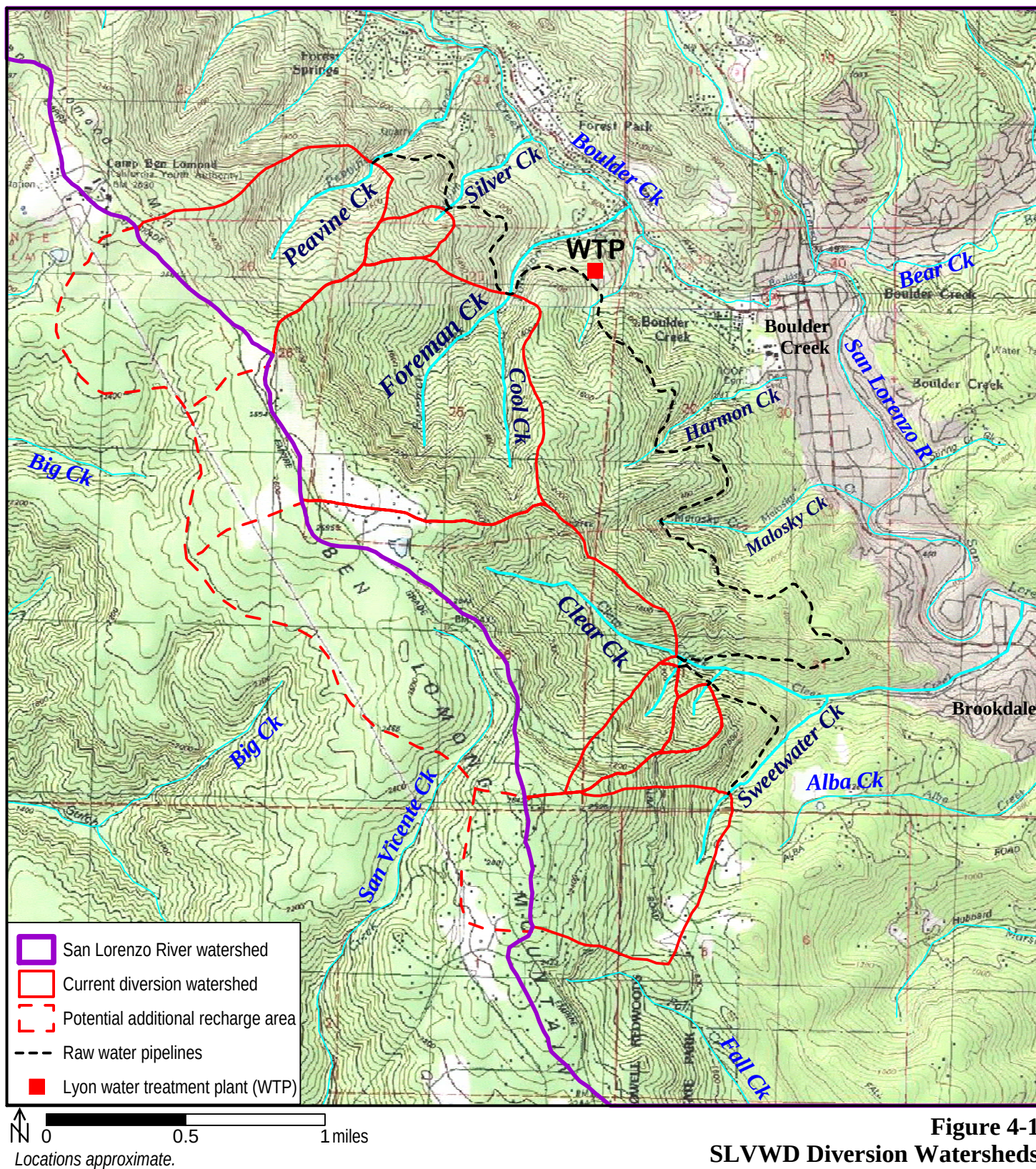
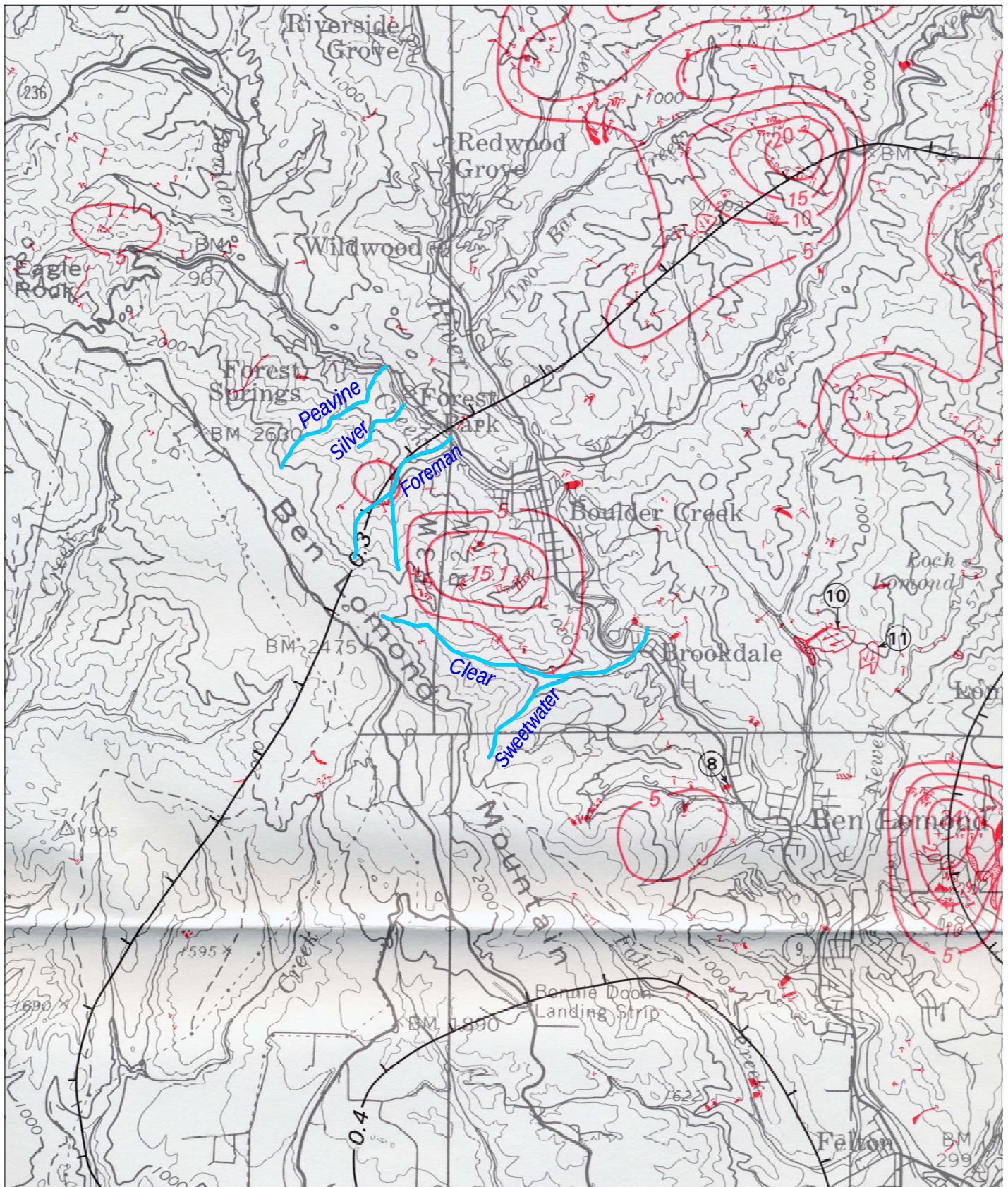






Red contours represent concentration of debris flows per square kilometer.
 Black contours represent normalized storm rainfall.
 Source: USGS Professional Paper 1434, Ellen and others, 1988.

Figure 4-2
Distribution of Landslides and Debris
Flows from the January 1982 Storm



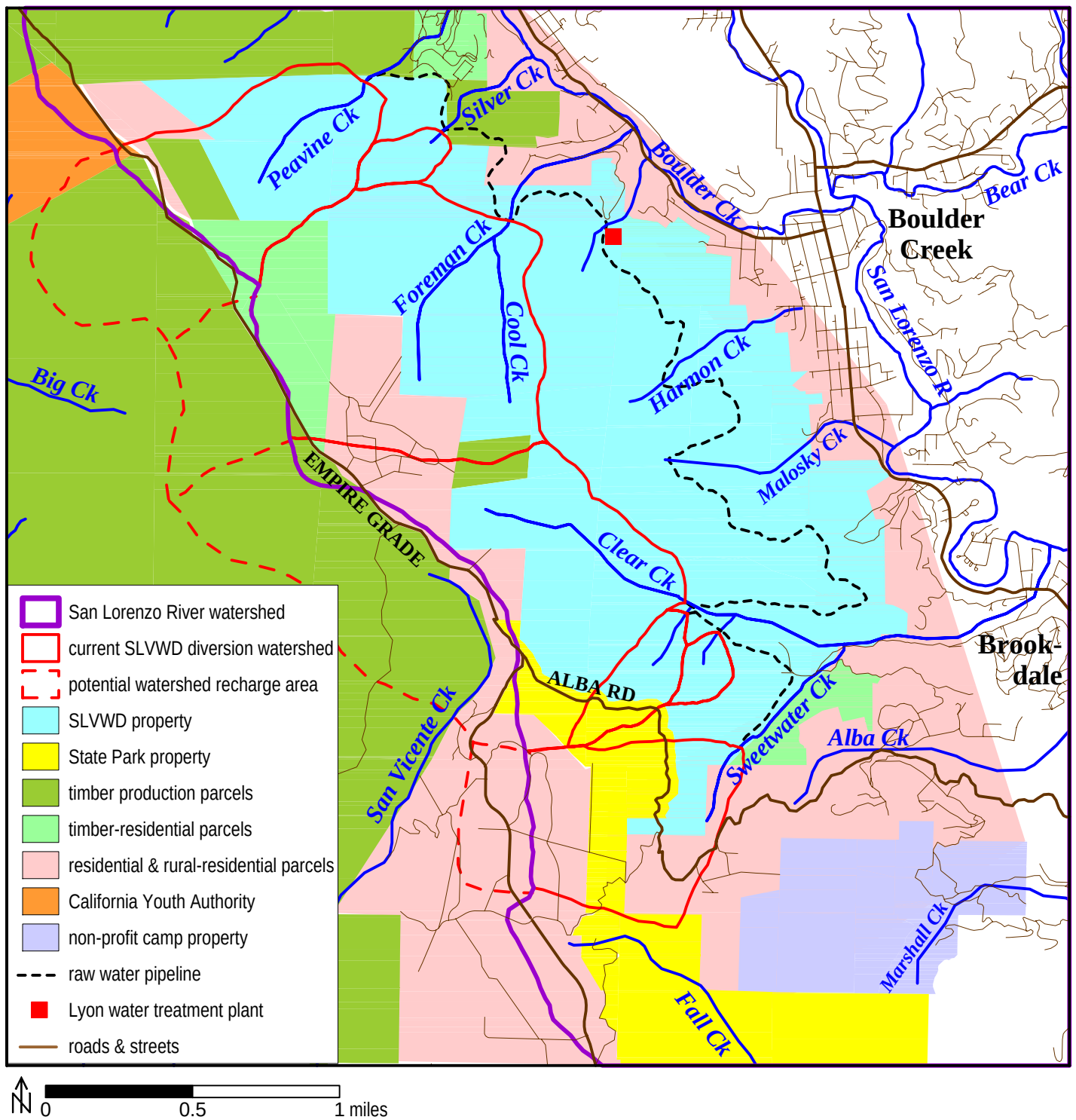


Figure 4-3
Landuse in the Vicinity of SLVWD Diversion Watersheds

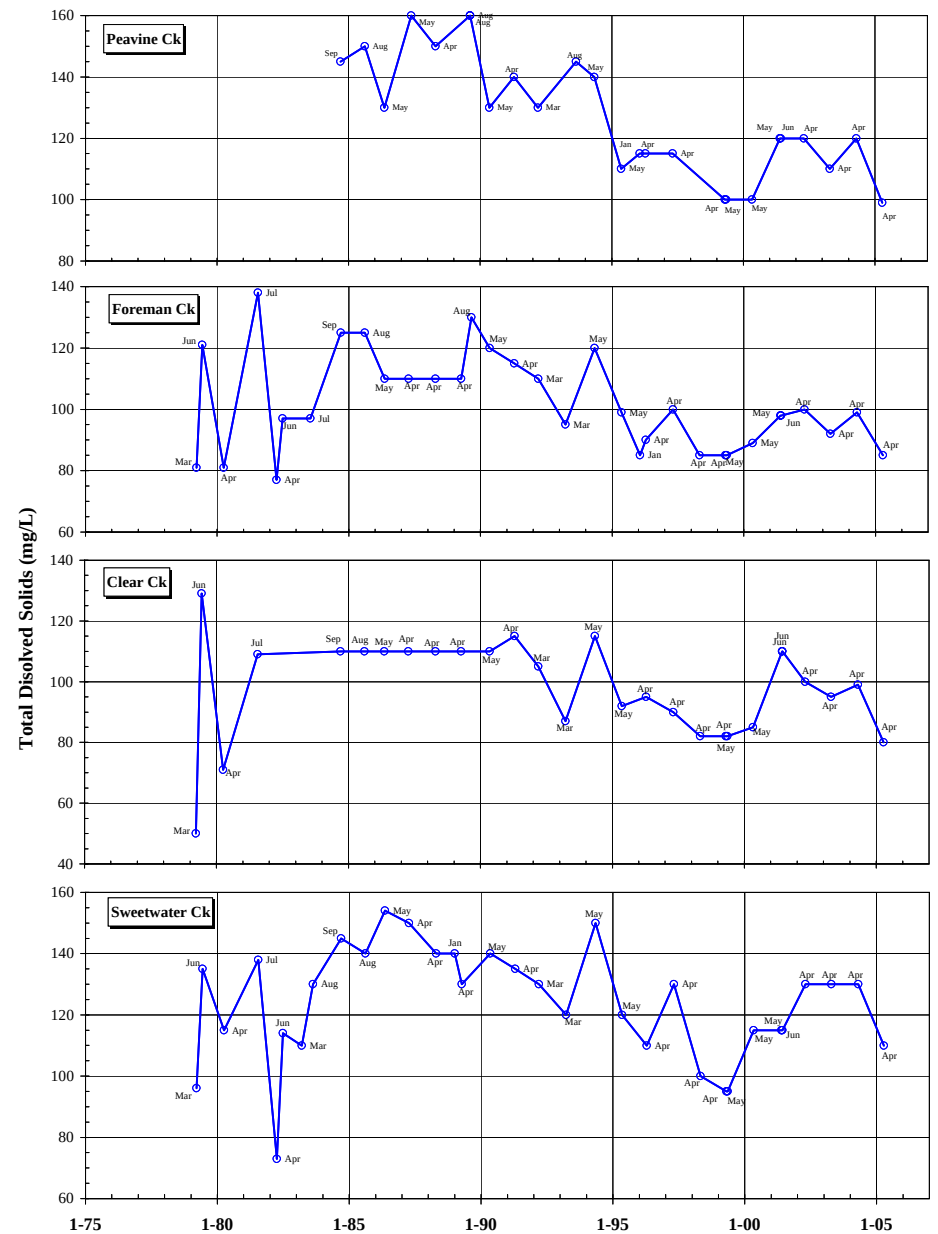
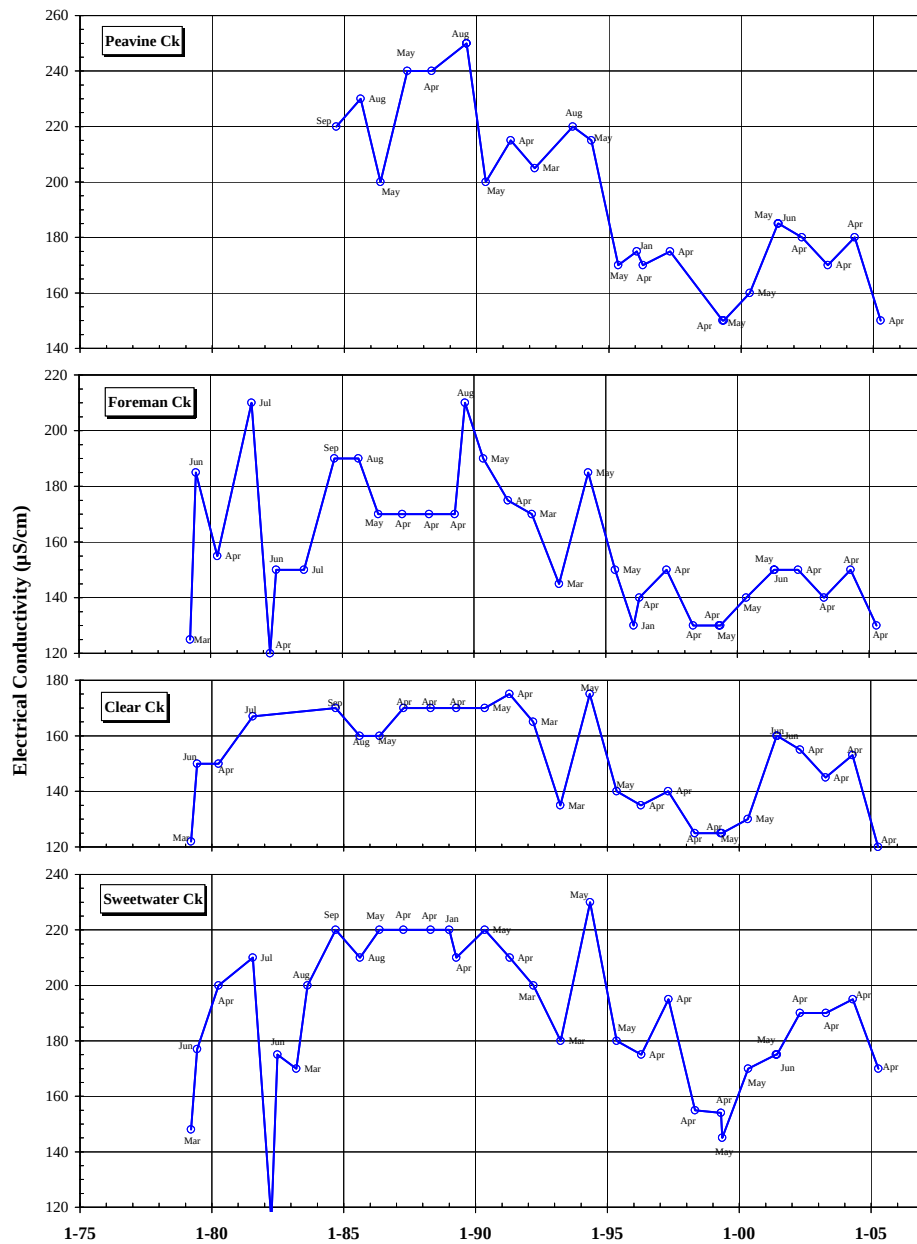


Figure 4-4
Electrical Conductivity and Total Dissolved Solids Concentration, SLVWD Stream Diversions, 1979-2006

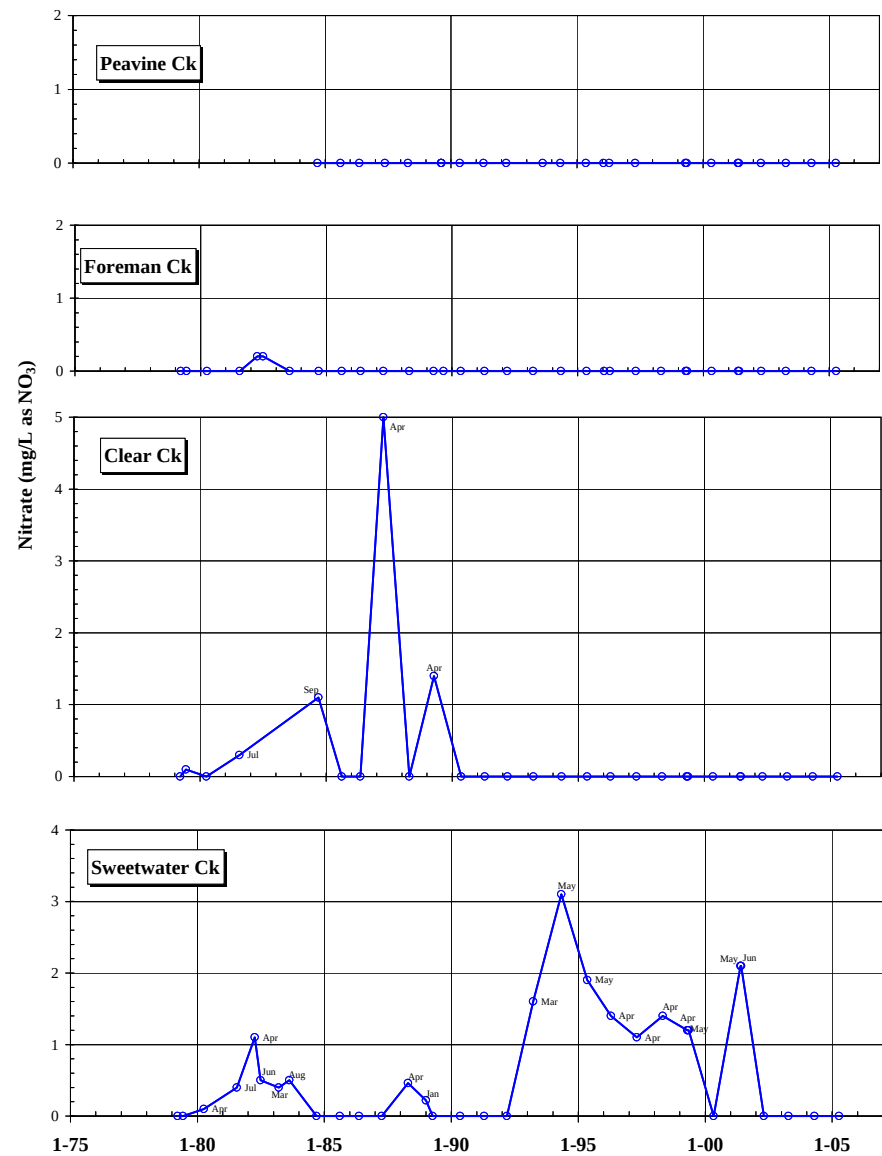
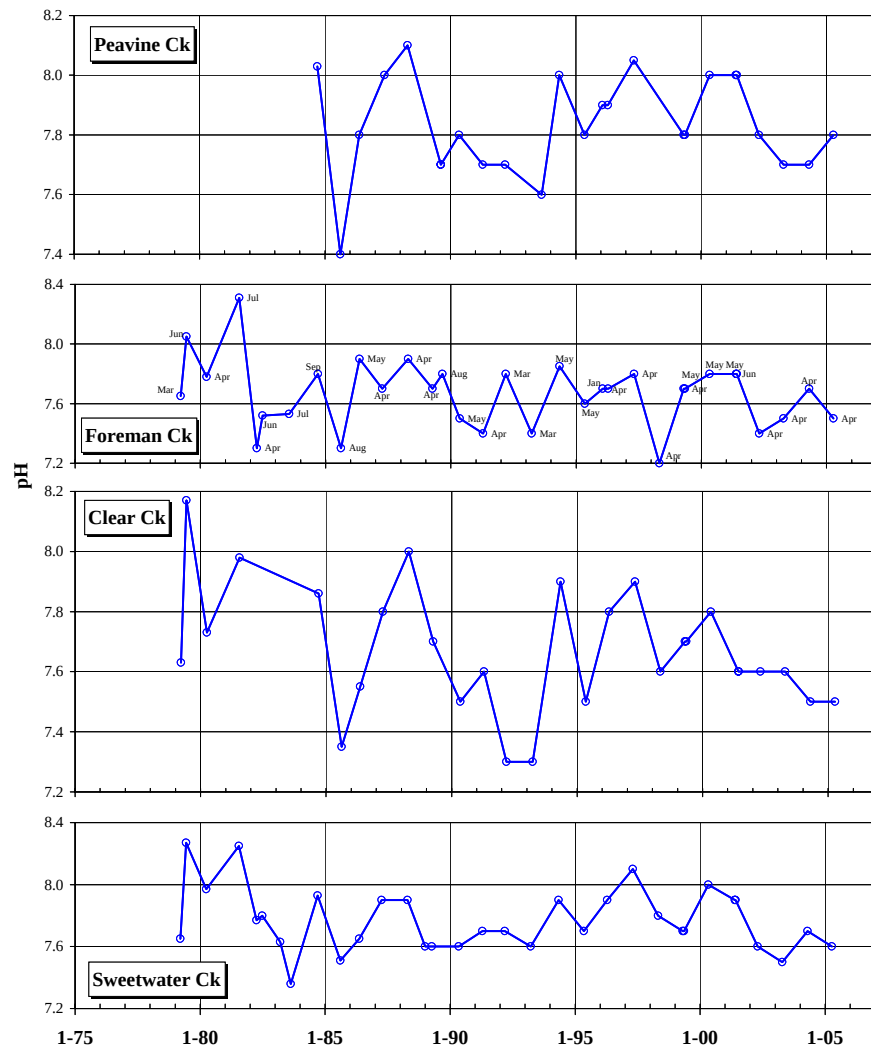


Figure 4-5
pH and Nitrate Concentration, SLVWD Stream Diversions, 1979-2006

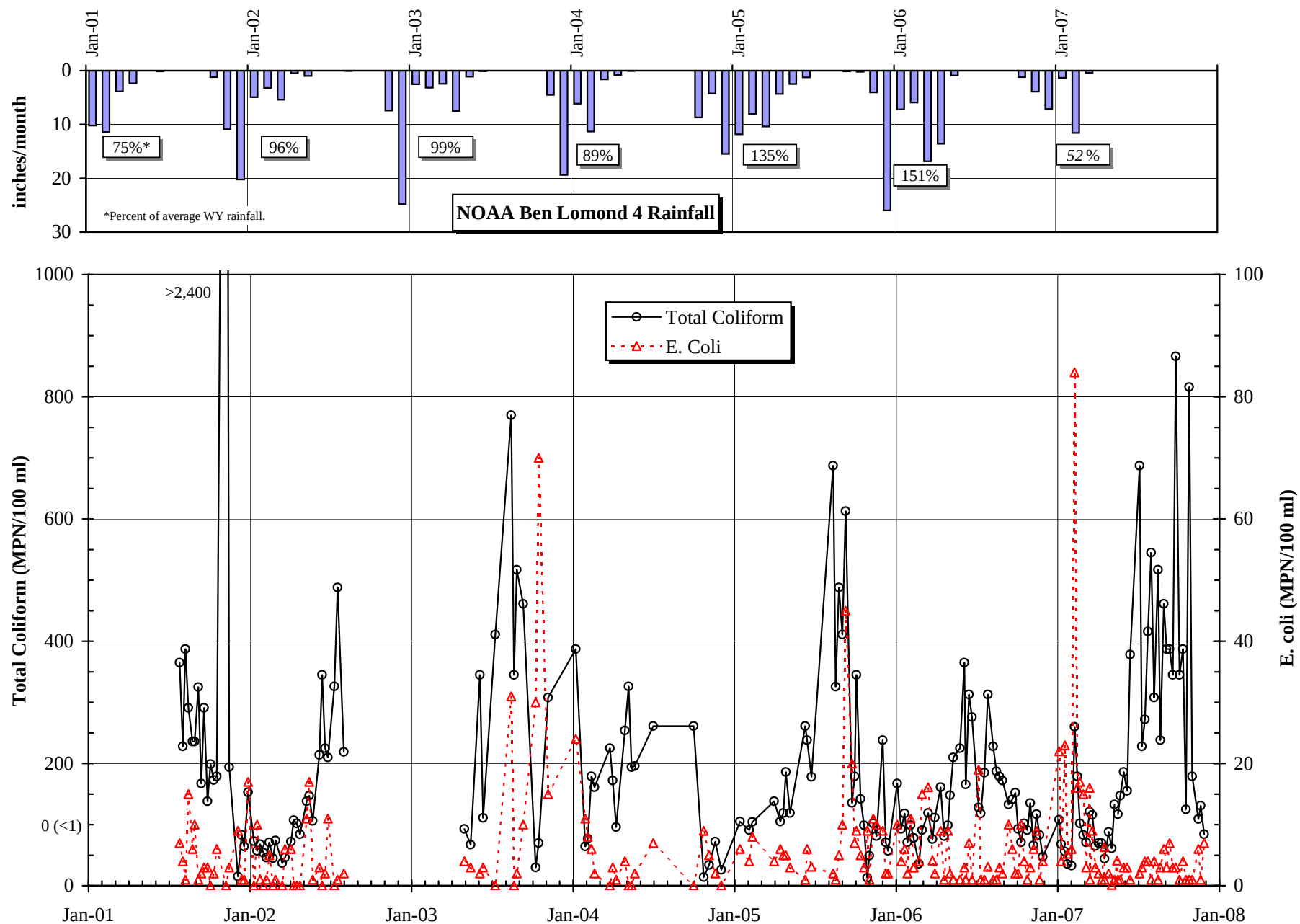
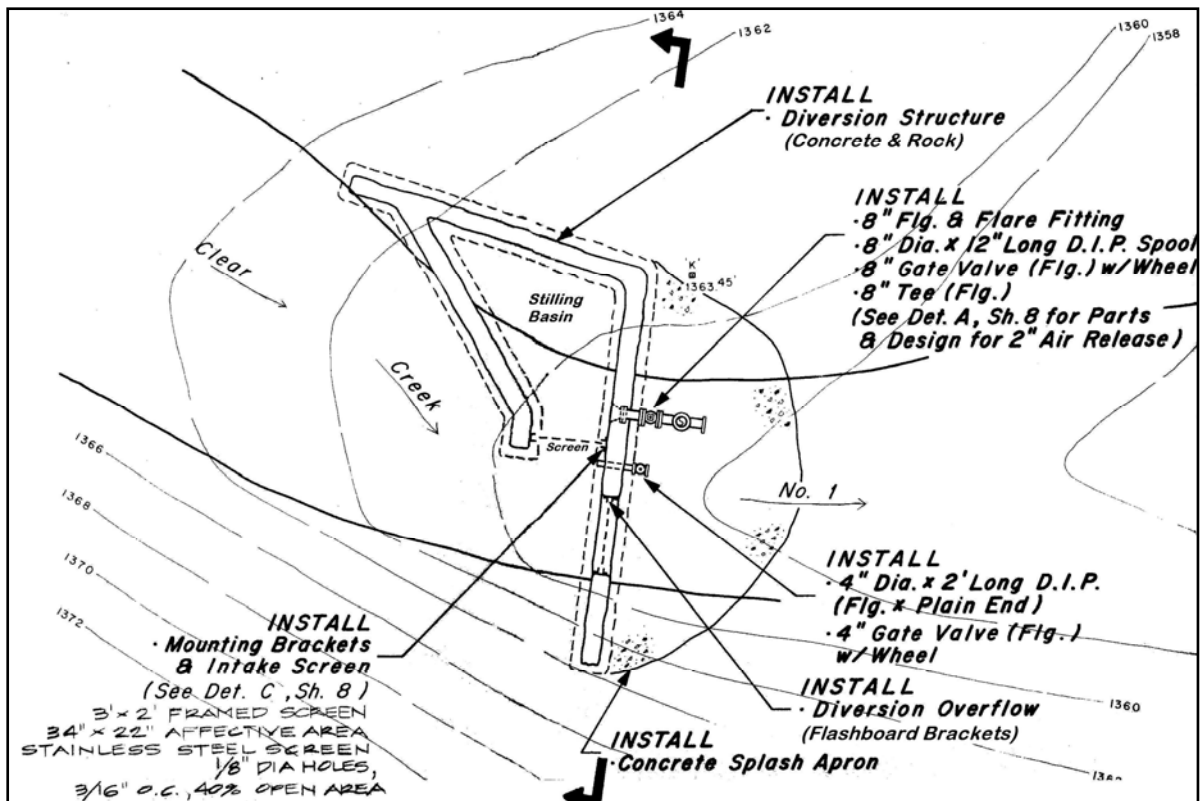
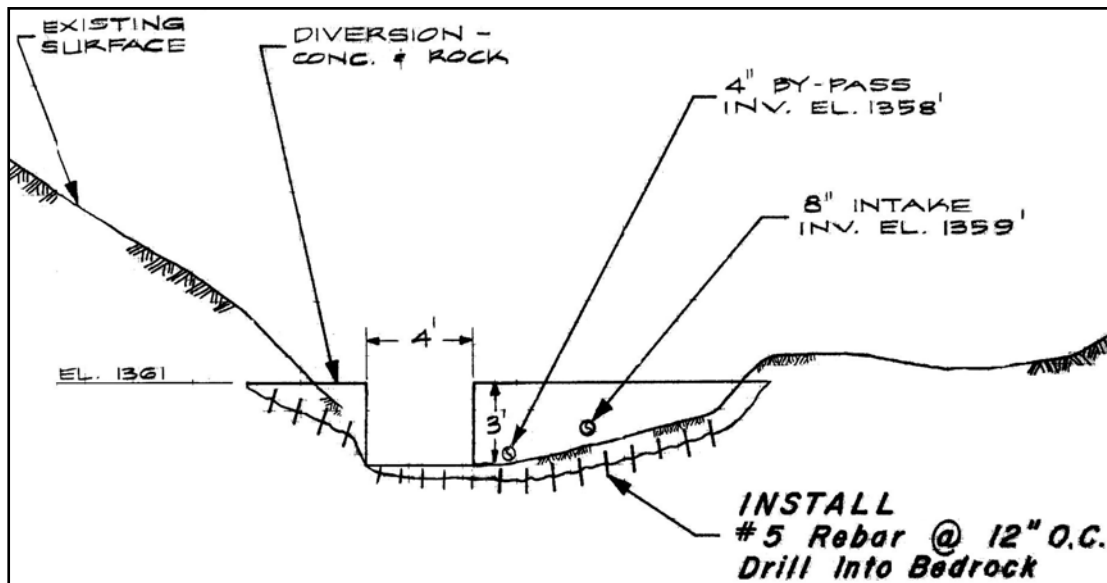


Figure 4-6
Coliform Concentrations in Stream Diversions Influent to SLVWD WTP, 2001-06

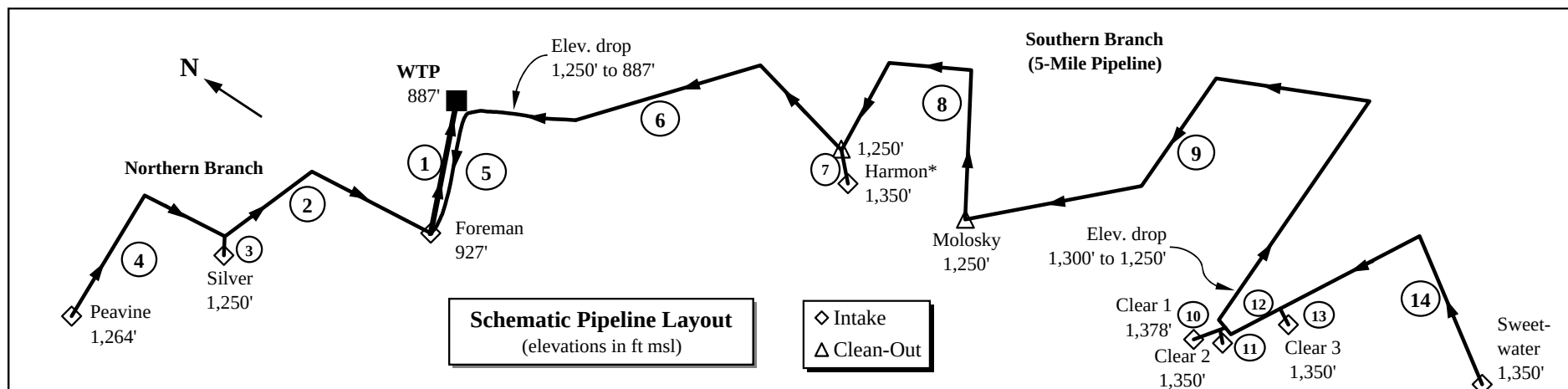


a. Plan



b. Section

Figure 4-7
 Plan and Section of Clear Creek Diversion 1
 (SLVWD drawing 0901-D)



Map No. Pipeline Segment (described from low to high hydraulic head)		Pipeline from WTP to Intake				
		Elevation	Interval		Approx.	
		Start - End	Approx.	Diam-	Cumulative	
		(ft msl)	Length	eter	Length	
					(ft)	(mi)
<u>Northern Branch</u>						
1	WTP to Foreman Ck mixing vault	887 - 927	2,400	6,8,10	2,400	0.5
2	Foreman Ck mixing vault to Silver Ck	927 - ?	2,800	8	5,200	1.0
3	Pipeline to Silver Ck intake	? - 1,250	?	?		
4	Silver Ck to Peavine Ck intake	? - 1,264	2,400	8	7,600	1.4
<u>Southern Branch (5-Mile Pipeline)</u>						
5	Foreman Ck mixing vault to near WTP	887 - 927	2,400	?	2,400	0.5
6	near WTP to Harmon Ck clean-out	887 - 1,250	5,200	6 & 8	7,600	1.4
7	Pipeline to Harmon Ck intake*	1,250 - 1,350	350	3	7,950	1.5
8	Harmon Ck clean-out to Molosky Ck clean-out	1,250 - 1,250	4,400	8	12,000	2.3
9	Molasky Ck clean-out to Clear Ck intake 1	1,250 - 1,300	10,300	8	22,300	4.2
10	Pipeline to Clear Ck intake 1	1,300 - 1,378	800	6	23,100	4.4
-	Main pipeline between Clear Ck intakes 1 and 2	1,300 - 1,300	0		22,300	4.2
11	Pipeline to Clear Ck intake 2	1,300 - 1,350	300	3	22,600	4.3
12	Main pipeline between Clear Ck intakes 2 and 3	1,300 - 1,305	600	6	22,900	4.3
13	Pipeline to Clear Ck intake 3	1,305 - 1,350	300	3	23,200	4.4
14	Clear Ck intake 3 to Sweetwater Ck intake	1,305 - 1,350	4,500	6	27,400	5.2
Northern & Southern main pipeline total						6.6

* Not operational.

* Intake not operational.

Source: SLVWD drawing 0561-D, 5/1/85.

See Figures 4-1 and 4-3 for approximate pipeline location.

Figure 4-8
SLVWD Raw-Water Pipelines between
Stream Diversion Intakes and WTP

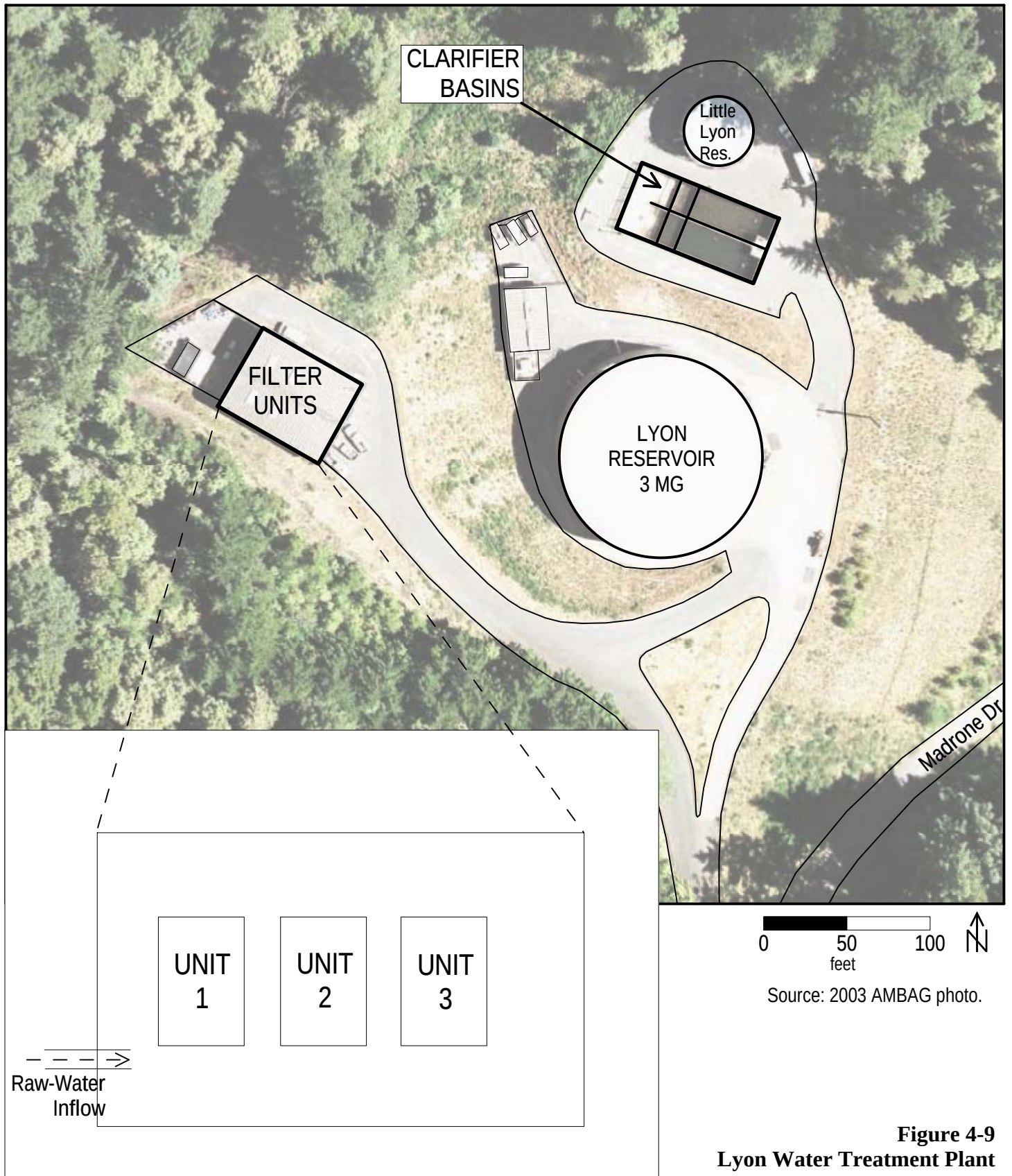
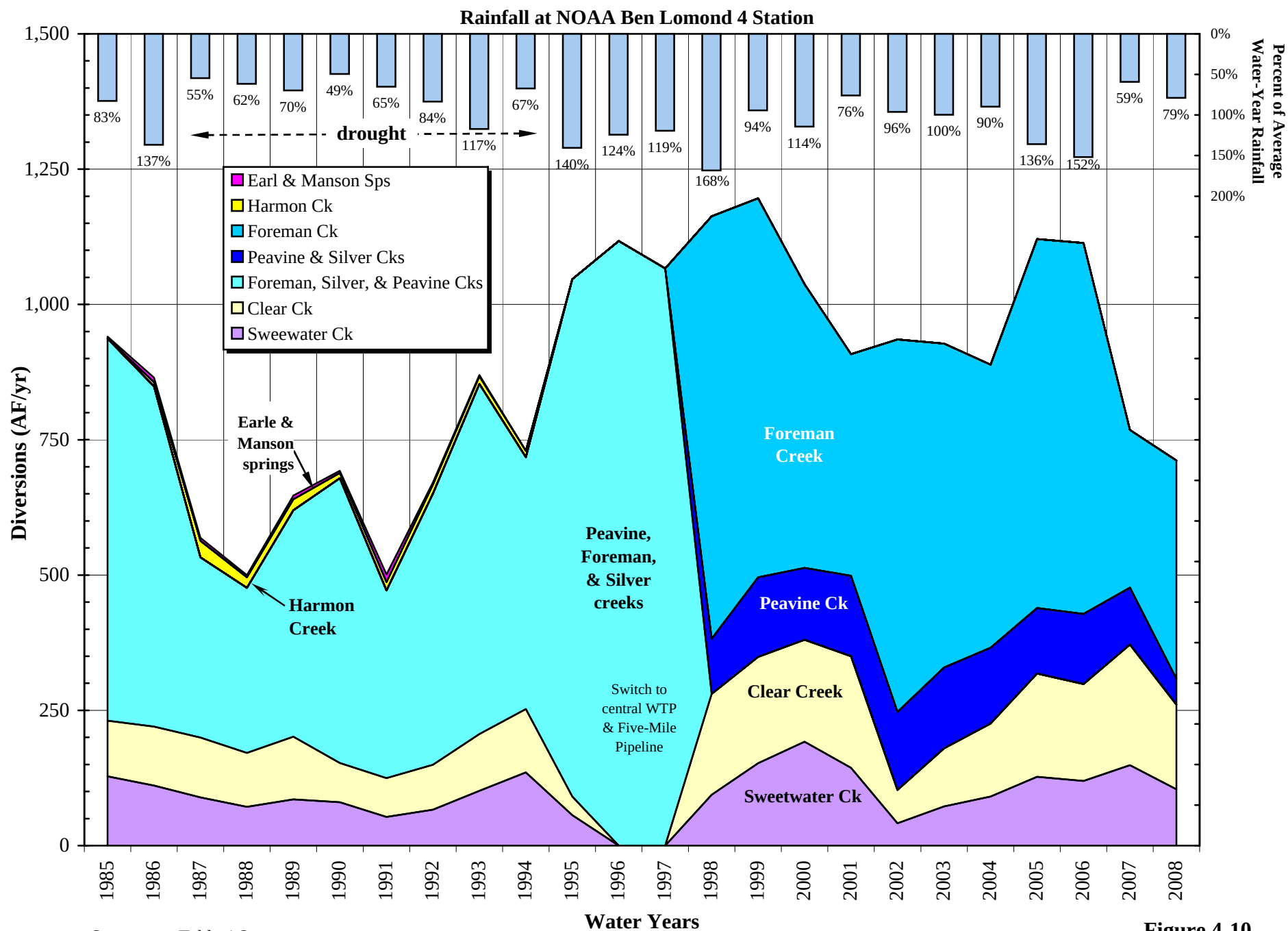
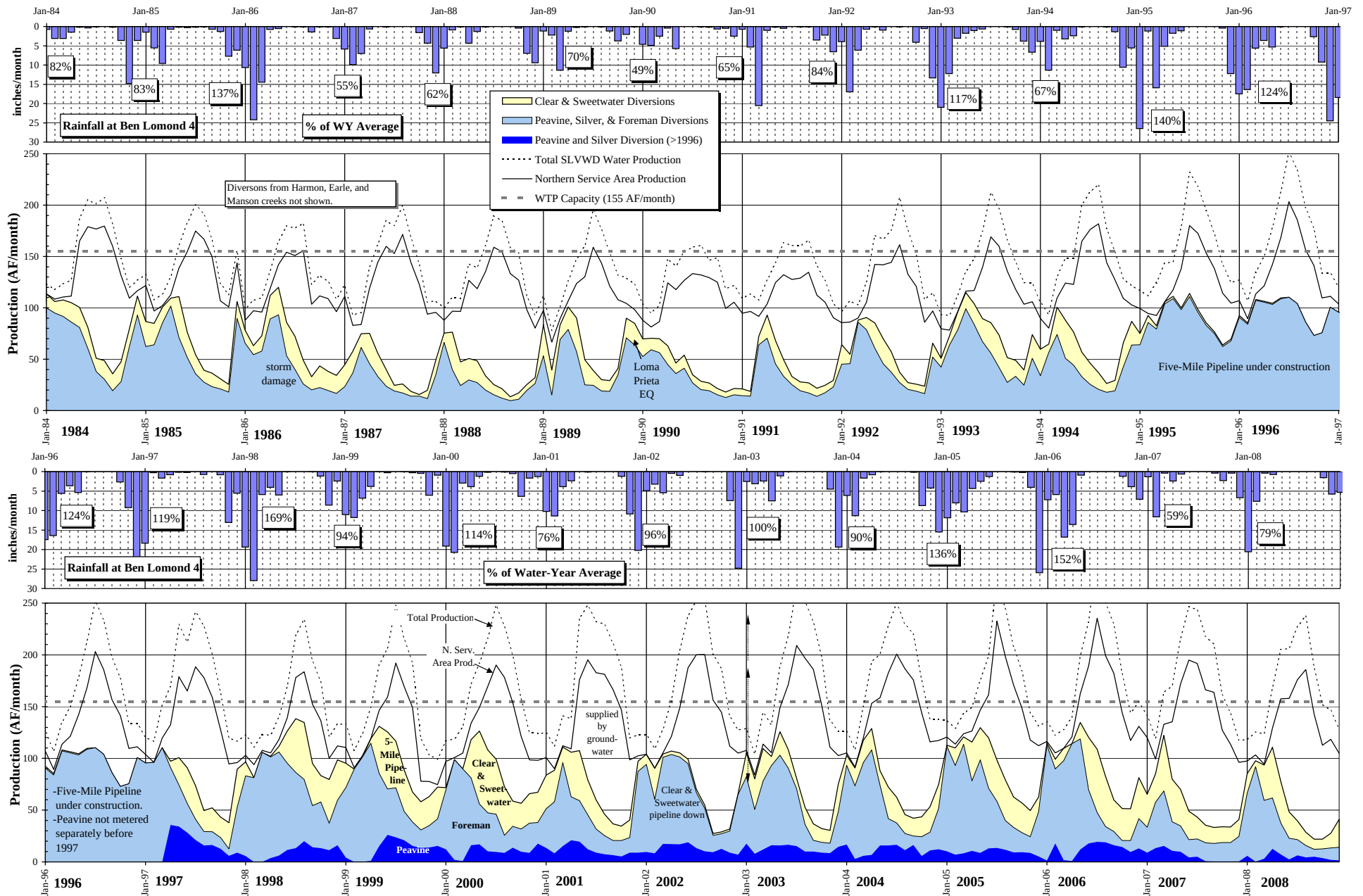


Figure 4-9
Lyon Water Treatment Plant



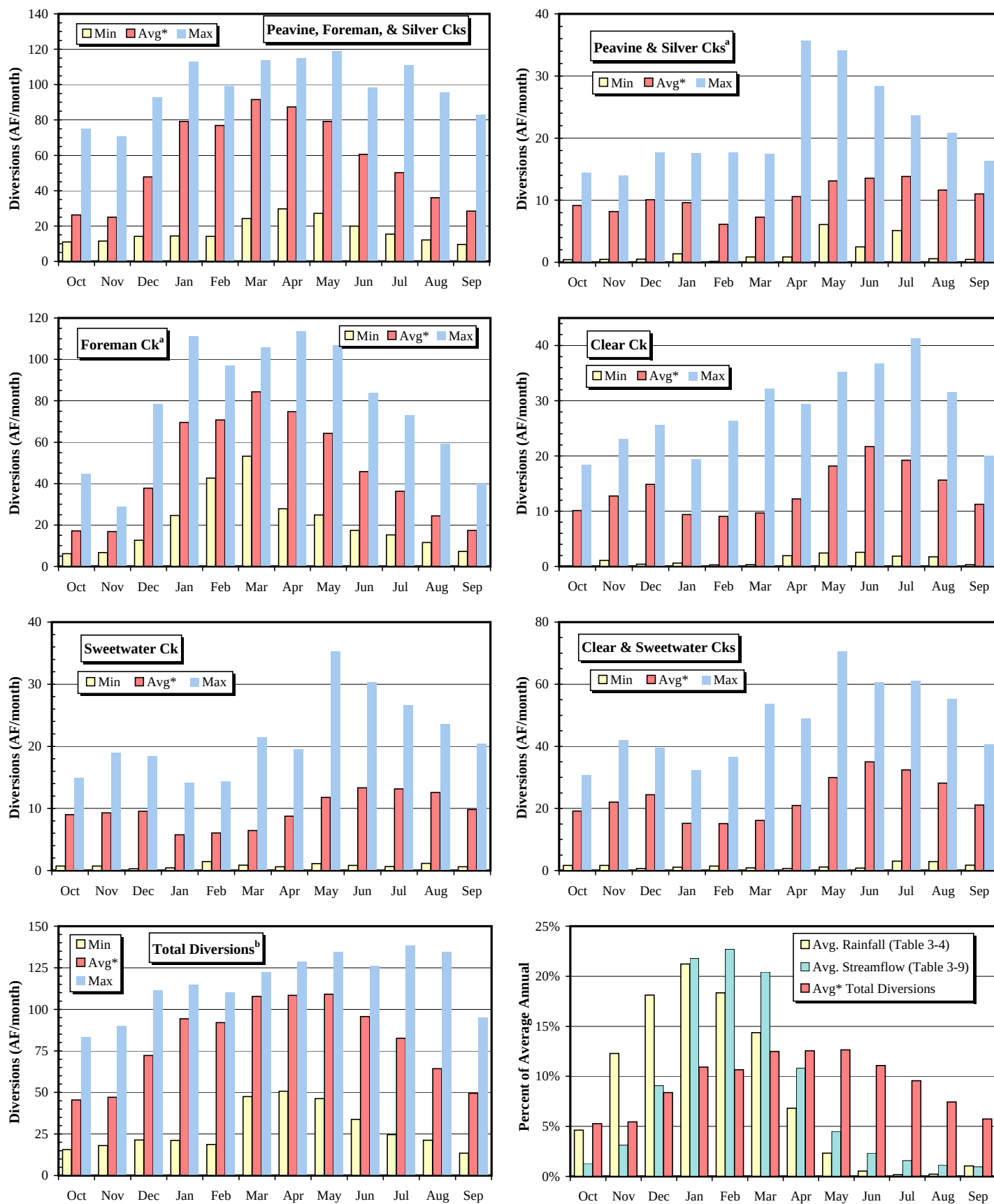
Source: see Table 4-3

Figure 4-10
SLVWD Annual Stream Diversions, WY's 1985-2006



See Table A-1 for tabulated data.

Figure 4-11
SLVWD Monthly Diversions versus Water Demand and Rainfall, 1984-2008



* Averages are for 1997-2006.

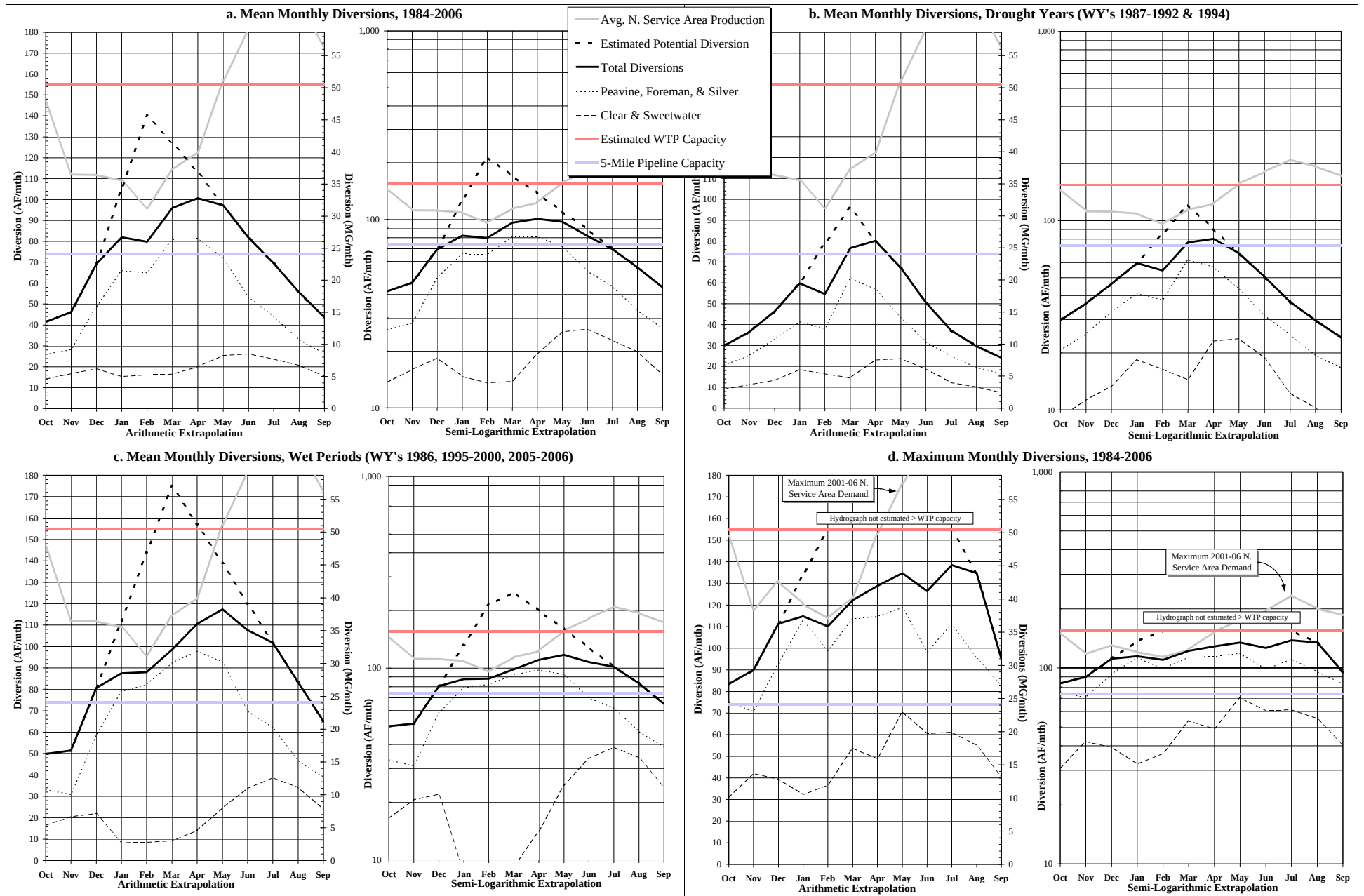
^a 1997-2006 only.

Note changes in vertical scale.

^b Excludes Harmon, Earl, and Manson.

Source: See Table 4-11 except as noted.

Figure 4-12
Average, Minimum, and Maximum
Monthly Diversions, 1984-2006



Total diversion does not include Harmon, Earl, and Manson creek diversions.
 Average monthly diversions calculated from diversion record in Table A-1.
 Estimation of potential monthly diversions documented in Tables 4-14a,b,c,d.

Figure 4-13
Extrapolation of Total Monthly Diversions for Representative Average, Drought, Wet-Period, and Maximum Years

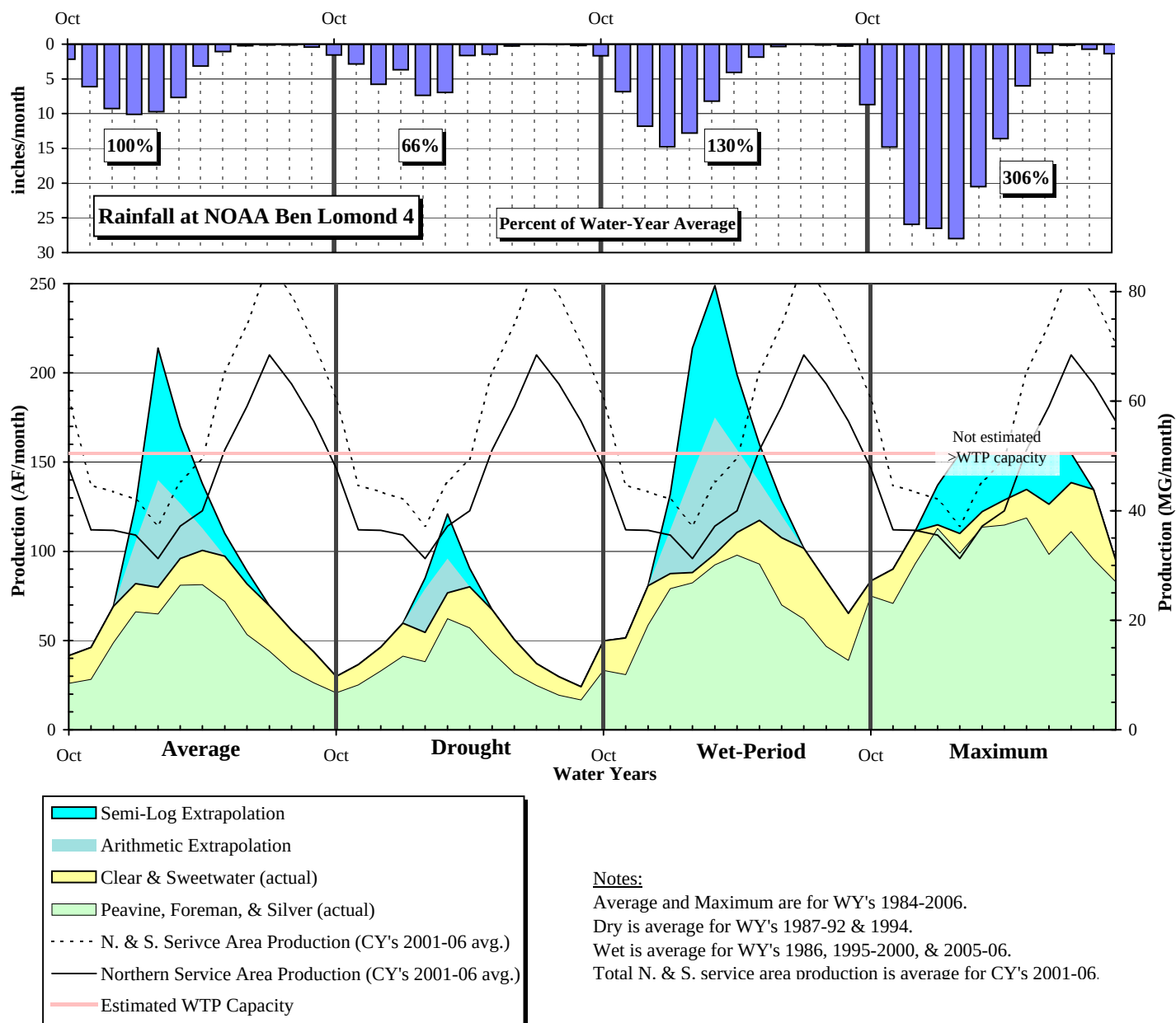


Figure 4-14
Estimated Potential Total Diversions for
Representative Average, Drought,
Wet-Period, and Maximum Years

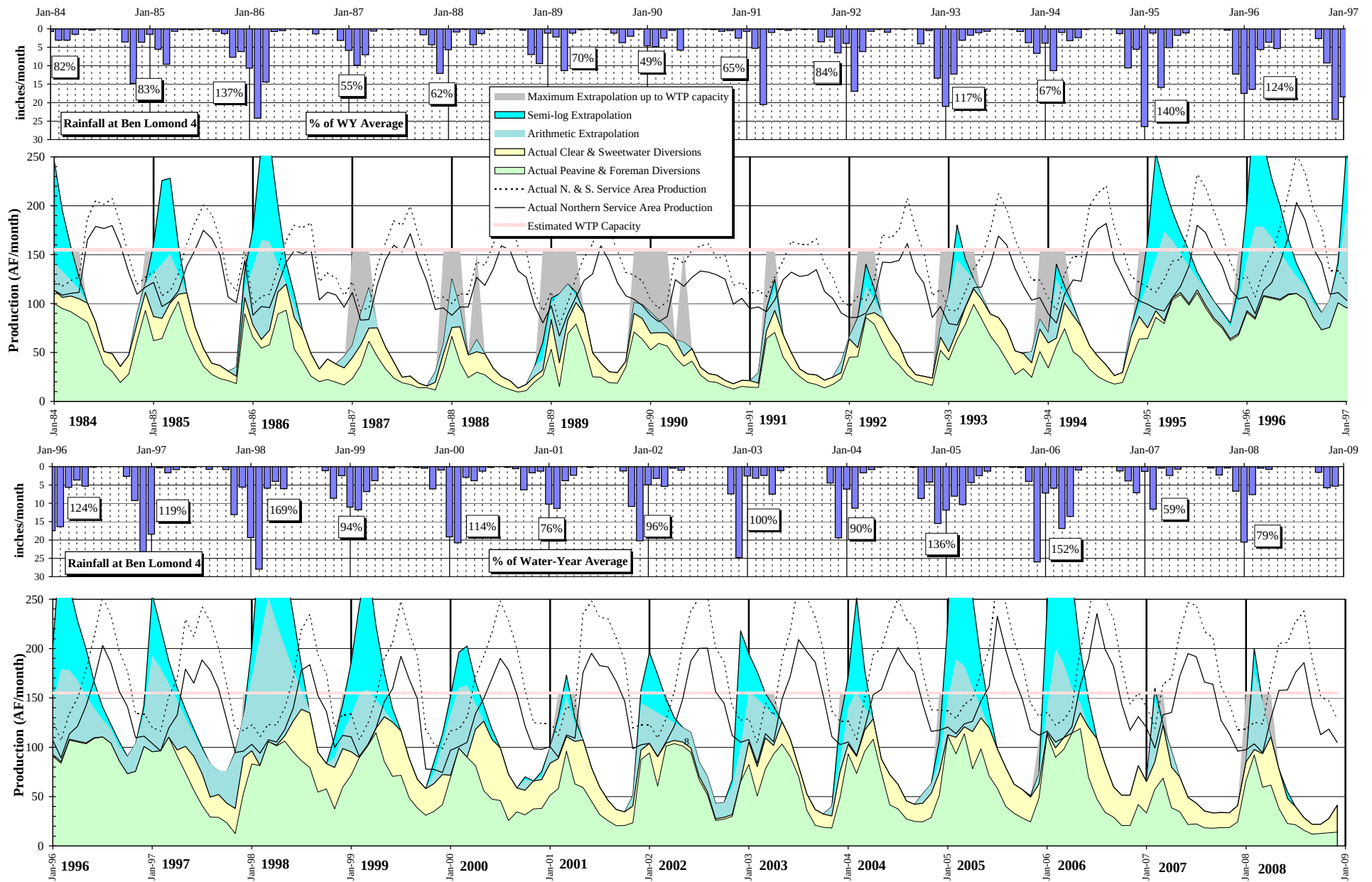


Figure 4-15
Estimated Potential Total Monthly Diversions, 1984-2008

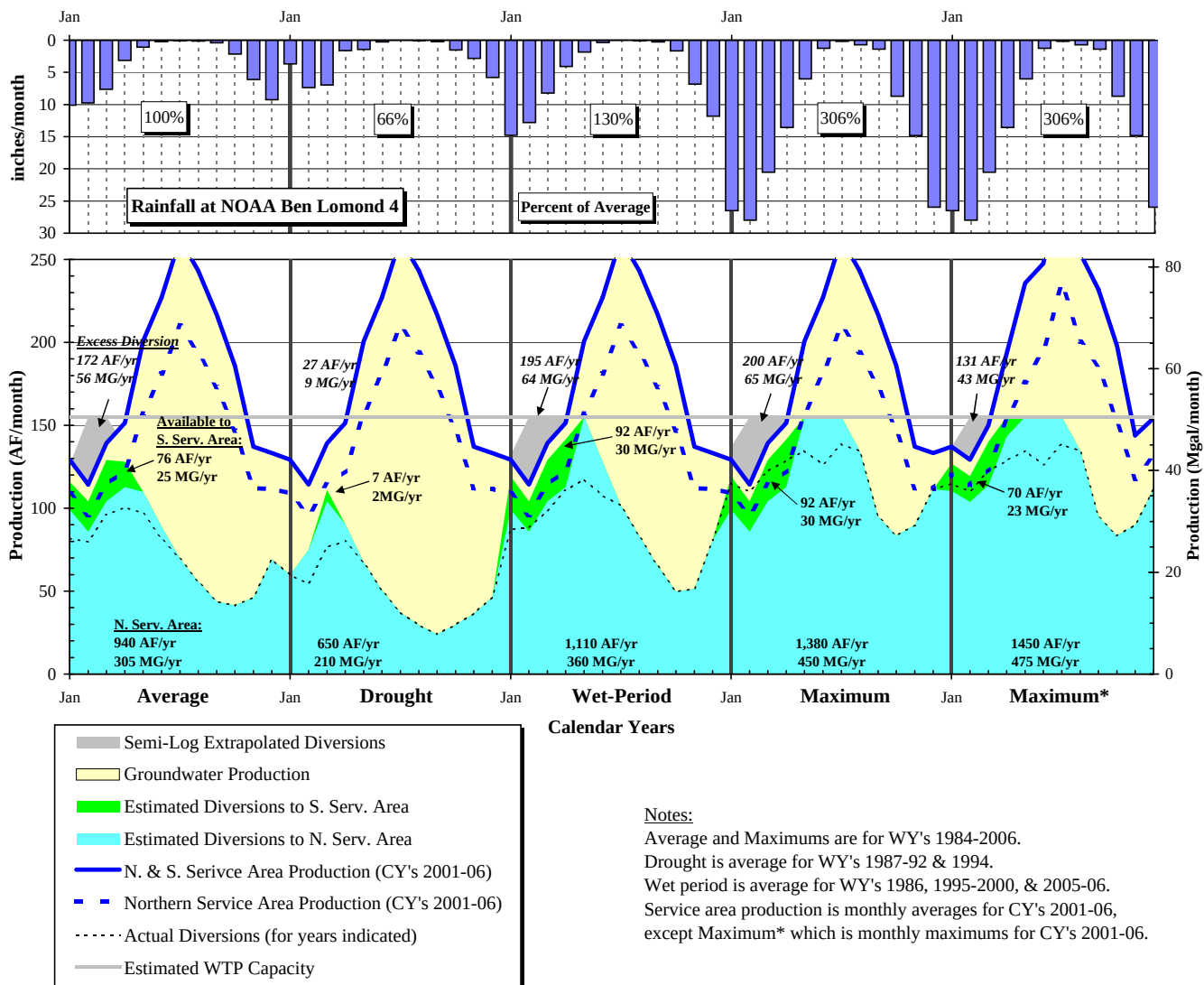


Figure 4-16
Estimated Total Diversions for Representative Average, Drought, Wet-Period, and Maximum Years
Assuming 2001-06 Average and Maximum Monthly Demand

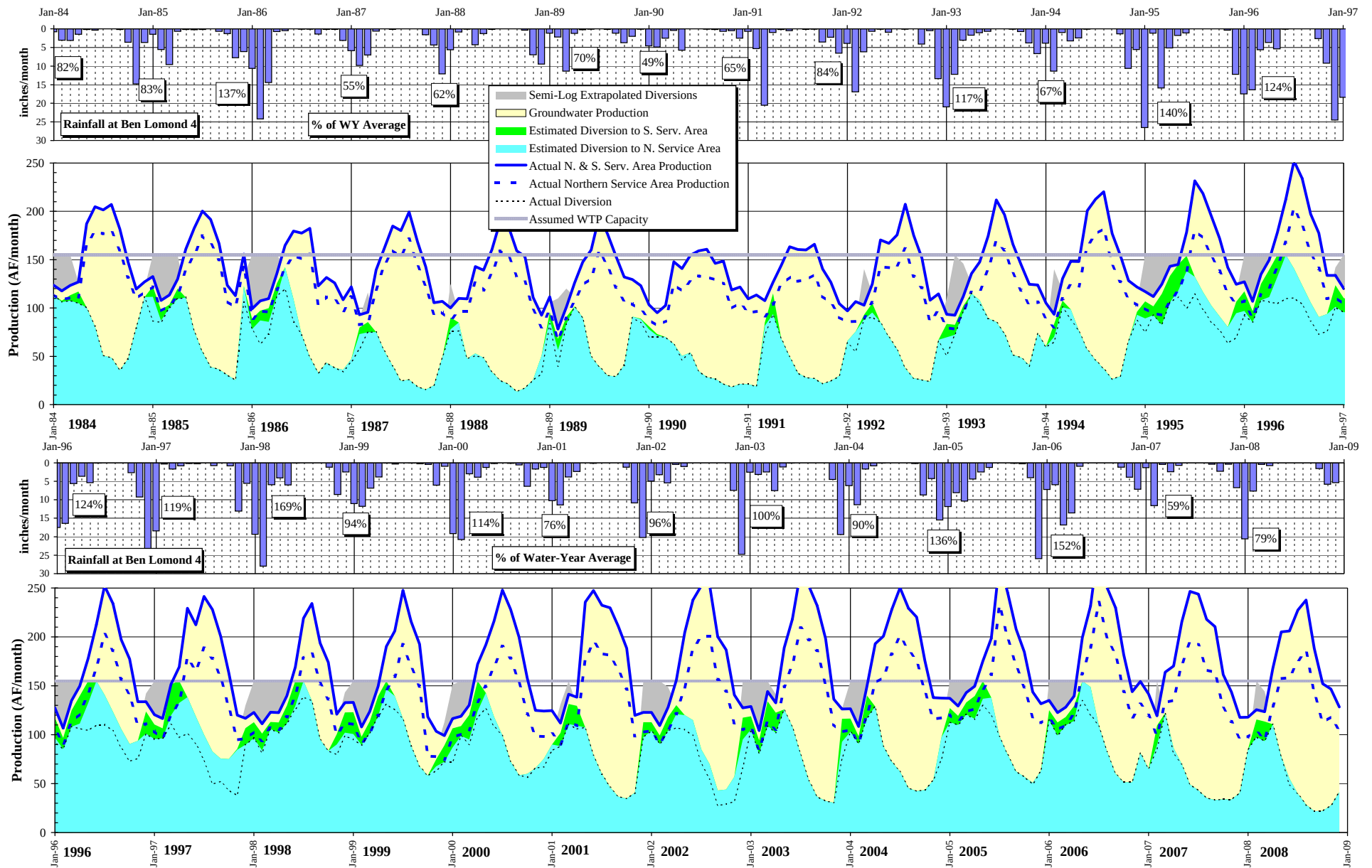


Figure 4-17
Estimated Total Monthly Diversions for Actual Demand, 1984-2006

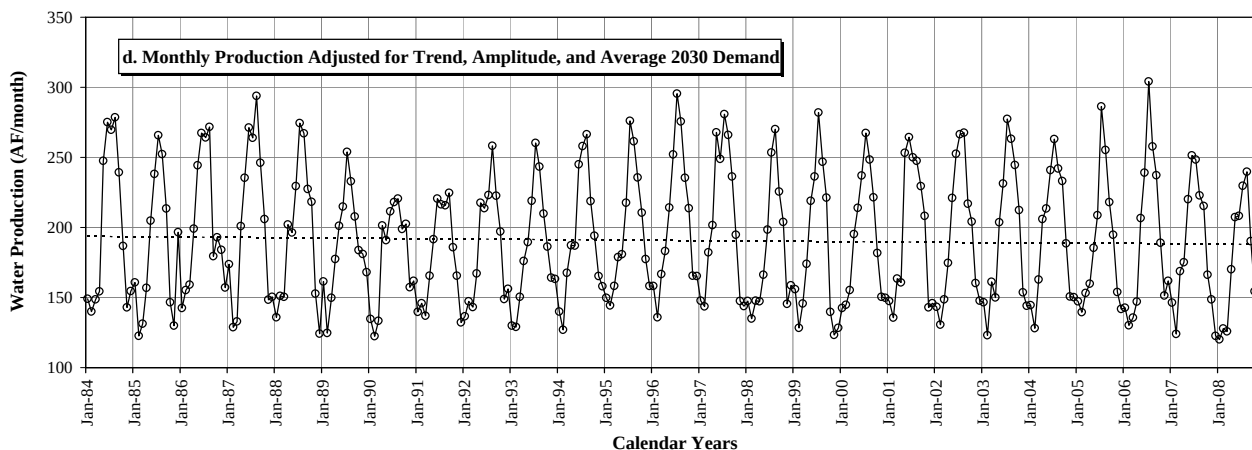
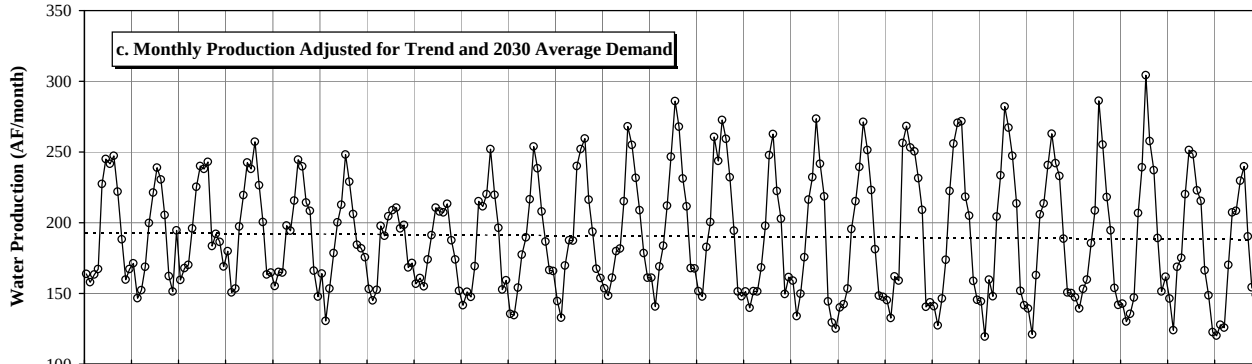
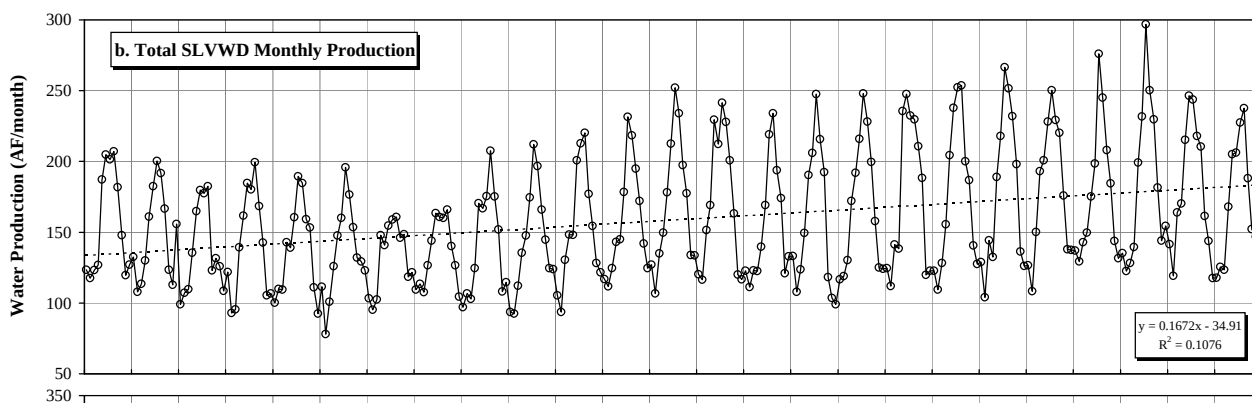
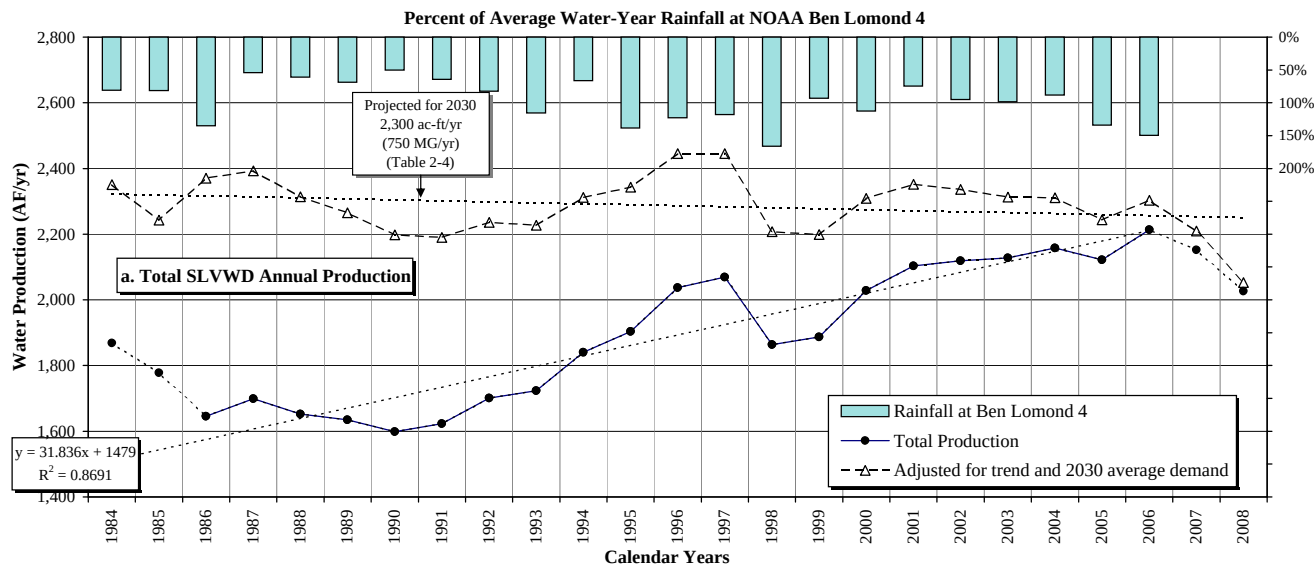


Figure 4-18
Adjustment of SLVWD Total Water Production Record to 2030 Demand

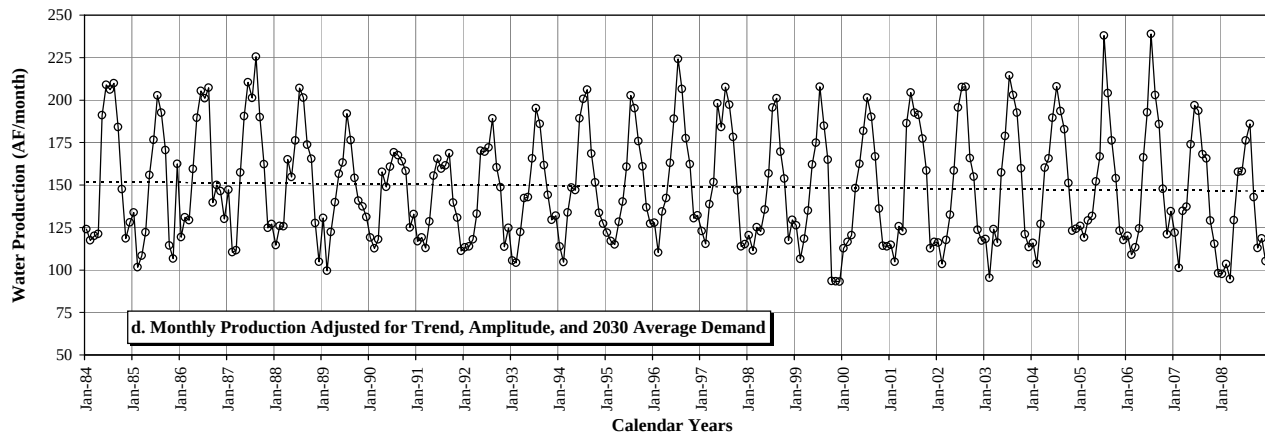
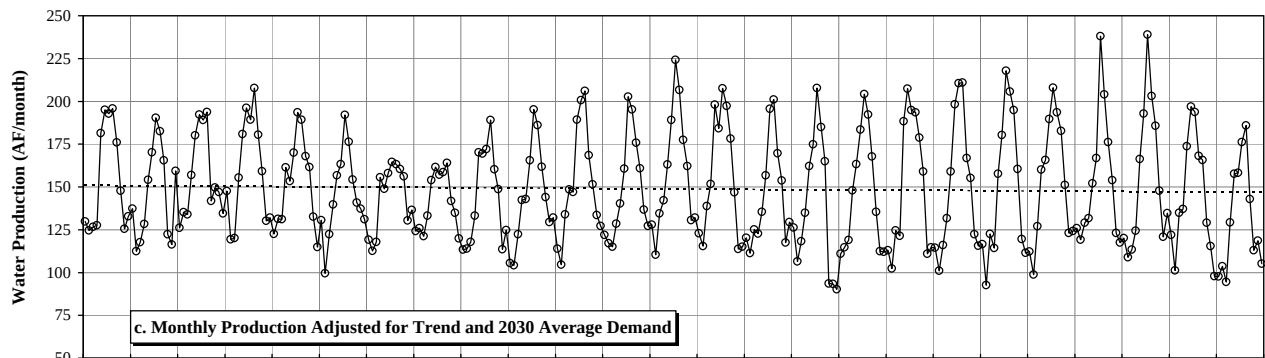
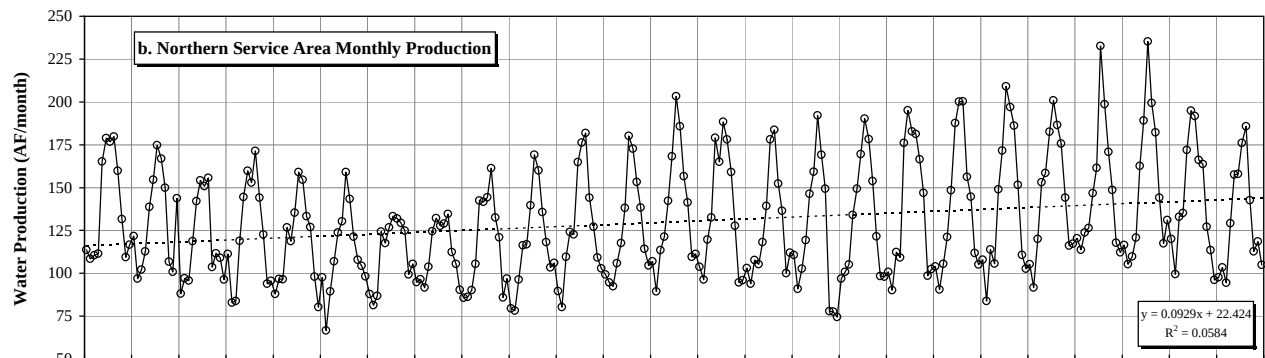
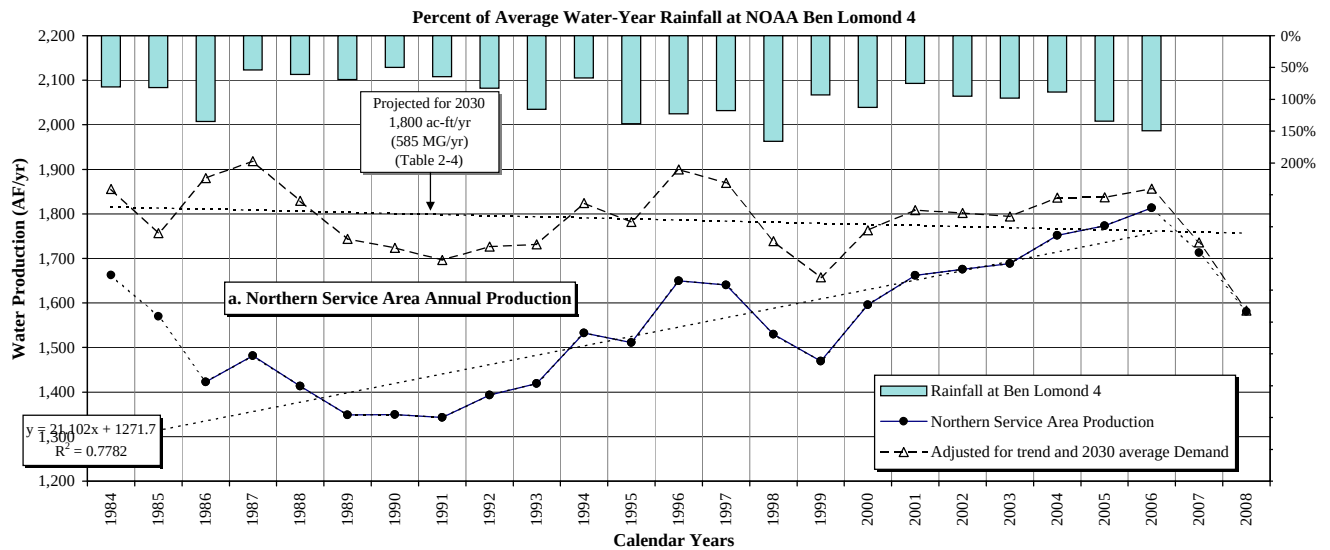


Figure 4-19
Adjustment of SLVWD Northern Service Area Production Record to 2030 Demand

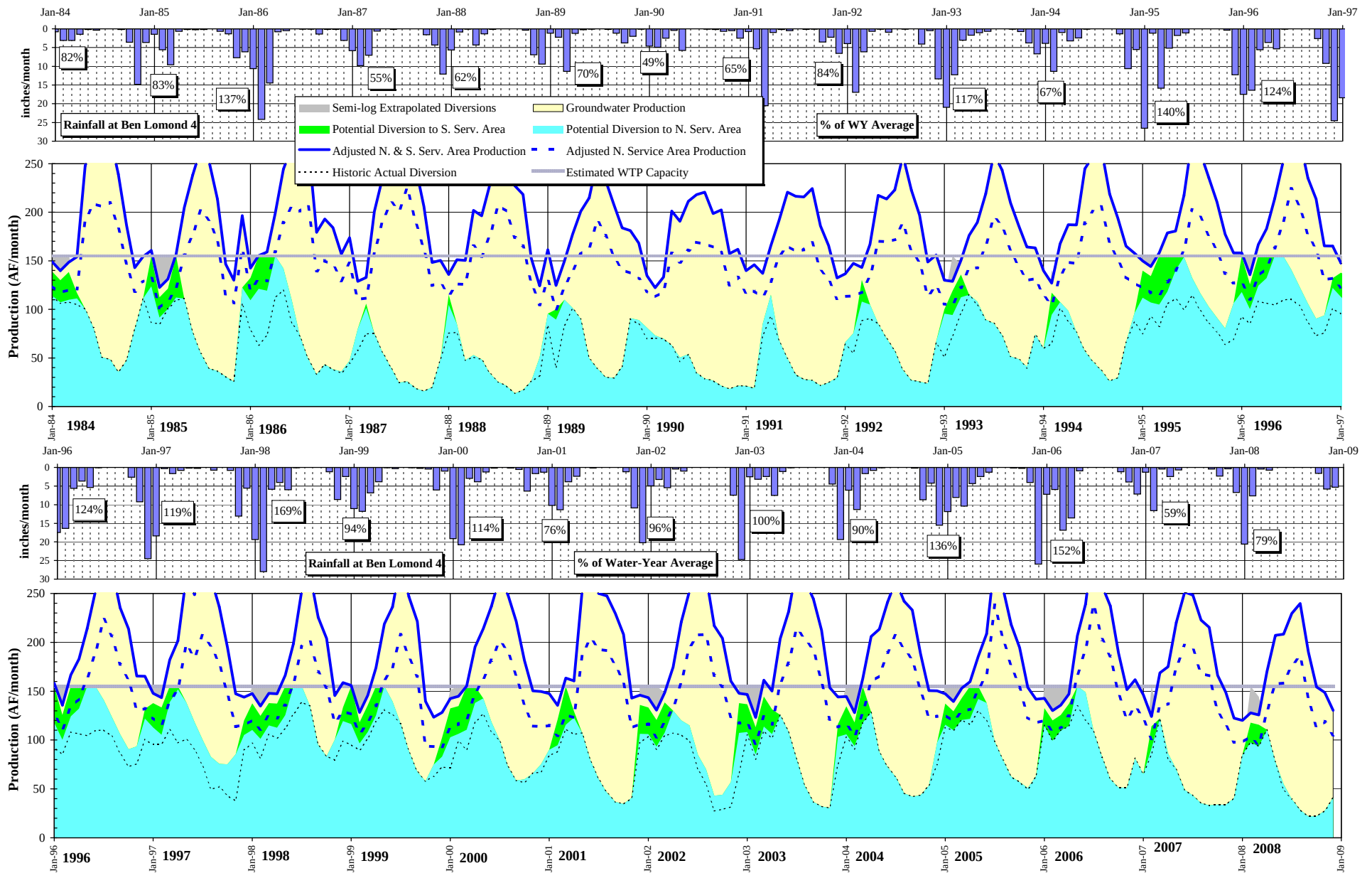


Figure 4-20
Estimated Total Monthly Diversions for 1984-2006 Adjusted to 2030 Demand