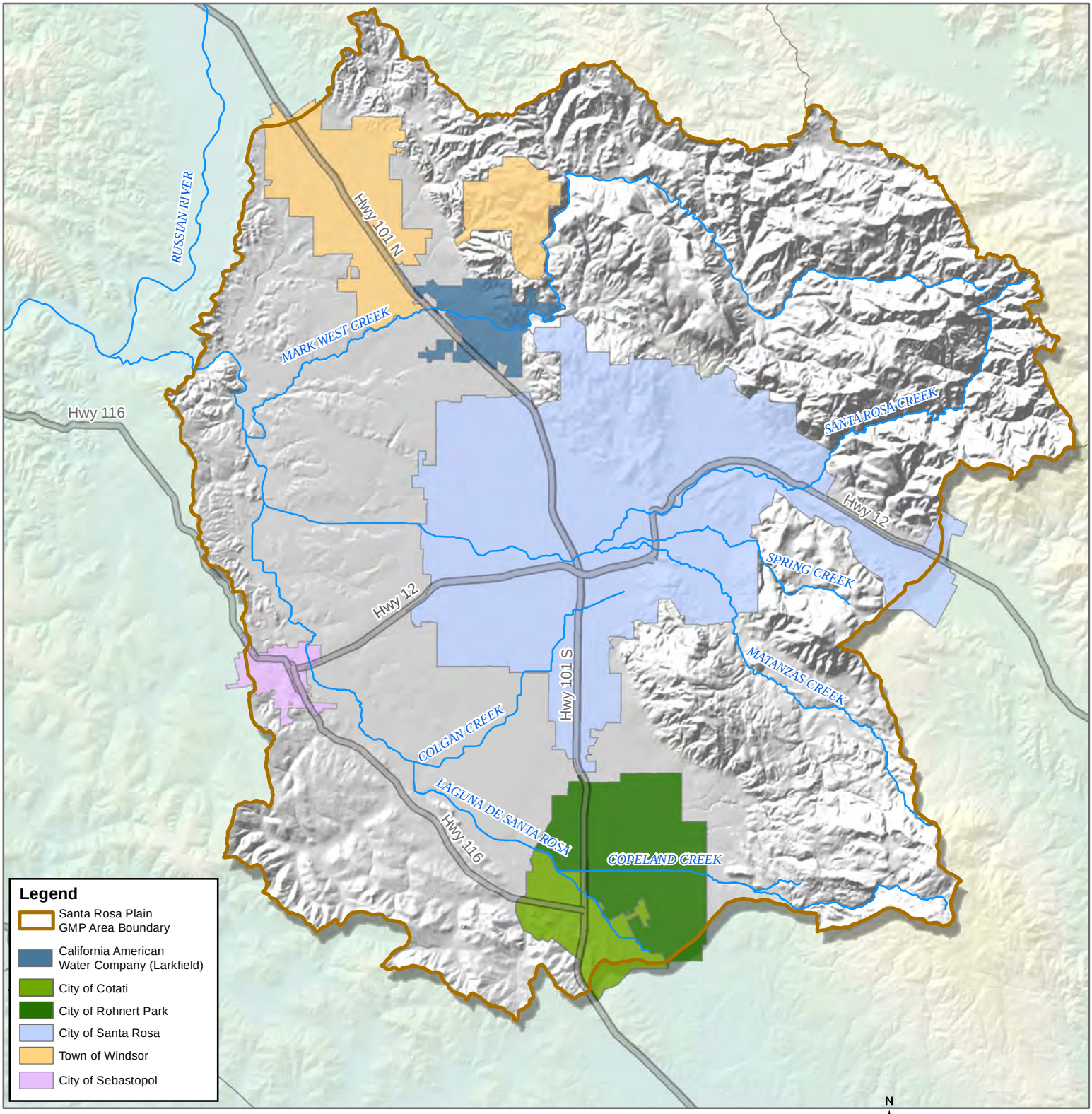


Location of Santa Rosa Plain Watershed and Groundwater Basins & Sub-basins

0 5 10 20 Miles

N W E S

Figure 2-1



Plan Area and Water Contractors

0 1.25 2.5 5 Miles

N W E S

Figure 2-2

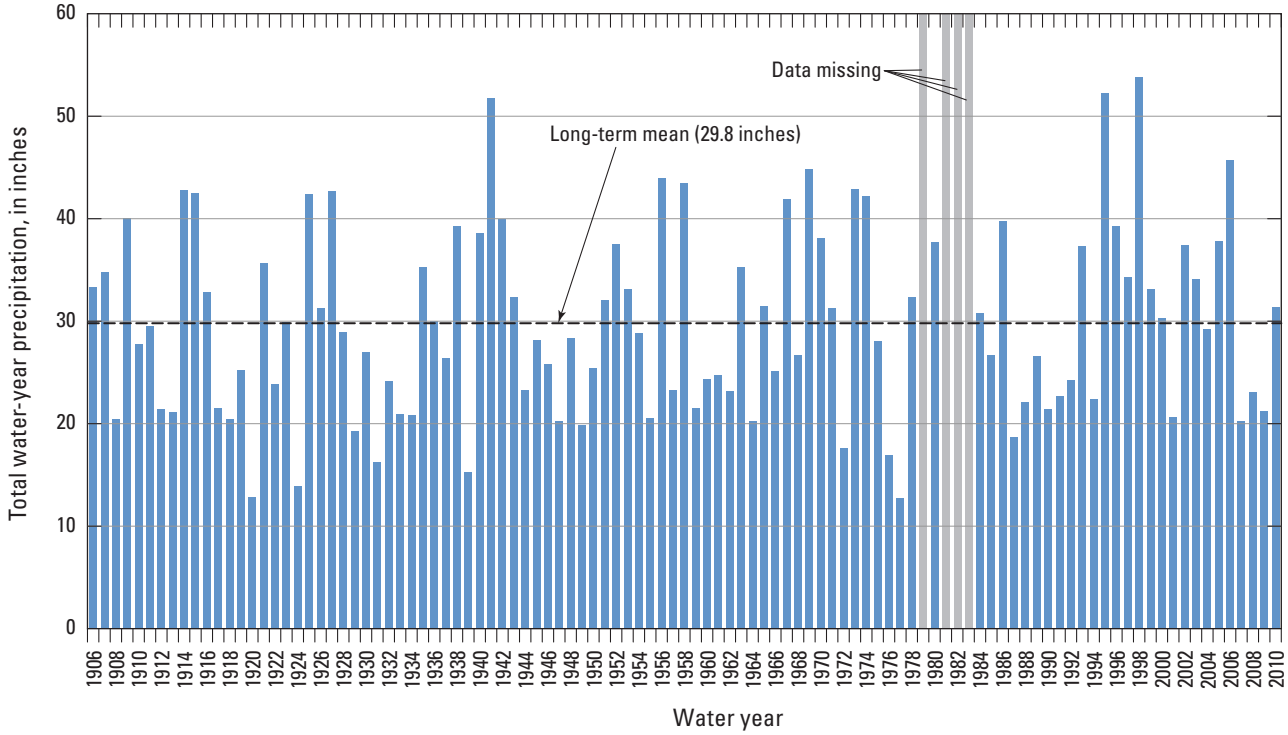


Figure 2-3 Total Water Year Precipitation

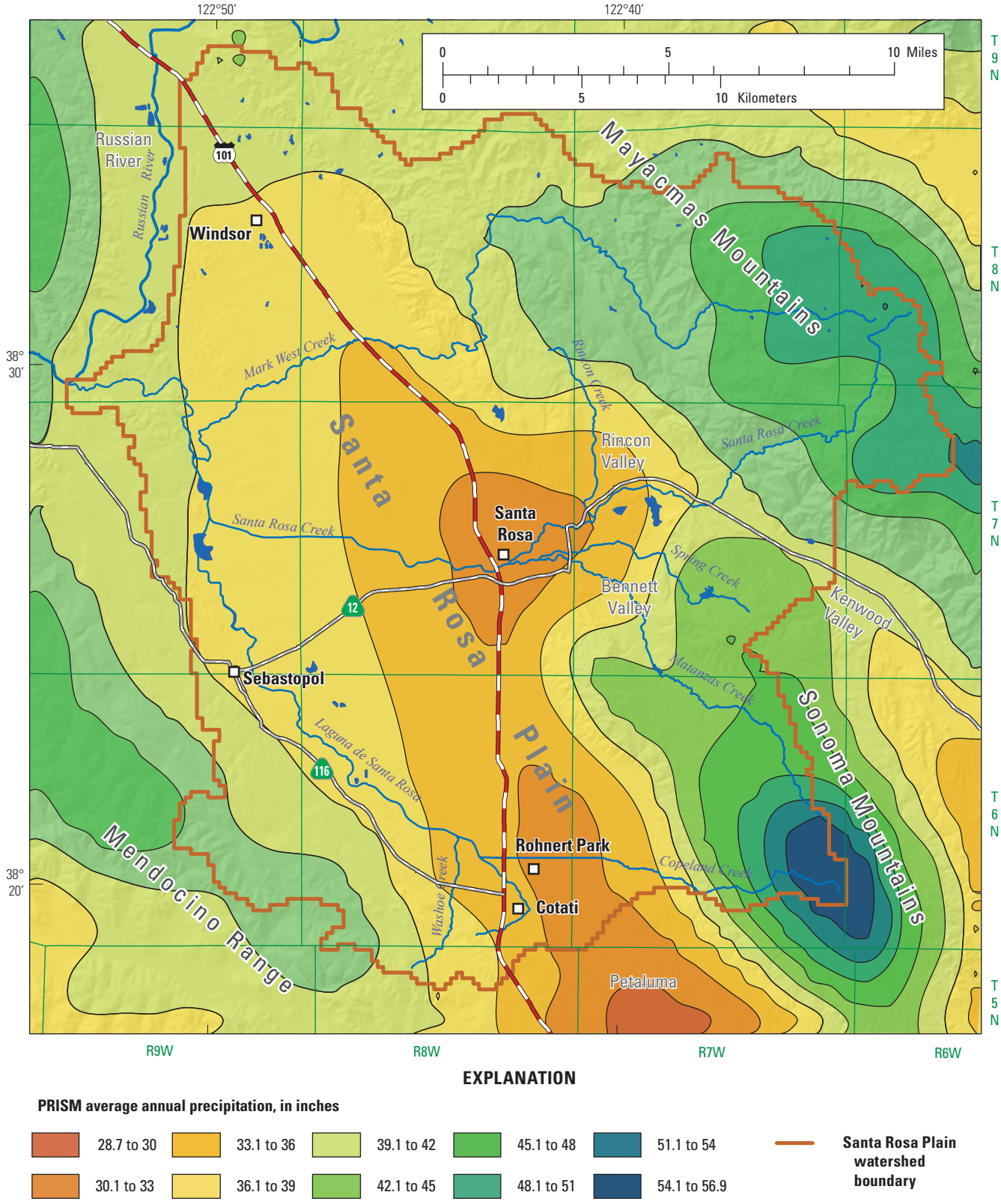
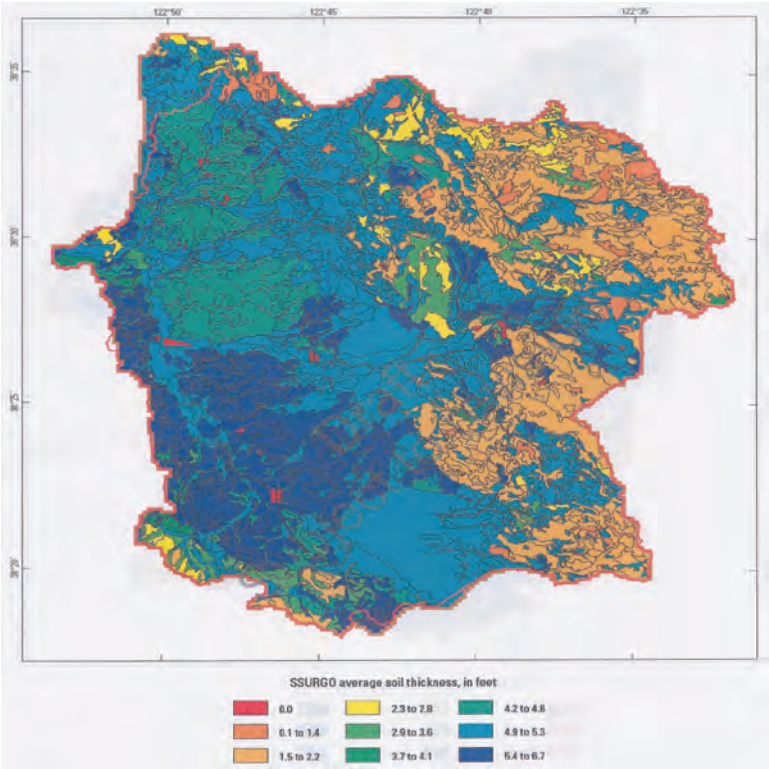
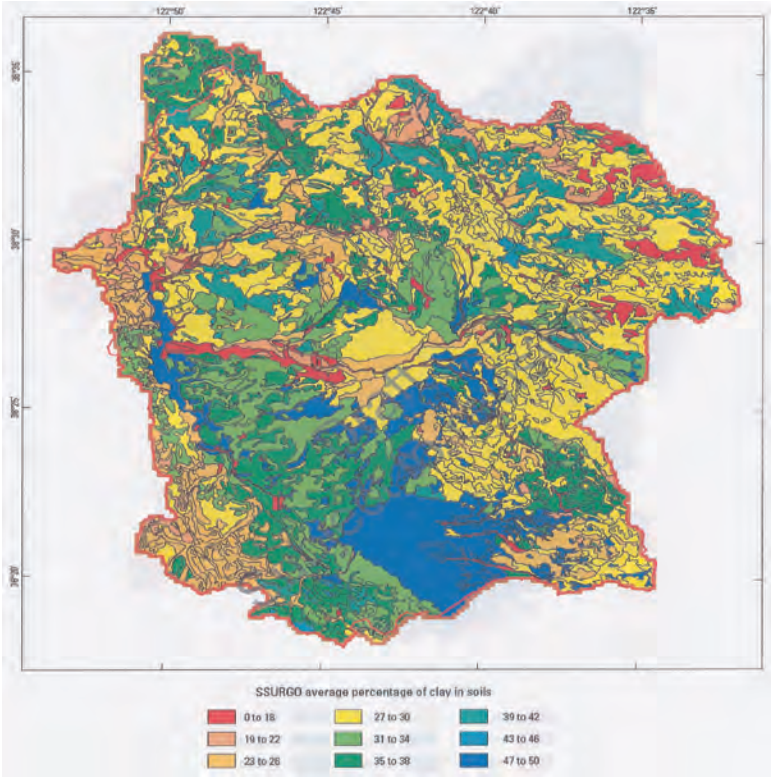


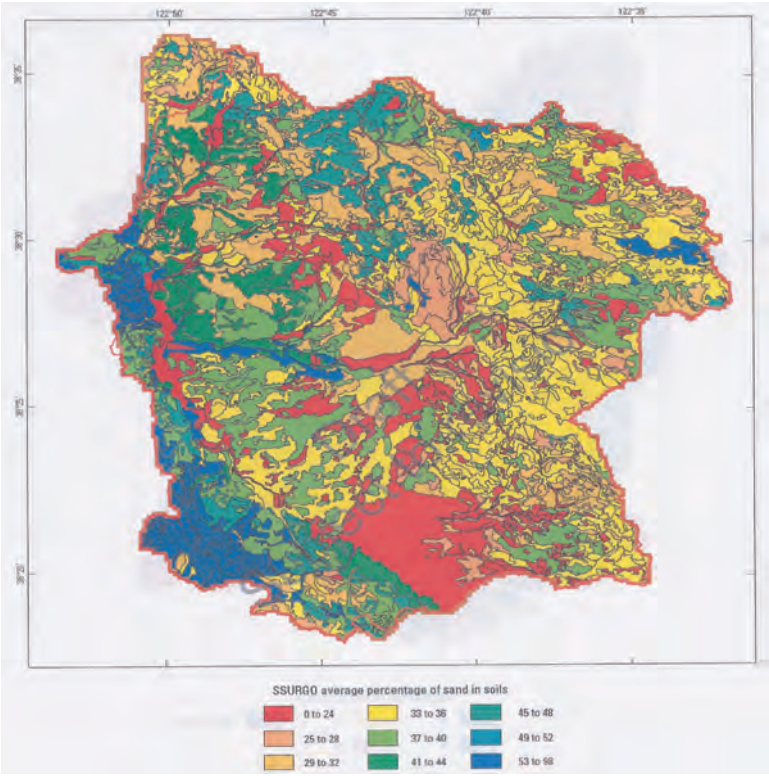
Figure 2-4 Precipitation Map



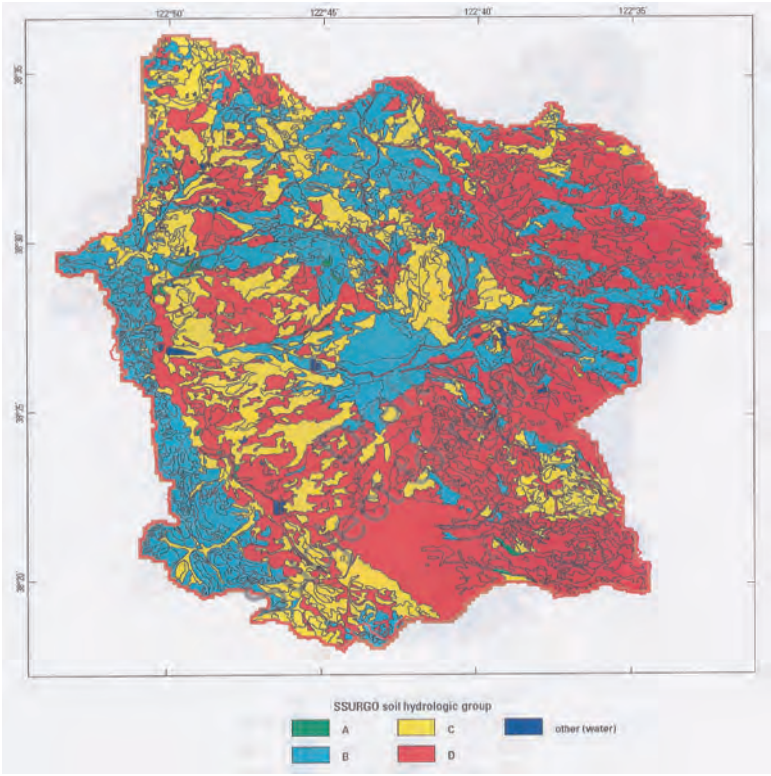
Average Soil Thickness



Percent Clay in Soils



Percent Sands in Soils



Soil Hydrologic Groups

Figure 2-5 SSURGO Soil Maps for the Plan Area

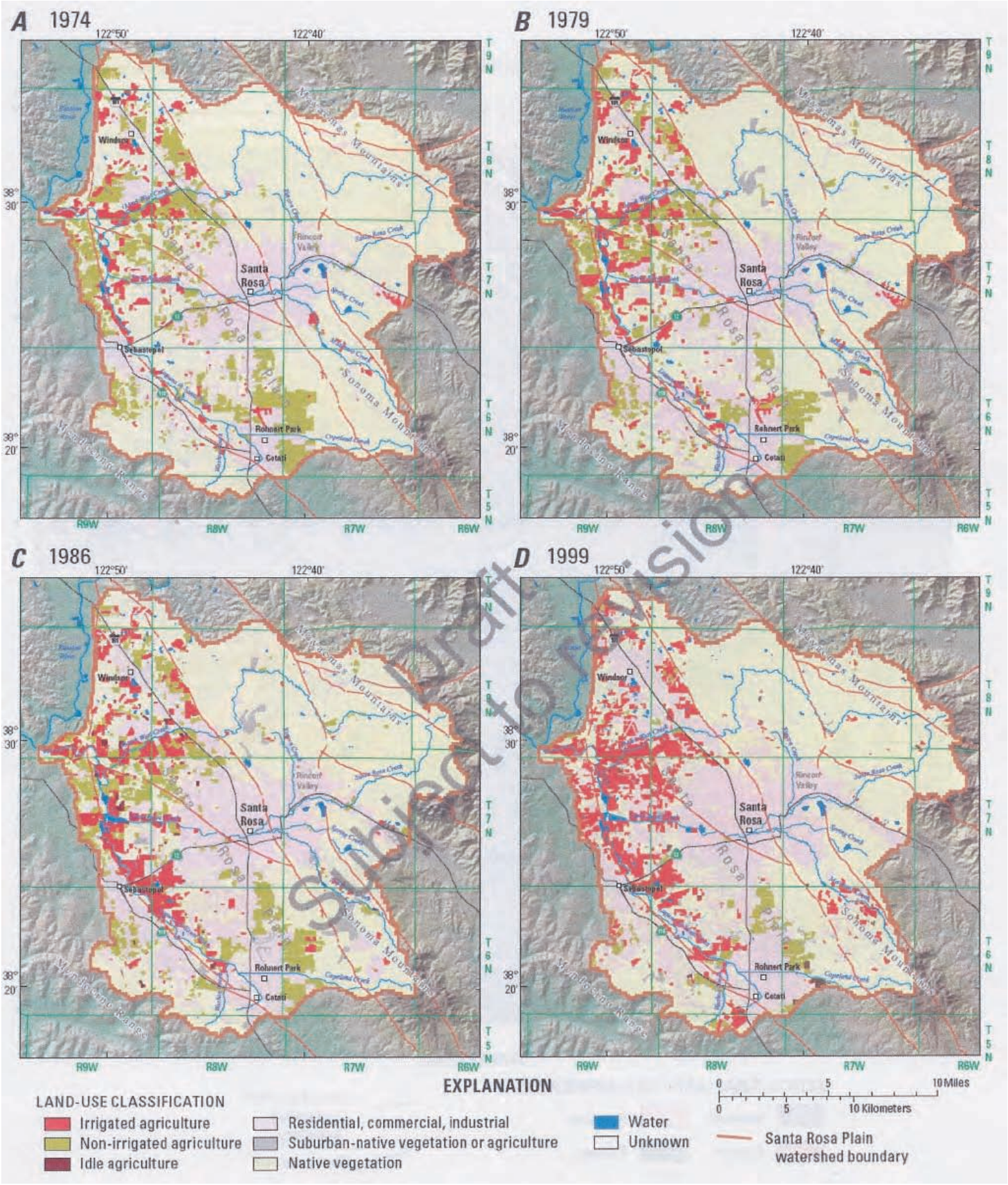


Figure 2-6 . Land Use Maps for 1974, 1979, 1986, and 1999 - California Department of Water Resources.

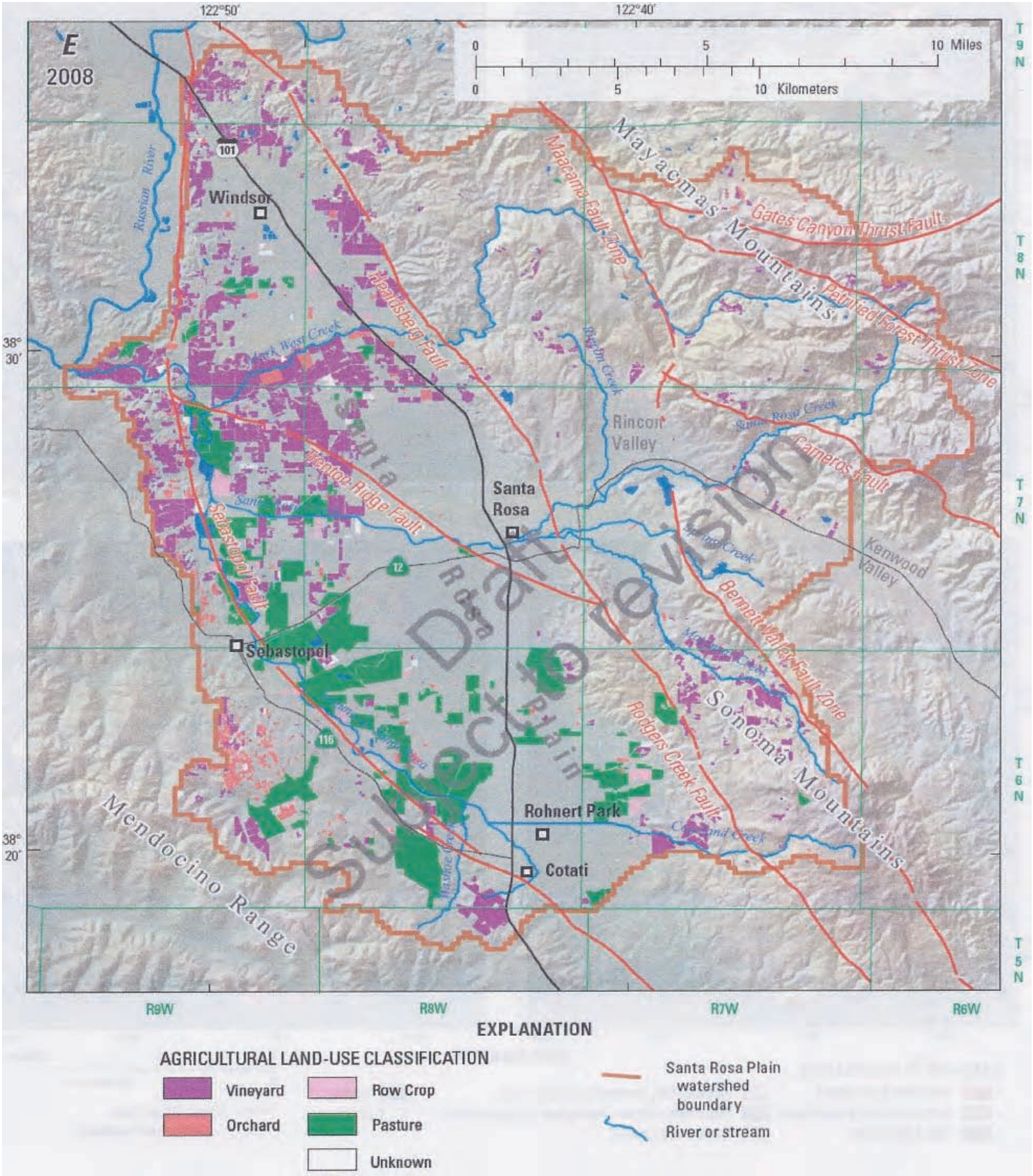
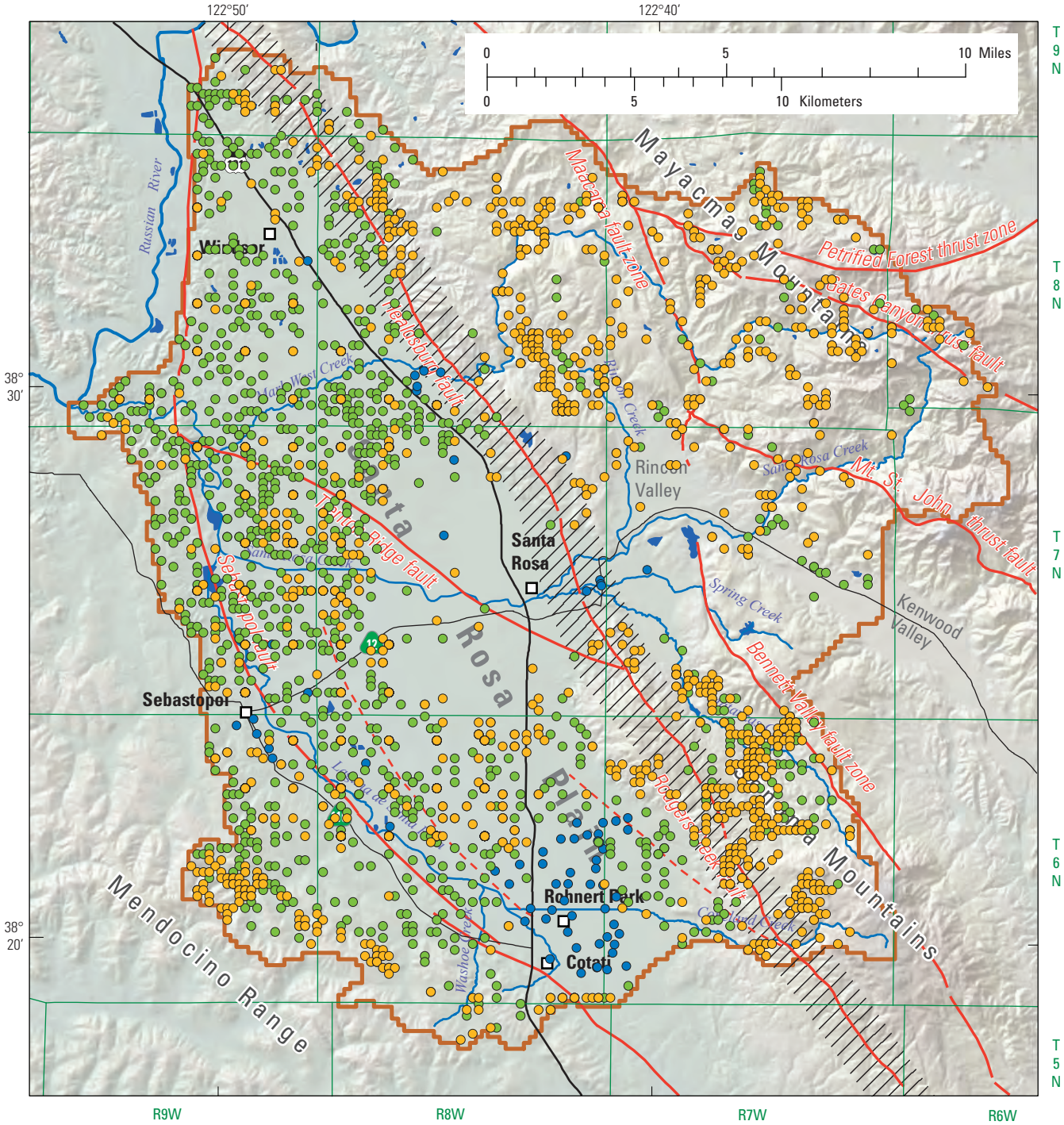


Figure 2-7. Agricultural Land Use Map for 2008.



Base from U.S. Geological Survey digital data, 1:1,000,000, downloaded 2003 State Plane Projection, Fipzone 402
Shaded relief base from 1:250,000 scale Digital Elevation Model: sun illumination from northwest at 30 degrees above horizon

EXPLANATION

- Rodgers Creek fault zone
- Inferred fault
- Domestic well
- Agricultural well
- Public-supply well

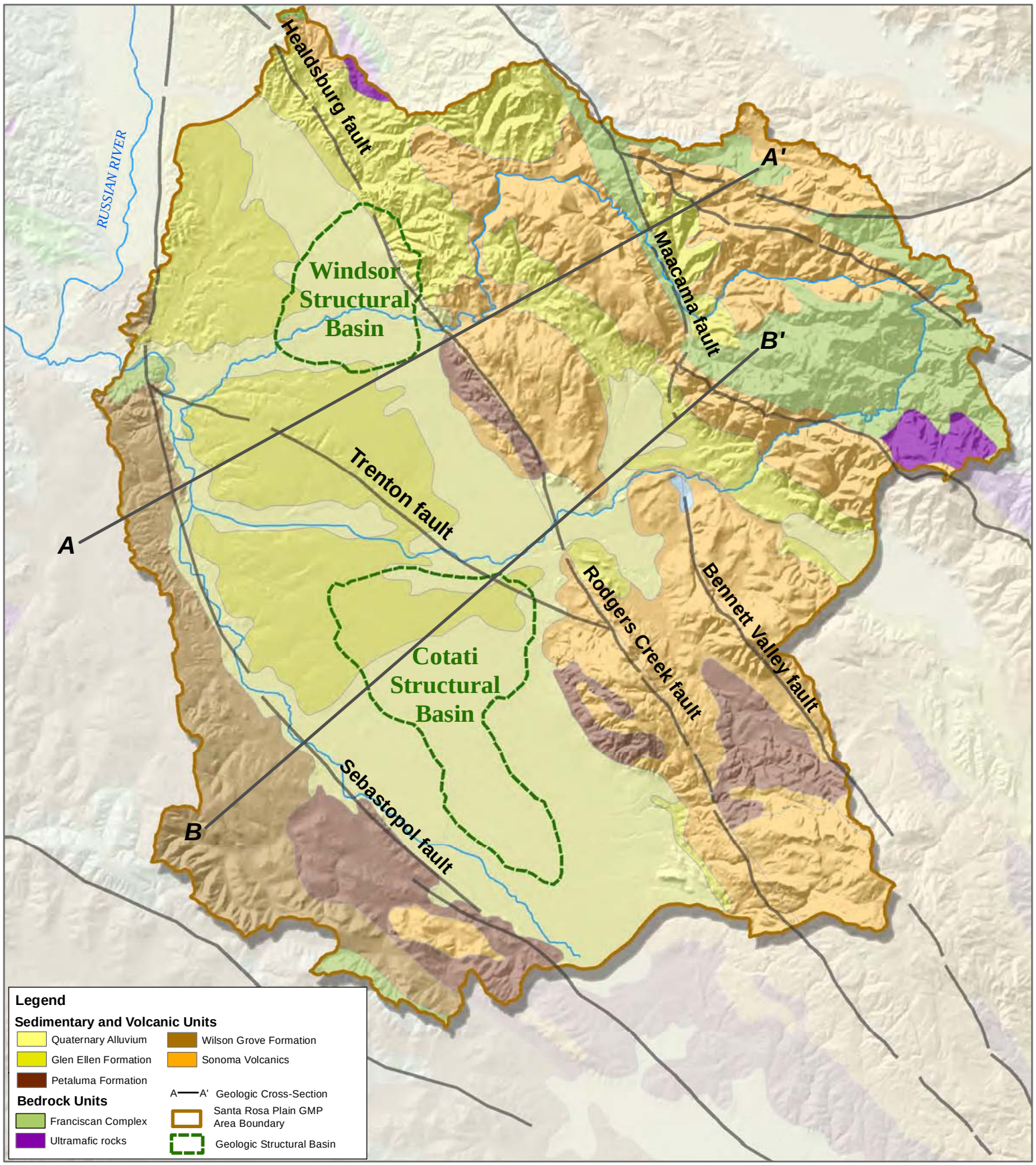
Figure 2-8 Location of Water Wells in Plan Area

Russian River Watershed and Water Agency Facilities

0 5 10 20 Miles

N W E S

Figure 2-9



Geology of the Santa Rosa Plain Watershed

0 1 2 4 Miles

N W E S

Figure 2-10

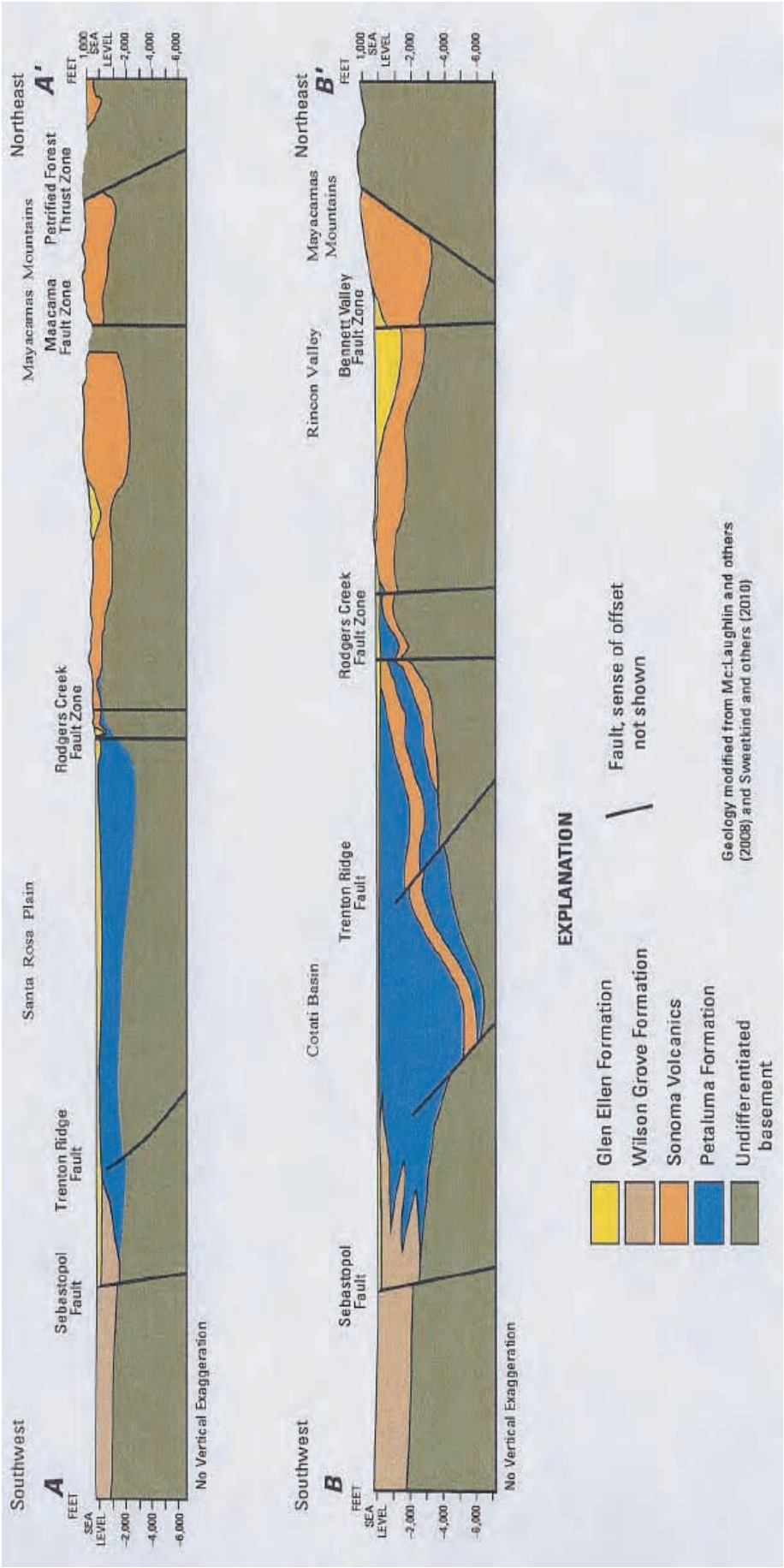
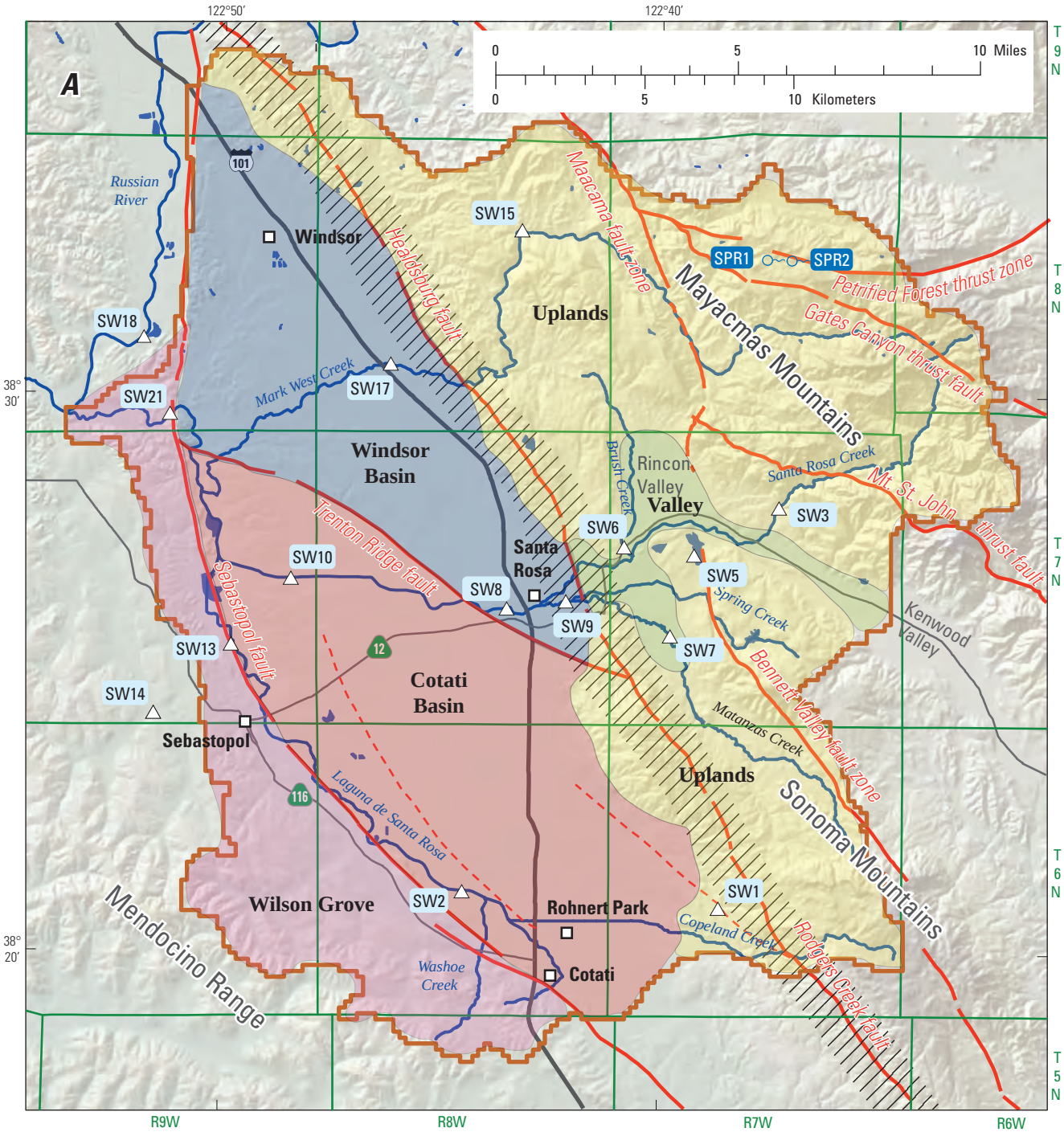


Figure 2-11 Schematic West-East Geologic Cross Sections.



Shaded relief derived from U.S. Geological Survey
National Elevation Dataset, 2006, Albers Equal Area Conic Projection

EXPLANATION

Groundwater storage units

- Cotati Basin
- Windsor Basin
- Valley
- Wilson Grove
- Upland

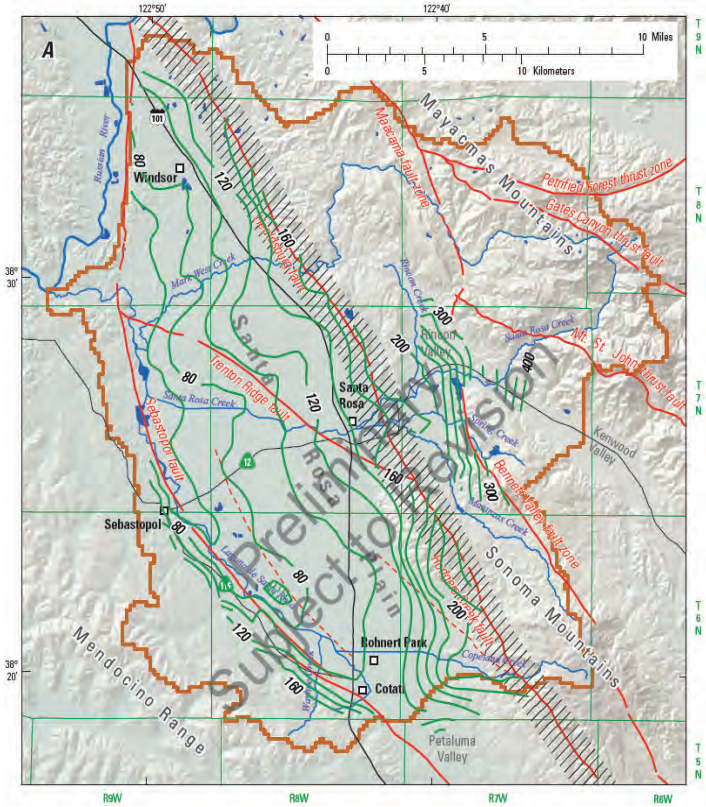
Rodgers Creek fault zone

Inferred fault

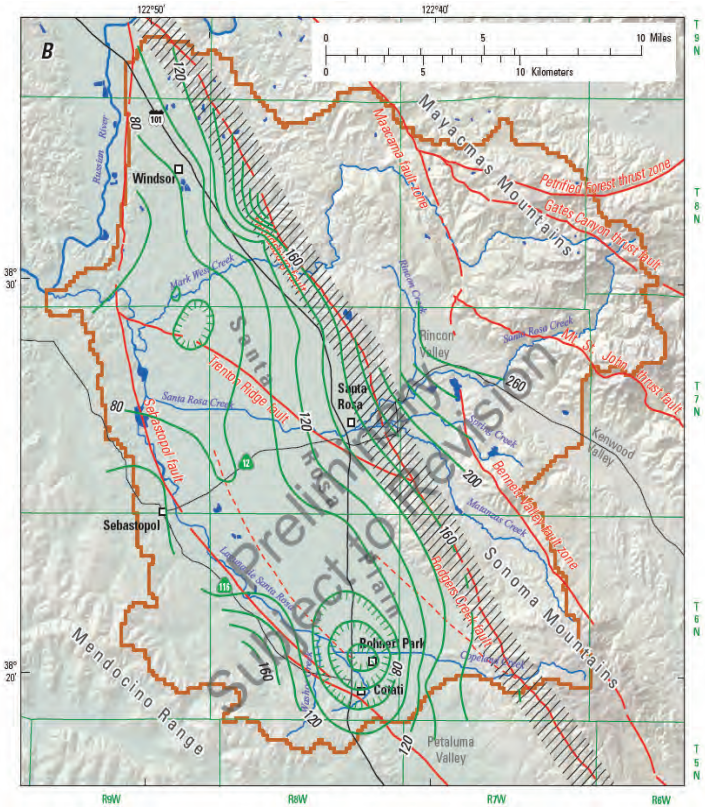
SPR2 **Spring**

SW4 **Surface-water site**

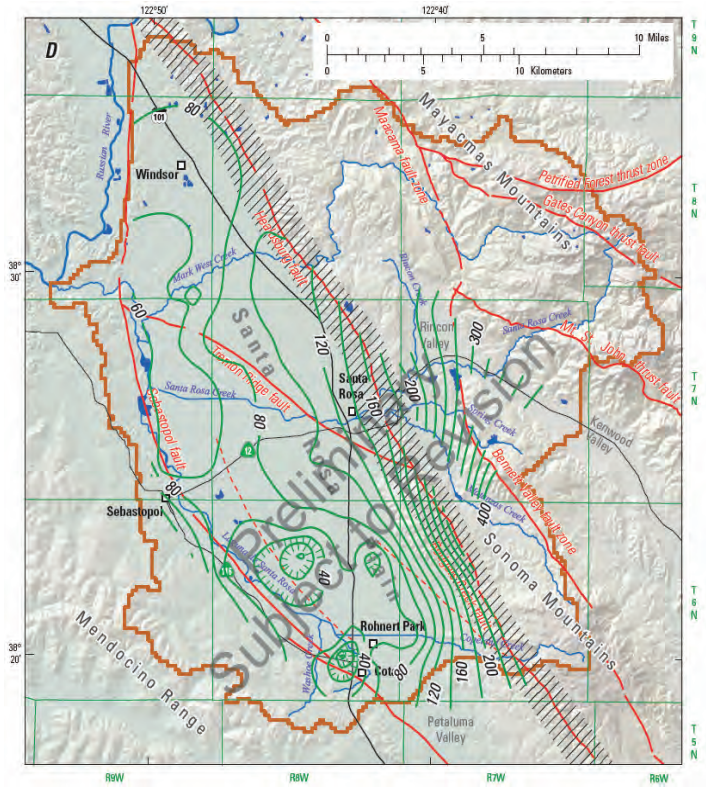
Figure 2-12 Hydrogeologic Subareas



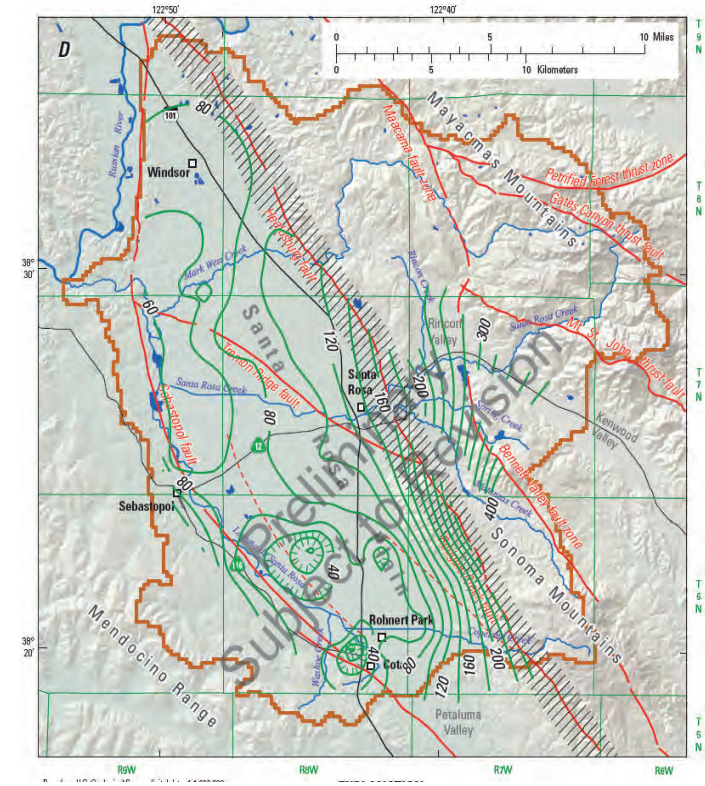
(A) Spring 1951



(B) Spring 1974



(C) Spring 1980



(D) Fall 1980

Base from U.S. Geological Survey digital data, 1:1,000,000, downloaded 2003 State Plane Projection, Fipzone 402
Shaded relief base from 1:250,000 scale Digital Elevation Model: sun illumination from northwest at 30 degrees above horizon

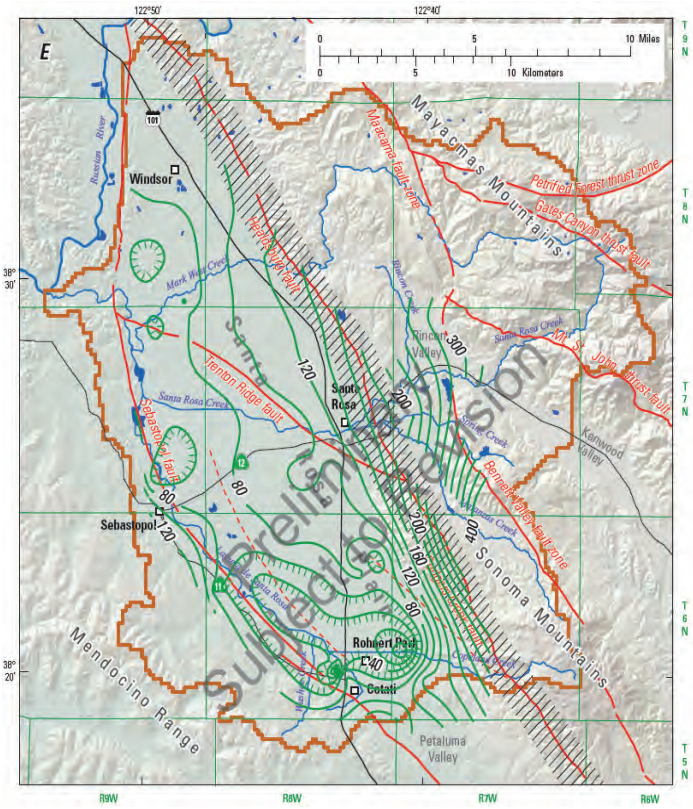
EXPLANATION

Rodgers Creek fault zone

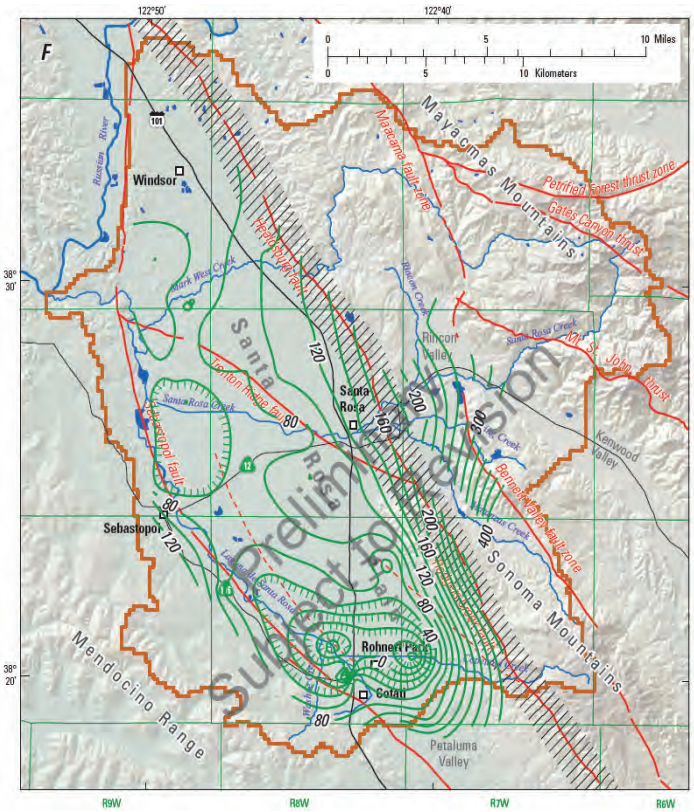
Line of equal water-level altitude, Fall 1980. Contour interval is 20 feet. Hatchures indicate depressions

Inferred fault

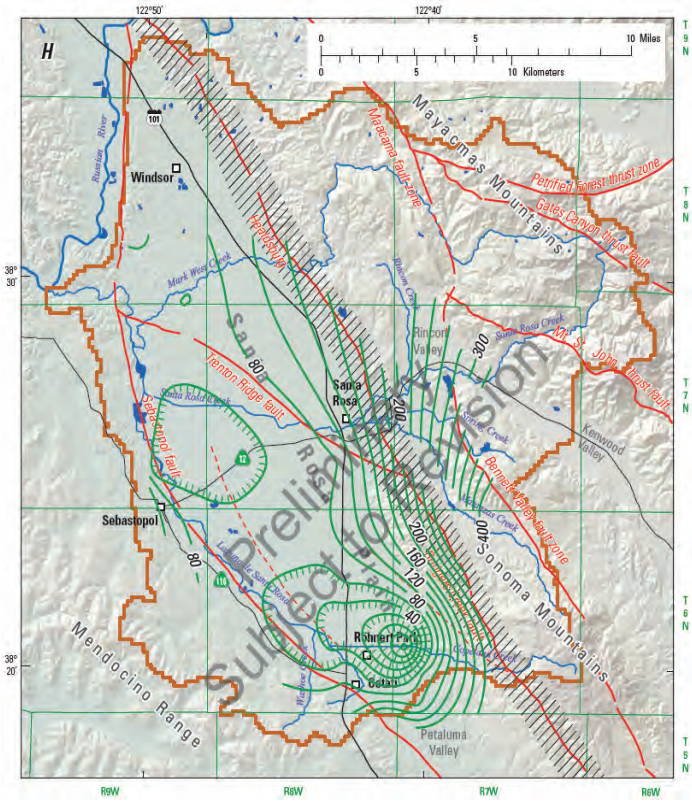
Figure 2-13 Groundwater Level Contours 1951, 1974, 1980, 1990, 2001, & 2007, Plan Area.



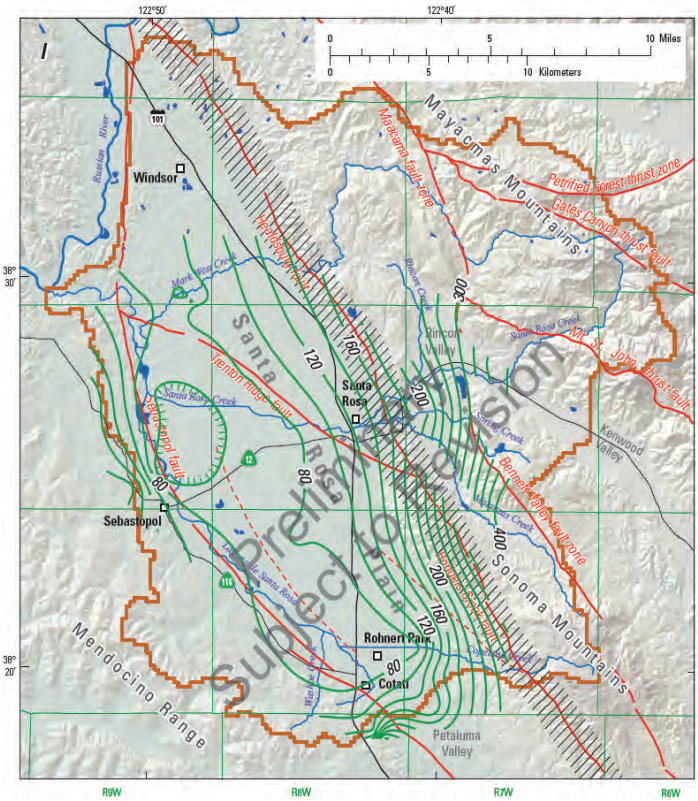
(E) Spring 1990



(F) Fall 1990



(G) Fall 2001



(H) Spring 2007

Base from U.S. Geological Survey digital data, 1:1,000,000, downloaded 2003 State Plane Projection, Fipzone 402
Shaded relief base from 1:250,000 scale Digital Elevation Model: sun illumination from northwest at 30 degrees above horizon

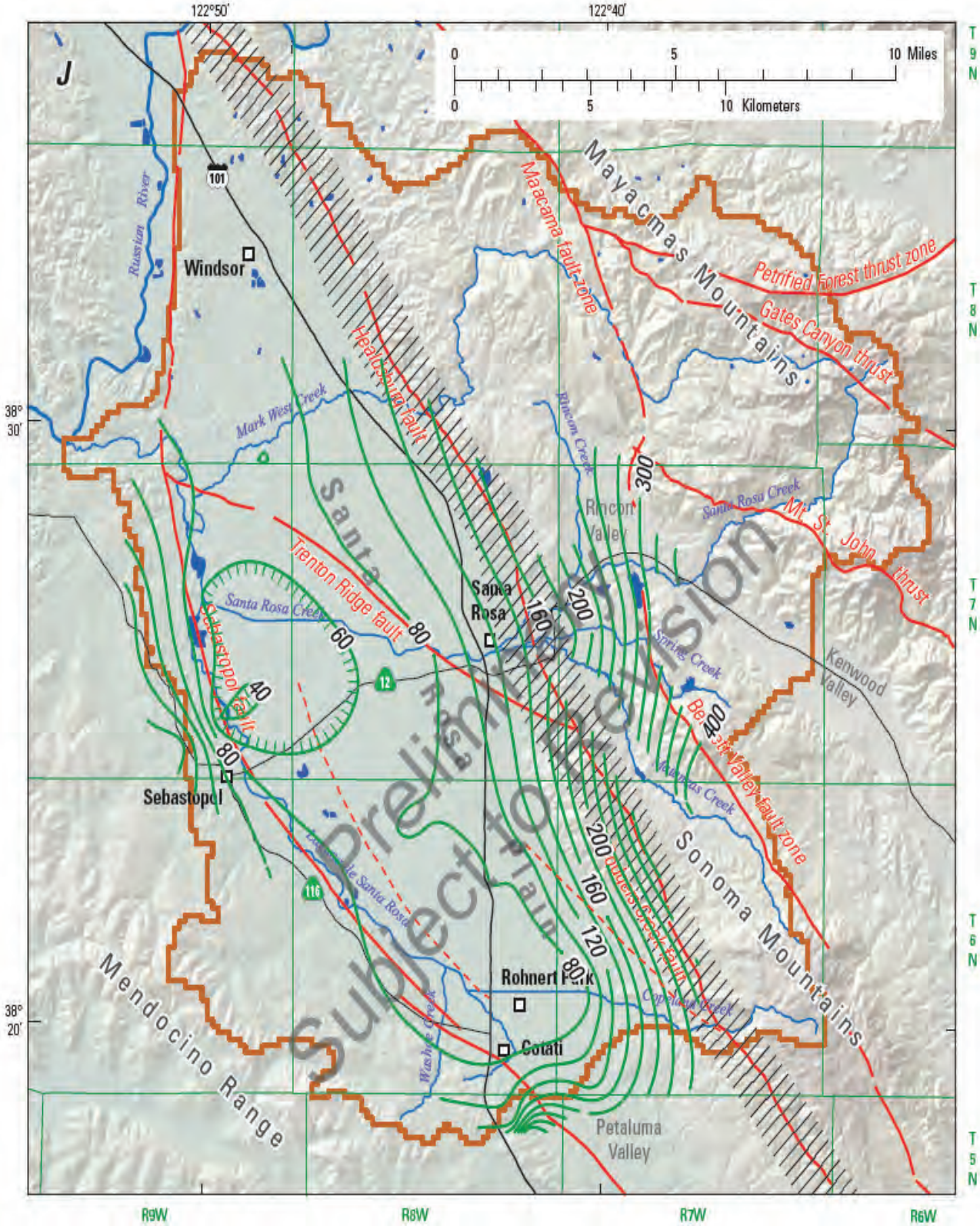
EXPLANATION

Rodgers Creek fault zone

Line of equal water-level altitude, Fall 1980. Contour interval is 20 feet. Hatchures indicate depressions

Inferred fault

Figure 2-13. Groundwater Level Contours 1951, 1974, 1980, 1990, 2001, & 2007, Plan Area.



(I) Fall 2007

Base from U.S. Geological Survey digital data, 1:1,000,000, downloaded 2003 State Plane Projection, Fipzone 402
Shaded relief base from 1:250,000 scale Digital Elevation Model: sun illumination from northwest at 30 degrees above horizon

EXPLANATION

Rodgers Creek fault zone

Line of equal water-level altitude, Fall 1980. Contour interval is 20 feet. Hatchures indicate depressions

Inferred fault

Figure 2-13. Groundwater Level Contours 1951, 1974, 1980, 1990, 2001, & 2007, Plan Area.

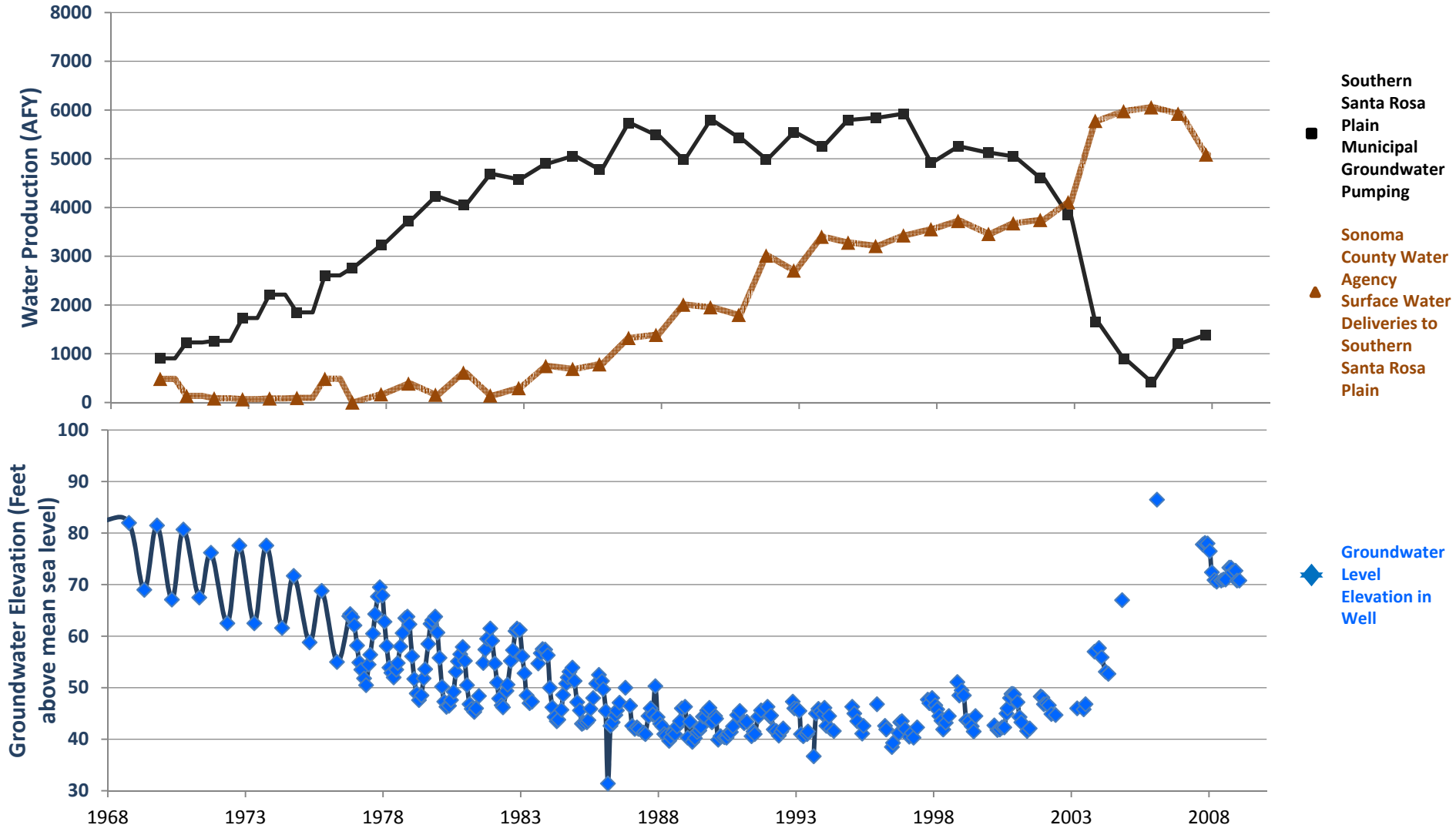
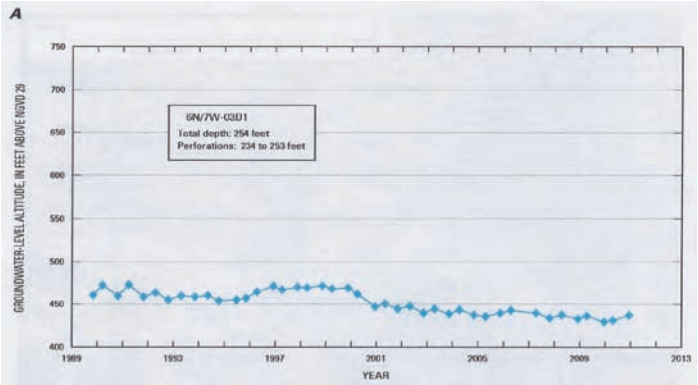
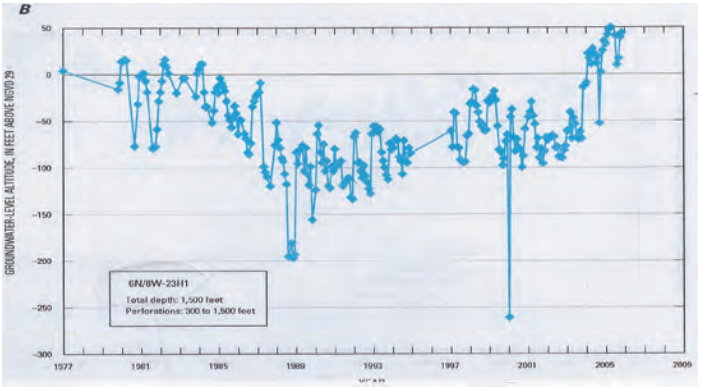
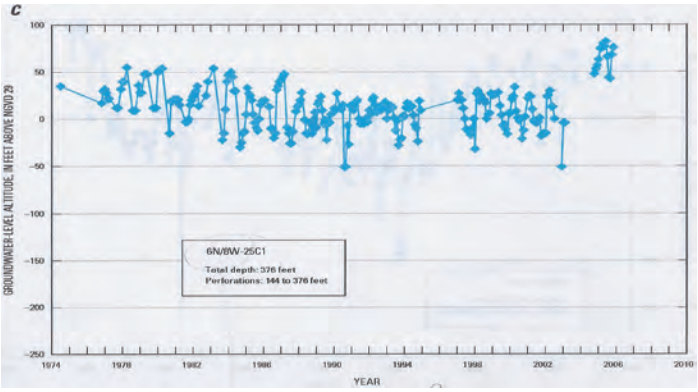


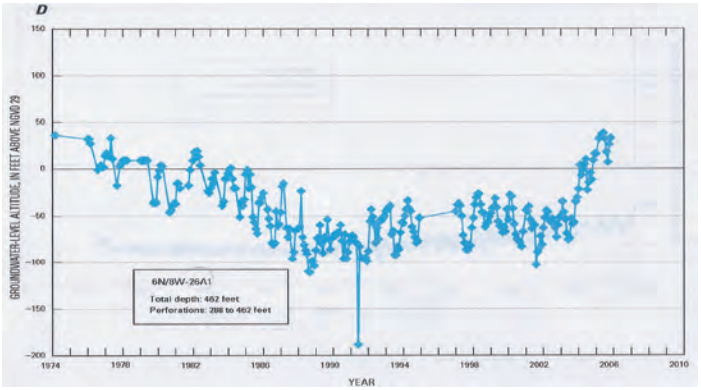
Figure 2-14 Total Annual Pumping, Southern SRP, Surface Water Deliveries, and Groundwater Levels, 1968-2008.

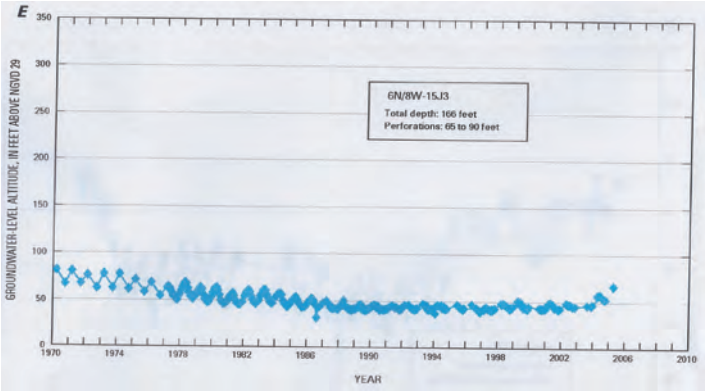
Figure 2-15-a. Well Hydrographs - Cotati Basin

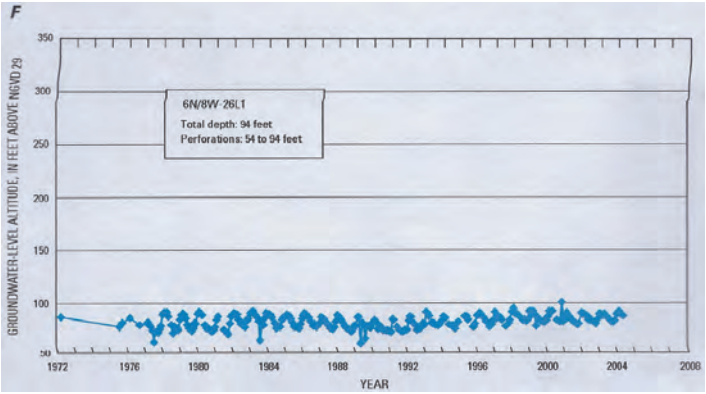












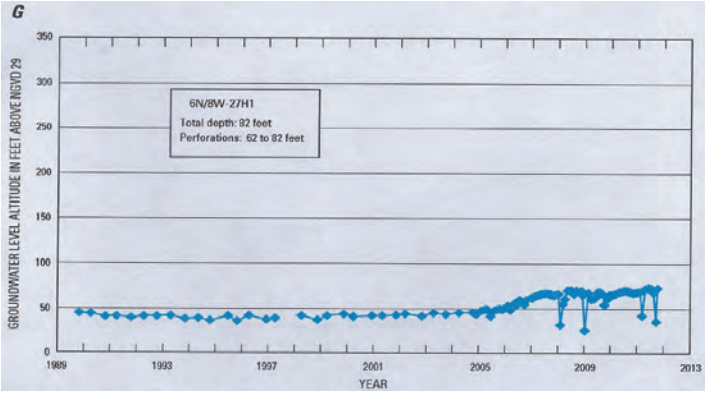
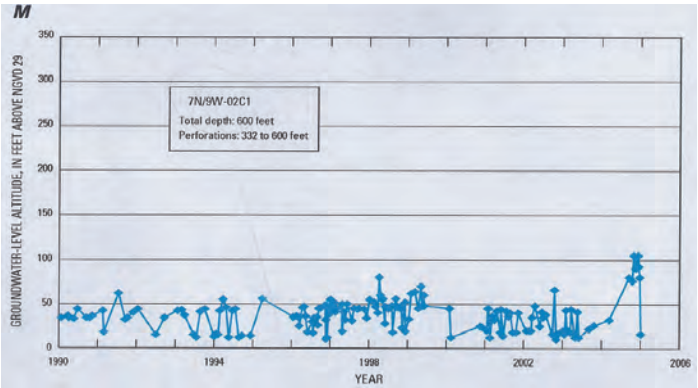
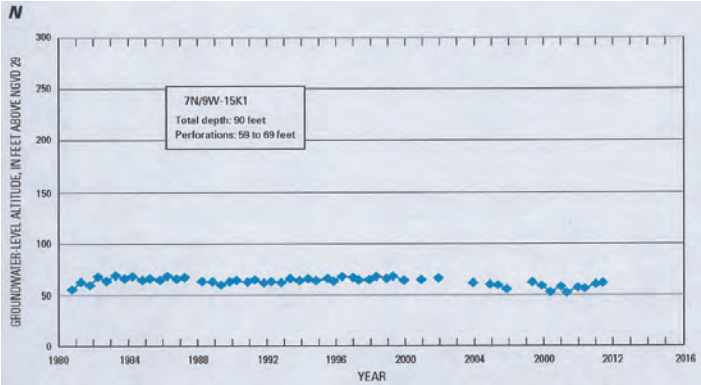


Figure 2-15 b. Well Hydrographs - Sebastopol





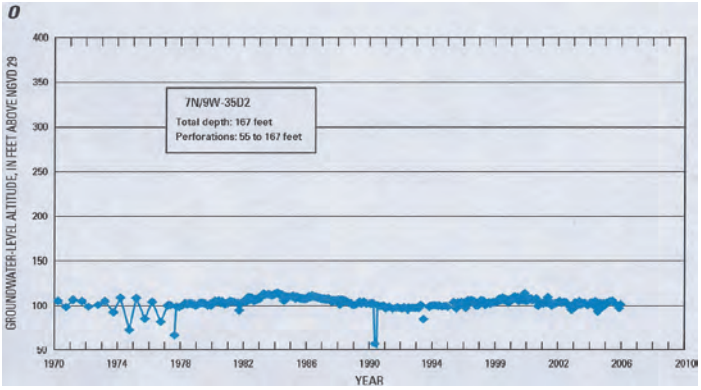
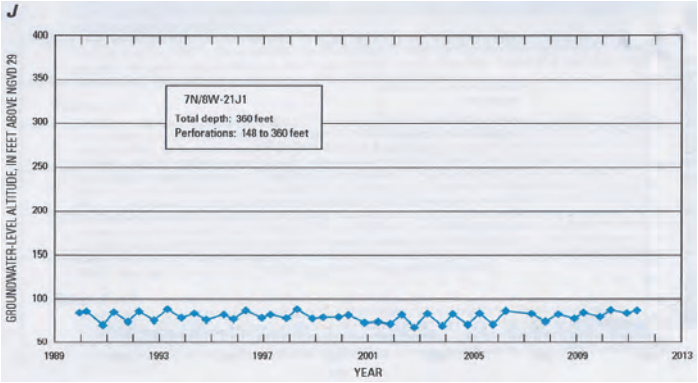
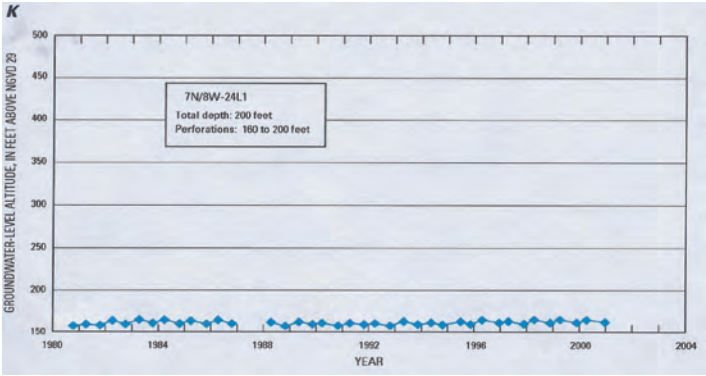


Figure 2-15 c. Well Hydrographs - City of Santa Rosa





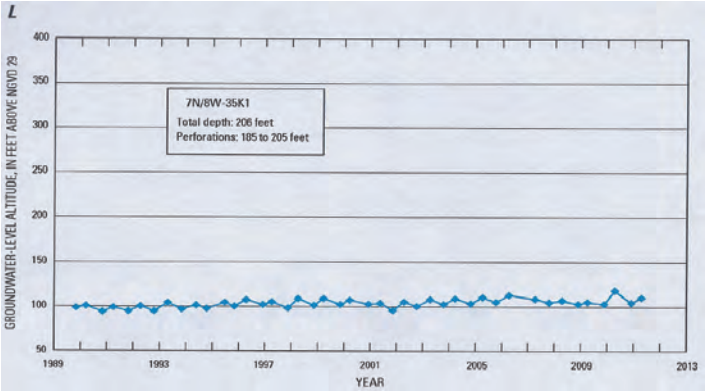


Figure 2-15 d. Well Hydrographs - Bennett Valley

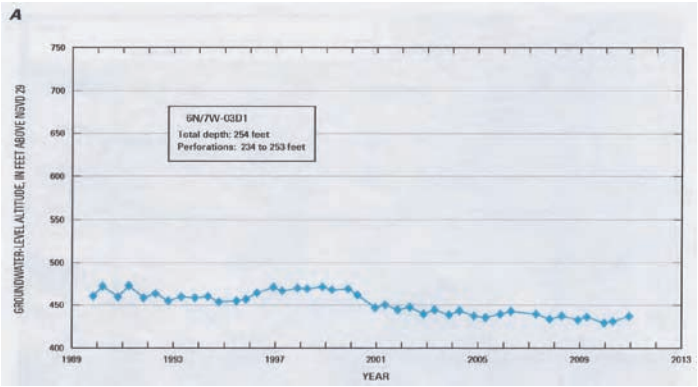


Figure 2-15 e. Well Hydrographs - Kenwood Valley

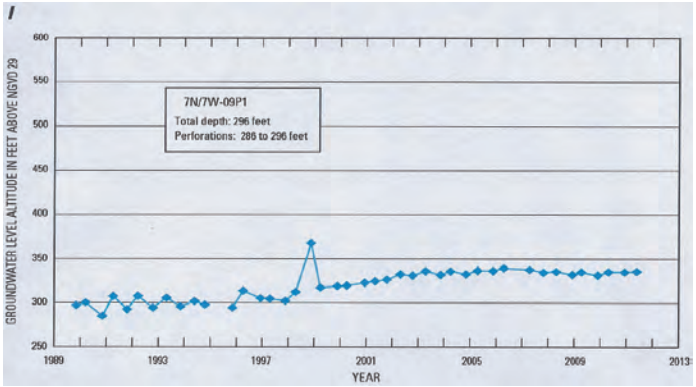


Figure 2-15 f. Well Hydrographs - Rincon Valley

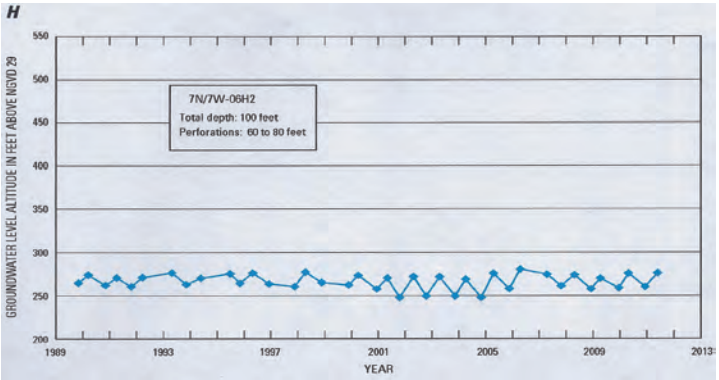
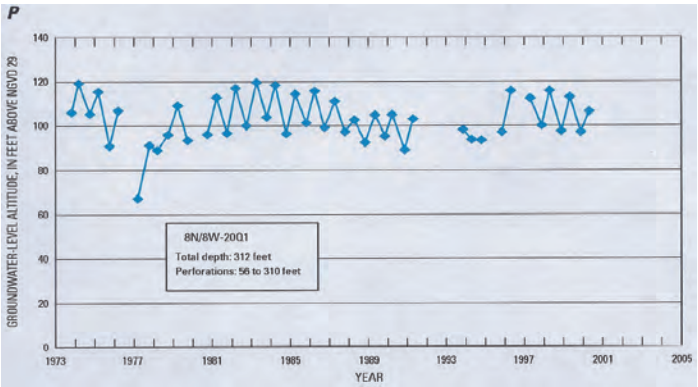
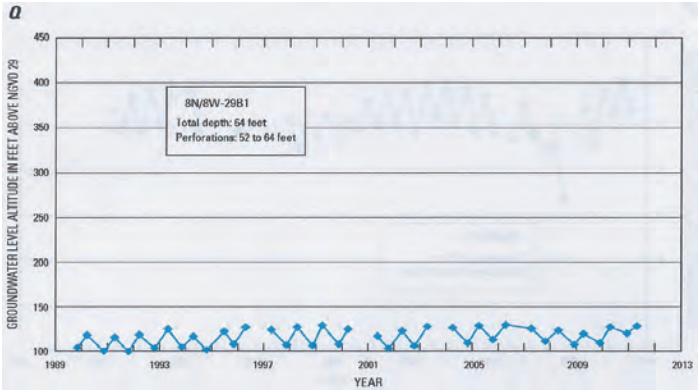
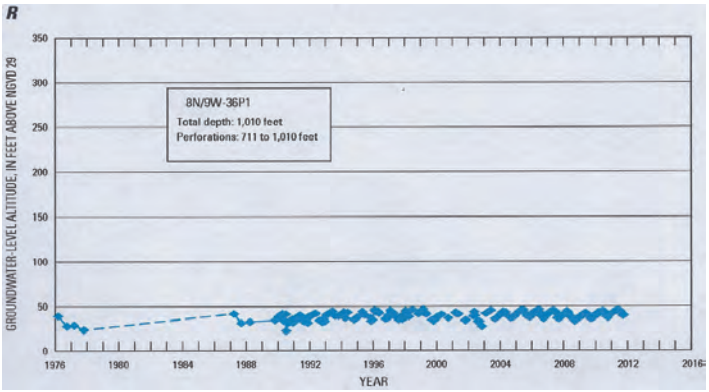


Figure 2-15 g. Well Hydrographs - Windsor Basin







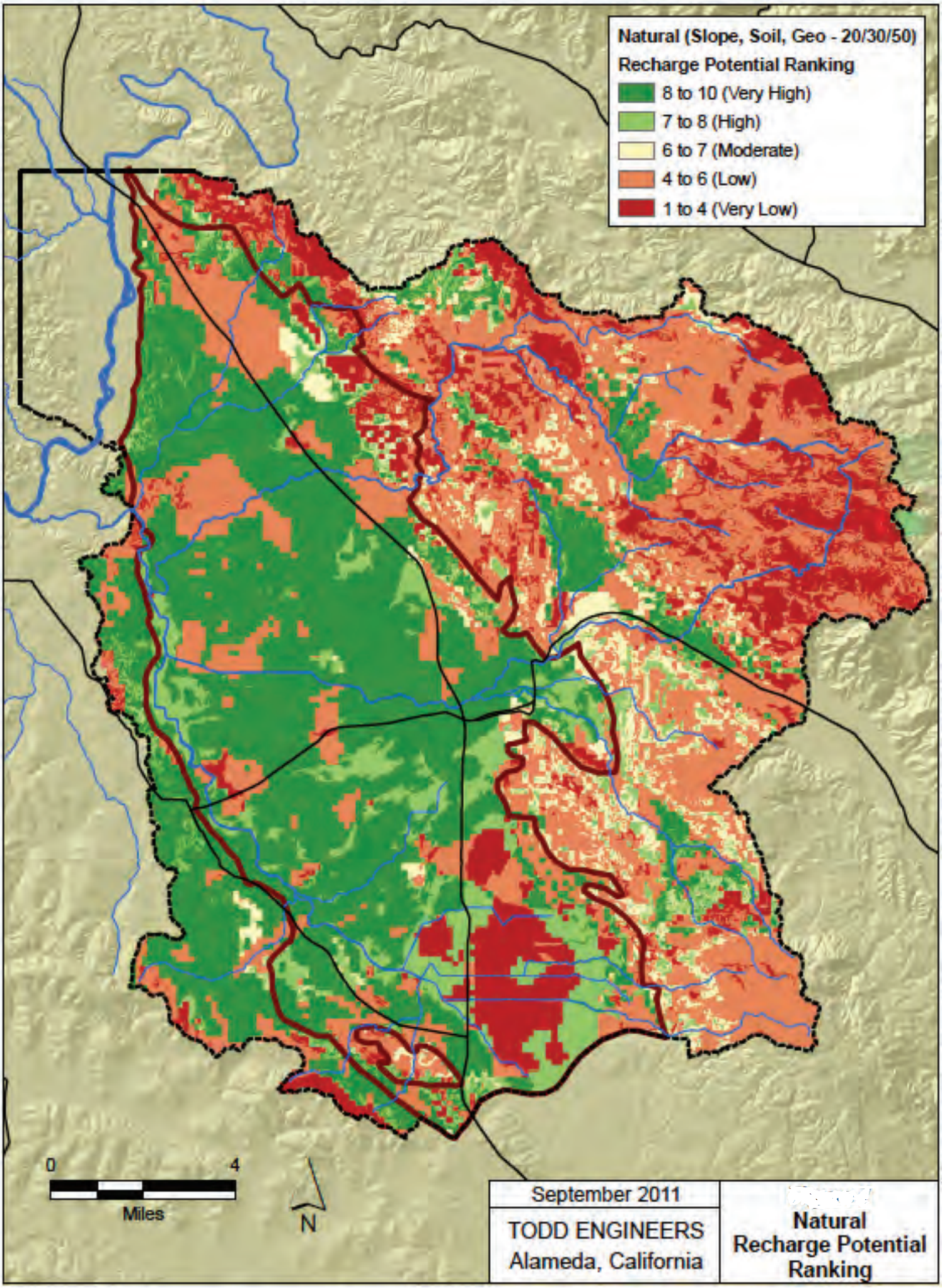
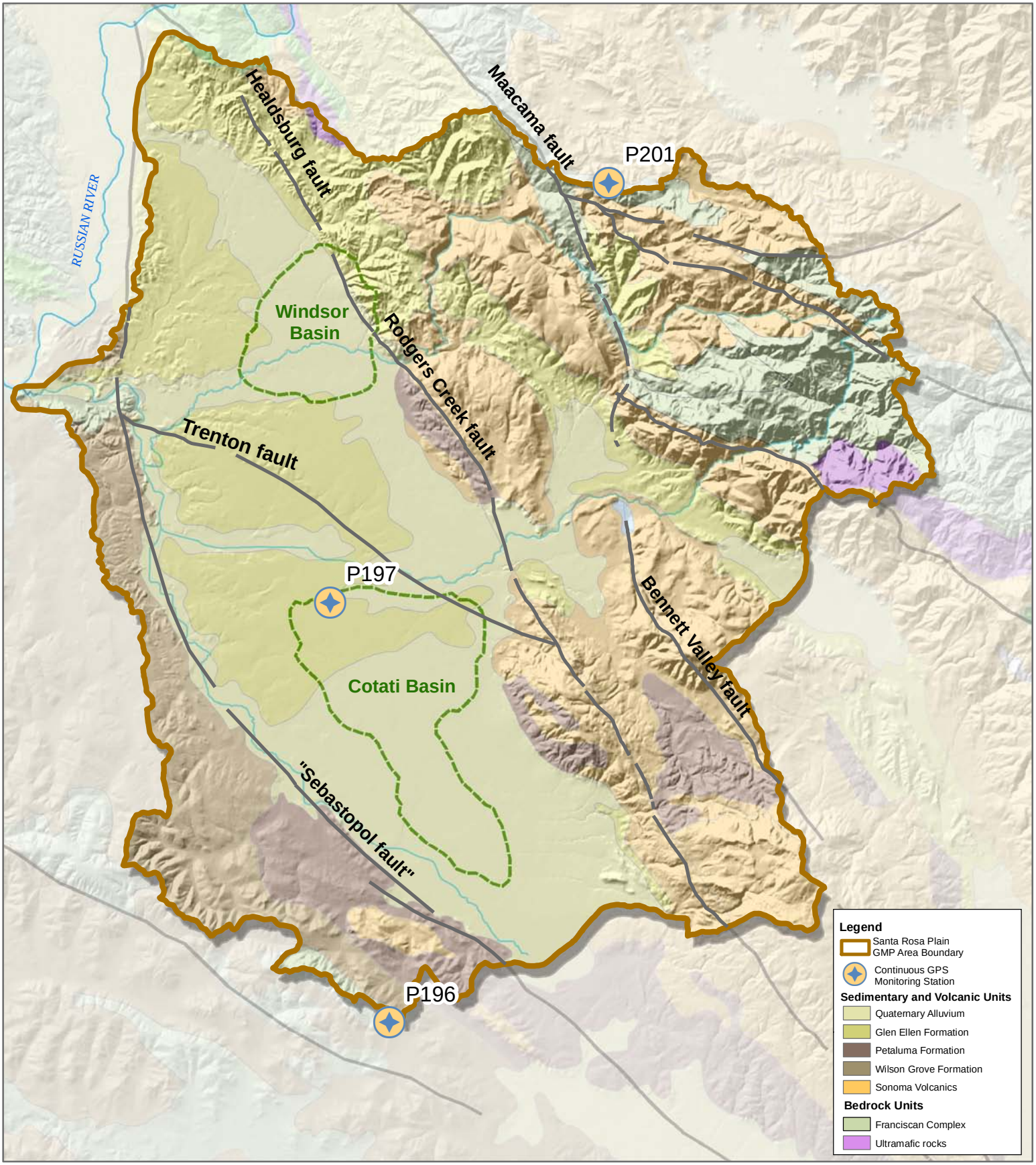


Figure 2-16 Natural Relative Recharge Potential Map, Plan Area.

Figure 2-17. Total Annual Pumping in the 0ÌÁÎ !ÒÅÁ8

To Be Added after USGS Report Published

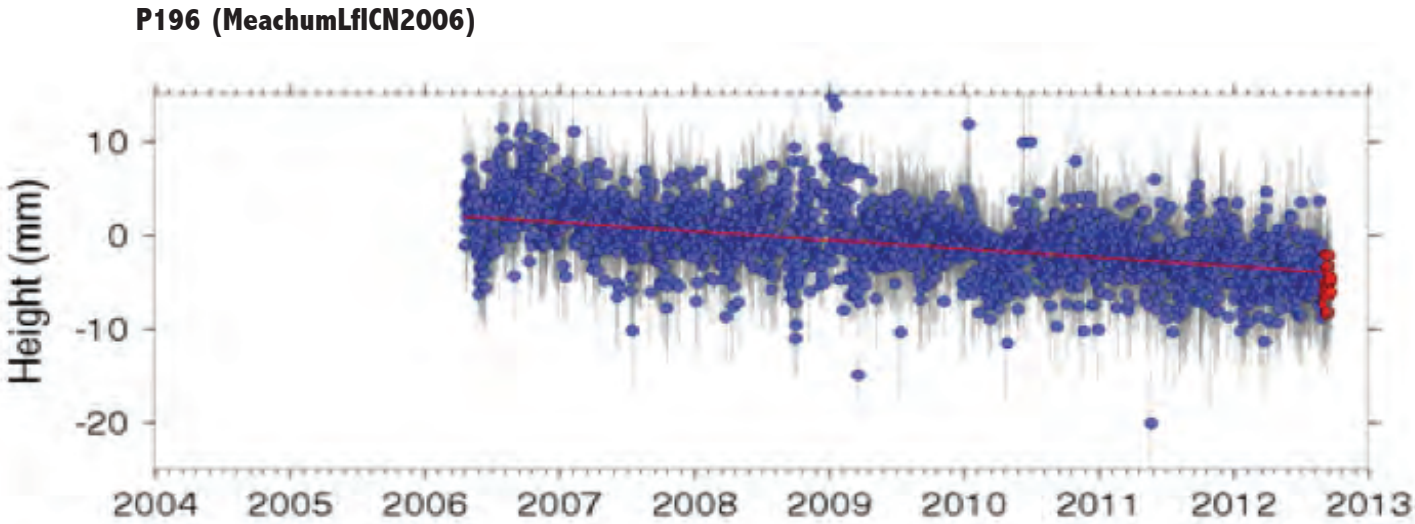


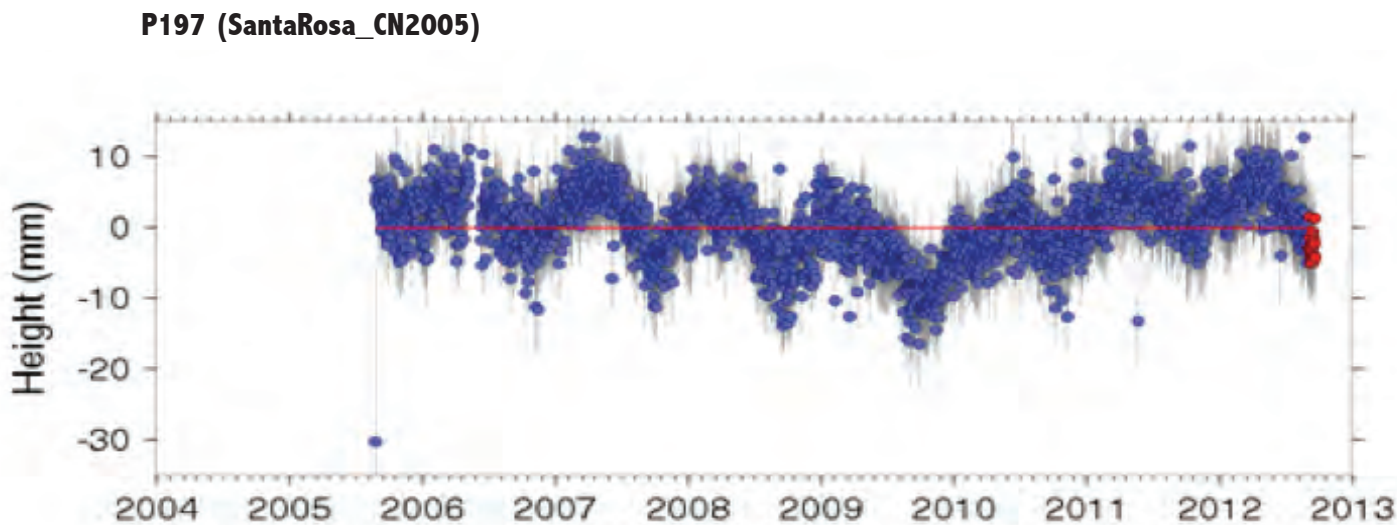
GPS Stations and InSAR Figures, Plan Area.

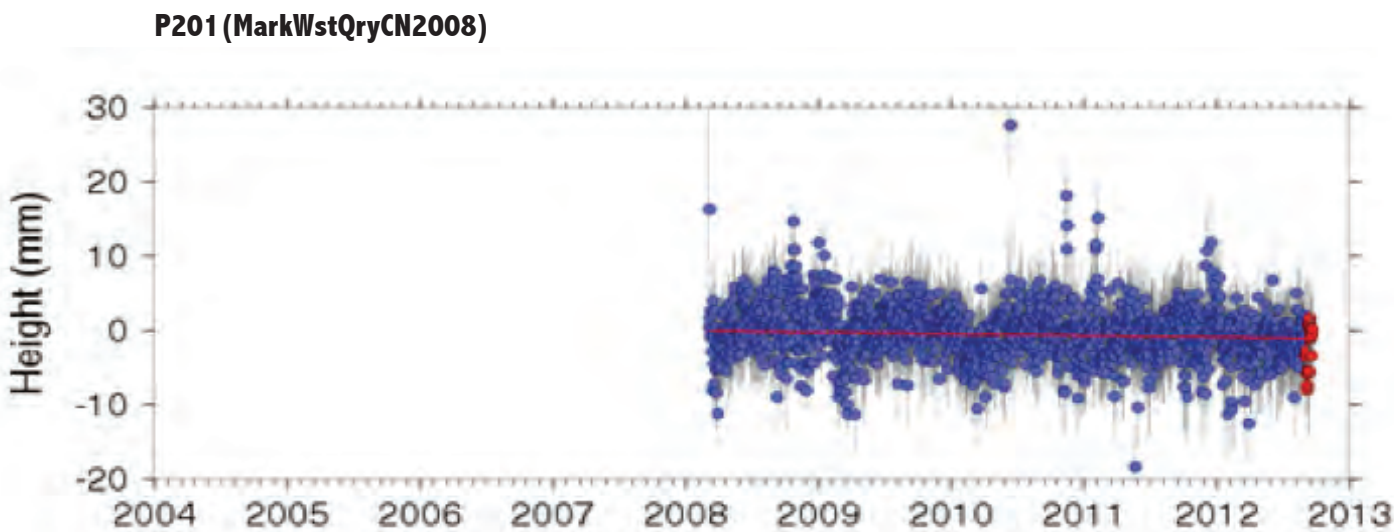
0 1 2 4 Miles

N W E S

Figure 2-18

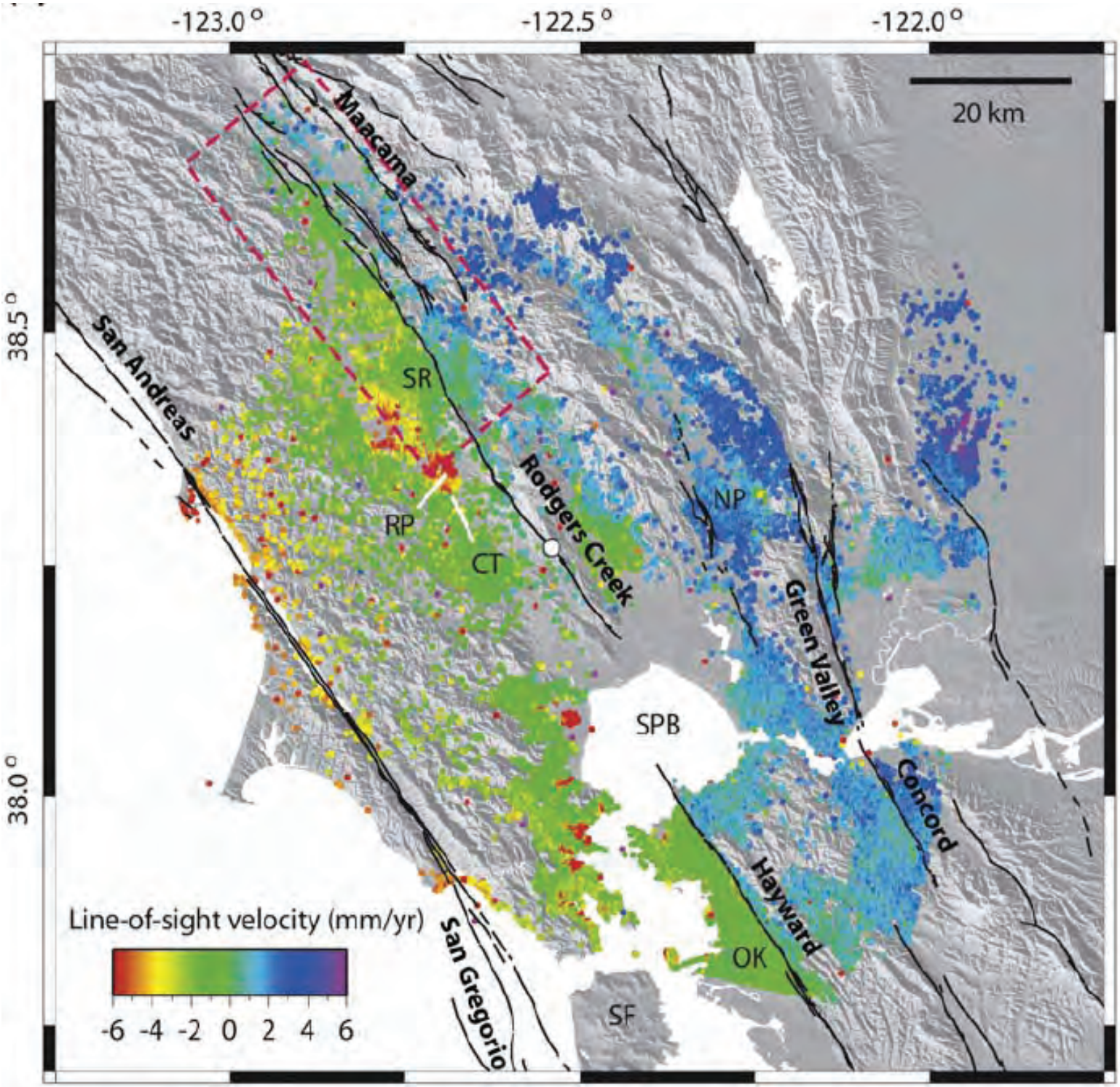






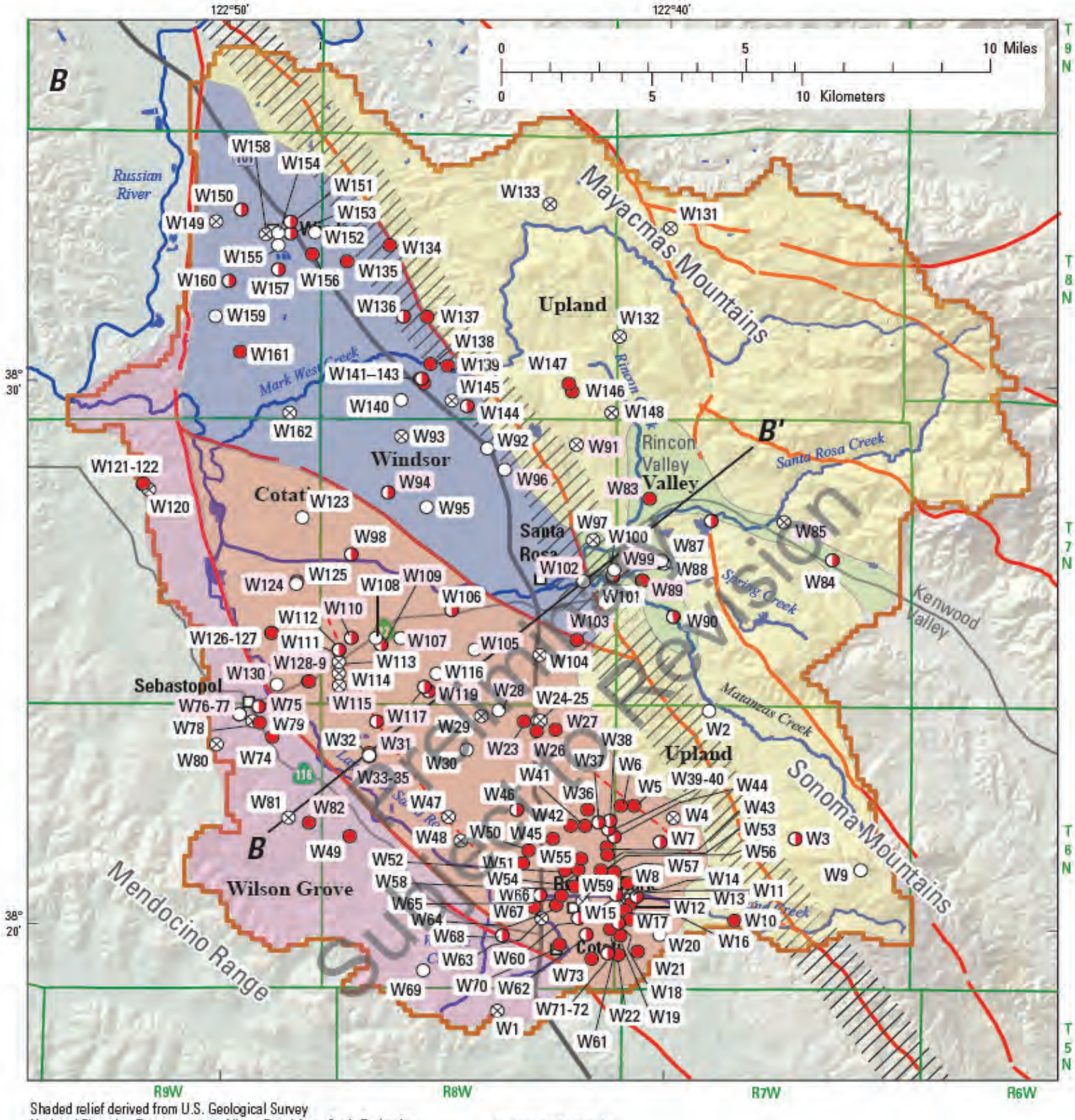
(b) GPS Station Output for Santa Rosa Plain, in millimeters.

Figure 2-18. GPS Stations and InSAR Figures, Plan Area.



(c) InSAR Output for Santa Rosa Plain, 1992-2001.
Fault summary map and PS-InSAR data for the northern San Francisco Bay area. Red colors indicate motion away from the satellite (range increase); blue, motion towards. Regional surface velocity field. Solid lines show mapped active faults (U.S. Geological Survey and California Geological Survey, Quaternary fault and fold database for the United States, http://earthquake.usgs.gov/regional/qfaults/, 2007).After Funning et. al., 2007, modified.

Figure 2-18 GPS Stations and InSAR Figures, Plan Area.



Shaded relief derived from U.S. Geological Survey National Elevation Dataset, 2006, Albers Equal Area Conic Projection

EXPLANATION

Groundwater storage units

- Cotati Basin
- Windsor Basin
- Valley
- Wilson Grove
- Upland

Rodgers Creek fault zone

Inferred fault

B — B' Line of section

Well perforated interval

- Shallow (0' to 150' below land surface datum)
- Mixed
- Deep (greater than 150')
- Construction unknown

W82 Well used for section B-B'

Figure 2-19 . Location of Water Qaulity Sampling Wells

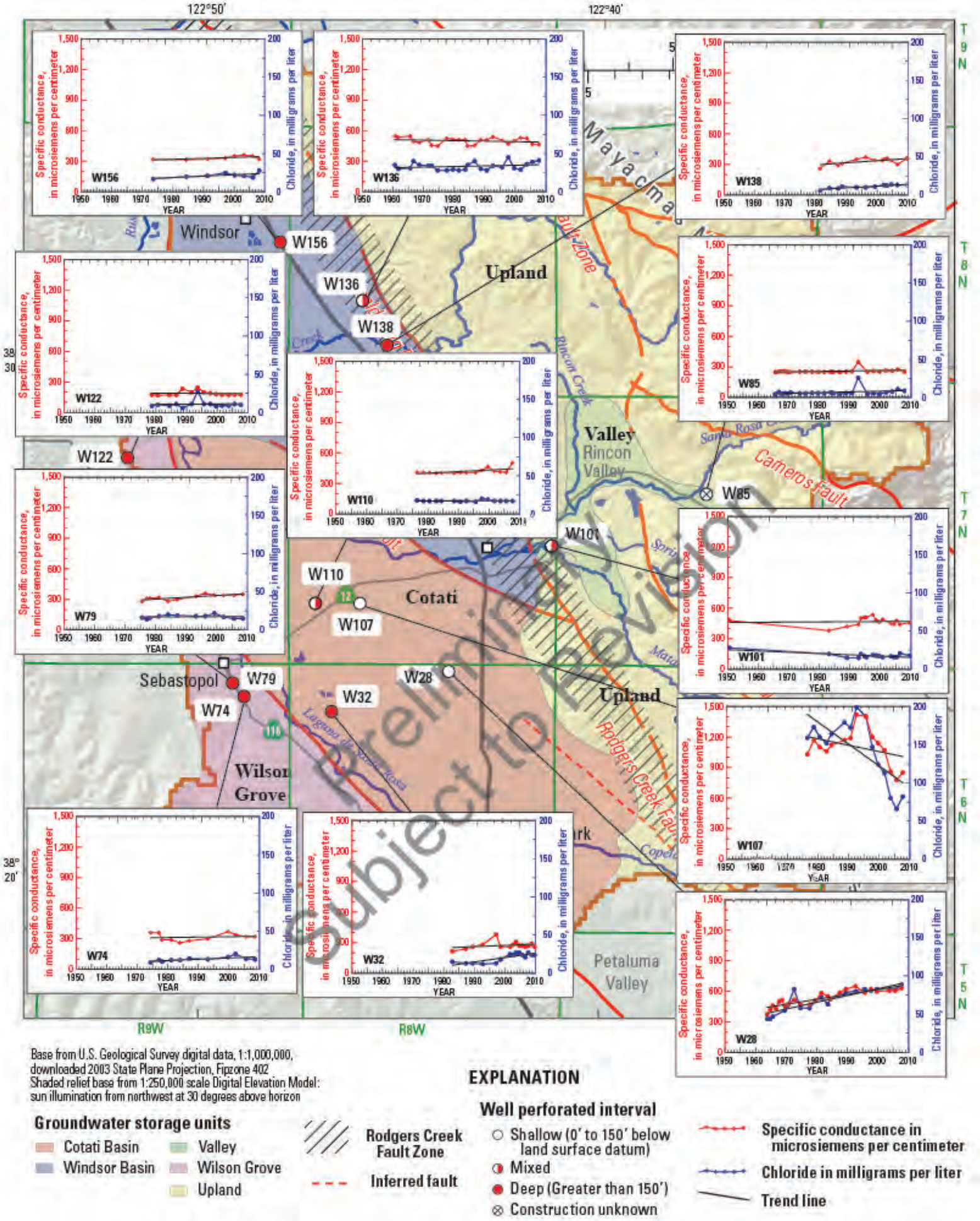


Figure 2-20 Specific Conductance and Chloride Trend Lines.

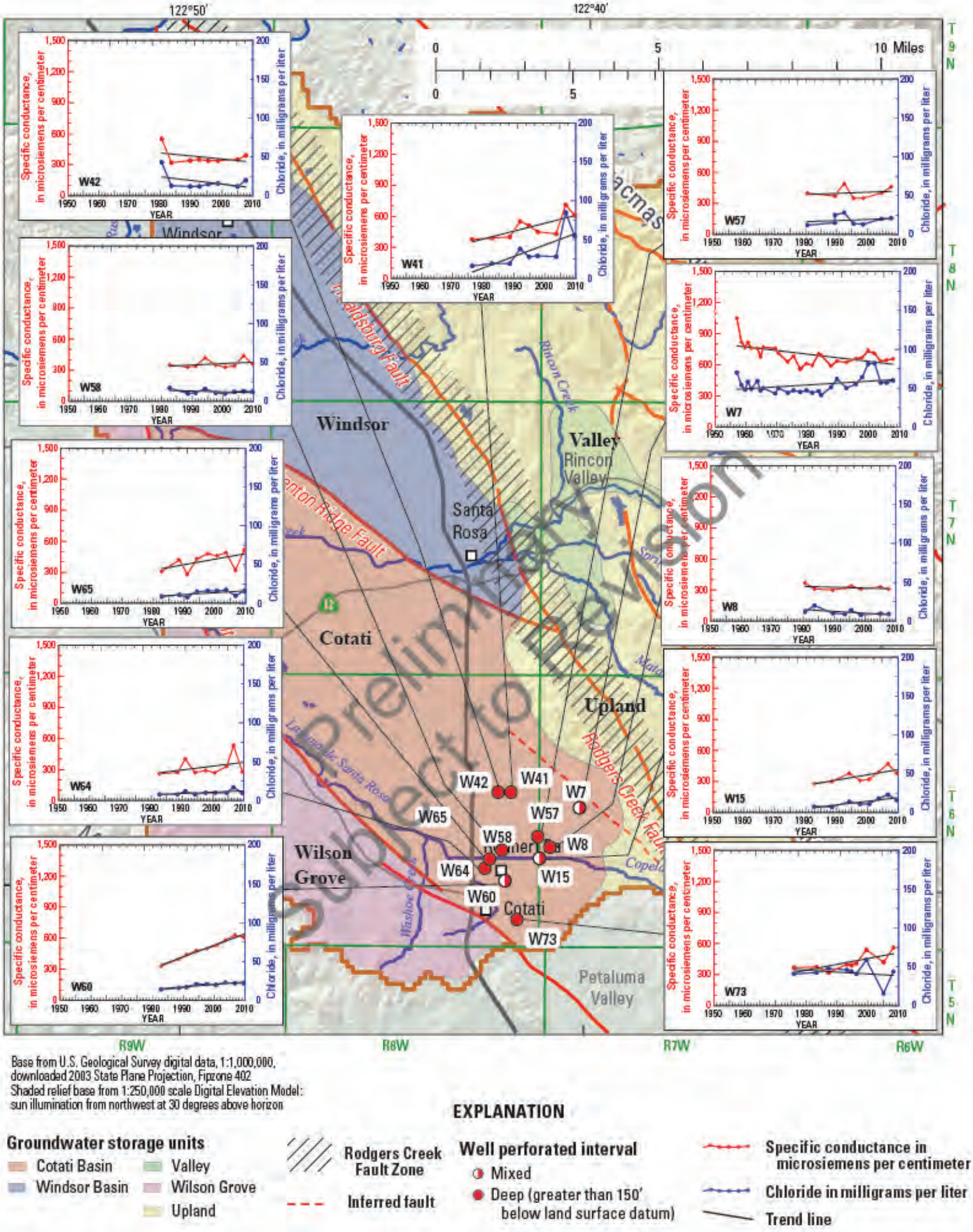
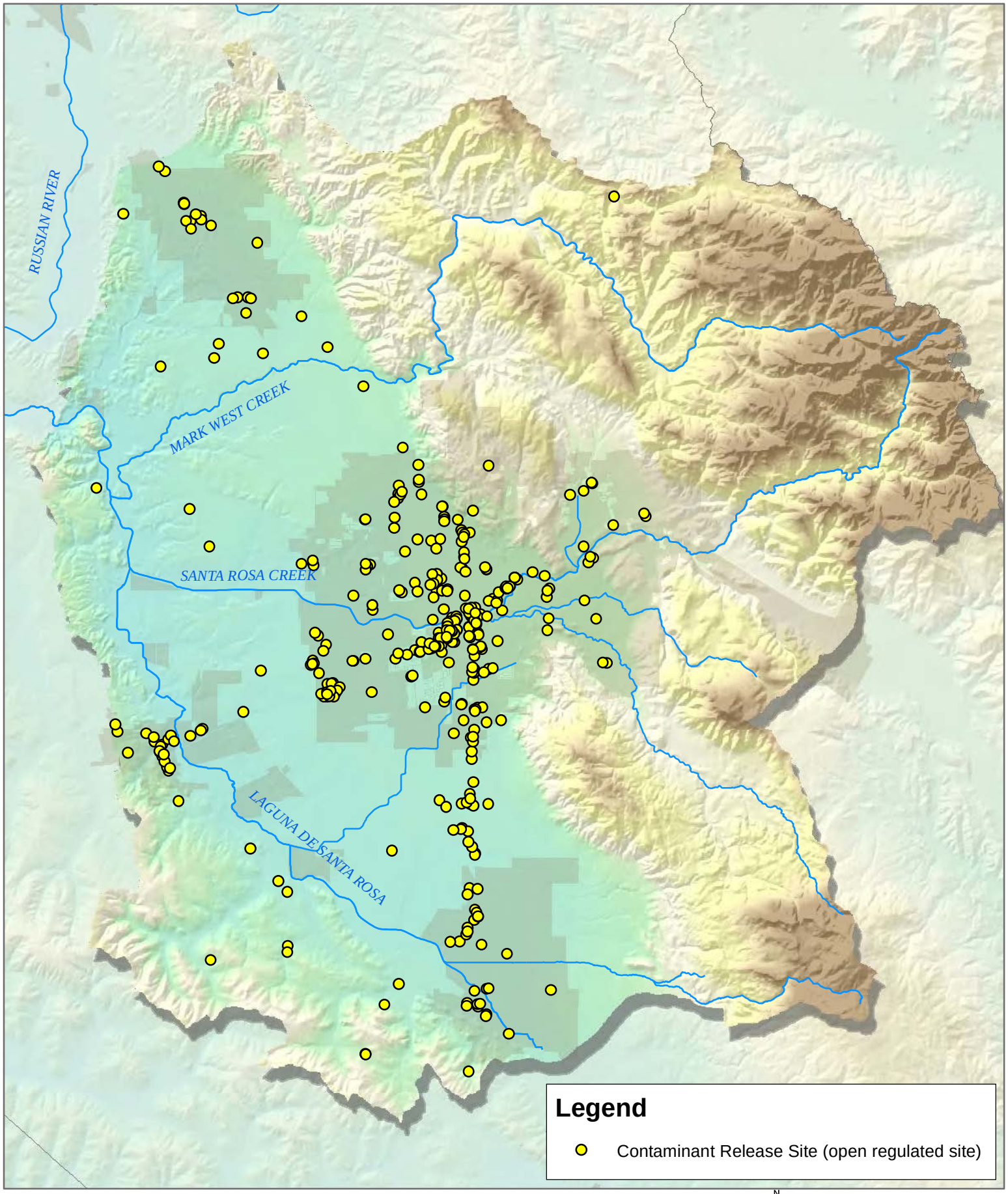


Figure 2-20 Specific Conductance and Chloride Trend Lines.

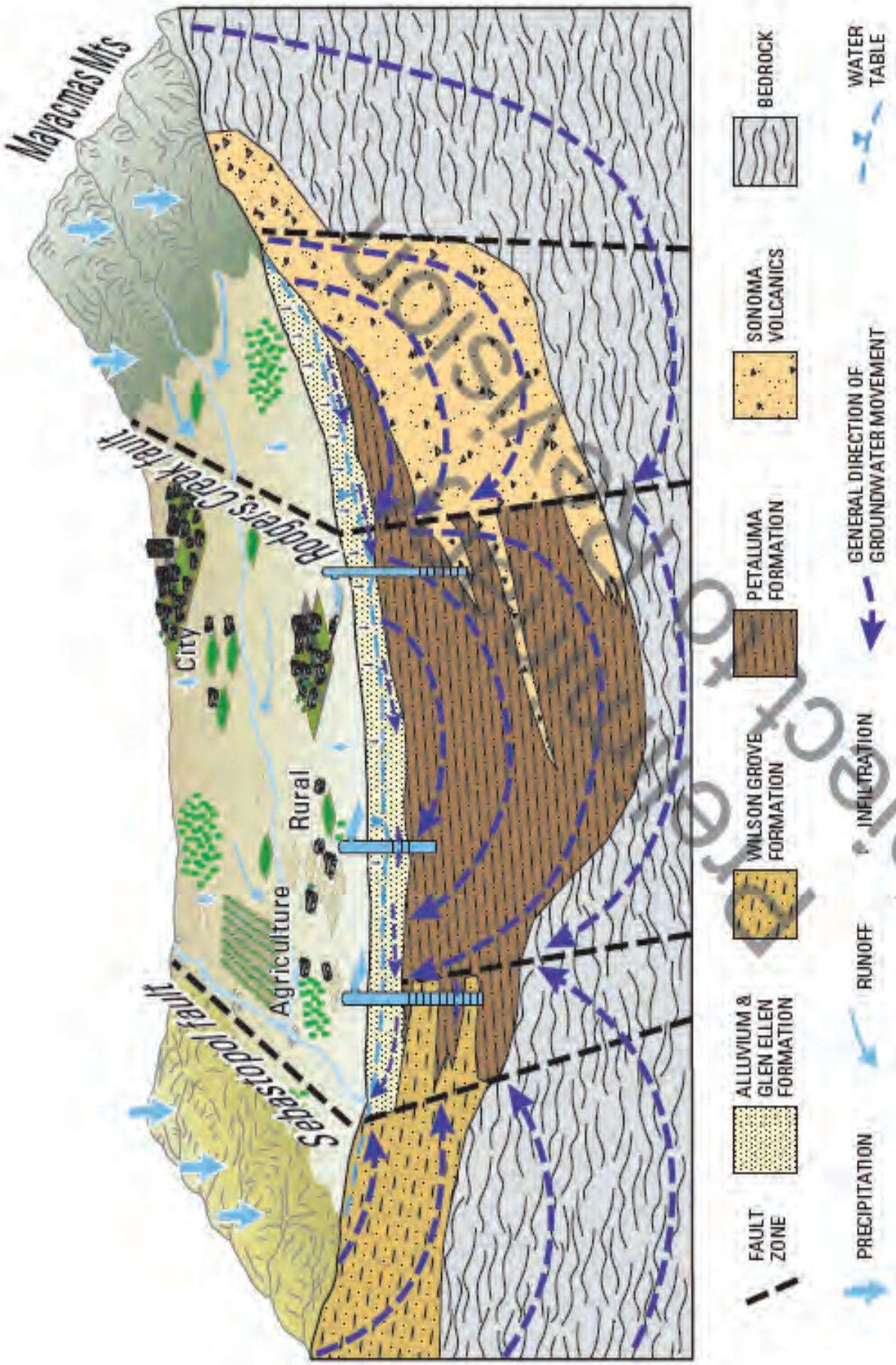


Contaminant Release Sites, Plan Area.

0 1 2 4 Miles

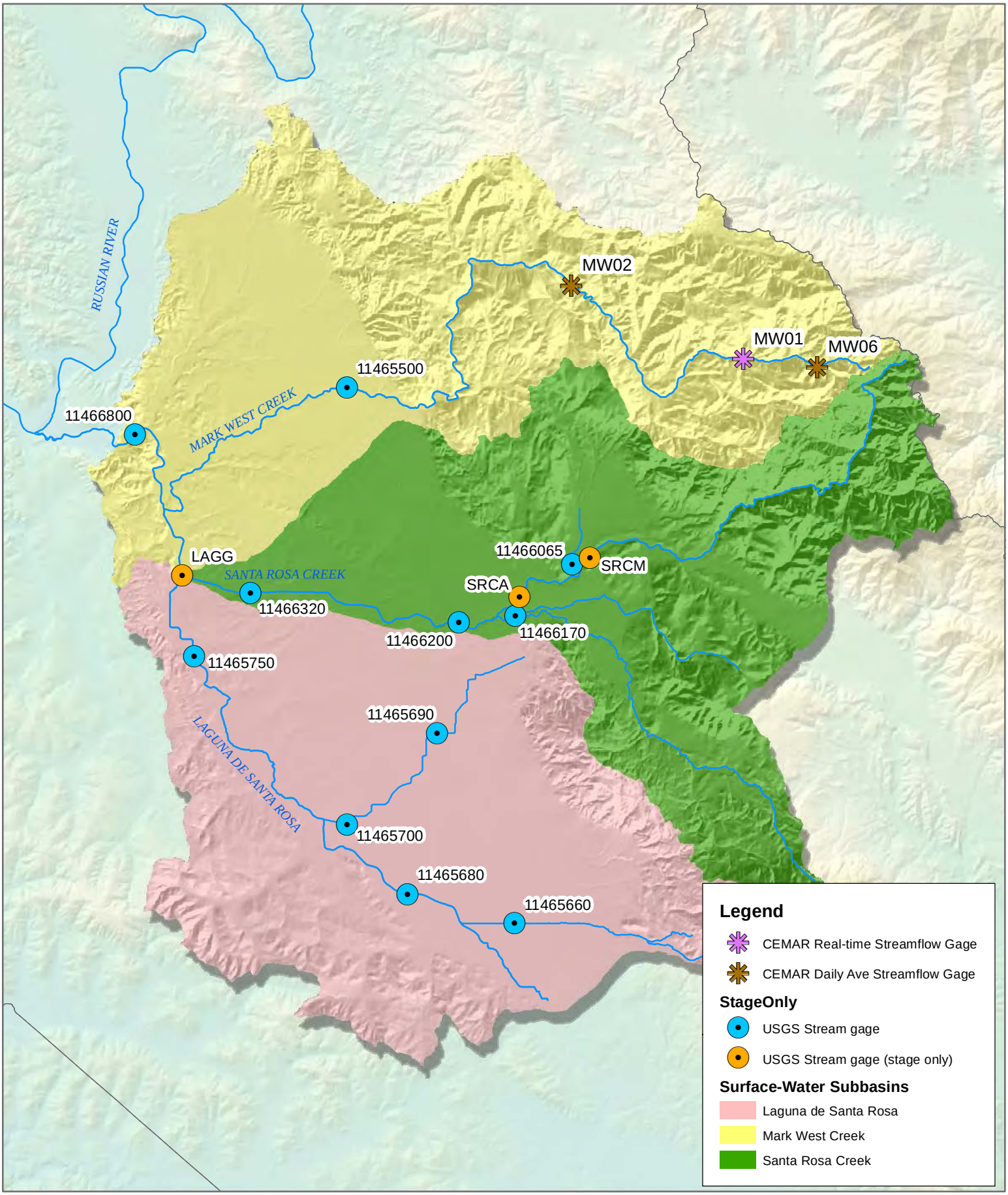
N W E S

Figure 2-21



Subject to Revision

Figure 2-22 Hydrogeologic Conceptual of the Plan Area.

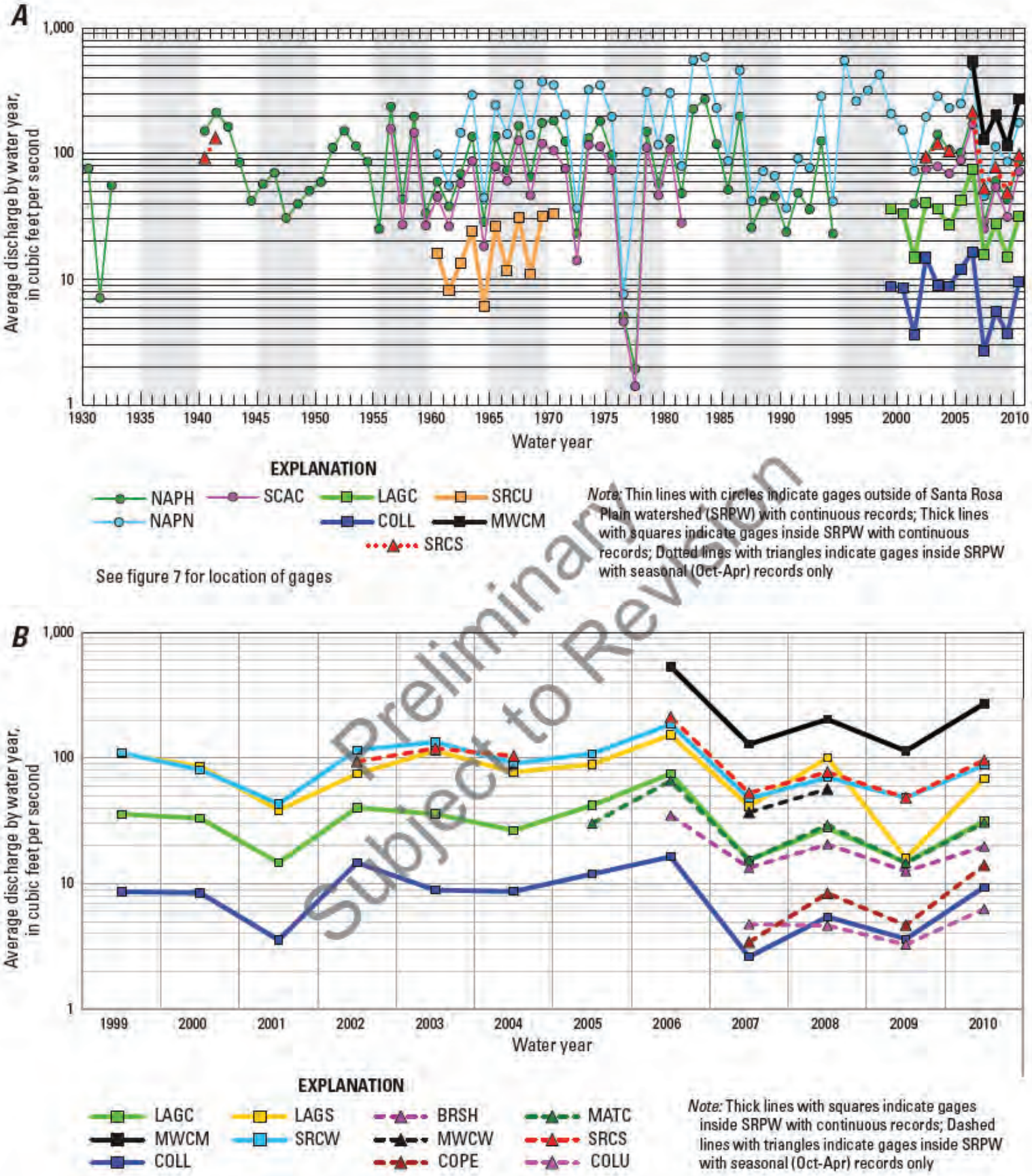


Subwatersheds, Major Streams and Stream Gages in the Plan Area.

0 1 2 4 Miles

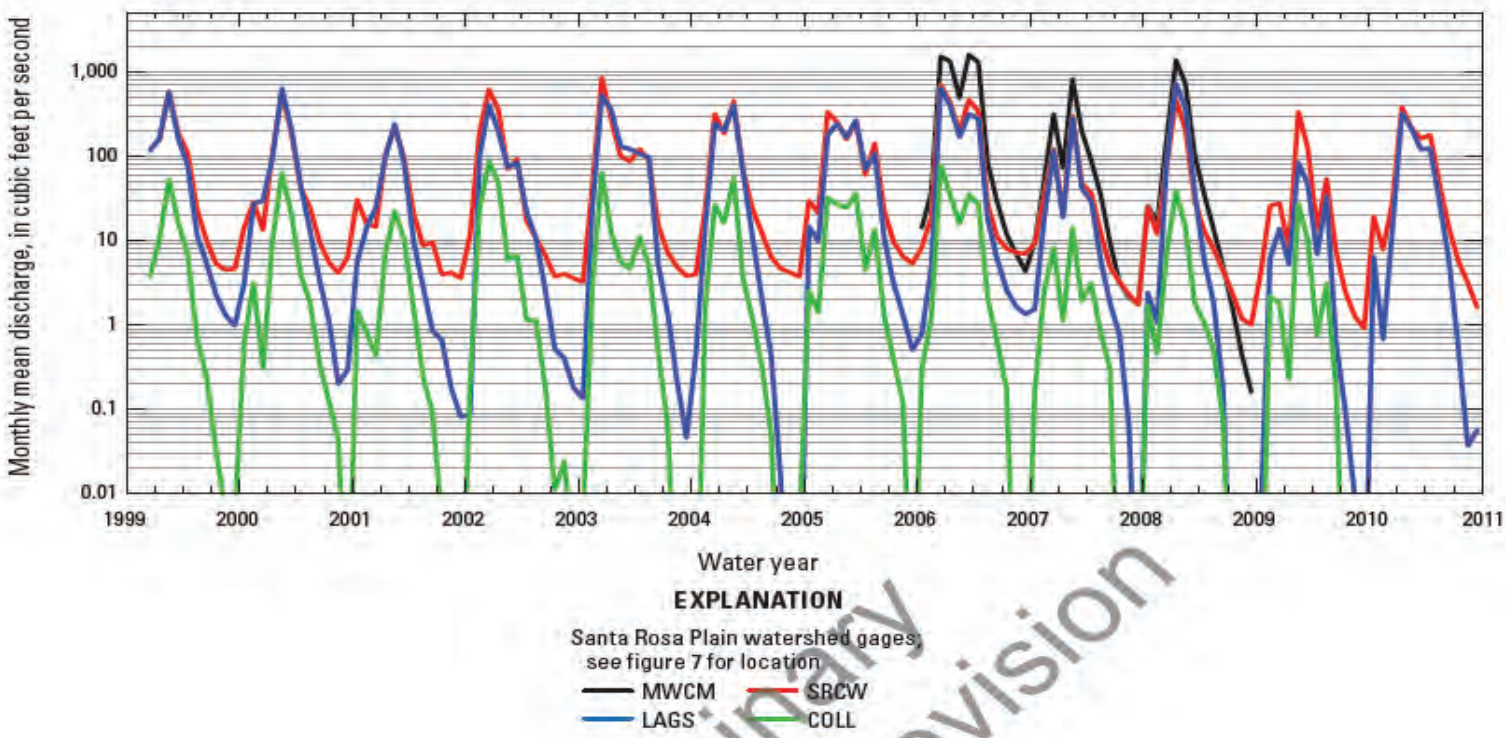
N W E S

Figure 2-23



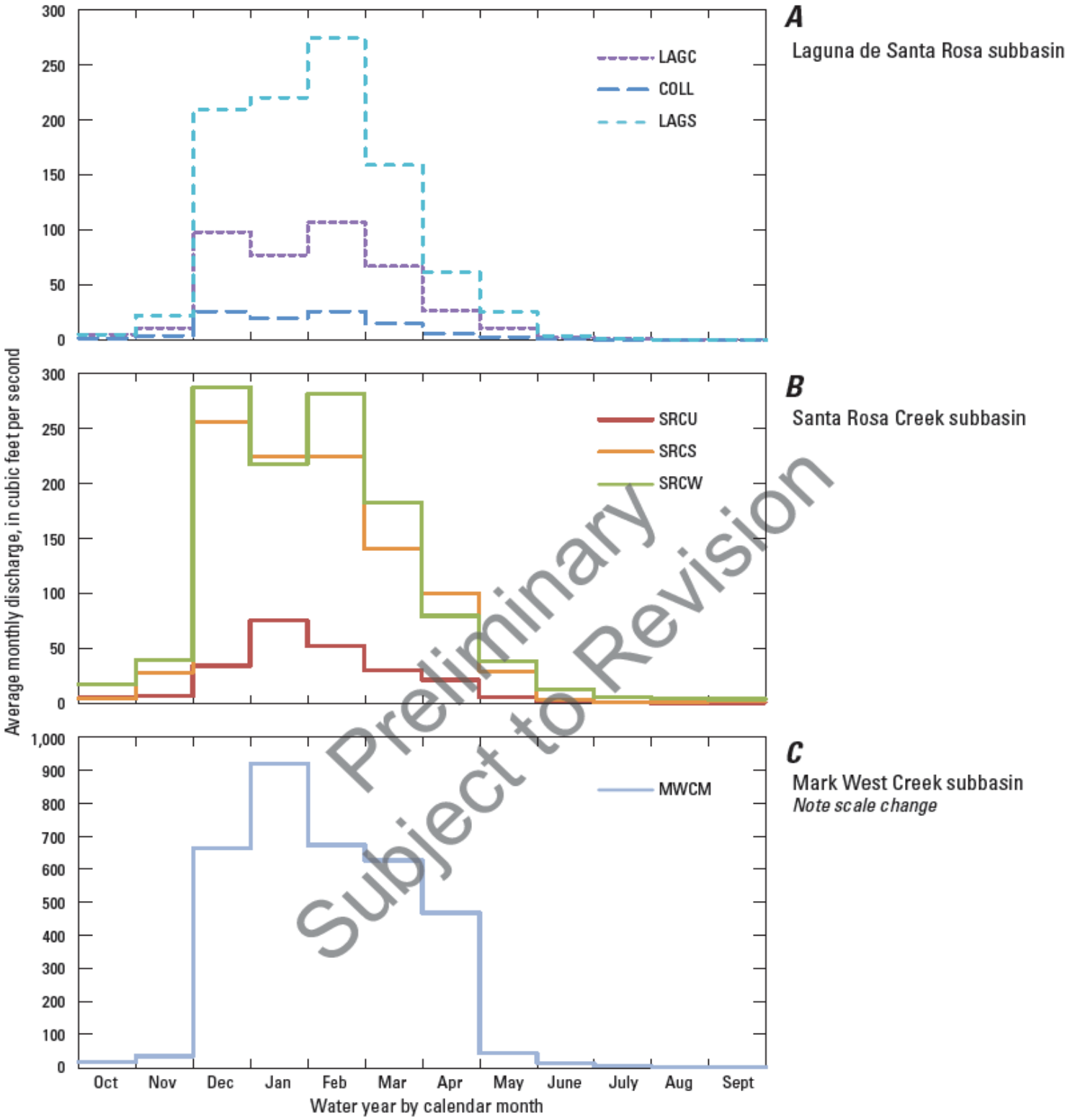
Preliminary Subject to Revision

Figure 2-24. Average Water Year Discharge for Gages Within and Adjacent to the Plan Area. (A) Long-term (water-year 1930-2010) records. (B) Recent (water-year 2000-10) records.



Preliminary Subject to Revision

Figure 2-25 Monthly Mean Discharge for Four Slected Stream Gages in the Plan Area.



Preliminary Subject to Revision

Figure 2-26. Average monthly Discharge for Gages with Continuous Stream Discharge Records in the Plan Area.

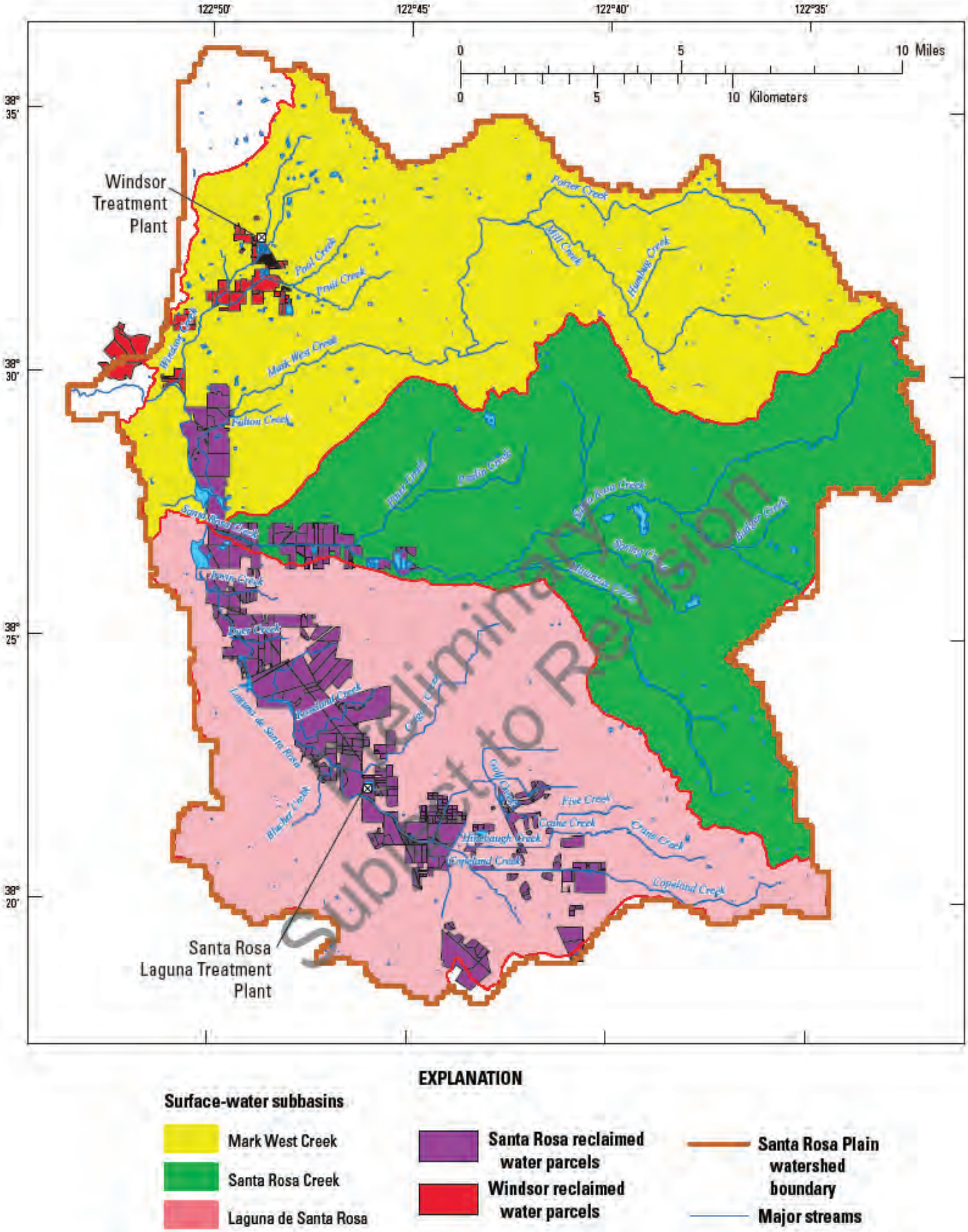
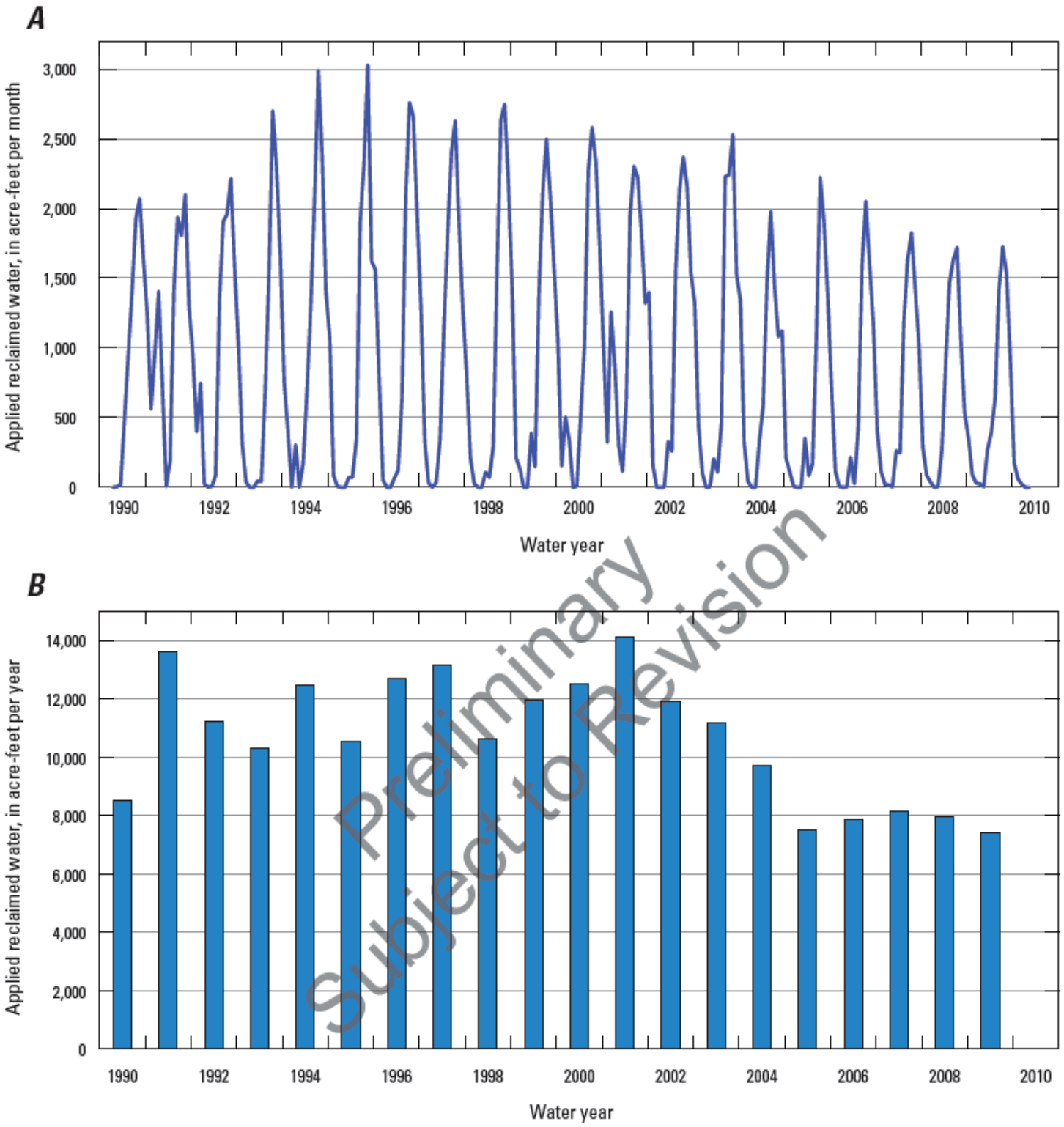


Figure 2-27. Location of Areas of Recycled Water Application for Irrigation.



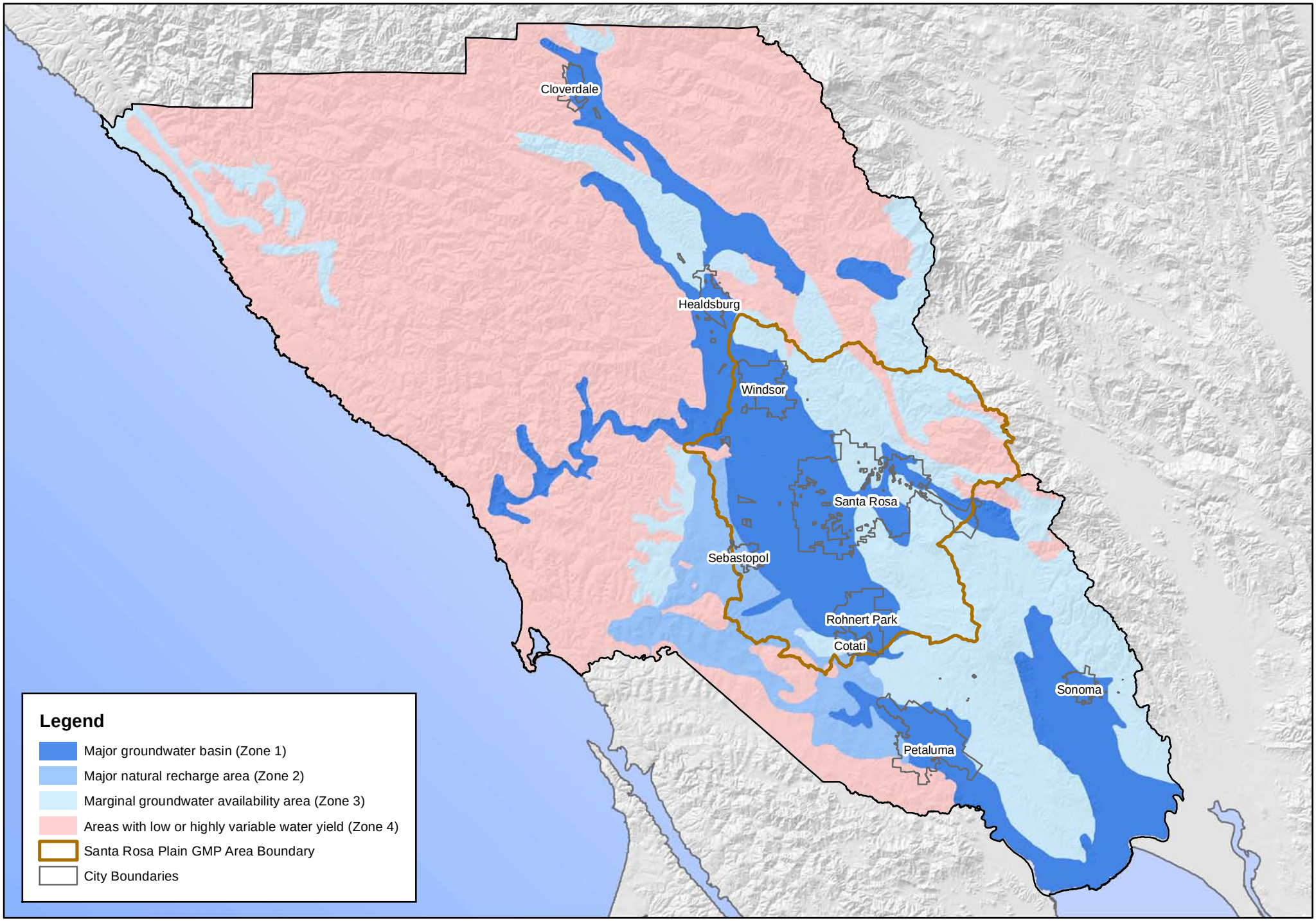
Preliminary
Subject to Revision

Figure 2-28. Volumes of Recycled Water Application for Irrigation by Year.

Table 3-1
Beneficial Uses – Santa Rosa Plain Watershed
North Coast Regional Water Quality Control Board Basin Plan, May 2011

HU/HA /HSA	HYDROLOGIC UNIT/AREA/SUBUNIT/ DRAINAGE FEATURE	BENEFICIAL USES																		
		MUN	AGR	IND	PRO	GWR	FRSH	NAV	POW	REC1	REC2	COMM	WARM	COLD	WILD	RARE	MIGR	SPWN	SHELL	AQUA
114.20	MIDDLE RUSSIAN RIVER HYDROLOGIC AREA																			
114.21	Laguna Hydrologic Subarea	P	E	E	P	E	E	E	E	E	E	E	E	E	E	E	E	E	P	P
114.22	Santa Rosa Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E	E	E	E	E	P	P
114.23	Mark West Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E	E	E	E	E	P	P
114.24	Warm Springs Hydrologic Subarea	E	E	E	P	E	E	E	E	E	E	E	E	E	E	E	E	E		E
114.25	Geyserville Hydrologic Subarea	E	E	E	P	E	E	E	P	E	E	E	E	E	E	E	E	E	P	P
114.26	Sulphur Creek Hydrologic Subarea	E	E	E	P	E		E	P	E	E	E	E	E	E	E	E	E		P

MUN municipal and domestic supply
AGR agricultural supply
IND industrial service supply
PRO industrial process supply
GWR groundwater recharge
FRSH freshwater replenishment
NAV navigation
POW hydropower generation
REC1 water contact recreation
REC2 non-contact water recreation
COMM commercial and sport fishing
WARM warm freshwater habitat
COLD cold freshwater habitat
WILD wildlife habitat
RARE rare, threatened, or endangered species
MIGR migration of aquatic organisms
SPWN spawning, reproduction, and/or early development
SHELL shellfish harvesting
AQUA aquaculture
E existing beneficial use
P potential beneficial use



Groundwater Availability - Sonoma County

0 5 10 20 Miles

N W E S

Figure 3-1

Section 5.0 Management Components

Tables and Figures

Table 5-1 Basin Management Objectives and Management Components 5-1
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Figure 5-1 Groundwater Monitoring Well Locations..... 5-6
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Figure 5-4 Streamflow Gaging Stations, Santa Rosa Plain Watershed 5-10
Figure 5-5 Weasther Station Locations, Santa Rosa Plain Watershed. 5-12

Table 5-1 Summary of Basin Management Objectives and Management Components.

Basin Management Objectives	BMO No.1 Ensure information is readily accessible through the internet and other public forums, and receive public input during public meetings	BMO No.2 Provide information to increase public awareness of current surface water and groundwater supplies and planning activities in a changing climate	BMO No.3 Measure groundwater elevations and foster activities aimed at maintaining groundwater elevations	BMO No.4 Evaluate surface water and groundwater interactions and foster protection against adverse interactions	BMO No.5 Monitor groundwater quality and foster activities aimed at groundwater protection and improvement	BMO No.6 Monitor for land subsidence and foster activities aimed at protecting against groundwater extraction-related land subsidence	BMO No.7 Monitor rainfall to improve modeling of water supply through a better understanding of rainfall distribution and density	BMO No.8 Maintain and update the surface water/ groundwater model to support and enhance science-based decision-making	BMO No.9 Identifymap and encourage protection of groundwater recharge areas, and provide groundwater recharge area maps to local agencies for planning	BMO No.10 Enhance groundwater recharge while protecting or improving groundwater quality	BMO No.11 Encourage best practices and proper permitting for the construction, placement, reconstruction and destruction of all wells	BMO No.12 Promote actions to conserve and reduce water usage and increase water and energy efficiency by urban and non-urban water users	BMO No.13 Increase water reuse in a safe and environmentally sound manner to enhance water supply reliability and reduce demands on groundwater and surface water resources	BMO No.14 Improve coordination and interaction between water resource management agencies and further cultivate state and federal partnerships for program implementation	BMO No.15 Conjunctively manage surface water and groundwater to improve water supply availability and reliability	BMO No.16 Coordinate surface water and groundwater management with land use planning and development	BMO No.17 Foster shared management responsibilities among urban and rural stakeholders	BMO No.18 Incorporate planning for the potential effects of climate change on surface water and groundwater supplies into existing and future local and regional plans
Component 1 - Stakeholder Involvement																		
Involving the Public	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√
Advisory Groups	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√
Informing Stakeholders & Public Agencies	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√
Partnerships & Coordination	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√	√
Component 2 - Monitoring Program & Modeling																		
Groundwater-Level Monitoring			√	√	√	√		√						√			√	
Groundwater Quality Monitoring				√	√			√						√				
Ineliastic Land Surface Subsidence Monitoring			√			√		√						√				
Surface Water-Groundwater Interaction Monitoring			√	√				√						√				
Hydrometeorological Monitoring							√							√			√	
Monitoring & Reporting Protocols			√	√	√	√	√	√						√				
Data Management			√	√	√	√	√	√						√				
Data Needs Prioritization			√	√	√	√	√	√						√				
Modeling			√	√	√	√	√	√						√				√
Component 3 - Groundwater Protection																		
Maintain Groundwater Levels			√	√	√					√			√				√	
Prevent Adverse Interactions Between Groundwater and Surface Water			√		√					√			√					
Well Construction, Maintenance, Protection, Abandonment and Destruction				√	√						√			√			√	
Mapping and Protecting Groundwater Recharge Areas			√	√	√		√		√	√				√			√	
Evaluate Distribution and Remediation of Contaminated Groundwater				√	√					√				√				
Identify and Provide Information to the Public on Groundwater Protection	√	√		√	√					√							√	
Component 4 - Increase Conservation & Efficiency																		
Continue and Increase BMPs for Urban Water Conservation			√	√		√						√					√	
Voluntary Water Conservation BMPs for Unincorporated Areas			√	√		√						√					√	
Component 5 - Increase Groundwater Recahrge																		
Stormwater Recharge by Infiltration			√	√	√	√				√				√	√		√	√
Aquifer Storage & Recovery and Groundwater Banking			√	√	√	√				√				√	√		√	√
Surface Water Use In Lieu of Groundwater			√	√	√	√				√				√	√		√	√
Low Impact Development (LID) in New Construction			√	√	√	√			√	√				√	√		√	√
Component 6 - Increase Water Reuse																		
Increase Recycled Water for Agricultural Irrigation			√	√		√							√	√	√		√	
Increase Recycled Water for Landscape Irrigation			√	√		√							√	√	√		√	
Graywater for Domestic Landscape Irrigation			√	√		√							√		√		√	
Component 7 - Integrated Groundwater Management																		
Groundwater Management & Land Use Planning			√	√	√	√		√	√	√	√			√		√		√
Monitor, Track and Incorprate UWMP Revisions into GMP Updates				√										√		√		√
Incorporate Multi-Agency and -Oganization Integration into GMP				√				√	√					√	√	√		√
Plan for Climate Change		√		√				√										√
Multi-Benefit Actions & Activities				√				√		√				√		√		

Table 5-2
Summary of Proposed and Existing Monitoring Programs
Santa Rosa Plain Watershed

Parameter Monitored	**Existing Program**	**Proposed Program**
Groundwater Levels (variable monitoring frequency)	CASGEM - 36 private water wells, dedicated monitoring wells and inactive municipal supply wells	
	DWR – 27 private wells	
	PRMD - 10 public supply wells	
Groundwater Quality (varied sampling) Specific Conductance	DWR - ?? wells	
General Minerals	DWR - ?? wells	
Drinking Water Title 22 Analytes	Public & private water systems	
Land Surface Subsidence	3 Plate Boundary GPS Stations	
Surface Water	12 Streamflow Gauging Stations	
Rainfall Monitoring	15 Weather Stations	

Table 5-3
Summary of Existing Groundwater-Level Monitoring Wells
Santa Rosa Plain Watershed

SRP_ID	Well Type	Program	Well Depth Category
1	Private	CASGEM	<200
2	Private	CASGEM	<200
3	Private	CASGEM	<200
4	Private	CASGEM	200-500
5	Private	CASGEM	Unknown
6	Private	CASGEM	Unknown
7	Dedicated	CASGEM	Unknown
8	Dedicated	CASGEM	Unknown
9	Dedicated	CASGEM	<200
10	Dedicated	CASGEM	<200
11	Dedicated	CASGEM	<200
12	Dedicated	CASGEM	<200
13	Dedicated	CASGEM	<200
14	Dedicated	CASGEM	<200
15	Dedicated	CASGEM	<200
16	Dedicated	CASGEM	Unknown
17	Dedicated	CASGEM	Unknown
18	Dedicated	CASGEM	<200
19	Dedicated	CASGEM	<200
20	Dedicated	CASGEM	200-500
21	Dedicated	CASGEM	<200
22	Dedicated	CASGEM	<200
23	Dedicated	CASGEM	<200
24	Dedicated	CASGEM	<200
25	Dedicated	CASGEM	200-500
26	Dedicated	CASGEM	200-500
27	Dedicated	CASGEM	<200
28	Dedicated	CASGEM	Unknown
29	Dedicated	CASGEM	Unknown
30	Dedicated	CASGEM	Unknown
31	Inactive Municipal	CASGEM	Unknown
32	Inactive Municipal	CASGEM	>500
33	Inactive Municipal	CASGEM	200-500
34	Inactive Municipal	CASGEM	>500
35	Inactive Municipal	CASGEM	200-500
36	Inactive Municipal	CASGEM	Unknown
37	Private	DWR	Unknown
38	Private	DWR	Unknown
39	Private	DWR	<200
40	Private	DWR	<200
41	Private	DWR	<200
42	Private	DWR	<200
43	Private	DWR	>500
44	Private	DWR	<200

Table 5-3
Summary of Existing Groundwater-Level Monitoring Wells
Santa Rosa Plain Watershed

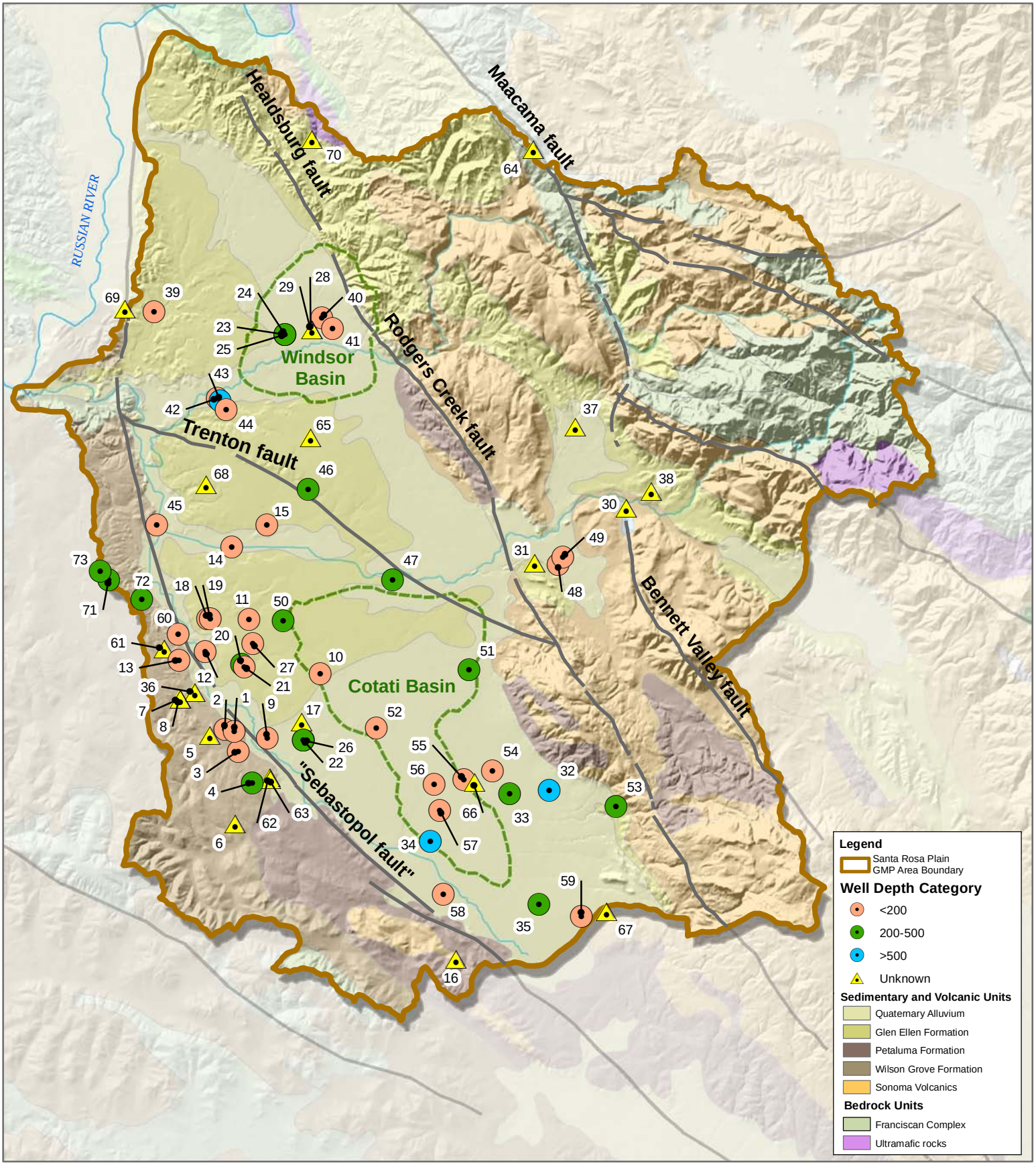
SRP_ID	Well Type	Program	Well Depth Category
45	Private	DWR	<200
46	Private	DWR	200-500
47	Private	DWR	200-500
48	Private	DWR	<200
49	Private	DWR	<200
50	Private	DWR	200-500
51	Private	DWR	200-500
52	Private	DWR	<200
53	Private	DWR	200-500
54	Private	DWR	<200
55	Private	DWR	<200
56	Private	DWR	<200
57	Private	DWR	<200
58	Private	DWR	<200
59	Private	DWR	<200
60	Private	DWR	<200
61	Private	DWR	Unknown
62	Private	DWR	Unknown
63	Private	DWR	Unknown
64	Public Supply	PRMD	Unknown
65	Public Supply	PRMD	Unknown
66	Public Supply	PRMD	Unknown
67	Public Supply	PRMD	Unknown
68	Public Supply	PRMD	Unknown
69	Public Supply	PRMD	Unknown
70	Public Supply	PRMD	Unknown
71	Public Supply	PRMD	200-500
72	Public Supply	PRMD	200-500
73	Public Supply	PRMD	200-500

Table 5-4
Summary of Existing Streamflow Gaging Stations
Santa Rosa Plain Watershed

Station ID	Station Name	Begin Date	End Date	Gage Active?
USGS 11465500	MARK WEST C NR WINDSOR CA	10/1/2006	4/30/2008	Inactive
USGS 11465660	COPELAND C A ROHNERT PARK CA	10/1/2006	Active	Active
USGS 11465680	LAGUNA DE SANTA ROSA A STONY PT RD NR COTATI CA	11/6/1998	Active	Active
USGS 11465690	COLGAN C NR SANTA ROSA CA	10/1/2006	Active	Active
USGS 11465700	COLGAN C NR SEBASTOPOL CA	11/7/1998	Active	Active
USGS 11465750	LAGUNA DE SANTA ROSA C NR SEBASTOPOL CA	11/18/1998	Active	Active
USGS 11466065	BRUSH C A SANTA ROSA CA	10/1/2005	4/30/2010	Inactive
USGS 11466170	MATANZAS C A SANTA ROSA CA	10/1/2004	Active	Active
USGS 11466200	SANTA ROSA C A SANTA ROSA CA	10/1/1939	Active	Active
USGS 11466320	SANTA ROSA C A WILLOWSIDE RD NR SANTA ROSA CA	12/9/1998	Active	Active
USGS 11466800	MARK WEST C NR MIRABEL HEIGHTS CA	10/1/2005	Active	Active
CEMAR MW 01	Mark West Creek below Tarwater Road	10/1/2010	Active	Active
CEMAR MW 02	Mark West Creek above Port Creek	9/25/2012	Active	Active
CEMAR MW 06	Mark West Creek at Neal Creek	9/25/2012	Active	Active

Table 5-5
Summary of Existing Rainfall Monitoring Stations
Santa Rosa Plain Watershed

ID	Active?	Data Source	Agency	Data Availability	Reporting Interval
KSTS	Yes	NWS Mesonet	NWS/FAA		Hourly
DW9521	Yes	NWS Mesonet	APRSWXNET/CWOP		5 Min
DW2144	Yes	NWS Mesonet	APRSWXNET/CWOP		15 Min
CW1766	Yes	NWS Mesonet	APRSWXNET/CWOP		15 Min
RSAC1	Yes	NWS Mesonet	RAWS		Hourly
CW6940	Yes	NWS Mesonet	APRSWXNET/CWOP		10 Min
CW3628	Yes	NWS Mesonet	APRSWXNET/CWOP		20 Min
DW9840	Yes	NWS Mesonet	APRSWXNET/CWOP		15 Min
CW0677	Yes	NWS Mesonet	APRSWXNET/CWOP		10 Min
KF6YUA	Yes	NWS Mesonet	APRSWXNET/CWOP		10 Min
Santa Rosa	Yes	NOAA	Earth System Research Laboratory		
Meachum LFI	Yes	NOAA	Earth System Research Laboratory		
CIMIS #158	Yes	UC Davis	CIMIS	12/24/2000 - on-going	Daily
CIMIS #83	Yes	UC Davis	CIMIS	2/14/1989 - on-going	Daily
NCDC #7965	Yes	UC Davis	NCDC	1/1/1951 - on-going	Daily
CIMIS #103	Yes	UC Davis	CIMIS	12/14/1990 - on-going	Daily



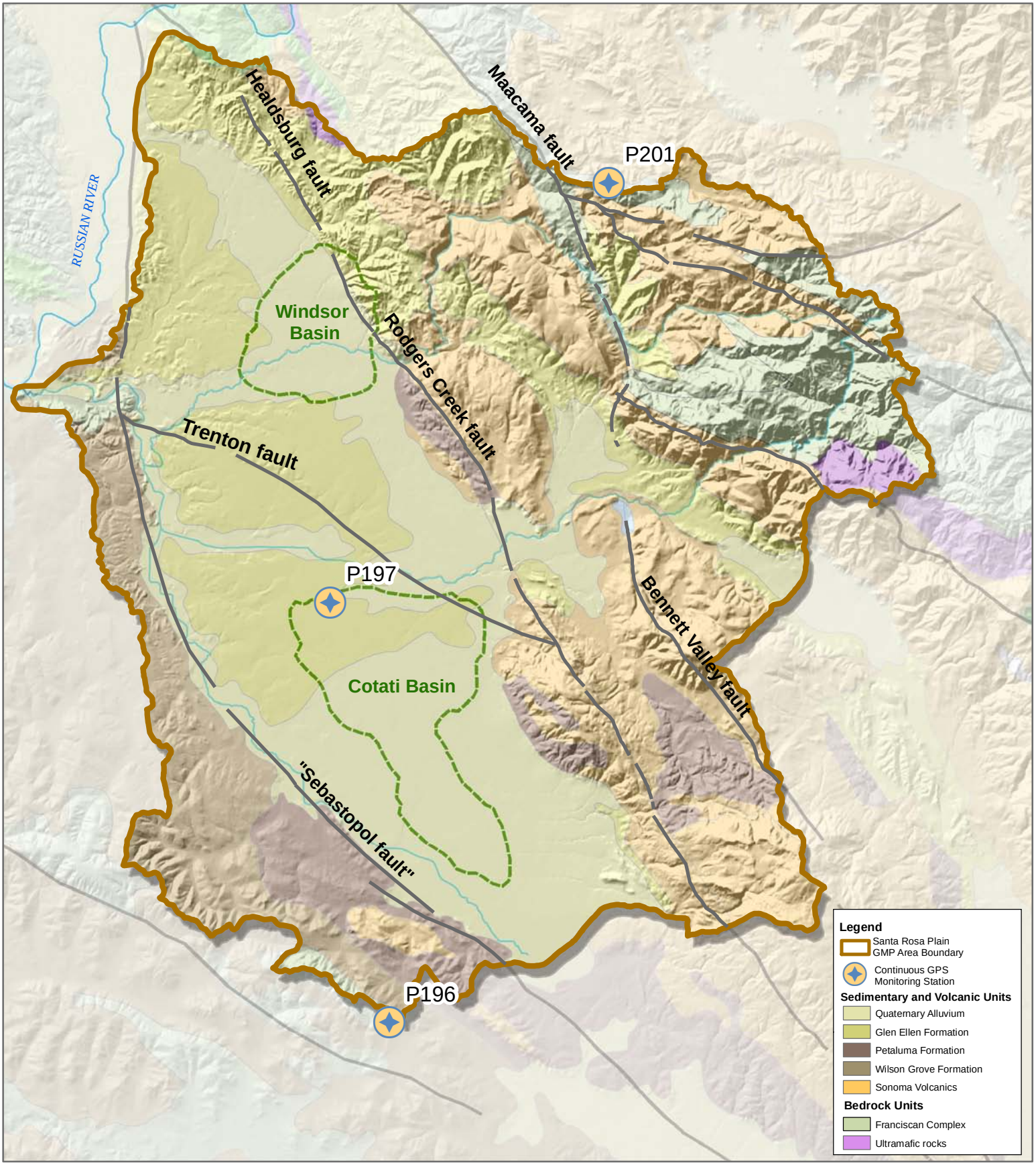
Santa Rosa Plain Watershed Groundwater Monitoring Wells

0 1 2 4 Miles

N W E S

Figure 5-1

Figure 5-2. Groundwater Quality Monitoring Wells, Santa Rosa Plan Watershed. (*Under Development*)

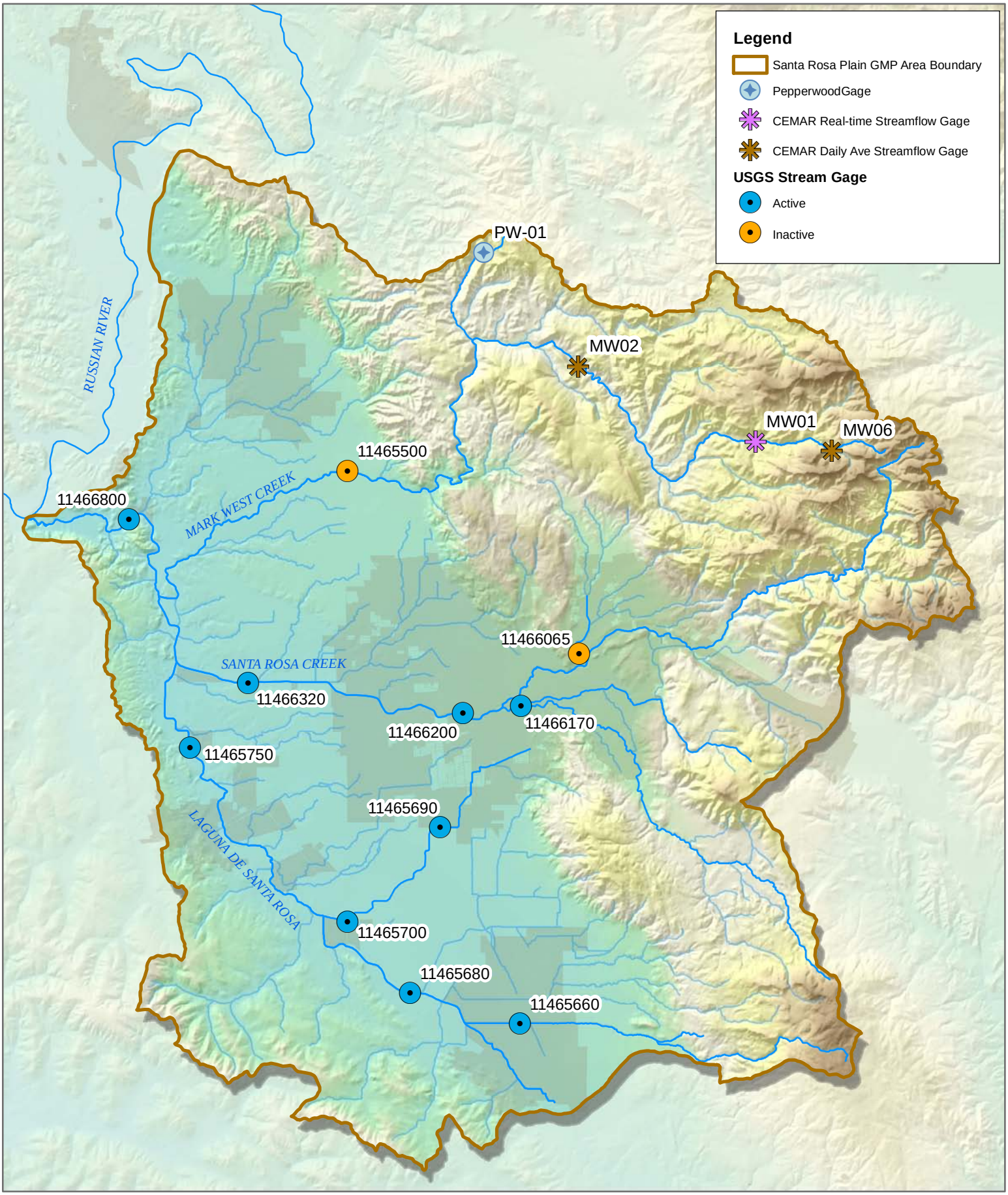


Santa Rosa Plain Watershed
Ground Surface Monitoring Stations

0 1 2 4 Miles

N W E S

Figure 5-3

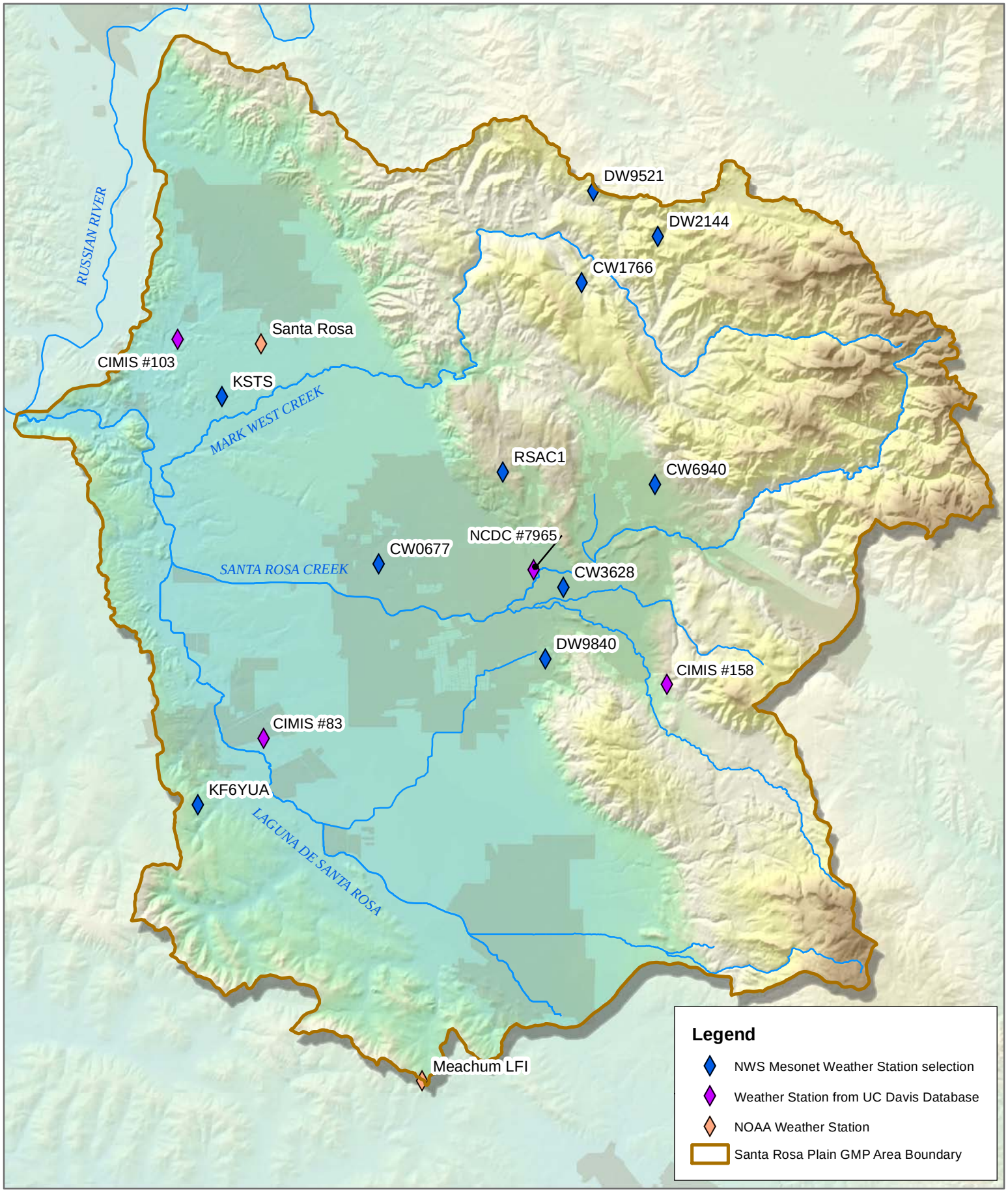


Santa Rosa Plain Watershed
Hydrological Monitoring Stations

0 1.25 2.5 5 Miles

N W E S

Figure 5-4



Santa Rosa Plain Watershed
Meteorological Monitoring Stations

0 1 2 4 Miles

N W E S

Figure 5-5