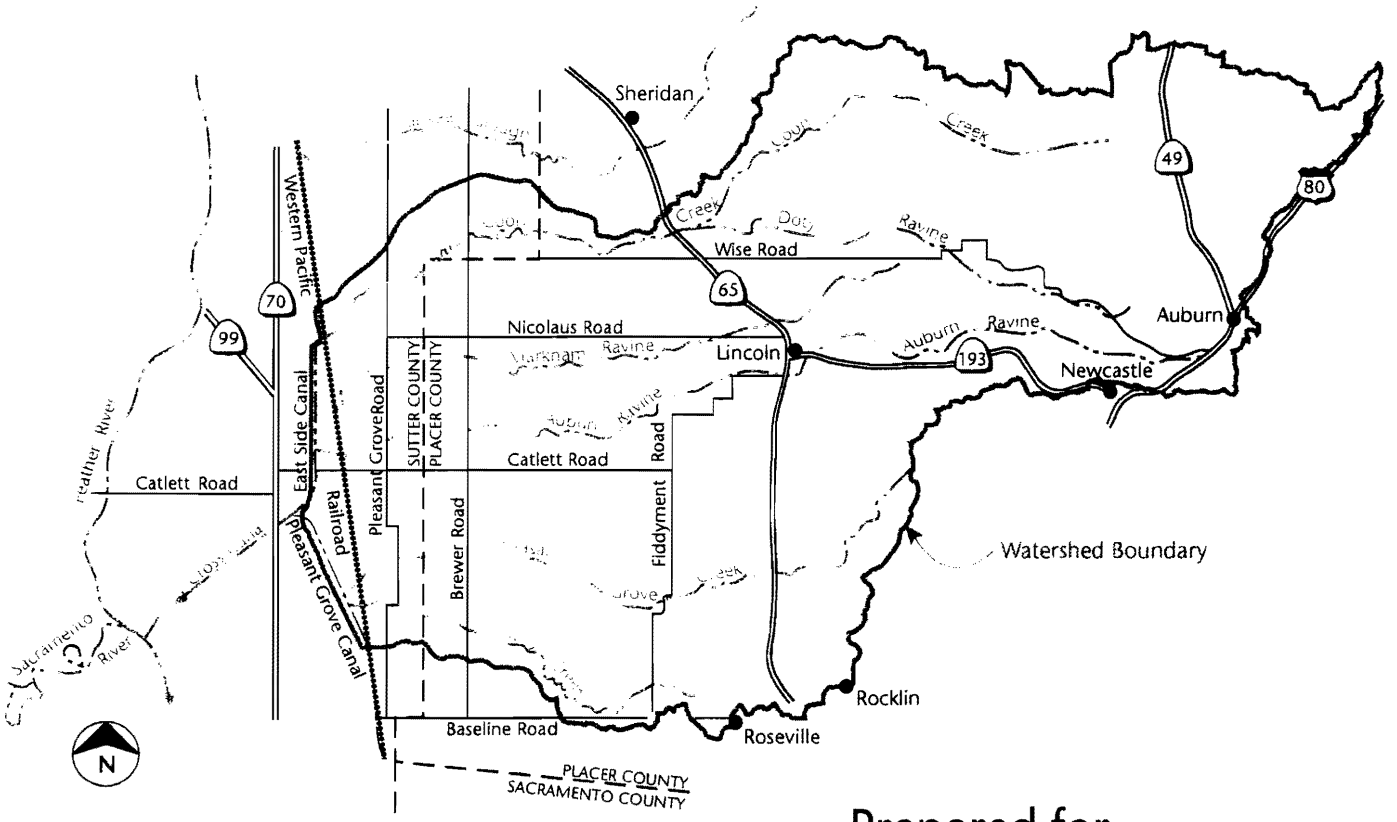
Auburn Ravine, Coon, and Pleasant Grove Creeks Flood Mitigation

Volume 2 - Appendix

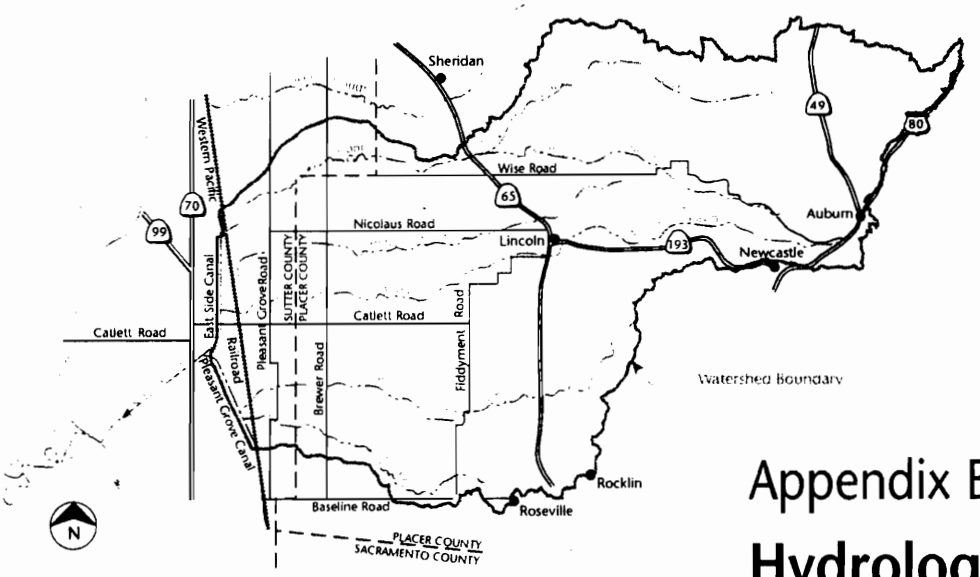


Prepared for

Placer County Flood Control and Water Conservation District

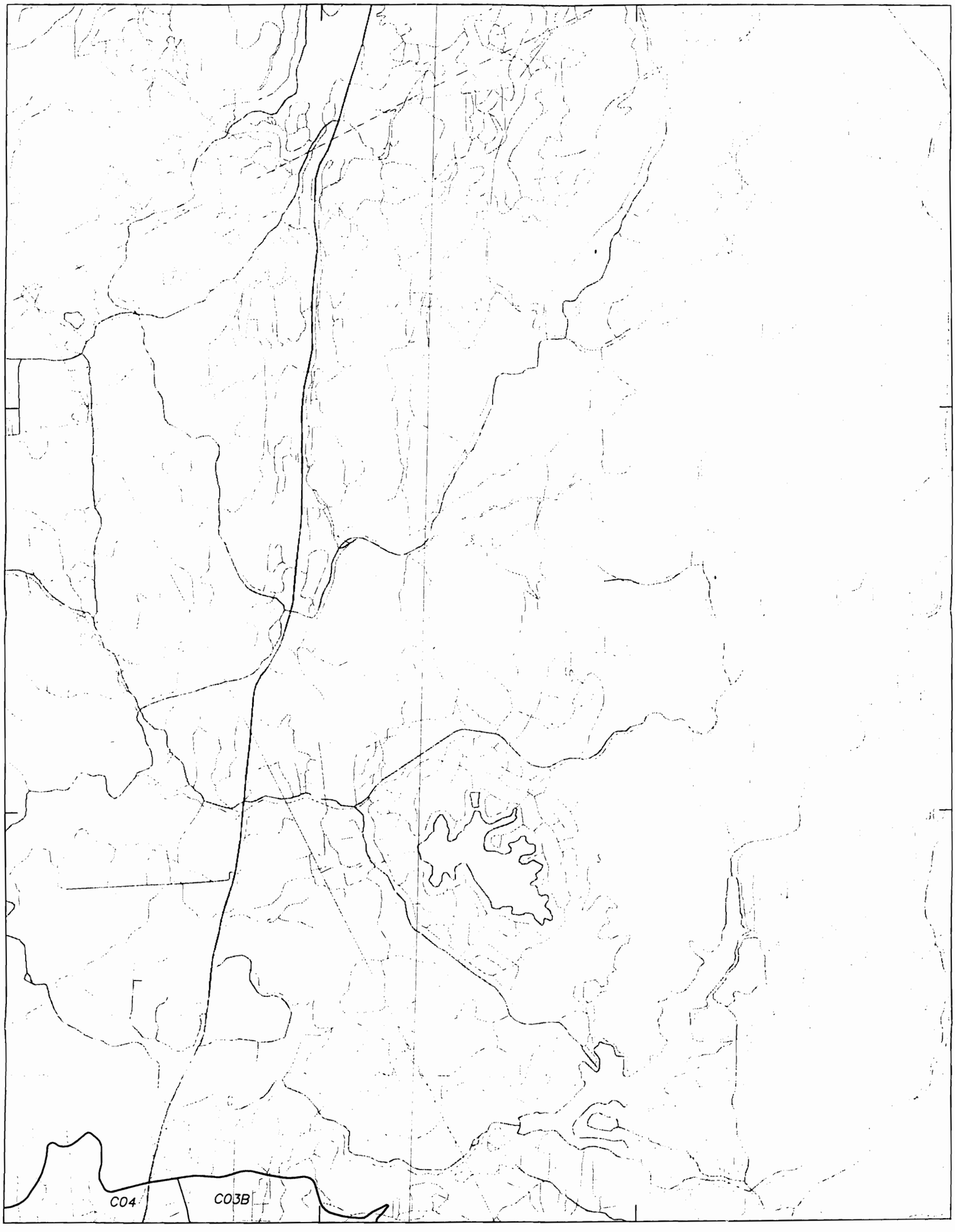
CH2M HILL

June 1993

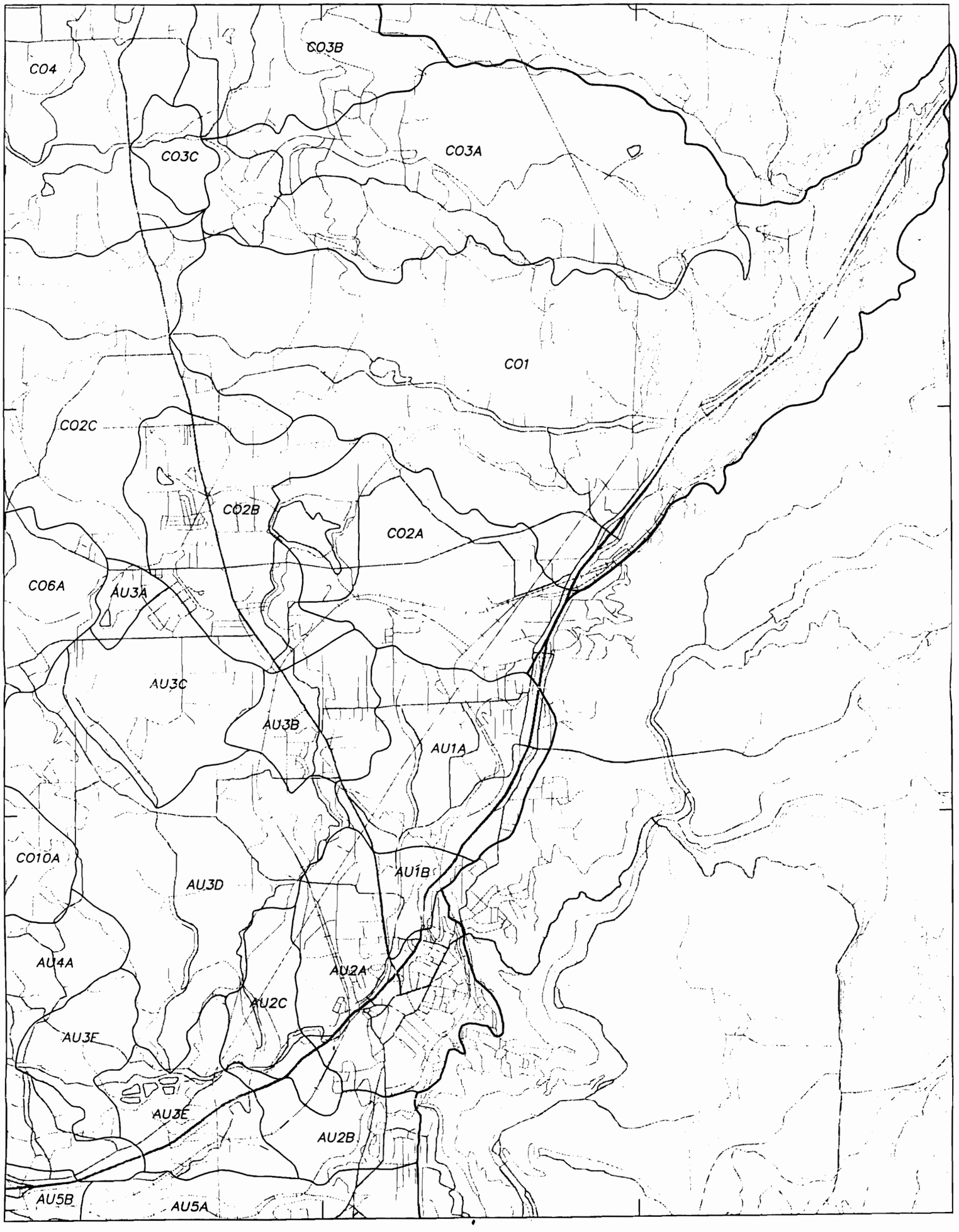


Appendix B

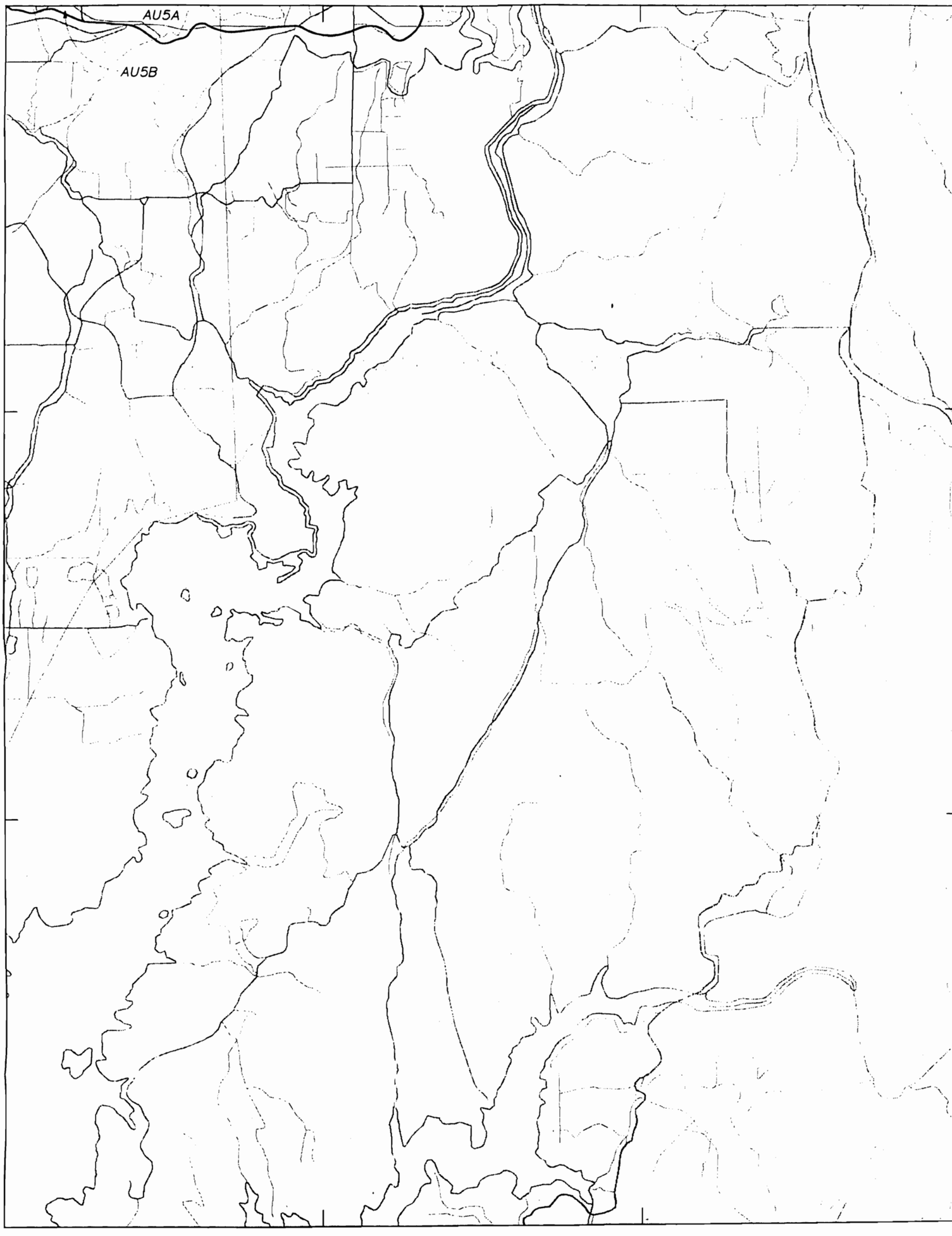
Hydrologic Model



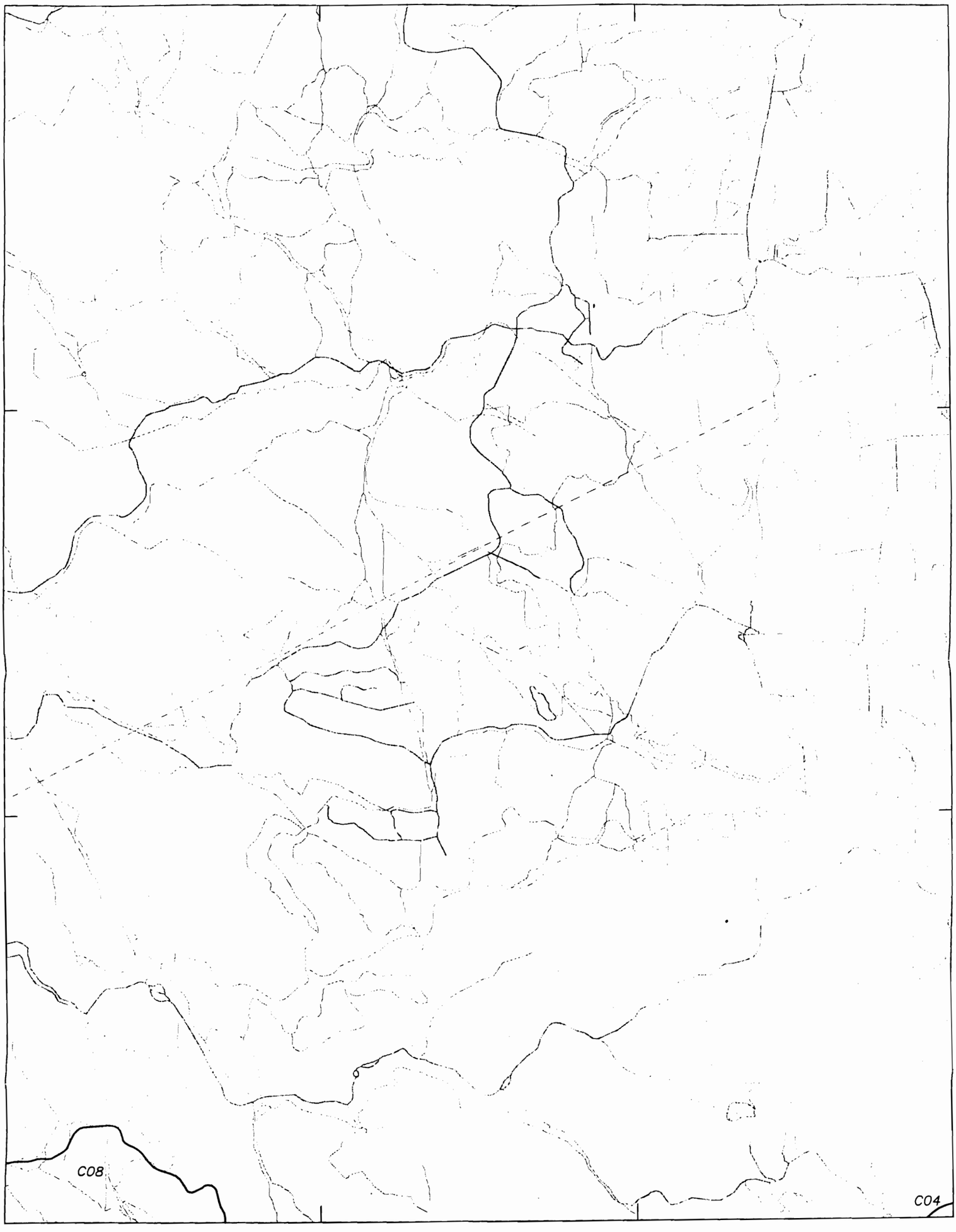
SUBBASIN AREAS
LAKE COMBIE QUADRANGLE



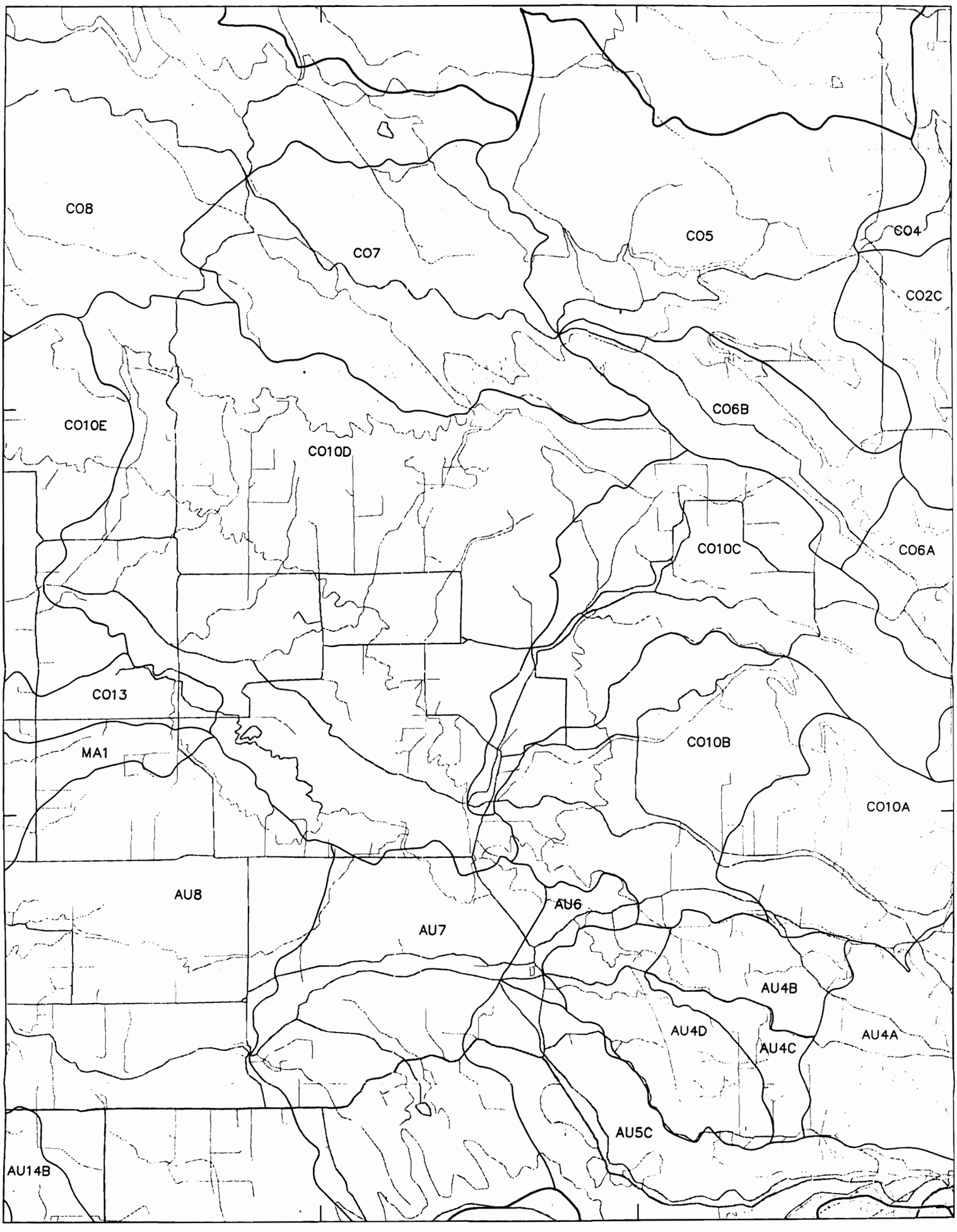
SUBBASIN AREAS
AUBURN QUADRANGLE



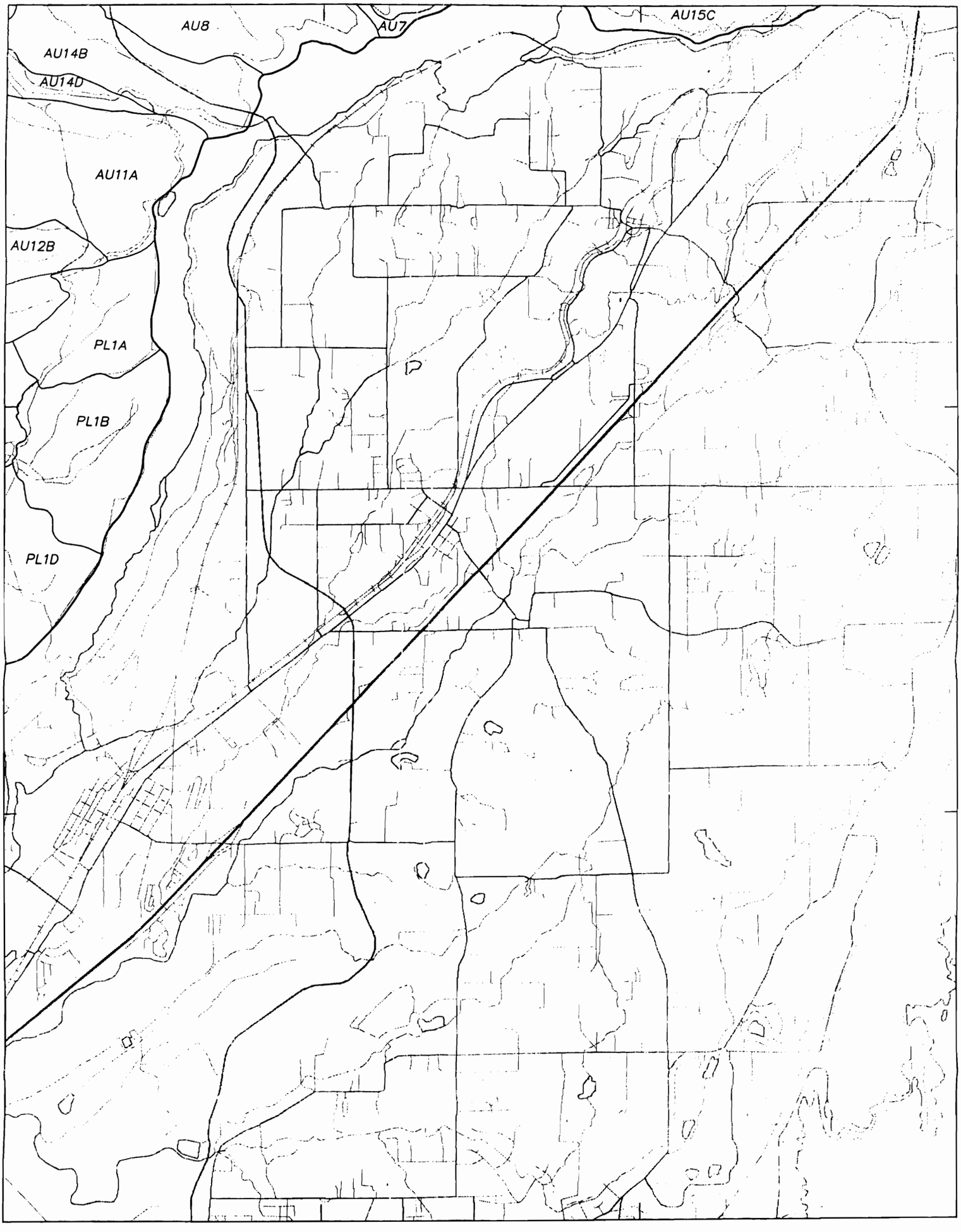
SUBBASIN AREAS
PILOT HILL



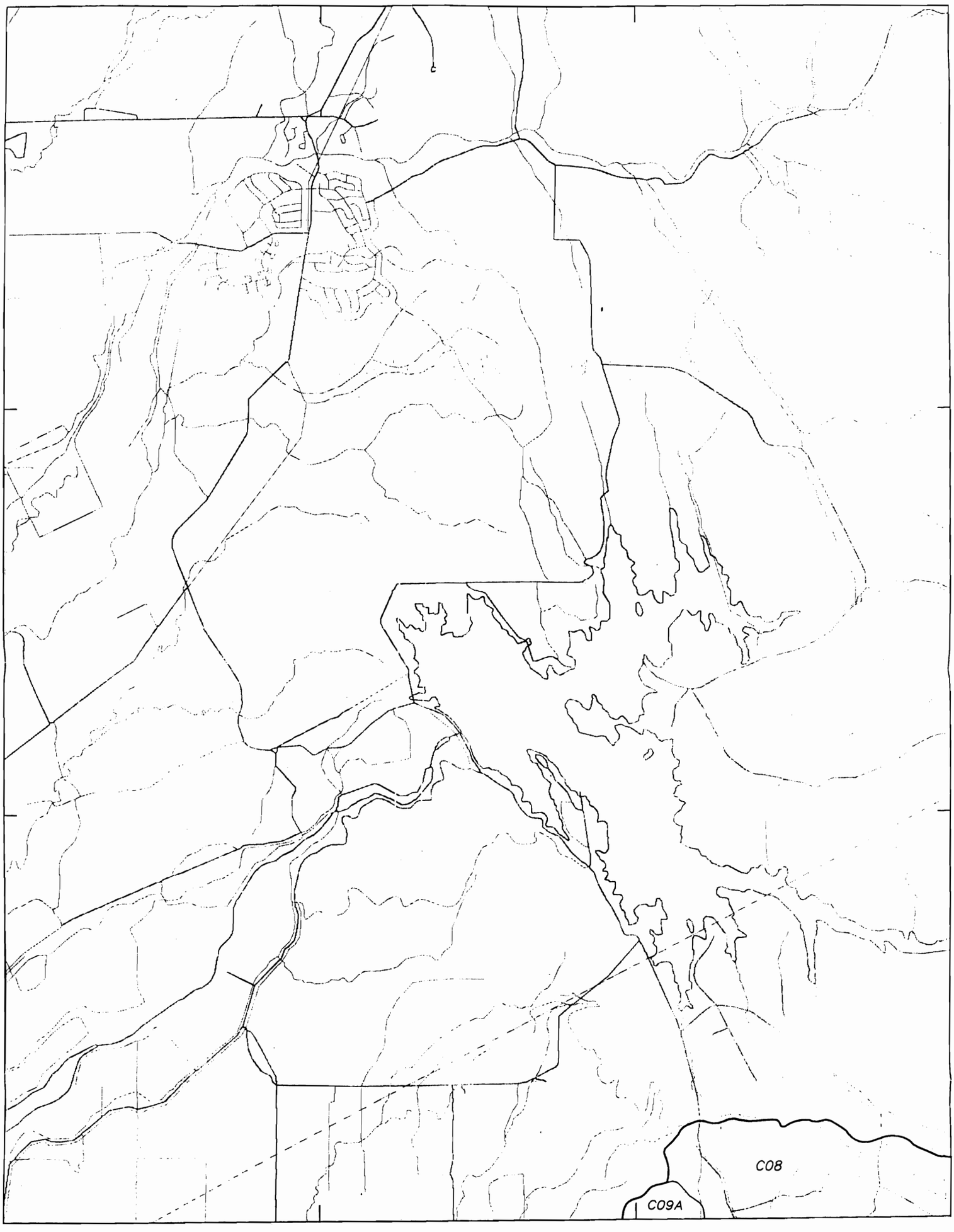
SUBBASIN AREAS
WOLF QUADGRANGLE



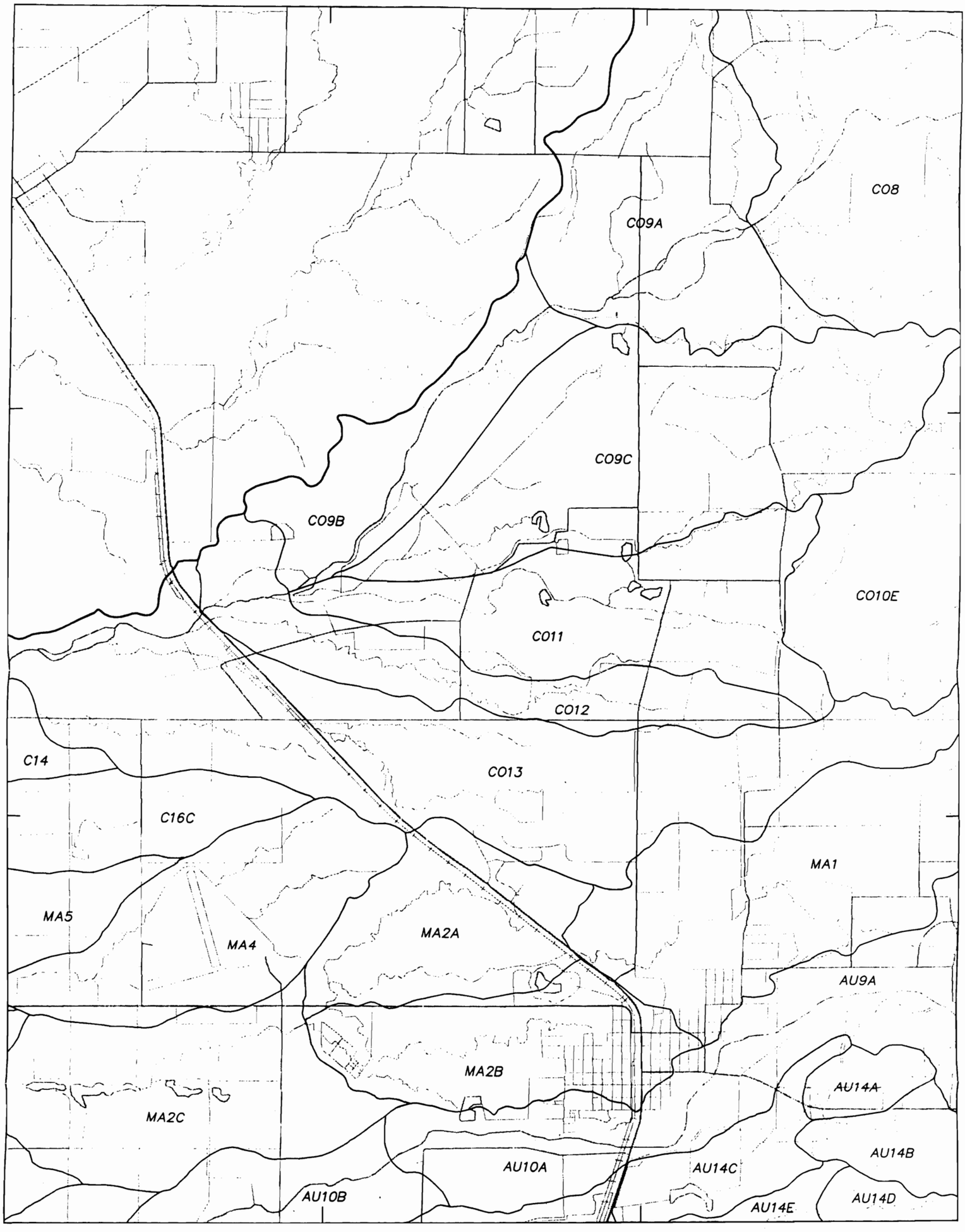
SUBBASIN AREAS
GOLD HILL QUADRANGLE



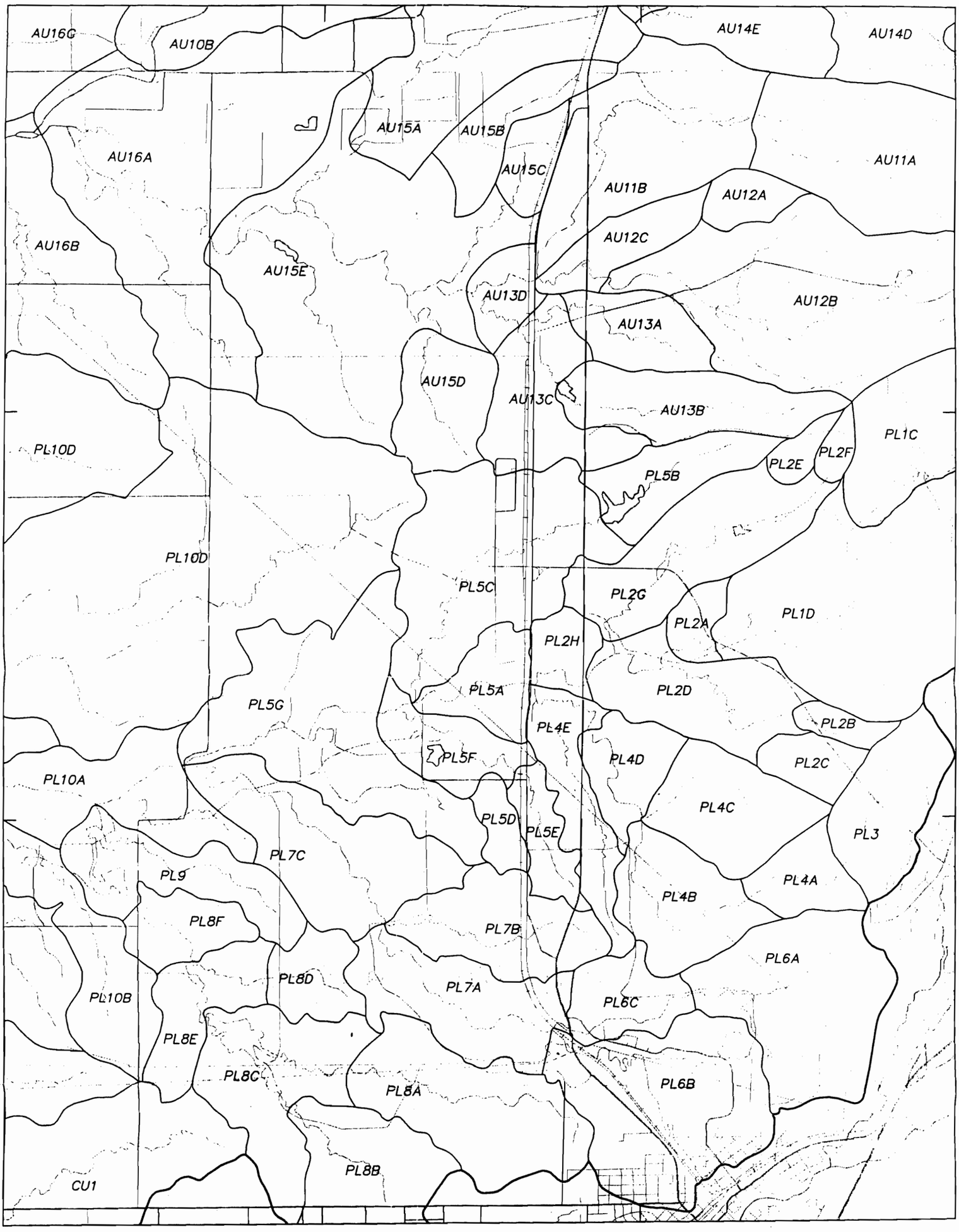
SUBBASIN AREAS
ROCKLIN QUADRANGLE



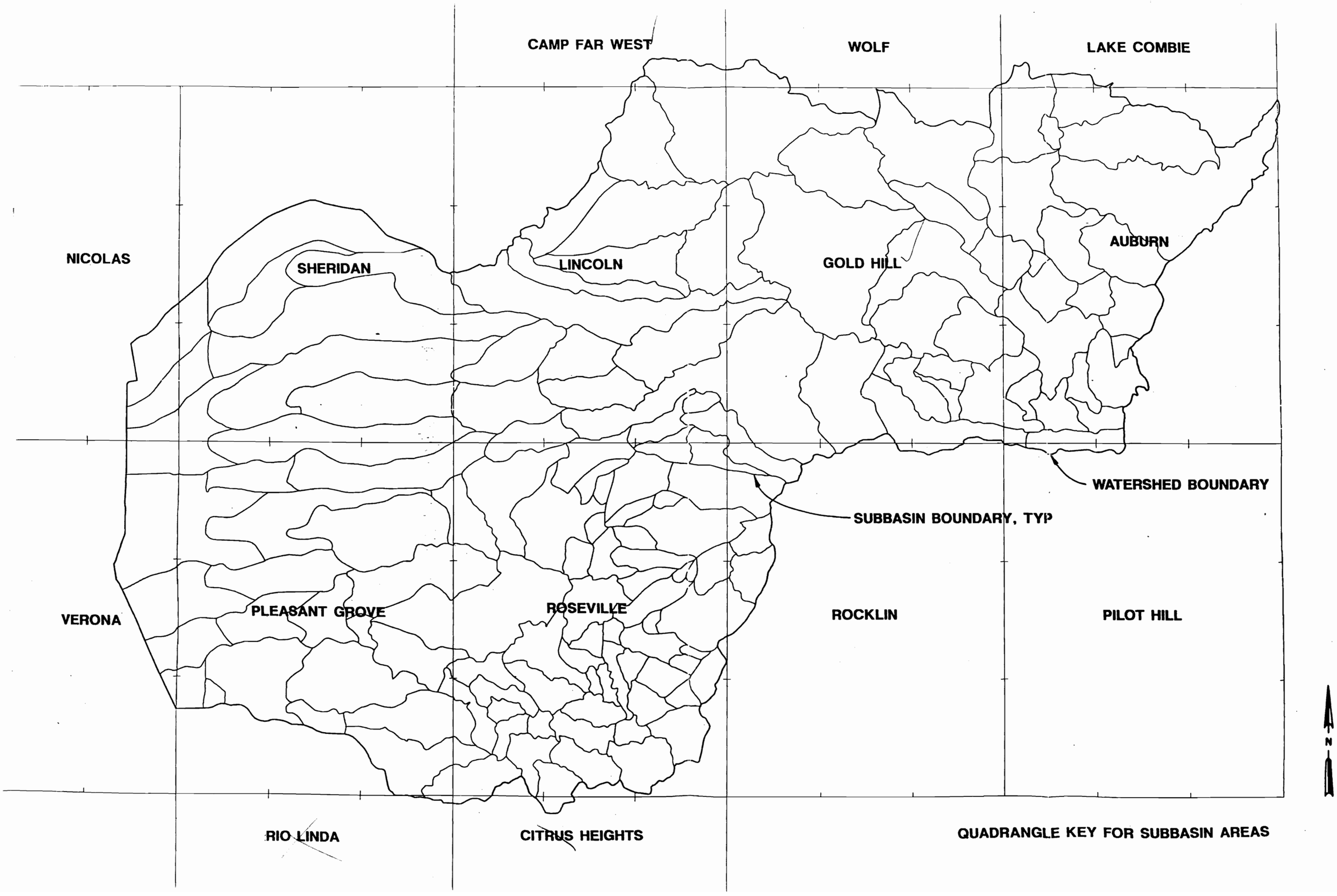
SUBBASIN AREAS
CAMP FAR WEST QUADRANGLE



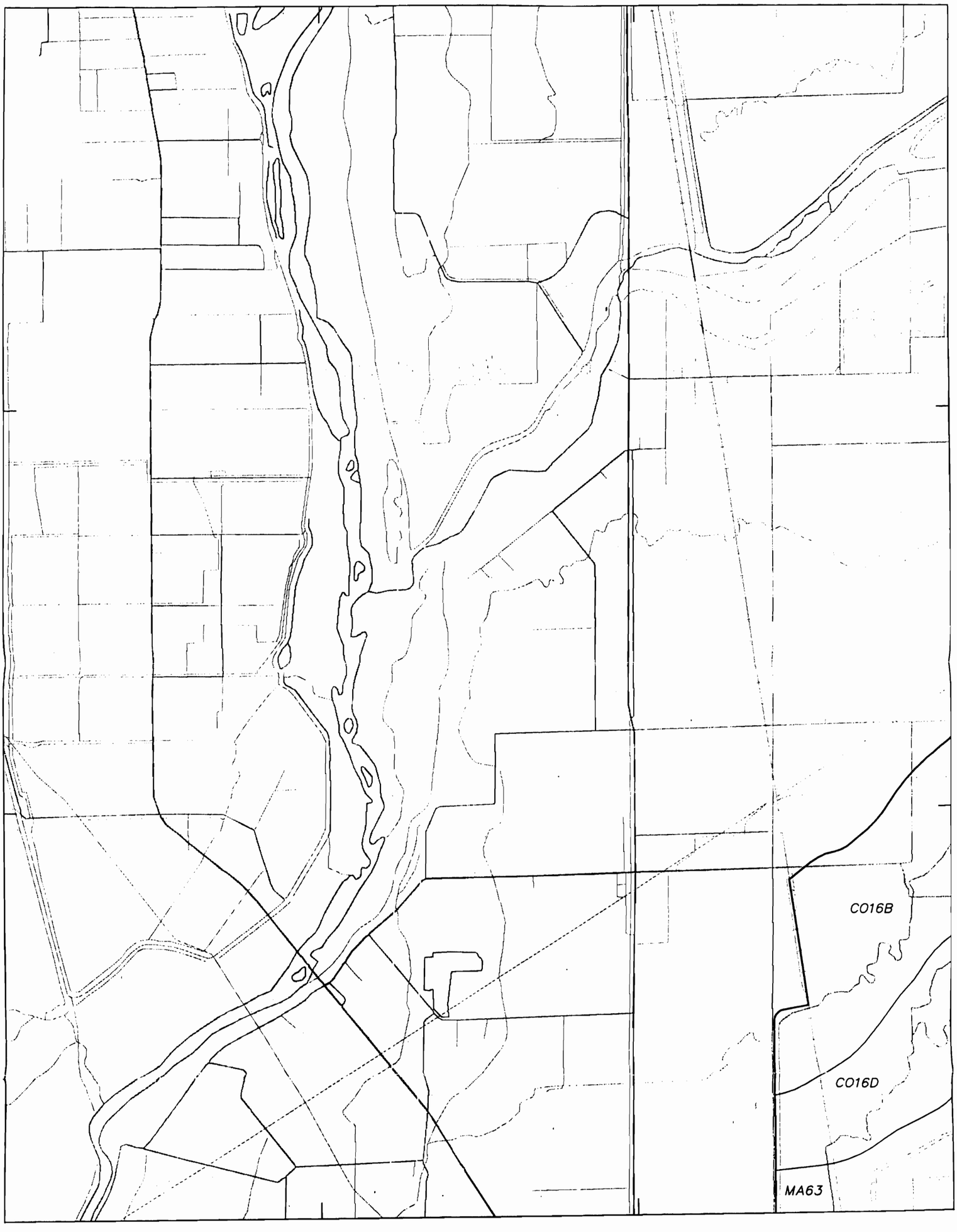
SUBBASIN AREAS
LINCOLN QUADRANGLE



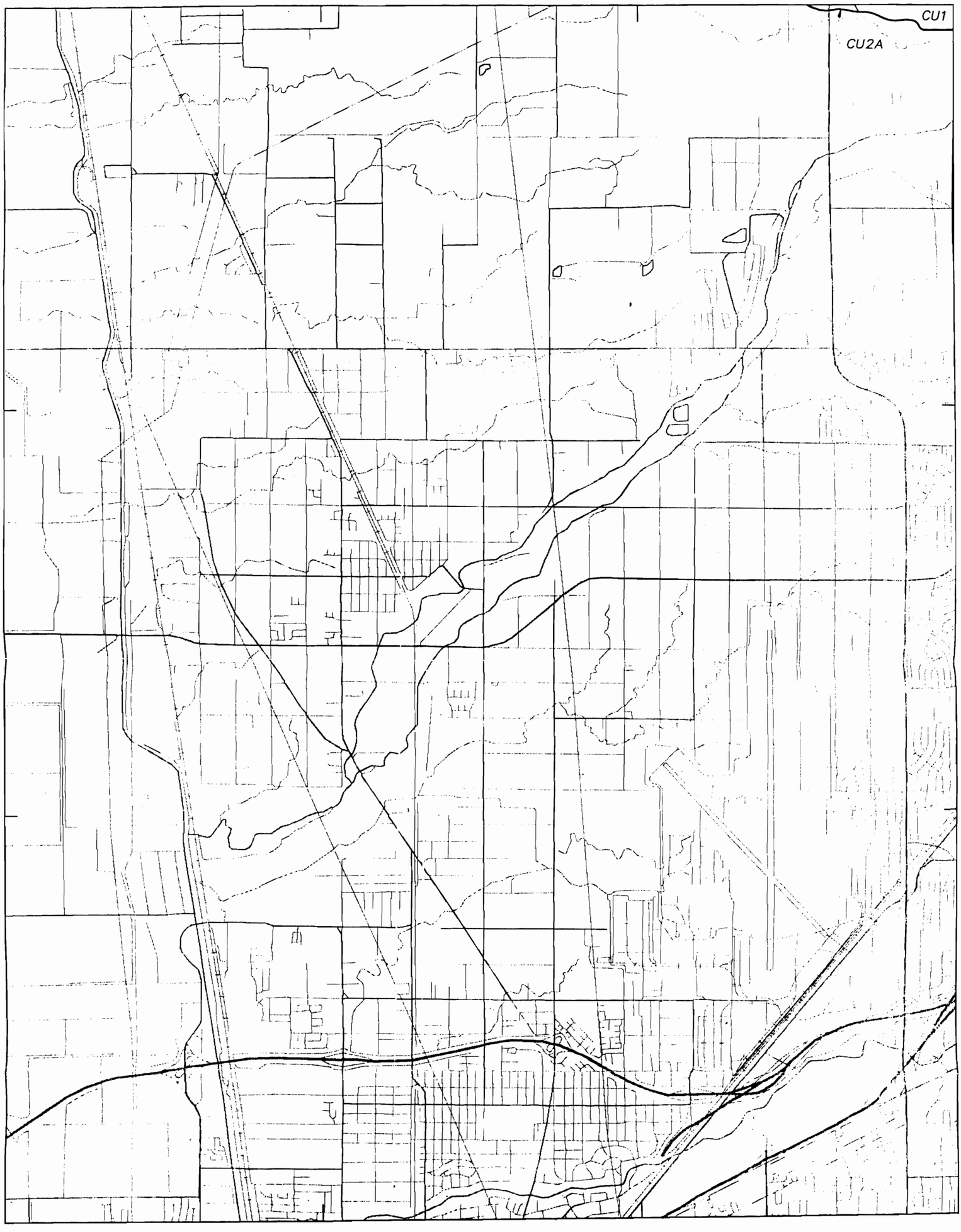
SUBBASIN AREAS
ROSEVILLE QUADRANGLE


CAMP FAR WEST
WOLF
LAKE COMBIE
NICOLAS
SHERIDAN
LINCOLN
GOLD HILL
AUBURN
WATERSHED BOUNDARY
SUBBASIN BOUNDARY, TYP
VERONA
PLEASANT GROVE
ROSEVILLE
ROCKLIN
PILOT HILL
N
RIO LINDA
CITRUS HEIGHTS
QUADRANGLE KEY FOR SUBBASIN AREAS

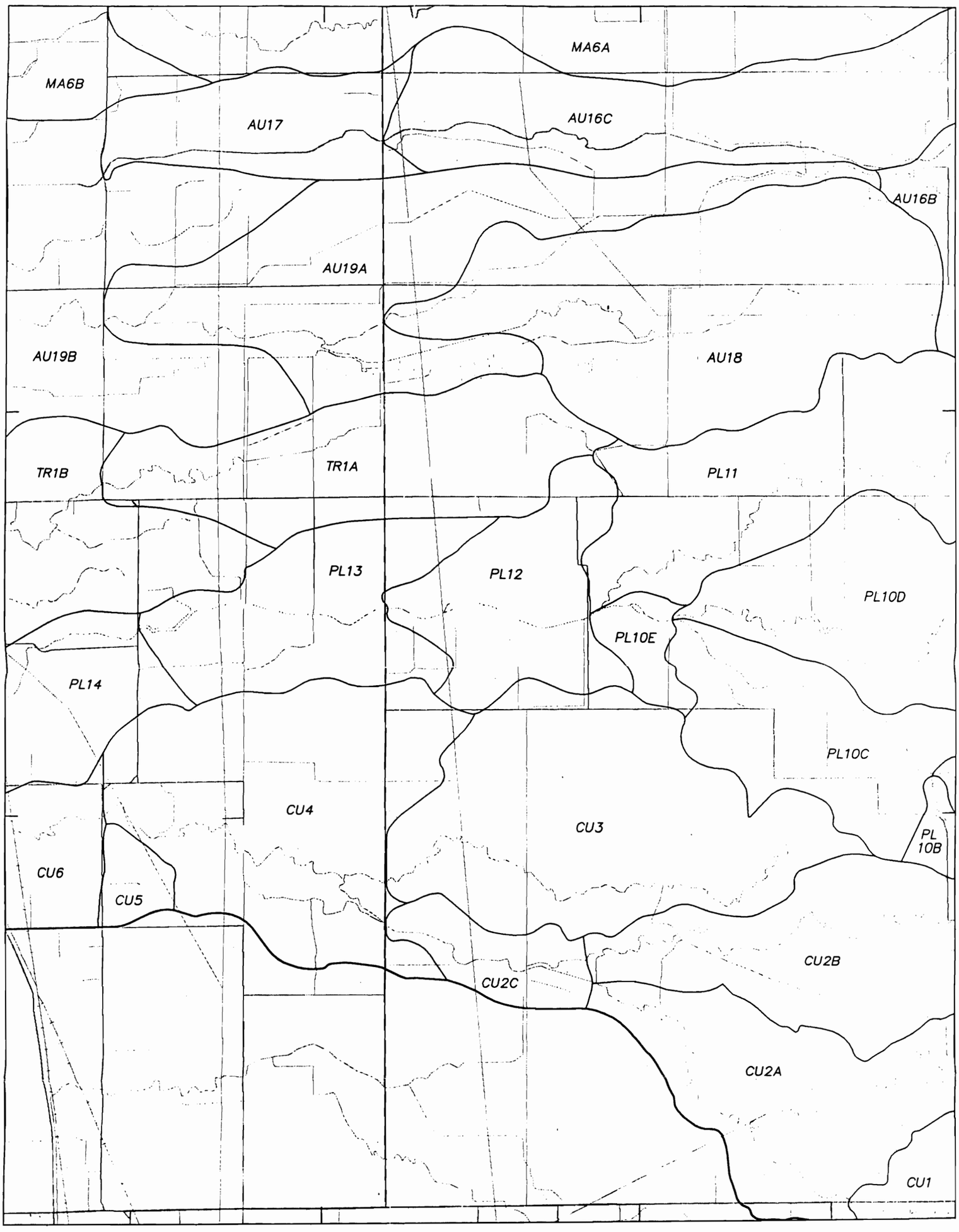
SUBBASIN AREAS
VERONA QUADRANGLE



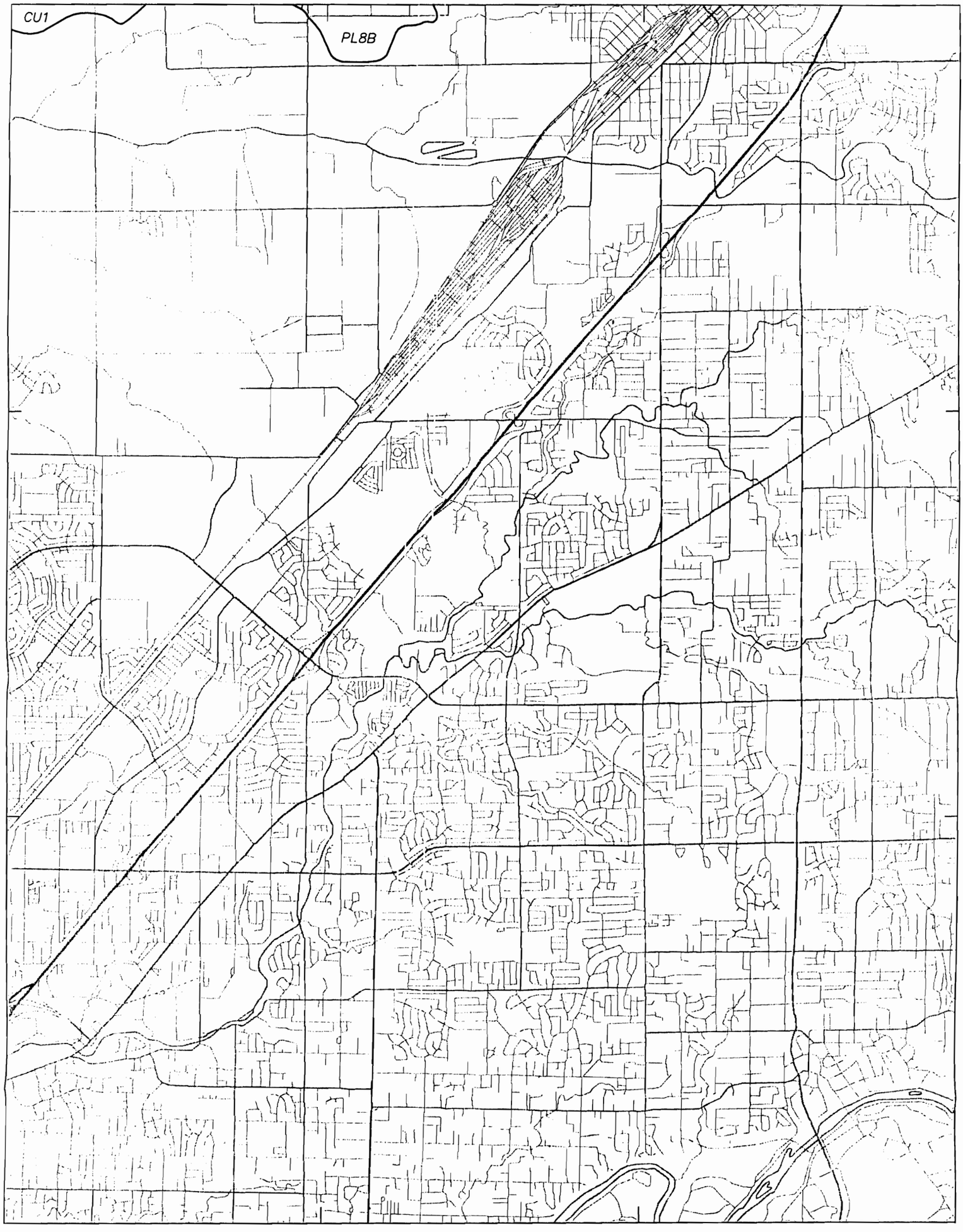
SUBBASIN AREAS
NICOLAUS QUADRANGLE



SUBBASIN AREAS
RIO LINDA QUADRANGLE



SUBBASIN AREAS
PLEASANT GROVE QUADRANGLE



SUBBASIN AREAS
CITRUS HEIGHTS QUADRANGLE

Appendix B
Hydrologic Model

The Corps of Engineers' HEC-1 model was used to model the watershed. The model includes 147 subbasins. Input files for the watershed have been prepared within Lotus 1-2-3 spreadsheets that contain pertinent data and parameters for each subbasin. Therefore, the operation of the model requires a general familiarity with Lotus 1-2-3 in addition to experience with the HEC-1.

Two models have been prepared:

- 24-hour model (R24.WK1)
- 8-day model (RUN.WK1)

Preparing a HEC-1 input file requires the following steps:

- Enter Lotus 1-2-3
- File, retrieve one of the above models
- Modify desired parameters
- Recalculate (F9)
- Print, file (provide desired name; range is preset), go
- Exit Lotus 1-2-3
- Run HEC-1

24-Hour Model

The model is preset for the 24-hour 100-year precipitation with future land use conditions and no retention or detention storage. The model does not require input of all new data for each run; only data involved with desired changes needs to be modified. Following are typical changes:

Land Use

- In cell M14 enter:

  10 for historical land use
  11 for existing land use
  12 for future land use

  to set the impervious area.

- Copy to cells J23..K172:

  Z23..AA172 for historical land use
  AB23..AC172 for existing land use
  AD23..AE172 for future land use

  to set the basin "n" and C_p

Storm Precipitation

- Copy to cells B185..K187:

  N179..W181 for 100-year precipitation pattern
  N185..W187 for 25-year precipitation pattern
  Y179..AH181 for 10-year precipitation pattern
  Y185..AH187 for 2-year precipitation pattern

  (hourly values for an alternate precipitation pattern can be entered in B185..K187A)

- Copy to cell E17:

  cell N178 for 24-hour 100-year precipitation
  cell N184 for 24-hour 25-year precipitation
  cell Y178 for 24-hour 10-year precipitation
  cell Y184 for 24-hour 2-year precipitation

The precipitation is indexed to the mean elevation of each subbasin. If an alternative index is desired, new equations should be inserted in cells E23..E172.

Base flow

- Base flow is set at 3 cfs/sq mi. Enter alternate base flow in cell H16.

Detention storage

- Cells A23..A172 contain a "*" for subbasins where detention storage can be used; detention storage at other locations requires modification of the HEC-1 input file portion of the spreadsheet.

- Cells S6..S14 contain elevation data for each detention basin. Cells T6..T14 contain volume data for each detention basin. These cells should not normally be modified.

- For detention storage each basin size and outlet size are defined:

  cells S23..S172 contain volume index that multiplies cell T6..T14
  cells T23..T172 contain orifice elevations (not normally modified)
  cells U23..U172 contain orifice areas
  cells V23..V172 orifice coefficient

Infiltration

Constant infiltration rates are preset in the model. The model will accept data for the Holtan loss rate equation:

cells O23..O172 contain the constant infiltration rate (in/hr)
cell P23..P172 contain the surface infiltration rate (in/hr)
cells Q23..Q172 contain moisture capacity (inches)
cells R23..R172 contain the exponent (preset at 1.4)

Lag

The lag equation is contained in cells I23..I172. An alternate equation can be inserted in these cells.

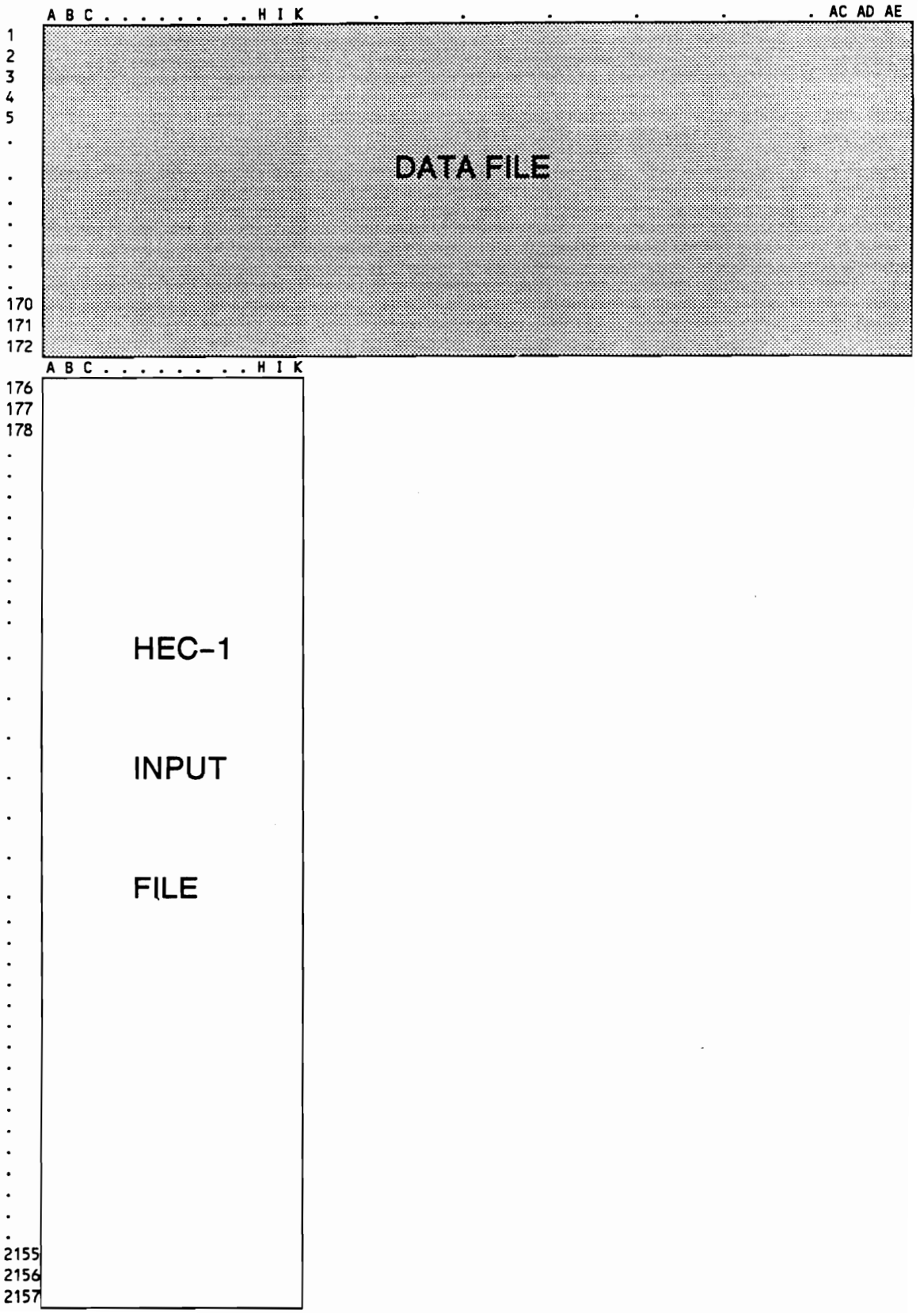
8-Day Model

The 8-day model is the same as the 24-hour model but the precipitation is preset for the 8-day 100-year storm. Modification of other parameters is the same as for the above 24-hour model.

Spreadsheet

The following shows the contents of the Lotus 1-2-3 spreadsheet for the 24-hour model. The data file is contained in cells A1..AE172. The HEC-1 input file is contained in cells A177..K2157.

AUBURN RAVINE, COON, AND PLEASANT GROVE CREEKS LOTUS 123 MODEL KEY



BASE FLOW/SQ MI= 3

24 Hr Pr 4.52

	BASIN CODE	1 AREA (SQ MI)	2 MEAN PRECIP (IN)	3 STORM PRECIP (IN)	4 CHANNEL LENGTH (FT)	5 DIST TROID ((FT)	6 SLOPE (FT/FT)	7 LAG (HR)	8 BASIN "N"	9 CP
=	======	=======	=======	=======	=======	=======	=======	=======	=======	=======
	CU1	1.75	20	3.95	14800	8400	0.0025	3.1	0.11	0.6
	CU2A	2.78	19.5	3.85	22600	12500	0.0026	3.0	0.08	0.6
	CU2B	2.71	19.5	3.85	21400	11600	0.0026	2.9	0.08	0.6
	CU2C	0.69	19	3.74	8500	5400	0.0016	1.7	0.08	0.6
	CU3	3.79	19	3.74	17800	9500	0.0021	2.6	0.08	0.6
	CU4	3.58	18	3.53	15600	8500	0.0021	2.4	0.08	0.6
	CU5	0.28	17.5	3.42	4600	3200	0.0028	1.0	0.08	0.6
	CU6	0.87	17.5	3.42	7000	3600	0.002	1.3	0.08	0.6
	PL1A	0.66	24	4.80	6900	3600	0.025	0.4	0.045	0.6
*	PL1B	0.86	24	4.80	8000	4000	0.032	0.5	0.045	0.6
	PL1C	0.9	23	4.59	8300	5000	0.018	1.0	0.08	0.6
*	PL1D	2.51	22.5	4.49	15800	8200	0.0065	0.7	0.028	0.7
*	PL2A	0.18	22	4.38	2800	1500	0.023	0.1	0.028	0.7
	PL2B	0.15	22	4.38	3200	2000	0.024	0.2	0.028	0.7
*	PL2C	0.24	22	4.38	4100	2300	0.028	0.3	0.05	0.65
	PL2D	0.87	22	4.38	10500	6000	0.0069	1.4	0.08	0.6
	PL2E	0.13	22.5	4.49	2600	1600	0.059	0.3	0.08	0.6
*	PL2F	0.1	22.5	4.49	2800	1500	0.053	0.3	0.08	0.6
*	PL2G	1.07	22	4.38	12000	5700	0.0086	0.4	0.024	0.8
*	PL2H	0.25	21.5	4.27	3200	1800	0.018	0.1	0.024	0.8
	PL3	0.58	22	4.38	7200	3000	0.0079	0.4	0.032	0.6
	PL4A	0.35	22	4.38	5200	2700	0.015	0.7	0.08	0.6
*	PL4B	0.73	21.5	4.27	9000	4400	0.0055	0.5	0.035	0.6
	PL4C	0.72	21.5	4.27	6500	4100	0.017	0.9	0.08	0.6
	PL4D	0.4	21.5	4.27	5600	2000	0.0054	0.4	0.045	0.6
*	PL4E	0.56	21.5	4.27	11700	5700	0.0048	0.5	0.024	0.8
*	PL5A	0.41	21	4.17	6000	4600	0.0043	0.3	0.024	0.8
	PL5B	0.52	22	4.38	7500	3400	0.023	0.5	0.05	0.65
*	PL5C	1.64	21.5	4.27	12900	7400	0.0031	0.6	0.024	0.8
	PL5D	0.18	21	4.17	3700	2000	0.005	0.2	0.024	0.8
	PL5E	0.3	21	4.17	6200	3200	0.006	0.3	0.024	0.8
	PL5F	0.46	21	4.17	5600	3800	0.0063	0.3	0.024	0.8
*	PL5G	1.76	21	4.17	15300	6200	0.0042	1.0	0.045	0.65
*	PL6A	1.37	21.5	4.27	9400	3400	0.0044	0.5	0.035	0.75
*	PL6B	1.54	21.5	4.27	10800	8400	0.0048	0.9	0.04	0.7
	PL6C	0.44	21.5	4.27	5200	3000	0.0077	0.5	0.045	0.7
*	PL7A	0.91	21	4.17	10300	5400	0.0024	1.0	0.05	0.6
*	PL7B	0.79	21	4.17	9000	5800	0.0052	0.4	0.024	0.8
*	PL7C	1.25	21	4.17	13500	7600	0.0033	1.1	0.045	0.6
*	PL8A	1.19	21	4.17	10600	6000	0.0039	1.0	0.05	0.6
*	PL8B	0.58	20.5	4.06	7100	4200	0.0059	0.7	0.05	0.6
*	PL8C	1	20.5	4.06	9400	4200	0.0032	1.4	0.08	0.6

	A	B	C	D	E	F	G	H	I	J	K
65	*	PL8D	0.35	20.5	4.06	4600	2000	0.005	0.7	0.08	0.6
66		PL8E	0.53	20.5	4.06	5900	1600	0.0063	0.7	0.08	0.6
67		PL8F	0.36	20.5	4.06	6000	3100	0.006	0.9	0.08	0.6
68		PL9	0.72	20.5	4.06	10400	5000	0.0054	1.4	0.08	0.6
69		PL10A	0.95	20.5	4.06	12000	5800	0.0037	1.7	0.08	0.6
70		PL10B	0.95	20	3.95	12300	8000	0.0032	2.0	0.08	0.6
71		PL10C	1.94	19.5	3.85	1400	7700	0.0022	0.9	0.08	0.6
72	*	PL10D	5.62	20.5	4.06	31000	18600	0.0018	4.3	0.08	0.6
73	*	PL10D+		20	3.95					0.08	0.6
74		PL10E	0.35	19.5	3.85	5400	2400	0.0033	0.9	0.08	0.6
75		PL11	3.97	20	3.95	23000	13000	0.0019	3.3	0.08	0.6
76		PL12	1.67	19	3.74	9600	5000	0.0032	1.5	0.08	0.6
77		PL13	1.93	18.5	3.64	11000	7200	0.001	2.3	0.08	0.6
78		PL14	1.66	17.5	3.42	10800	5000	0.001	1.9	0.08	0.6
79		TR1A	2.64	19	3.74	18400	10600	0.0025	2.7	0.08	0.6
80		TR1B	3.29	17.5	3.42	17400	6100	0.0011	2.5	0.08	0.6
81	*	AU1A	1.57	34	6.93	8000	3400	0.033	0.3	0.035	0.75
82	*	AU1B	0.29	33	6.72	5000	2600	0.029	0.2	0.024	0.8
83	*	AU2A	1.66	32	6.50	6200	2200	0.023	0.2	0.028	0.75
84		AU2B	0.61	29	5.87	5800	4000	0.068	0.6	0.07	0.6
85		AU2C	0.63	29	5.87	7400	4200	0.032	0.9	0.09	0.6
86	*	AU3A	0.19	31	6.29	3000	2200	0.013	0.3	0.04	0.85
87	*	AU3B	0.79	33	6.72	7000	3600	0.031	0.3	0.03	0.75
88		AU3C	1.23	30	6.08	10000	7000	0.036	0.8	0.06	0.6
89		AU3D	2.91	29	5.87	15600	8200	0.034	1.0	0.06	0.6
90	*	AU3E	0.92	29	5.87	7200	4000	0.054	0.4	0.048	0.6
91		AU3F	0.58	29	5.87	7200	4000	0.058	0.8	0.09	0.6
92		AU4A	2.37	28	5.65	12600	4600	0.045	1.3	0.11	0.6
93		AU4B	0.75	28	5.65	8400	4000	0.041	1.1	0.11	0.6
94		AU4C	0.4	28	5.65	10600	6000	0.042	1.4	0.11	0.6
95		AU4D	1.21	27	5.44	13000	6400	0.038	1.6	0.11	0.6
96	*	AU5A	1.13	29	5.87	13000	7500	0.038	0.9	0.058	0.6
97	*	AU5B	0.46	28	5.65	6600	3600	0.014	0.4	0.041	0.6
98		AU5C	2.41	27	5.44	19200	7400	0.026	2.1	0.11	0.6
99		AU6	0.36	27	5.44	5500	3600	0.047	0.9	0.11	0.6
100		AU7	4.01	26.5	5.34	13600	6200	0.038	1.6	0.11	0.6
101		AU8	7.15	25	5.02	18600	7000	0.015	2.2	0.11	0.6
102		AU9A	0.57	23	4.59	5200	2800	0.011	1.0	0.11	0.6
103		AU9B	0.79	23	4.59	8200	5500	0.0044	1.2	0.07	0.6
104	*	AU10A	1.1	22	4.38	9400	5000	0.0052	0.6	0.037	0.6
105	*	AU10B	1.33	22	4.38	12600	6400	0.0027	2.6	0.11	0.6
106		AU11A	2.47	24	4.80	14600	8500	0.027	1.4	0.08	0.6
107	*	AU11B	1.52	23	4.59	12600	8600	0.0046	0.9	0.037	0.7
108	*	AU12A	0.2	23	4.59	3000	1600	0.031	0.2	0.04	0.6
109		AU12B	2.57	23	4.59	17500	10200	0.012	1.9	0.08	0.6
110	*	AU12C	0.37	22.5	4.49	7500	3800	0.015	0.5	0.04	0.6
111		AU13A	0.46	22.5	4.49	6600	3600	0.014	0.9	0.08	0.6
112	*	AU13B	0.79	22.5	4.49	11000	5400	0.015	1.2	0.08	0.6
113	*	AU13C	0.73	22	4.38	7200	3400	0.0042	0.4	0.026	0.75
114		AU13D	0.26	22	4.38	4000	1700	0.0063	0.6	0.08	0.6
115		AU14A	0.35	24	4.80	5000	2800	0.013	1.0	0.11	0.6
116		AU14B	1.73	25	5.02	18600	8200	0.018	2.3	0.11	0.6
117	*	AU14C	0.77	23	4.59	8200	5400	0.0048	0.7	0.04	0.6
118		AU14D	0.89	24	4.80	12000	5400	0.03	1.1	0.08	0.6
119	*	AU14E	0.67	23	4.59	7600	5200	0.012	1.1	0.08	0.6
120	*	AU15A	1.35	22.5	4.49	13000	8000	0.0028	1.0	0.037	0.6
121	*	AU15B	0.48	22.5	4.49	8600	5000	0.0023	0.6	0.032	0.6
122	*	AU15C	0.25	22.5	4.49	4200	2000	0.0039	0.3	0.032	0.6
123	*	AU15D	0.57	21.5	4.27	6000	3200	0.003	1.1	0.08	0.6
124	*	AU15E	2.92	21.5	4.27	12800	7000	0.0026	2.0	0.08	0.6
125		AU16A	3.19	21	4.17	14200	6200	0.0026	2.0	0.08	0.6
126		AU16B	1.59	20.5	4.06	12700	6200	0.0028	1.8	0.08	0.6
127	*	AU16B+		20.5	4.06					0.08	0.6
128		AU16C	3.66	20	3.95	27600	11500	0.0017	3.5	0.08	0.6

	A	B	C	D	E	F	G	H	I	J	K
129		AU17	1.43	18.5	3.64	11000	5500	0.0033	1.6	0.08	0.6
130		AU18	4.35	19.5	3.85	22000	12800	0.0016	3.3	0.08	0.6
131		AU19A	3.64	19	3.74	16000	8800	0.0014	2.6	0.08	0.6
132		AU19B	6.48	17.5	3.42	24000	13000	0.0008	4.0	0.08	0.6
133	*	MA1	3.61	24.5	4.91	24000	10400	0.0058	1.6	0.05	0.6
134	*	MA2A	1.74	23	4.59	15000	8500	0.0043	0.8	0.03	0.65
135	*	MA2B	1.86	23	4.59	14800	9800	0.003	0.9	0.03	0.6
136		MA2C	2.31	22	4.38	13000	6200	0.0024	1.9	0.08	0.6
137		MA3	4.2	20	3.95	27000	13500	0.0015	3.7	0.08	0.6
138	*	MA4	2.34	21.5	4.27	18000	10000	0.0021	1.1	0.032	0.65
139		MA5	6.79	20	3.95	35400	18500	0.0016	4.6	0.08	0.6
140		MA6A	5.14	19.5	3.85	31600	17500	0.0018	4.2	0.08	0.6
141		MA6B	3.77	18	3.53	18600	12200	0.0014	3.2	0.08	0.6
142		CO1	8.14	37	7.57	36600	16600	0.019	3.1	0.09	0.6
143	*	CO2A	2.19	35	7.14	12400	6400	0.017	1.0	0.06	0.6
144		CO2B	1.76	32	6.50	11000	4800	0.012	0.5	0.03	0.65
145		CO2C	3.51	30	6.08	15000	7500	0.029	1.5	0.09	0.6
146		CO3A	4.28	35	7.14	25000	13700	0.018	2.6	0.09	0.6
147		CO3B	1.63	33	6.72	10800	4200	0.037	1.0	0.09	0.6
148		CO3C	0.3	32	6.50	4000	2000	0.0095	0.8	0.11	0.6
149		CO4	3.09	31	6.29	17200	11600	0.018	2.5	0.11	0.6
150		CO5	4.82	29	5.87	14600	5800	0.059	1.5	0.11	0.6
151	*	CO6A	1.37	30	6.08	7800	3800	0.045	1.0	0.11	0.6
152		CO6B	1.58	29	5.87	15500	8500	0.028	2.0	0.11	0.6
153		CO7	3.76	28	5.65	15000	8000	0.017	2.1	0.11	0.6
154		CO8	9.63	27	5.44	24800	12000	0.021	2.9	0.11	0.6
155		CO9A	3.32	25	5.02	13800	7000	0.018	1.9	0.11	0.6
156		CO9B	1.66	24	4.80	16800	7600	0.003	3.0	0.11	0.6
157		CO9C	4.46	24	4.80	27000	13700	0.0083	3.7	0.11	0.6
158		CO10A	2.24	29	5.87	12000	5300	0.036	1.4	0.11	0.6
159		CO10B	2.92	28	5.65	15000	7200	0.058	1.6	0.11	0.6
160		CO10C	3.59	28	5.65	25100	12900	0.045	2.6	0.11	0.6
161		CO10D	9.81	27	5.44	20800	10200	0.0057	3.2	0.11	0.6
162		CO10E	3.64	25	5.02	12000	6800	0.013	1.4	0.08	0.6
163		CO11	2.75	24	4.80	20800	12600	0.0041	3.7	0.11	0.6
164		CO12	1.91	24	4.80	21200	10000	0.0037	2.6	0.08	0.6
165	*	CO13	6.41	24	4.80	46000	20200	0.0052	3.7	0.07	0.6
166	*	CO13+		24	4.80					0.07	0.6
167		CO14	3.66	21	4.17	33600	20400	0.0011	5.0	0.08	0.6
168		CO15	2.53	19	3.74	20200	9300	0.0012	3.0	0.08	0.6
169		CO16A	4.9	20	3.95	33200	16400	0.0013	4.5	0.08	0.6
170		CO16B	2.67	18	3.53	16600	7600	0.0016	2.5	0.08	0.6
171		CO16C	7.9	20	3.95	45800	23300	0.0014	5.7	0.08	0.6
172		CO16D	1.84	18	3.53	17200	9400	0.00039	3.5	0.08	0.6

	L	M	N	O	P	Q	R	S	T	U
1										
2								ELEV	VOL	
3								SE	SV	
4								(FT)	(AF)	
5								-------	-------	
6								100	0	
7								102	1	
8								104	5	
9								106	15	
10								108	35	
11								110	60	
12								114	130	
13	COLUMN IN %.IMPERVIOUS LOOKUP:							120	250	
14	======>		12 <========					130	500	
15	========	=========	========							
16		PERCENT IMPERVIOUS			HOLTON			DETENTION STORAGE		
17	========	=========	========	---------	-------	-------	-------	=======	=======	========
18	10	11	12	13	14	15	16	17	18	19
19	HIST	EXIST	FUTURE	EQUIL	SURF	MOIST	EXPON	VOL	ORIFICE	ORIFICE
20	10	11	12	INFILT.	INFILT.	CAP		INDEX	CL EL	AREA
21	%	%	%	(IN/HR)	(IN/HR)	(IN)				(SQ FT)
22	========	=========	========	=========	=======	=======	=======	=======	=======	========
23	0	0.1	2	0.05	0	1.5	1.4	1	102	1000
24	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
25	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
26	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
27	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
28	0	0.5	2	0.06	0	1.5	1.4	1	102	1000
29	0	0.5	0.5	0.06	0	1.5	1.4	1	102	1000
30	0	0.5	0.5	0.06	0	1.5	1.4	1	102	1000
31	0	0	3	0.06	0	1.5	1.4	1	102	1000
32	0	0	14	0.06	0	1.5	1.4	1	102	1000
33	0	0	2	0.06	0	1.5	1.4	1	102	1000
34	0	4	51	0.06	0	1.5	1.4	1	102	1000
35	0	16	46	0.06	0	1.5	1.4	1	102	1000
36	0	10	50	0.06	0	1.5	1.4	1	102	1000
37	0	3	42	0.06	0	1.5	1.4	1	102	1000
38	0	0.5	0.5	0.06	0	1.5	1.4	1	102	1000
39	0	0	0	0.06	0	1.5	1.4	1	102	1000
40	0	0	0	0.06	0	1.5	1.4	1	102	1000
41	0	4	67	0.06	0	1.5	1.4	1	102	1000
42	0	2	69	0.06	0	1.5	1.4	1	102	1000
43	0	20	22	0.06	0	1.5	1.4	1	102	1000
44	0	3	7	0.06	0	1.5	1.4	1	102	1000
45	0	3	62	0.06	0	1.5	1.4	1	102	1000
46	0	0.2	0.2	0.06	0	1.5	1.4	1	102	1000
47	0	6	16	0.06	0	1.5	1.4	1	102	1000
48	0	4	66	0.06	0	1.5	1.4	1	102	1000
49	0	4	68	0.06	0	1.5	1.4	1	102	1000
50	0	0	21	0.06	0	1.5	1.4	1	102	1000
51	0	7.5	61	0.06	0	1.5	1.4	1	102	1000
52	0	16	70	0.06	0	1.5	1.4	1	102	1000
53	0	11	70	0.06	0	1.5	1.4	1	102	1000
54	0	0.5	62	0.06	0	1.5	1.4	1	102	1000
55	0	2.6	18	0.06	0	1.5	1.4	1	102	1000
56	0	5	62	0.06	0	1.5	1.4	1	102	1000
57	0	14	25	0.06	0	1.5	1.4	1	102	1000
58	0	6.2	28	0.06	0	1.5	1.4	1	102	1000
59	0	6.9	32	0.06	0	1.5	1.4	1	102	1000
60	0	12.3	63	0.06	0	1.5	1.4	1	102	1000
61	0	3.2	28	0.06	0	1.5	1.4	1	102	1000
62	0	11.4	38	0.06	0	1.5	1.4	1	102	1000
63	0	0.1	32	0.06	0	1.5	1.4	1	102	1000
64	0	0.2	4	0.06	0	1.5	1.4	1	102	1000

	L	M	N	O	P	Q	R	S	T	U
65	0	0	28	0.06	0	1.5	1.4	1	102	1000
66	0	0.1	2	0.06	0	1.5	1.4	1	102	1000
67	0	0	2	0.06	0	1.5	1.4	1	102	1000
68	0	0.5	2	0.06	0	1.5	1.4	1	102	1000
69	0	0.5	2	0.05	0	1.5	1.4	1	102	1000
70	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
71	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
72	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
73								40	102	10000
74	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
75	0	0.5	2	0.05	0	1.5	1.4	1	102	1000
76	0	0.2	2	0.05	0	1.5	1.4	1	102	1000
77	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
78	0	0.5	0.5	0.05	0	1.5	1.4	1	102	1000
79	0	0.5	2	0.06	0	1.5	1.4	1	102	1000
80	0	0.5	0.5	0.06	0	1.5	1.4	1	102	1000
81	0	24	37	0.15	0	1.5	1.4	1	102	1000
82	0	38	80	0.15	0	1.5	1.4	1	102	1000
83	0	29	65	0.15	0	1.5	1.4	1	102	1000
84	0	7	8	0.15	0	1.5	1.4	1	102	1000
85	0	4	14	0.15	0	1.5	1.4	1	102	1000
86	0	37.8	37.8	0.13	0	1.5	1.4	1	102	1000
87	0	27	57	0.13	0	1.5	1.4	1	102	1000
88	0	1	11	0.13	0	1.5	1.4	1	102	1000
89	0	2	10	0.13	0	1.5	1.4	1	102	1000
90	0	9.1	24	0.13	0	1.5	1.4	1	102	1000
91	0	1	9	0.13	0	1.5	1.4	1	102	1000
92	0	0.5	8	0.13	0	1.5	1.4	1	102	1000
93	0	0.5	5	0.13	0	1.5	1.4	1	102	1000
94	0	0.5	2	0.13	0	1.5	1.4	1	102	1000
95	0	0.5	2	0.13	0	1.5	1.4	1	102	1000
96	0	5	18	0.13	0	1.5	1.4	1	102	1000
97	0	12.6	40	0.13	0	1.5	1.4	1	102	1000
98	0	0.5	2	0.13	0	1.5	1.4	1	102	1000
99	0	1	2	0.13	0	1.5	1.4	1	102	1000
100	0	0.5	2	0.13	0	1.5	1.4	1	102	1000
101	0	0.5	2	0.13	0	1.5	1.4	1	102	1000
102	0	0.3	5	0.12	0	1.5	1.4	1	102	1000
103	0	3.2	12	0.12	0	1.5	1.4	1	102	1000
104	0	5.6	25	0.12	0	1.5	1.4	1	102	1000
105	0	0.5	3	0.12	0	1.5	1.4	1	102	1000
106	0	0	3	0.05	0	1.5	1.4	1	102	1000
107	0	1.7	58	0.05	0	1.5	1.4	1	102	1000
108	0	0	19	0.05	0	1.5	1.4	1	102	1000
109	0	0	2	0.05	0	1.5	1.4	1	102	1000
110	0	0.6	21	0.05	0	1.5	1.4	1	102	1000
111	0	0.8	5	0.05	0	1.5	1.4	1	102	1000
112	0	0.6	6	0.05	0	1.5	1.4	1	102	1000
113	0	10.3	67	0.05	0	1.5	1.4	1	102	1000
114	0	2.6	5	0.05	0	1.5	1.4	1	102	1000
115	0	0	2	0.05	0	1.5	1.4	1	102	1000
116	0	0.3	3	0.05	0	1.5	1.4	1	102	1000
117	0	0	17	0.05	0	1.5	1.4	1	102	1000
118	0	0.2	3	0.05	0	1.5	1.4	1	102	1000
119	0	0	24	0.05	0	1.5	1.4	1	102	1000
120	0	0.5	28	0.05	0	1.5	1.4	1	102	1000
121	0	0	39	0.05	0	1.5	1.4	1	102	1000
122	0	0	38	0.05	0	1.5	1.4	1	102	1000
123	0	0.2	3	0.05	0	1.5	1.4	1	102	1000
124	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
125	0	0.3	2	0.1	0	1.5	1.4	1	102	1000
126	0	1.4	2	0.1	0	1.5	1.4	1	102	1000
127								1	102	10000
128	0	0.3	2	0.1	0	1.5	1.4	1	102	1000

	L	M	N	O	P	Q	R	S	T	U
129	0	0.3	1.5	0.1	0	1.5	1.4	1	102	1000
130	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
131	0	0.5	2	0.07	0	1.5	1.4	1	102	1000
132	0	0.5	0.5	0.07	0	1.5	1.4	1	102	1000
133	0	2.7	12	0.06	0	1.5	1.4	1	102	1000
134	0	4.9	49	0.09	0	1.5	1.4	1	102	1000
135	0	16.1	54	0.09	0	1.5	1.4	1	102	1000
136	0	0.8	3	0.09	0	1.5	1.4	1	102	1000
137	0	1	2	0.09	0	1.5	1.4	1	102	1000
138	0	9	40	0.09	0	1.5	1.4	1	102	1000
139	0	0.3	2	0.05	0	1.5	1.4	1	102	1000
140	0	0.3	2	0.07	0	1.5	1.4	1	102	1000
141	0	0.3	0.3	0.07	0	1.5	1.4	1	102	1000
142	0	1	11	0.2	0	1.5	1.4	1	102	1000
143	0	5	18	0.18	0	1.5	1.4	1	102	1000
144	0	31	52	0.18	0	1.5	1.4	1	102	1000
145	0	2	9	0.18	0	1.5	1.4	1	102	1000
146	0	0.8	5	0.18	0	1.5	1.4	1	102	1000
147	0	0.8	3	0.18	0	1.5	1.4	1	102	1000
148	0	0.3	2	0.18	0	1.5	1.4	1	102	1000
149	0	0.3	2	0.18	0	1.5	1.4	1	102	1000
150	0	0.3	3	0.18	0	1.5	1.4	1	102	1000
151	0	0.5	7	0.12	0	1.5	1.4	1	102	1000
152	0	0.1	3	0.12	0	1.5	1.4	1	102	1000
153	0	0.2	2	0.12	0	1.5	1.4	1	102	1000
154	0	0.2	2	0.12	0	1.5	1.4	1	102	1000
155	0	0.2	2	0.12	0	1.5	1.4	1	102	1000
156	0	0.3	2	0.12	0	1.5	1.4	1	102	1000
157	0	0.2	2	0.12	0	1.5	1.4	1	102	1000
158	0	0.5	5	0.09	0	1.5	1.4	1	102	1000
159	0	0.3	3	0.09	0	1.5	1.4	1	102	1000
160	0	0.3	3	0.09	0	1.5	1.4	1	102	1000
161	0	0.5	2	0.09	0	1.5	1.4	1	102	1000
162	0	0.5	2	0.09	0	1.5	1.4	1	102	1000
163	0	0.5	2	0.12	0	1.5	1.4	1	102	1000
164	0	0.5	2	0.12	0	1.5	1.4	1	102	1000
165	0	0.5	7	0.12	0	1.5	1.4	1	102	1000
166								1	102	10000
167	0	0.5	2	0.1	0	1.5	1.4	1	102	1000
168	0	0.5	2	0.1	0	1.5	1.4	1	102	1000
169	0	0.5	2	0.06	0	1.5	1.4	1	102	1000
170	0	0.6	0.6	0.06	0	1.5	1.4	1	102	1000
171	0	0.5	2	0.06	0	1.5	1.4	1	102	1000
172	0	0.4	0.4	0.06	0	1.5	1.4	1	102	1000

V	W	X	Y	Z	AA	AB	AC	AD	AE
=======				PREHISTORY		EXISTING		FUTURE	
20									
ORIFICE COEF	EXISTING IMPERVIOUS AREA(SQ MI)		ORIFICE	BASIN "N"	CP	BASIN "N"	CP	BASIN "N"	CP
=======	==========			=======	=======	=======	========	=======	=======
0.6	0.04		1000	0.11	0.6	0.11	0.6	0.11	0.6
0.6	0.06		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.05		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.08		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.02		1000	0.08	0.6	0.08	0.6	0.045	0.6
0.6	0.12		28	0.08	0.6	0.08	0.6	0.045	0.6
0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	1.28		32	0.08	0.6	0.08	0.6	0.028	0.7
0.6	0.08		1000	0.08	0.6	0.07	0.6	0.028	0.7
0.6	0.08		1000	0.08	0.6	0.07	0.6	0.028	0.7
0.6	0.10		1000	0.08	0.6	0.08	0.6	0.05	0.65
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.72		20	0.08	0.6	0.075	0.6	0.024	0.8
0.6	0.17		1000	0.08	0.6	0.08	0.6	0.024	0.8
0.6	0.13		1000	0.08	0.6	0.043	0.6	0.032	0.6
0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.45		16	0.08	0.6	0.08	0.6	0.035	0.6
0.6	0.00		1000	0.08	0.6	0.08	0.6	0.08	0.6
0.6	0.06		1000	0.08	0.6	0.08	0.6	0.045	0.6
0.6	0.37		12	0.08	0.6	0.08	0.6	0.024	0.8
0.6	0.28		10	0.08	0.6	0.08	0.6	0.024	0.8
0.6	0.11		1000	0.08	0.6	0.08	0.6	0.05	0.65
0.6	1.00		22	0.08	0.6	0.073	0.6	0.024	0.8
0.6	0.13		1000	0.08	0.6	0.065	0.65	0.024	0.8
0.6	0.21		1000	0.08	0.6	0.073	0.6	0.024	0.8
0.6	0.29		1000	0.08	0.6	0.08	0.6	0.024	0.8
0.6	0.32		25	0.08	0.6	0.08	0.6	0.045	0.65
0.6	0.85		26	0.08	0.6	0.08	0.6	0.035	0.75
0.6	0.39		44	0.08	0.6	0.05	0.6	0.04	0.7
0.6	0.12		1000	0.08	0.6	0.07	0.6	0.045	0.7
0.6	0.29		20	0.08	0.6	0.07	0.6	0.05	0.6
0.6	0.50		16	0.08	0.6	0.07	0.6	0.024	0.8
0.6	0.35		18	0.08	0.6	0.08	0.6	0.045	0.6
0.6	0.45		30	0.08	0.6	0.055	0.6	0.05	0.6
0.6	0.19		13	0.08	0.6	0.08	0.6	0.05	0.6
0.6	0.04		90	0.08	0.6	0.08	0.6	0.08	0.6

	V	W	X	Y	Z	AA	AB	AC	AD	AE
65	0.6	0.10		1000	0.08	0.6	0.08	0.6	0.08	0.6
66	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
67	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
68	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
69	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
70	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
71	0.6	0.04		1000	0.08	0.6	0.08	0.6	0.08	0.6
72	0.6	0.11		1000	0.08	0.6	0.08	0.6	0.08	0.6
73	0.6			500	0.08	0.6	0.08	0.6	0.08	0.6
74	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
75	0.6	0.08		1000	0.08	0.6	0.08	0.6	0.08	0.6
76	0.6	0.03		1000	0.08	0.6	0.08	0.6	0.08	0.6
77	0.6	0.04		1000	0.08	0.6	0.08	0.6	0.08	0.6
78	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
79	0.6	0.05		1000	0.08	0.6	0.08	0.6	0.08	0.6
80	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
81	0.6	0.58		1000	0.11	0.6	0.035	0.75	0.035	0.75
82	0.6	0.23		1000	0.11	0.6	0.03	0.8	0.024	0.8
83	0.6	1.08		52	0.11	0.6	0.035	0.75	0.028	0.75
84	0.6	0.05		1000	0.11	0.6	0.07	0.6	0.07	0.6
85	0.6	0.09		1000	0.11	0.6	0.09	0.6	0.09	0.6
86	0.6	0.07		1000	0.11	0.6	0.055	0.85	0.04	0.85
87	0.6	0.45		35	0.11	0.6	0.035	0.75	0.03	0.75
88	0.6	0.14		1000	0.11	0.6	0.06	0.6	0.06	0.6
89	0.6	0.29		1000	0.11	0.6	0.06	0.6	0.06	0.6
90	0.6	0.22		1000	0.11	0.6	0.08	0.6	0.048	0.6
91	0.6	0.05		1000	0.11	0.6	0.09	0.6	0.09	0.6
92	0.6	0.19		1000	0.11	0.6	0.11	0.6	0.11	0.6
93	0.6	0.04		1000	0.11	0.6	0.11	0.6	0.11	0.6
94	0.6	0.01		1000	0.11	0.6	0.11	0.6	0.11	0.6
95	0.6	0.02		1000	0.11	0.6	0.11	0.6	0.11	0.6
96	0.6	0.20		30	0.11	0.6	0.07	0.6	0.058	0.6
97	0.6	0.18		16	0.11	0.6	0.05	0.6	0.041	0.6
98	0.6	0.05		1000	0.11	0.6	0.11	0.6	0.11	0.6
99	0.6	0.01		1000	0.11	0.6	0.11	0.6	0.11	0.6
100	0.6	0.08		1000	0.11	0.6	0.11	0.6	0.11	0.6
101	0.6	0.14		1000	0.11	0.6	0.11	0.6	0.11	0.6
102	0.6	0.03		1000	0.11	0.6	0.11	0.6	0.11	0.6
103	0.6	0.09		1000	0.11	0.6	0.11	0.6	0.07	0.6
104	0.6	0.28		18	0.11	0.6	0.074	0.6	0.037	0.6
105	0.6	0.04		1000	0.11	0.6	0.11	0.6	0.11	0.6
106	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
107	0.6	0.88		23	0.08	0.6	0.08	0.6	0.037	0.7
108	0.6	0.04		1000	0.08	0.6	0.08	0.6	0.04	0.6
109	0.6	0.05		1000	0.08	0.6	0.08	0.6	0.08	0.6
110	0.6	0.08		12	0.08	0.6	0.08	0.6	0.04	0.6
111	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
112	0.6	0.05		1000	0.08	0.6	0.08	0.6	0.08	0.6
113	0.6	0.49		18	0.08	0.6	0.08	0.6	0.026	0.75
114	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
115	0.6	0.01		1000	0.11	0.6	0.11	0.6	0.11	0.6
116	0.6	0.05		1000	0.11	0.6	0.11	0.6	0.11	0.6
117	0.6	0.13		15	0.11	0.6	0.11	0.6	0.04	0.6
118	0.6	0.03		1000	0.08	0.6	0.08	0.6	0.08	0.6
119	0.6	0.16		1000	0.08	0.6	0.08	0.6	0.08	0.6
120	0.6	0.38		18	0.08	0.6	0.08	0.6	0.037	0.6
121	0.6	0.19		10	0.08	0.6	0.08	0.6	0.032	0.6
122	0.6	0.10		1000	0.08	0.6	0.08	0.6	0.032	0.6
123	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
124	0.6	0.06		1000	0.08	0.6	0.08	0.6	0.08	0.6
125	0.6	0.06		1000	0.08	0.6	0.08	0.6	0.08	0.6
126	0.6	0.03		1000	0.08	0.6	0.08	0.6	0.08	0.6
127	0.6			10000	0.08	0.6	0.08	0.6	0.08	0.6
128	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6

	V	W	X	Y	Z	AA	AB	AC	AD	AE
129	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
130	0.6	0.09		1000	0.08	0.6	0.08	0.6	0.08	0.6
131	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
132	0.6	0.03		1000	0.08	0.6	0.08	0.6	0.08	0.6
133	0.6	0.43		46	0.08	0.6	0.08	0.6	0.05	0.6
134	0.6	0.85		17	0.08	0.6	0.08	0.6	0.03	0.65
135	0.6	1.00		40	0.08	0.6	0.06	0.6	0.03	0.6
136	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
137	0.6	0.08		1000	0.08	0.6	0.08	0.6	0.08	0.6
138	0.6	0.94		20	0.08	0.6	0.08	0.6	0.032	0.65
139	0.6	0.14		1000	0.08	0.6	0.08	0.6	0.08	0.6
140	0.6	0.10		1000	0.08	0.6	0.08	0.6	0.08	0.6
141	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6
142	0.6	0.90		1000	0.11	0.6	0.09	0.6	0.09	0.6
143	0.6	0.39		55	0.08	0.6	0.08	0.6	0.06	0.6
144	0.6	0.92		1000	0.11	0.6	0.035	0.6	0.03	0.65
145	0.6	0.32		1000	0.11	0.6	0.09	0.6	0.09	0.6
146	0.6	0.21		1000	0.11	0.6	0.09	0.6	0.09	0.6
147	0.6	0.05		1000	0.11	0.6	0.09	0.6	0.09	0.6
148	0.6	0.01		1000	0.11	0.6	0.11	0.6	0.11	0.6
149	0.6	0.06		1000	0.11	0.6	0.11	0.6	0.11	0.6
150	0.6	0.14		1000	0.11	0.6	0.11	0.6	0.11	0.6
151	0.6	0.10		1000	0.11	0.6	0.11	0.6	0.11	0.6
152	0.6	0.05		1000	0.11	0.6	0.11	0.6	0.11	0.6
153	0.6	0.08		1000	0.11	0.6	0.11	0.6	0.11	0.6
154	0.6	0.19		1000	0.11	0.6	0.11	0.6	0.11	0.6
155	0.6	0.07		1000	0.11	0.6	0.11	0.6	0.11	0.6
156	0.6	0.03		1000	0.11	0.6	0.11	0.6	0.11	0.6
157	0.6	0.09		1000	0.11	0.6	0.11	0.6	0.11	0.6
158	0.6	0.11		1000	0.11	0.6	0.11	0.6	0.11	0.6
159	0.6	0.09		1000	0.11	0.6	0.11	0.6	0.11	0.6
160	0.6	0.11		1000	0.11	0.6	0.11	0.6	0.11	0.6
161	0.6	0.20		1000	0.11	0.6	0.11	0.6	0.11	0.6
162	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
163	0.6	0.06		1000	0.11	0.6	0.11	0.6	0.11	0.6
164	0.6	0.04		1000	0.08	0.6	0.08	0.6	0.08	0.6
165	0.6	0.45		45	0.08	0.6	0.08	0.6	0.07	0.6
166	0.6			10000	0.08	0.6	0.08	0.6	0.07	0.6
167	0.6	0.07		1000	0.08	0.6	0.08	0.6	0.08	0.6
168	0.6	0.05		1000	0.08	0.6	0.08	0.6	0.08	0.6
169	0.6	0.10		1000	0.08	0.6	0.08	0.6	0.08	0.6
170	0.6	0.02		1000	0.08	0.6	0.08	0.6	0.08	0.6
171	0.6	0.16		1000	0.08	0.6	0.08	0.6	0.08	0.6
172	0.6	0.01		1000	0.08	0.6	0.08	0.6	0.08	0.6

AUBURN RAVINE, COON, AND PLEASANT GROVE CREEKS LOTUS 123 MODEL KEY

A B C . . . . . H I K . . . . . AC AD AE

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171
172

DATA FILE

A B C . . . . . H I K

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ID  24-HOUR MODEL
ID  PLACER COUNTY HYDROLOGY
ID  BY CH2M HILL
IT     60                        100
IO      5
KK    CU1  CURRY CREEK
BA   1.75
PB  3.955
PI   0.11     0.11     0.12     0.12     0.12     0.14     0.14     0.15     0.18     0.18
PI   0.21     0.24     0.37     0.79     0.29     0.22     0.16     0.16     0.14     0.13
PI   0.12     0.11     0.11      0.1
BF   5.25
LH   0.05        0      1.5      1.4        2
US 3.0915      0.6
KK   RCH1  ROUTE FROM CU1 TO CU2A
RS      1     FLOW       -1
RC  0.055    0.055    0.055    14200   0.0014     1000
RX      0        0      400      413      427      440      840      840
RY   1020     1000      990    983.5    983.5      990     1000     1020
KK   CU2A  CURRY CREEK
BA   2.78
PB 3.8487
BF   8.34
LH   0.05        0      1.5      1.4        2
US 3.0486      0.6
KK   CU2B  CURRY CREEK
BA   2.71
PB 3.8487
BF   8.13
LH   0.05        0      1.5      1.4        2
US 2.9024      0.6
KK  CU2A+  COMBINE HYDROGRAPHS
HC      3
KK   RCH2  ROUTE FROM CU2A TO CU2C
RS      1     FLOW       -1
RC  0.045    0.045    0.045     8800   0.0014     1000
RX      0        0     1000     1013     1027     1040     2040     2040
RY   1020     1000      990    983.5    983.5      990     1000     1020
KK   CU2C  CURRY CREEK
BA   0.69
PB 3.7425
BF   2.07
LH   0.05        0      1.5      1.4        2
US 1.6759      0.6
KK    CU3  CURRY CREEK
BA   3.79
PB 3.7425
BF  11.37
LH   0.05        0      1.5      1.4        2
US 2.6123      0.6
KK   CU3+  COMBINE HYDROGRAPHS
HC      3
KK   RCH3  ROUTE FROM CU3 TO CU4
RS      1     FLOW       -1
RC  0.045    0.045    0.045    12200    0.001     1000
RX      0        0     1200   1210.5   1230.5     1241     2441     2441
RY   1020     1000      995      988      988      995     1000     1020
KK    CU4  CURRY CREEK
BA   3.58
PB 3.5301
BF  10.74
LH   0.06        0      1.5      1.4        2
US 2.3818      0.6
KK    CU5  CURRY CREEK
BA   0.28
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PB 3.4239
BF   0.84
LH   0.06       0      1.5      1.4      0.5
US 0.9781     0.6
KK   CU5+  COMBINE HYDROGRAPHS
HC      3
KK   RCH4  ROUTE FROM CU5 TO CU6
RS      1    FLOW      -1
RC   0.04    0.04     0.04     6000   0.0016     1000
RX      0       0     1200     1210     1230     1240     2440     2440
RY   1020    1000      995      990      990      995     1000     1020
KK    CU6  CURRY CREEK
BA   0.87
PB 3.4239
BF   2.61
LH   0.06       0      1.5      1.4      0.5
US 1.2790     0.6
KK   CU6+  COMBINE HYDROGRAPHS - END CURRY CREEK
HC      2
KK   PL1A  PLEASANT GROVE CREEK
BA   0.66
PB 4.8047
BF   1.98
LH   0.06       0      1.5      1.4        3
US 0.4428     0.6
KK   RCH1  ROUTE FROM PL1A TO PL1B
RS      1    FLOW      -1
RC   0.05    0.05     0.05     3600   0.011     1000
RX      0       0      350      363      368      381      731      731
RY   1020    1000      995    988.5    988.5      995     1000     1020
KK   PL1B  PLEASANT GROVE CREEK
BA   0.86
PB 4.8047
BF   2.58
LH   0.06       0      1.5      1.4       14
US 0.4652     0.6
KK    DTN
RS      1    FLOW      -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK  PL1B+  COMBINE HYDROGRAPHS
HC      2
KK   RCH2  ROUTE FROM PL1B TO PL1C
RS      1    FLOW      -1
RC   0.05    0.05     0.05     5000   0.009     1000
RX      0       0      400      413      418      431      831      831
RY   1020    1000      995    988.5    988.5      995     1000     1020
KK   PL1C  PLEASANT GROVE CREEK
BA    0.9
PB 4.5923
BF    2.7
LH   0.06       0      1.5      1.4        2
US 1.0183     0.6
KK  PL1C+  COMBINE HYDROGRAPHS
HC      2
KK   RCH3  ROUTE FROM PL1C TO PL1D
RS      1    FLOW      -1
RC   0.05    0.05     0.05    10000  0.0025     1000
RX      0       0      400      413      423      436      836      836
RY   1020    1000      995    988.5    988.5      995     1000     1020
KK   PL1D  PLEASANT GROVE CREEK
BA   2.51
PB 4.4861
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BF   7.53
LH   0.06       0      1.5      1.4       51
US 0.6666     0.7
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK  PL1D+  COMBINE HYDROGRAPHS
HC      2
KK    SUN
RS      1    FLOW       -1
SV      0       1        3        7       14       25       41       58       77       99
SV    121     148      176      211      250
SE    126     130      131      132      133      134      135      136      137      138
SE    140     141      142      143      144
SQ      0      71      131      202      282      371      467      571      681      798
SQ    920    1048     1182     1321     1523     1597
SE    126     128      129      130      131      132      133      134      135      136
SE    137     138      139      140      141      142
KK   PL2A  PLEASANT GROVE CREEK
BA   0.18
PB 4.3798
BF   0.54
LH   0.06       0      1.5      1.4       46
US 0.1424     0.7
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK  PL2A+  COMBINE HYDROGRAPHS
HC      2
KK   RCH4  ROUTE FROM PL2A TO PL2D
RS      1    FLOW       -1
RC   0.05    0.05     0.05     4800   0.0014     1000
RX      0       0      350      370      395      415      765      765
RY   1020    1000      995      985      985      995     1000     1020
KK   PL2B  PLEASANT GROVE CREEK
BA   0.15
PB 4.3798
BF   0.45
LH   0.06       0      1.5      1.4       50
US 0.1658     0.7
KK   PL2C  PLEASANT GROVE CREEK
BA   0.24
PB 4.3798
BF   0.72
LH   0.06       0      1.5      1.4       42
US 0.3332    0.65
KK  PL2C+  COMBINE HYDROGRAPHS
HC      2
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK   RCH5  ROUTE FROM PL2C TO PL2D
RS      1    FLOW       -1
RC   0.05    0.05     0.05    12000   0.0042     1000
RX      0       0      350      360      365      375      725      725
RY   1020    1000      995      990      990      995     1000     1020
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KK   PL2D  PLEASANT GROVE CREEK
BA   0.87
PB 4.3798
BF   2.61
LH   0.06       0      1.5      1.4      0.5
US 1.4319     0.6
KK   PL2E  PLEASANT GROVE CREEK
BA   0.13
PB 4.4861
BF   0.39
LH   0.06       0      1.5      1.4        0
US 0.3391     0.6
KK   PL2F  PLEASANT GROVE CREEK
BA    0.1
PB 4.4861
BF    0.3
LH   0.06       0      1.5      1.4        0
US 0.3473     0.6
KK  PL2F+  COMBINE HYDROGRAPHS
HC      2
KK    DTN
RS      1    FLOW      -1
SV      0       1       5       15       35       60      130      250      500
SE    100     102     104      106      108      110      114      120      130
SL    102    1000     0.6      0.5
SS    129    1000     2.8      1.5
KK   RCH6  ROUTE FROM PL2F TO PL2G
RS      1    FLOW      -1
RC   0.05    0.05    0.05    11500   0.0065     1000
RX      0       0     300      310      315      325      625      625
RY   1020    1000     995      990      990      995     1000     1020
KK   PL2G  PLEASANT GROVE CREEK
BA   1.07
PB 4.3798
BF   3.21
LH   0.06       0      1.5      1.4       67
US 0.4250     0.8
KK    DTN
RS      1    FLOW      -1
SV      0       1       5       15       35       60      130      250      500
SE    100     102     104      106      108      110      114      120      130
SL    102    1000     0.6      0.5
SS    129    1000     2.8      1.5
KK  PL2D+  COMBINE HYDROGRAPHS
HC      5
KK   RCH7  ROUTE FROM PL2D TO PL2H
RS      1    FLOW      -1
RC   0.05    0.05    0.05     3000   0.0023     1000
RX      0       0     350      363      373      386      736      736
RY   1020    1000     995    988.5    988.5      995     1000     1020
KK   PL2H  PLEASANT GROVE CREEK
BA   0.25
PB 4.2736
BF   0.75
LH   0.06       0      1.5      1.4       69
US 0.1442     0.8
KK    DTN
RS      1    FLOW      -1
SV      0       1       5       15       35       60      130      250      500
SE    100     102     104      106      108      110      114      120      130
SL    102    1000     0.6      0.5
SS    129    1000     2.8      1.5
KK  PL2H+  COMBINE HYDROGRAPHS
HC      2
KK    PL3  PLEASANT GROVE CREEK
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BA   0.58
PB 4.3798
BF   1.74
LH   0.06        0      1.5      1.4       22
US 0.3716      0.6
KK  EXIST
RS      1     FLOW        0
SV      0     2.42    14.18    15.95
SE    188      192      200      201
SQ      0       20       40       60      130      230      400      660      900
SE    188    189.2      190    190.6    192.7    194.7    197.5    200.1    200.5
KK   RCH8  ROUTE FROM PL3 TO PL4A
RS      1     FLOW       -1
RC  0.045    0.045    0.045     4600   0.0043     1000
RX      0        0      300      310      315      325      625      625
RY   1020     1000      995      990      990      995     1000     1020
KK   PL4A  PLEASANT GROVE CREEK
BA   0.35
PB 4.3798
BF   1.05
LH   0.06        0      1.5      1.4        7
US 0.6983      0.6
KK  PL4A+  COMBINE HYDROGRAPHS
HC      2
KK   RCH9  ROUTE FROM PL4A TO PL4B
RS      1     FLOW       -1
RC  0.045    0.045    0.045     8000   0.0046     1000
RX      0        0      300      310      317      327      627      627
RY   1020     1000      995      990      990      995     1000     1020
KK   PL4B  PLEASANT GROVE CREEK
BA   0.73
PB 4.2736
BF   2.19
LH   0.06        0      1.5      1.4       62
US 0.5482      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   PL4C  PLEASANT GROVE CREEK
BA   0.72
PB 4.2736
BF   2.16
LH   0.06       .0      1.5      1.4      0.2
US 0.8700      0.6
KK  PL4C+  COMBINE HYDROGRAPHS
HC      3
KK  NORTH  INPUT ACTUAL DESIGN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH10  ROUTE FROM PL4C TO PL4D
RS      1     FLOW       -1
RC  0.045    0.045    0.045     4700   0.0028     1000
RX      0        0      300      310      317      327      627      627
RY   1020     1000      995      990      990      995     1000     1020
KK   PL4D  PLEASANT GROVE CREEK
BA    0.4
PB 4.2736
BF    1.2
LH   0.06        0      1.5      1.4       16
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US 0.4377      0.6
KK  PL4D+  COMBINE HYDROGRAPHS
HC      2
KK  RCH11  ROUTE FROM PL4D TO PL4E
RS      1     FLOW       -1
RC  0.045    0.045    0.045     3800   0.0028     1000
RX      0        0      300      310      317      327      627      627
RY   1020     1000      995      990      990      995     1000     1020
KK   PL4E  PLEASANT GROVE CREEK
BA   0.56
PB 4.2736
BF   1.68
LH   0.06        0      1.5      1.4       66
US 0.4703      0.8
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  PL4E+  COMBINE HYDROGRAPHS
HC      2
KK   PL4+  COMBINE HYDROGRAPHS
HC      2
KK  RCH12  ROUTE FROM PL4 TO PL5A
RS      1     FLOW       -1
RC  0.045    0.045    0.045     5000   0.0011     1000
RX      0        0      300      316      328      344      644      644
RY   1020     1000      995      987      987      995     1000     1020
KK   PL5A  PLEASANT GROVE CREEK
BA   0.41
PB 4.1674
BF   1.23
LH   0.06        0      1.5      1.4       68
US 0.3434      0.8
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   PL5B  PLEASANT GROVE CREEK
BA   0.52
PB 4.3798
BF   1.56
LH   0.06        0      1.5      1.4       21
US 0.5048     0.65
KK  RCH13  ROUTE FROM PL5B TO PL5C
RS      1     FLOW       -1
RC   0.05     0.05     0.05    12000   0.0028     1000
RX      0        0      300      310      317      327      627      627
RY   1020     1000      995      990      990      995     1000     1020
KK   PL5C  PLEASANT GROVE CREEK
BA   1.64
PB 4.2736
BF   4.92
LH   0.06        0      1.5      1.4       61
US 0.5856      0.8
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  PL5C+  COMBINE HYDROGRAPHS
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HC      4
KK  RCH14  ROUTE FROM PL5A TO PL5F
RS      1     FLOW       -1
RC  0.045    0.045    0.045     1800    0.002     1000
RX      0        0      300      316      336      352      652      652
RY   1020     1000      995      987      987      995     1000     1020
KK   PL5D  PLEASANT GROVE CREEK
BA   0.18
PB 4.1674
BF   0.54
LH   0.06        0      1.5      1.4       70
US 0.2023      0.8
KK   PL5E  PLEASANT GROVE CREEK
BA    0.3
PB 4.1674
BF    0.9
LH   0.06        0      1.5      1.4       70
US 0.2843      0.8
KK  PL5E+  COMBINE HYDROGRAPHS
HC      2
KK  RCH15  ROUTE FROM PL5E TO PL5F
RS      1     FLOW       -1
RC  0.055    0.055    0.055     6000  0.0056     1000
RX      0        0      300      310      315      325      625      625
RY   1020     1000      995      990      990      995     1000     1020
KK   PL5F  PLEASANT GROVE CREEK
BA   0.46
PB 4.1674
BF   1.38
LH   0.06        0      1.5      1.4       62
US 0.2893      0.8
KK  PL5F+  COMBINE HYDROGRAPHS
HC      3
KK  RCH16  ROUTE FROM PL5F TO PL5G
RS      1     FLOW       -1
RC  0.055    0.055    0.055     9000  0.0011     1000
RX      0        0      300      316      346      362      662      662
RY   1020     1000      995      987      987      995     1000     1020
KK   PL5G  PLEASANT GROVE CREEK
BA   1.76
PB 4.1674
BF   5.28
LH   0.06        0      1.5      1.4       18
US 1.0340     0.65
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  PL5G+  COMBINE HYDROGRAPHS
HC      2
KK   PL6A  PLEASANT GROVE CREEK
BA   1.37
PB 4.2736
BF   4.11
LH   0.06        0      1.5      1.4       62
US 0.5272     0.75
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH17  ROUTE FROM PL6A TO PL6C
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RS      1    FLOW      -1
RC   0.05    0.05    0.05    6500  0.0054    1000
RX      0       0     300     310     322     332     632     632
RY   1020    1000     995     990     990     995    1000    1020
KK   PL6B  PLEASANT GROVE CREEK
BA   1.54
PB 4.2736
BF   4.62
LH   0.06       0     1.5     1.4      25
US 0.8810     0.7
KK    DTN
RS      1    FLOW      -1
SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102    1000     0.6     0.5
SS    129    1000     2.8     1.5
KK   PL6C  PLEASANT GROVE CREEK
BA   0.44
PB 4.2736
BF   1.32
LH   0.06       0     1.5     1.4      28
US 0.4641     0.7
KK  PL6C+  COMBINE HYDROGRAPHS
HC      3
KK  RCH18  ROUTE FROM PL6C TO PL7A
RS      1    FLOW      -1
RC   0.05    0.05    0.05    9200  0.0018    1000
RX      0       0     400     414     429     443     843     843
RY   1020    1000     995     988     988     995    1000    1020
KK   PL7A  PLEASANT GROVE CREEK
BA   0.91
PB 4.1674
BF   2.73
LH   0.06       0     1.5     1.4      32
US 1.0432     0.6
KK    DTN
RS      1    FLOW      -1
SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102    1000     0.6     0.5
SS    129    1000     2.8     1.5
KK   PL7B  PLEASANT GROVE CREEK
BA   0.79
PB 4.1674
BF   2.37
LH   0.06       0     1.5     1.4      63
US 0.4220     0.8
KK    DTN
RS      1    FLOW      -1
SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102    1000     0.6     0.5
SS    129    1000     2.8     1.5
KK  PL7B+  COMBINE HYDROGRAPHS
HC      3
KK  RCH19  ROUTE FROM PL7B TO PL7C
RS      1    FLOW      -1
RC   0.05    0.05    0.05   12000  0.0021    1000
RX      0       0     400     414     429     443     843     843
RY   1020    1000     995     988     988     995    1000    1020
KK   PL7C  PLEASANT GROVE CREEK
BA   1.25
PB 4.1674
BF   3.75
LH   0.06       0     1.5     1.4      28
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US 1.1153      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  PL7C+  COMBINE HYDROGRAPHS
HC      2
KK  PL@SB  COMBINE HYDROGRAPHS
HC      2
KK  RCH20  ROUTE FROM PL7 TO PL9
RS      1     FLOW       -1
RC  0.045    0.045    0.045     3600    0.002     1000
RX      0        0      400      420      450      470      870      870
RY   1020     1000      995      985      985      995     1000     1020
KK   PL8A  PLEASANT GROVE CREEK
BA   1.19
PB 4.1674
BF   3.57
LH   0.06        0      1.5      1.4       38
US 1.0010      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH21  ROUTE FROM PL8A TO PL8C
RS      1     FLOW       -1
RC   0.05     0.05     0.05     8500   0.0026     1000
RX      0        0      300      312      322      334      634      634
RY   1020     1000      995      989      989      995     1000     1020
KK   PL8B  PLEASANT GROVE CREEK
BA   0.58
PB 4.0612
BF   1.74
LH   0.06        0      1.5      1.4       32
US 0.6938      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH22  ROUTE FROM PL8B TO PL8C
RS      1     FLOW       -1
RC   0.05     0.05     0.05     6000   0.0025     1000
RX      0        0      300      312      322      334      634      634
RY   1020     1000      995      989      989      995     1000     1020
KK   PL8C  PLEASANT GROVE CREEK
BA      1
PB 4.0612
BF      3
LH   0.06        0      1.5      1.4        4
US 1.3874      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  PL8C+  COMBINE HYDROGRAPHS
HC      3
KK  RCH23  ROUTE FROM PL8C TO PL8E
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RS      1    FLOW      -1
RC   0.05    0.05    0.05    4000  0.0018    1000
RX      0       0     300     312     324     336     636     636
RY   1020    1000     995     989     989     995    1000    1020
KK   PL8D  PLEASANT GROVE CREEK
BA   0.35
PB 4.0612
BF   1.05
LH   0.06       0     1.5     1.4      28
US 0.7328     0.6
KK    DTN
RS      1    FLOW      -1
SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102    1000     0.6     0.5
SS    129    1000     2.8     1.5
KK  RCH24  ROUTE FROM PL8D TO PL8E
RS      1    FLOW      -1
RC   0.05    0.05    0.05    3800  0.0042    1000
RX      0       0     300     312     327     339     639     639
RY   1020    1000     995     989     989     995    1000    1020
KK   PL8E  PLEASANT GROVE CREEK
BA   0.53
PB 4.0612
BF   1.59
LH   0.06       0     1.5     1.4       2
US 0.7082     0.6
KK  PL8E+  COMBINE HYDROGRAPHS
HC      3
KK  RCH25  ROUTE FROM PL8E TO PL8F
RS      1    FLOW      -1
RC   0.05    0.05    0.05    4200  0.0012    1000
RX      0       0     500     512     532     544    1044    1044
RY   1020    1000     995     989     989     995    1000    1020
KK   PL8F  PLEASANT GROVE CREEK
BA   0.36
PB 4.0612
BF   1.08
LH   0.06       0     1.5     1.4       2
US 0.9249     0.6
KK  PL8F+  COMBINE HYDROGRAPHS
HC      2
KK  RCH26  ROUTE FROM PL8F TO PL9
RS      1    FLOW      -1
RC  0.045   0.045   0.045    7200  0.0021    1000
RX      0       0     500     512     532     544    1044    1044
RY   1020    1000     995     989     989     995    1000    1020
KK    PL9  PLEASANT GROVE CREEK
BA   0.72
PB 4.0612
BF   2.16
LH   0.06       0     1.5     1.4       2
US 1.3947     0.6
KK   PL9+  COMBINE HYDROGRAPHS
HC      3
KK  RCH27  ROUTE FROM PL9 TO PL10A
RS      1    FLOW      -1
RC  0.045   0.045   0.045    4500  0.0011    1000
RX      0       0     600     620     655     675    1275    1275
RY   1020    1000     990     980     980     990    1000    1020
KK  PL10A  PLEASANT GROVE CREEK
BA   0.95
PB 4.0612
BF   2.85
LH   0.05       0     1.5     1.4       2
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US 1.6741      0.6
KK  PL10B  PLEASANT GROVE CREEK
BA   0.95
PB  3.955
BF   2.85
LH   0.05        0      1.5      1.4        2
US 1.9630      0.6
KK PL10B+  COMBINE HYDROGRAPHS
HC      3
KK  RCH28  ROUTE FROM PL10B TO PL10C
RS      1     FLOW       -1
RC  0.045    0.045    0.045    12000   0.0011     1000
RX      0        0      600      620      655      675     1275     1275
RY   1020     1000      990      980      980      990     1000     1020
KK  PL10C  PLEASANT GROVE CREEK
BA   1.94
PB 3.8487
BF   5.82
LH   0.05        0      1.5      1.4        2
US 0.9096      0.6
KK  PL10D  PLEASANT GROVE CREEK
BA   5.62
PB 4.0612
BF  16.86
LH   0.05        0      1.5      1.4        2
US 4.2873      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK PL10D+  COMBINE HYDROGRAPHS
HC      3
KK    DTN
RS      1     FLOW       -1
SV      0       40      200      600     1400     2400     5200    10000    20000
SE    100      102      104      106      108      110      114      120      130
SL    102    10000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH29  ROUTE FROM PL10D TO PL10E
RS      1     FLOW       -1
RC  0.045    0.045    0.045     3200   0.0011     1000
RX      0        0      600      620      655      675     1275     1275
RY   1020     1000      990      980      980      990     1000     1020
KK  PL10E  PLEASANT GROVE CREEK
BA   0.35
PB 3.8487
BF   1.05
LH   0.05        0      1.5      1.4        2
US 0.9033      0.6
KK   PL11  PLEASANT GROVE CREEK
BA   3.97
PB  3.955
BF  11.91
LH   0.05        0      1.5      1.4        2
US 3.3063      0.6
KK  PL11+  COMBINE HYDROGRAPHS
HC      3
KK  RCH30  ROUTE FROM PL11 TO PL12
RS      1     FLOW       -1
RC   0.04     0.04     0.04     7800   0.0013     1000
RX      0        0     1200     1224     1242     1266     2466     2466
RY   1020     1000      995      983      983      995     1000     1020
KK   PL12  PLEASANT GROVE CREEK
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BA   1.67
PB 3.7425
BF   5.01
LH   0.05       0      1.5      1.4        2
US 1.4943     0.6
KK  PL12+  COMBINE HYDROGRAPHS
HC      2
KK  RCH31  ROUTE FROM PL12 TO PL13
RS      1    FLOW       -1
RC   0.04    0.04     0.04     9500    0.001     1000
RX      0       0     1200     1224     1244     1268     2468     2468
RY   1020    1000      995      983      983      995     1000     1020
KK   PL13  PLEASANT GROVE CREEK
BA   1.93
PB 3.6363
BF   5.79
LH   0.05       0      1.5      1.4        2
US 2.2546     0.6
KK  PL13+  COMBINE HYDROGRAPHS
HC      2
KK  RCH32  ROUTE FROM PL13 TO PL14
RS      1    FLOW       -1
RC   0.04    0.04     0.04     9000    0.001     1000
RX      0       0     1200     1224     1244     1268     2468     2468
RY   1020    1000      995      983      983      995     1000     1020
KK   PL14  PLEASANT GROVE CREEK
BA   1.66
PB 3.4239
BF   4.98
LH   0.05       0      1.5      1.4      0.5
US 1.9492     0.6
KK  PL14+  COMBINE HYDROGRAPHS - END PLEASANT GROVE CREEK
KO      1
HC      2
KK   TR1A  TRIBUTARY
BA   2.64
PB 3.7425
BF   7.92
LH   0.06       0      1.5      1.4        2
US 2.6680     0.6
KK   RCH1  ROUTE FROM TR1A TO TR1B
RS      1    FLOW       -1
RC   0.04    0.04     0.04    10000    0.001     1000
RX      0       0     1200     1220     1235     1255     2455     2455
RY   1020    1000      995      985      985      995     1000     1020
KK   TR1B  TRIBUTARY
BA   3.29
PB 3.4239
BF   9.87
LH   0.06       0      1.5      1.4      0.5
US 2.4747     0.6
KK   TR1+  COMBINE HYDROGRAPHS - END TRIBUTARY
HC      2
KK   AU1A  AUBURN RAVINE
BA   1.57
PB 6.9291
BF   4.71
LH   0.15       0      1.5      1.4       37
US 0.3381    0.75
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
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KK   RCH1  ROUTE FROM AU1A TO AU1B
RS      1     FLOW       -1
RC   0.05     0.05     0.05     4300    0.016     1000
RX      0        0      200      210      225      235      435      435
RY   1020     1000      900      890      890      900     1000     1020
KK   AU1B  AUBURN RAVINE
BA   0.29
PB 6.7167
BF   0.87
LH   0.15        0      1.5      1.4       80
US 0.1795      0.8
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU1B+   COMBINE HYDROGRAPHS
HC      2
KK   RCH2  ROUTE FROM AU1B TO AU2A
RS      1     FLOW       -1
RC   0.05     0.05     0.05     5500   0.0267     1000
RX      0        0      200      210      225      235      435      435
RY   1020     1000      900      890      890      900     1000     1020
KK   AU2A  AUBURN RAVINE
BA   1.66
PB 6.5042
BF   4.98
LH   0.15        0      1.5      1.4       65
US 0.2229     0.75
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU2A+   COMBINE HYDROGRAPHS
HC      2
KK   RCH2  ROUTE FROM AU2A TO AU2C
RS      1     FLOW       -1
RC  0.055    0.055    0.055     3800   0.0474     1000
RX      0        0      200      210      225      235      435      435
RY   1020     1000      900      890      890      900     1000     1020
KK   AU2B  AUBURN RAVINE
BA   0.61
PB 5.8669
BF   1.83
LH   0.15        0      1.5      1.4        8
US 0.5549      0.6
KK   AU2C  AUBURN RAVINE
BA   0.63
PB 5.8669
BF   1.89
LH   0.15        0      1.5      1.4       14
US 0.9201      0.6
KK AU2C+   COMBINE HYDROGRAPHS
HC      3
KK   RCH3  ROUTE FROM AU2C TO AU3D
RS      1     FLOW       -1
RC   0.05     0.05     0.05     2500    0.028     1000
RX      0        0      200      215      230      245      445      445
RY   1020     1000      960      945      945      960     1000     1020
KK   AU3A  AUBURN RAVINE
BA   0.19
PB 6.2918
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BF   0.57
LH   0.13       0      1.5      1.4     37.8
US 0.2693     0.85
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   RCH4  ROUTE FROM AU3A TO AU3C
RS      1     FLOW       -1
RC  0.055    0.055    0.055     7800    0.036     1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      990      980      980      990     1000     1020
KK   AU3B  AUBURN RAVINE
BA   0.79
PB 6.7167
BF   2.37
LH   0.13       0      1.5      1.4       57
US 0.2849     0.75
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   RCH5  ROUTE FROM AU3B TO AU3C
RS      1     FLOW       -1
RC  0.055    0.055    0.055     4400   0.0455     1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      990      980      980      990     1000     1020
KK   AU3C  AUBURN RAVINE
BA   1.23
PB 6.0794
BF   3.69
LH   0.13       0      1.5      1.4       11
US 0.8166      0.6
KK AU3C+   COMBINE HYDROGRAPHS
HC      3
KK   RCH6  ROUTE FROM AU3C TO AU3D
RS      1     FLOW       -1
RC   0.05     0.05     0.05    10400   0.0135     1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      990      980      980      990     1000     1020
KK   AU3D  AUBURN RAVINE
BA   2.91
PB 5.8669
BF   8.73
LH   0.13       0      1.5      1.4       10
US 1.0381      0.6
KK  AU3D+  COMBINE HYDROGRAPHS
HC      3
KK   RCH7  ROUTE FROM AU3D TO AU3E
RS      1     FLOW       -1
RC   0.05     0.05     0.05     2800    0.025     1000
RX      0        0      200      215      230      245      445      445
RY   1020     1000      960      945      945      960     1000     1020
KK   AU3E  AUBURN RAVINE
BA   0.92
PB 5.8669
BF   2.76
LH   0.13       0      1.5      1.4       24
US 0.4316      0.6
KK    DTN
RS      1     FLOW       -1
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SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102    1000     0.6     0.5
SS    129    1000     2.8     1.5
KK  AU3E+  COMBINE HYDROGRAPHS
HC      2
KK   RCH8  ROUTE FROM AU3E TO AU3F
RS      1    FLOW      -1
RC   0.05    0.05    0.05    3500    0.04    1000
RX      0       0     200     215     230     245     445     445
RY   1020    1000     960     945     945     960    1000    1020
KK   AU3F  AUBURN RAVINE
BA   0.58
PB 5.8669
BF   1.74
LH   0.13       0     1.5     1.4       9
US 0.7984     0.6
KK  AU3F+  COMBINE HYDROGRAPHS
HC      2
KK   RCH9  ROUTE FROM AU3F TO AU4A
RS      1    FLOW      -1
RC  0.055   0.055   0.055    6500  0.0154    1000
RX      0       0     150     168     190     208     358     358
RY   1020    1000     960     951     951     960    1000    1020
KK   AU4A  AUBURN RAVINE
BA   2.37
PB 5.6545
BF   7.11
LH   0.13       0     1.5     1.4       8
US 1.3358     0.6
KK  AU4A+  COMBINE HYDROGRAPHS
HC      2
KK  RCH10  ROUTE FROM AU4A TO AU4C
RS      1    FLOW      -1
RC  0.055   0.055   0.055    7500  0.0187    1000
RX      0       0     150     168     190     208     358     358
RY   1020    1000     960     951     951     960    1000    1020
KK   AU4B  AUBURN RAVINE
BA   0.75
PB 5.6545
BF   2.25
LH   0.13       0     1.5     1.4       5
US 1.1052     0.6
KK   AU4C  AUBURN RAVINE
BA    0.4
PB 5.6545
BF    1.2
LH   0.13       0     1.5     1.4       2
US 1.4020     0.6
KK  AU4C+  COMBINE HYDROGRAPHS
HC      3
KK  RCH11  ROUTE FROM AU4C TO AU4D
RS      1    FLOW      -1
RC  0.055   0.055   0.055    4400  0.0227    1000
RX      0       0     150     168     190     208     358     358
RY   1020    1000     960     951     951     960    1000    1020
KK   AU4D  AUBURN RAVINE
BA   1.21
PB 5.4420
BF   3.63
LH   0.13       0     1.5     1.4       2
US 1.5825     0.6
KK  AU4D+  COMBINE HYDROGRAPHS
HC      2
KK  RCH12  ROUTE FROM AU4D TO AU6
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RS      1     FLOW       -1
RC  0.055    0.055    0.055     1800   0.0075     1000
RX      0        0      200      230      250      280      480      480
RY   1020     1000      980      960      960      980     1000     1020
KK   AU5A  AUBURN RAVINE
BA   1.13
PB 5.8669
BF   3.39
LH   0.13        0      1.5      1.4       18
US 0.8862      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH13  ROUTE FROM AU5A TO AU5B
RS      1     FLOW       -1
RC   0.05     0.05     0.05     6800  0.0176     1000
RX      0        0      200      230      245      275      475      475
RY   1020     1000      980      960      960      980     1000     1020
KK   AU5B  AUBURN RAVINE
BA   0.46
PB 5.6545
BF   1.38
LH   0.13        0      1.5      1.4       40
US 0.4429      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  AU5B+  COMBINE HYDROGRAPHS
HC      2
KK  RCH14  ROUTE FROM AU5B TO AU5C
RS      1     FLOW       -1
RC   0.05     0.05     0.05    20000   0.024     1000
RX      0        0      200      230      245      275      475      475
RY   1020     1000      980      960      960      980     1000     1020
KK   AU5C  AUBURN RAVINE
BA   2.41
PB 5.4420
BF   7.23
LH   0.13        0      1.5      1.4        2
US 2.0844      0.6
KK  DUTCH  COMBINE HYDROGRAPHS
HC      2
KK    AU6  AUBURN RAVINE
BA   0.36
PB 5.4420
BF   1.08
LH   0.13        0      1.5      1.4        2
US 0.8808      0.6
KK   AU6+  COMBINE HYDROGRAPHS
HC      3
KK  RCH15  ROUTE FROM AU6 TO AU7
RS      1     FLOW       -1
RC   0.05     0.05     0.05    11000  0.0075     1000
RX      0        0      200      230      250      280      480      480
RY   1020     1000      980      960      960      980     1000     1020
KK    AU7  AUBURN RAVINE
BA   4.01
PB 5.3358
BF  12.03
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LH   0.13       0      1.5      1.4        2
US 1.5905     0.6
KK   AU7+  COMBINE HYDROGRAPHS
HC      2
KK  RCH16  ROUTE FROM AU7 TO AU8
RS      1     FLOW       -1
RC   0.05    0.05     0.05    12500   0.0043     1000
RX      0       0      300      316      329      345      645      645
RY   1020    1000      960      952      952      960     1000     1020
KK    AU8  AUBURN RAVINE
BA   7.15
PB 5.0172
BF  21.45
LH   0.13       0      1.5      1.4        2
US 2.2385     0.6
KK   AU8+  COMBINE HYDROGRAPHS
HC      2
KK  RCH17  ROUTE FROM AU8 TO AU9A
RS      1     FLOW       -1
RC   0.05    0.05     0.05     4400   0.0031     1000
RX      0       0      500      516      531      547     1047     1047
RY   1020    1000      990      982      982      990     1000     1020
KK   AU9A  AUBURN RAVINE
BA   0.57
PB 4.5923
BF   1.71
LH   0.12       0      1.5      1.4        5
US 1.0327     0.6
KK  AU9A+  COMBINE HYDROGRAPHS
HC      2
KK  RCH18  ROUTE FROM AU9A TO AU9B
RS      1     FLOW       -1
RC  0.045   0.045    0.045     8600   0.0031     1000
RX      0       0      500      516      531      547     1047     1047
RY   1020    1000      990      982      982      990     1000     1020
KK   AU9B  AUBURN RAVINE
BA   0.79
PB 4.5923
BF   2.37
LH   0.12       0      1.5      1.4       12
US 1.2019     0.6
KK  AU9B+  COMBINE HYDROGRAPHS
HC      2
KK  RCH19  ROUTE FROM AU9B TO AU10A
RS      1     FLOW       -1
RC  0.045   0.045    0.045     9400   0.0021     1000
RX      0       0      800      810      827      837     1637     1637
RY   1020    1000      990      985      985      990     1000     1020
KK  AU10A  AUBURN RAVINE
BA    1.1
PB 4.3798
BF    3.3
LH   0.12       0      1.5      1.4       25
US 0.6252     0.6
KK    DTN
RS      1     FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK AU10A+  COMBINE HYDROGRAPHS
HC      2
KK  RCH20  ROUTE FROM AU10A TO AU10B
RS      1     FLOW       -1
RC  0.045   0.045    0.045    10600   0.0021     1000
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RX      0        0      800      810      827      837     1637     1637
RY   1020     1000      990      985      985      990     1000     1020
KK  AU10B  AUBURN RAVINE
BA   1.33
PB 4.3798
BF   3.99
LH   0.12        0      1.5      1.4        3
US 2.5846      0.6
KK AU10B+  COMBINE HYDROGRAPHS
HC      2
KK  RCH21  ROUTE FROM AU10B TO AU16A
RS      1     FLOW       -1
RC  0.045    0.045    0.045     5800   0.002     1000
RX      0        0     1000     1010    1027     1037     2037     2037
RY   1020     1000      990      985      985      990     1000     1020
KK  AU11A  AUBURN RAVINE
BA   2.47
PB 4.8047
BF   7.41
LH   0.05        0      1.5      1.4        3
US 1.4296      0.6
KK  RCH22  ROUTE FROM AU11A TO AU11B
RS      1     FLOW       -1
RC   0.05     0.05     0.05    13000  0.0046     1000
RX      0        0      400      410      420      430      830      830
RY   1020     1000      990      985      985      990     1000     1020
KK  AU11B  AUBURN RAVINE
BA   1.52
PB 4.5923
BF   4.56
LH   0.05        0      1.5      1.4       58
US 0.8790      0.7
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  AU11+  COMBINE HYDROGRAPHS
HC      2
KK  AU12A  AUBURN RAVINE
BA    0.2
PB 4.5923
BF    0.6
LH   0.05        0      1.5      1.4       19
US 0.2023      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH23  ROUTE FROM AU12A TO AU12B
RS      1     FLOW       -1
RC  0.055    0.055    0.055     5000   0.001     1000
RX      0        0      100      110      115      125      225      225
RY   1020     1000      980      975      975      980     1000     1020
KK  AU12B  AUBURN RAVINE
BA   2.57
PB 4.5923
BF   7.71
LH   0.05        0      1.5      1.4        2
US 1.9148      0.6
KK  RCH24  ROUTE FROM AU12B TO AU12C
RS      1     FLOW       -1
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RC   0.05     0.05     0.05     3500   0.0014     1000
RX      0        0      100      110      115      125      225      225
RY   1020     1000      980      975      975      980     1000     1020
KK  AU12C  AUBURN RAVINE
BA   0.37
PB 4.4861
BF   1.11
LH   0.05        0      1.5      1.4       21
US 0.4569      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU12C+  COMBINE HYDROGRAPHS
HC      4
KK  RCH25  ROUTE FROM AU12C TO AU13D
RS      1     FLOW       -1
RC  0.045    0.045    0.045     3000   0.0014     1000
RX      0        0      100      110      115      125      225      225
RY   1020     1000      980      975      975      980     1000     1020
KK  AU13A  AUBURN RAVINE
BA   0.46
PB 4.4861
BF   1.38
LH   0.05        0      1.5      1.4        5
US 0.8642      0.6
KK  RCH26  ROUTE FROM AU13A TO AU13C
RS      1     FLOW       -1
RC  0.045    0.045    0.045     2500   0.001      1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      995      990      990      995     1000     1020
KK  AU13B  AUBURN RAVINE
BA   0.79
PB 4.4861
BF   2.37
LH   0.05        0      1.5      1.4        6
US 1.2082      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH27  ROUTE FROM AU13B TO AU13C
RS      1     FLOW       -1
RC  0.045    0.045    0.045     3000   0.001      1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      995      990      990      995     1000     1020
KK  AU13C  AUBURN RAVINE
BA   0.73
PB 4.3798
BF   2.19
LH   0.05        0      1.5      1.4       67
US 0.3570     0.75
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU13C+  COMBINE HYDROGRAPHS
HC      3
KK  RCH28  ROUTE FROM AU13C TO AU13D
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RS      1     FLOW       -1
RC  0.045    0.045    0.045     3000    0.001     1000
RX      0        0      200      210      220      230      430      430
RY   1020     1000      995      990      990      995     1000     1020
KK  AU13D  AUBURN RAVINE
BA   0.26
PB 4.3798
BF   0.78
LH   0.05        0      1.5      1.4        5
US 0.6252      0.6
KK AU13D+  COMBINE HYDROGRAPHS
HC      3
KK  RCH29  ROUTE FROM AU13 TO AU15E
RS      1     FLOW       -1
RC  0.045    0.045    0.045    13000   0.0012     1000
RX      0        0      600      620      635      655     1255     1255
RY   1020     1000      990      980      980      990     1000     1020
KK  AU14A  AUBURN RAVINE
BA   0.35
PB 4.8047
BF   1.05
LH   0.05        0      1.5      1.4        2
US 0.9856      0.6
KK  RCH30  ROUTE FROM AU14A TO AU14C
RS      1     FLOW       -1
RC  0.045    0.045    0.045     9500   0.0026     1000
RX      0        0      200      220      240      260      460      460
RY   1020     1000      990      980      980      990     1000     1020
KK  AU14B  AUBURN RAVINE
BA   1.73
PB 5.0172
BF   5.19
LH   0.05        0      1.5      1.4        3
US 2.2962      0.6
KK  RCH31  ROUTE FROM AU14B TO AU14C
RS      1     FLOW       -1
RC  0.045    0.045    0.045     9500   0.0026     1000
RX      0        0      200      220      240      260      460      460
RY   1020     1000      990      980      980      990     1000     1020
KK  AU14C  AUBURN RAVINE
BA   0.77
PB 4.5923
BF   2.31
LH   0.05        0      1.5      1.4       17
US 0.6708      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  AU14D  AUBURN RAVINE
BA   0.89
PB 4.8047
BF   2.67
LH   0.05        0      1.5      1.4        3
US 1.0947      0.6
KK  RCH32  ROUTE FROM AU14D TO AU14E
RS      1     FLOW       -1
RC   0.05     0.05     0.05     7000   0.0036     1000
RX      0        0      200      220      240      260      460      460
RY   1020     1000      990      980      980      990     1000     1020
KK  AU14E  AUBURN RAVINE
BA   0.67
PB 4.5923
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BF   2.01
LH   0.05        0      1.5      1.4       24
US 1.0797      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU14E+  COMBINE HYDROGRAPHS
HC      2
KK  RCH33  ROUTE FROM AU14E TO AU14C
RS      1     FLOW       -1
RC   0.05     0.05     0.05     1500   0.0015     1000
RX      0        0      400      420      440      460      860      860
RY   1020     1000      990      980      980      990     1000     1020
KK AU14C+  COMBINE HYDROGRAPHS
HC      4
KK  RCH34  ROUTE FROM AU14C TO AU15A
RS      1     FLOW       -1
RC  0.045    0.045    0.045    14500   0.0024     1000
RX      0        0      400      412      427      439      839      839
RY   1020     1000      990      984      984      990     1000     1020
KK  AU15A  AUBURN RAVINE
BA   1.35
PB 4.4861
BF   4.05
LH   0.05        0      1.5      1.4       28
US 0.9510      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU15A+  COMBINE HYDROGRAPHS
HC      2
KK  RCH35  ROUTE FROM AU15A TO AU15E
RS      1     FLOW       -1
RC  0.045    0.045    0.045     8500   0.0018     1000
RX      0        0      400      412      427      439      839      839
RY   1020     1000      990      984      984      990     1000     1020
KK  AU15B  AUBURN RAVINE
BA   0.48
PB 4.4861
BF   1.44
LH   0.05        0      1.5      1.4       39
US 0.6103      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  AU15C  AUBURN RAVINE
BA   0.25
PB 4.4861
BF   0.75
LH   0.05        0      1.5      1.4       38
US 0.2968      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
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SS    129     1000      2.8      1.5
KK  RCH36  ROUTE FROM AU15B TO AU15E
RS      1     FLOW       -1
RC  0.045    0.045    0.045    16000   0.0013     1000
RX      0        0      400      420      435      455      855      855
RY   1020     1000      990      980      980      990     1000     1020
KK  AU15D  AUBURN RAVINE
BA   0.57
PB 4.2736
BF   1.71
LH   0.05        0      1.5      1.4        3
US 1.0679      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK  RCH37  ROUTE FROM AU15D TO AU15E
RS      1     FLOW       -1
RC  0.045    0.045    0.045    13000   0.0012     1000
RX      0        0      600      620      635      655     1255     1255
RY   1020     1000      990      980      980      990     1000     1020
KK  AU15E  AUBURN RAVINE
BA   2.92
PB 4.2736
BF   8.76
LH   0.05        0      1.5      1.4        2
US 1.9705      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK AU15E+  COMBINE HYDROGRAPHS
HC      6
KK  RCH38  ROUTE FROM AU15E TO AU16A
RS      1     FLOW       -1
RC  0.045    0.045    0.045    12000   0.0017     1000
RX      0        0     1000     1020     1040     1060     2060     2060
RY   1020     1000      990      980      980      990     1000     1020
KK  AU16A  AUBURN RAVINE
BA   3.19
PB 4.1674
BF   9.57
LH    0.1        0      1.5      1.4        2
US 1.9574      0.6
KK AU16A+  COMBINE HYDROGRAPHS
HC      3
KK  RCH39  ROUTE FROM AU16A TO AU16B
RS      1     FLOW       -1
RC  0.045    0.045    0.045     4500   0.0012     1000
RX      0        0     1000     1020     1040     1060     2060     2060
RY   1020     1000      995      985      985      995     1000     1020
KK  AU16B  AUBURN RAVINE
BA   1.59
PB 4.0612
BF   4.77
LH    0.1        0      1.5      1.4        2
US 1.8499      0.6
KK AU16B+  COMBINE HYDROGRAPHS
HC      2
KK    DTN
RS      1     FLOW       -1
```

```
SV      0       1       5      15      35      60     130     250     500
SE    100     102     104     106     108     110     114     120     130
SL    102   10000     0.6     0.5
SS    129    1000     2.8     1.5
KK  RCH40  ROUTE FROM AU16B TO AU16C
RS      1    FLOW      -1
RC   0.04    0.04    0.04   19500  0.0011    1000
RX      0       0    2000    2020    2040    2060    4060    4060
RY   1020    1000     995     985     985     995    1000    1020
KK  AU16C  AUBURN RAVINE
BA   3.66
PB  3.955
BF  10.98
LH    0.1       0     1.5     1.4       2
US 3.4545     0.6
KK AU16C+  COMBINE HYDROGRAPHS
HC      2
KK  RCH41  ROUTE FROM AU16 TO AU17
RS      1    FLOW      -1
RC   0.04    0.04    0.04   11000  0.0011    1000
RX      0       0    2000    2020    2040    2060    4060    4060
RY   1020    1000     995     985     985     995    1000    1020
KK   AU17  AUBURN RAVINE
BA   1.43
PB 3.6363
BF   4.29
LH    0.1       0     1.5     1.4     1.5
US 1.6222     0.6
KK  AU17+  COMBINE HYDROGRAPHS
HC      2
KK  RCH42  ROUTE FROM AU17 TO AU19B
RS      1    FLOW      -1
RC   0.04    0.04    0.04    8000  0.0011    1000
RX      0       0    2000    2020    2040    2060    4060    4060
RY   1020    1000     995     985     985     995    1000    1020
KK   AU18  AUBURN RAVINE
BA   4.35
PB 3.8487
BF  13.05
LH   0.05       0     1.5     1.4       2
US 3.3391     0.6
KK  RCH43  ROUTE FROM AU18 TO AU19A
RS      1    FLOW      -1
RC   0.04    0.04    0.04   11500  0.0011    1000
RX      0       0    2000    2020    2040    2060    4060    4060
RY   1020    1000     995     985     985     995    1000    1020
KK  AU19A  AUBURN RAVINE
BA   3.64
PB 3.7425
BF  10.92
LH   0.07       0     1.5     1.4       2
US 2.6318     0.6
KK AU19A+  COMBINE HYDROGRAPHS
HC      2
KK  RCH44  ROUTE FROM AU19A TO AU19B
RS      1    FLOW      -1
RC   0.04    0.04    0.04    8000  0.0011    1000
RX      0       0    2000    2020    2040    2060    4060    4060
RY   1020    1000     995     985     985     995    1000    1020
KK  AU19B  AUBURN RAVINE
BA   6.48
PB 3.4239
BF  19.44
LH   0.07       0     1.5     1.4     0.5
US 3.9605     0.6
```

```
KK AU19B+  COMBINE HYDROGRAPHS - END AUBURN RAVINE
KO      1
HC      3
KK    MA1  MARKHAM RAVINE
BA   3.61
PB 4.9109
BF  10.83
LH   0.06       0      1.5      1.4       12
US 1.5607     0.6
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK   RCH1  ROUTE FROM MA1 TO MA2A
RS      1    FLOW       -1
RC  0.045   0.045    0.045    12000   0.0038     1000
RX      0       0      800      820      840      860     1660     1660
RY   1020    1000      995      985      985      995     1000     1020
KK   MA2A  MARKHAM RAVINE
BA   1.74
PB 4.5923
BF   5.22
LH   0.09       0      1.5      1.4       49
US 0.7679    0.65
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK   MA2B  MARKHAM RAVINE
BA   1.86
PB 4.5923
BF   5.58
LH   0.09       0      1.5      1.4       54
US 0.8635     0.6
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK  MA2B+  COMBINE HYDROGRAPHS
HC      3
KK   RCH2  ROUTE FROM MA2B TO MA2C
RS      1    FLOW       -1
RC  0.045   0.045    0.045    12500   0.0008     1000
RX      0       0     1500     1520     1540     1560     3060     3060
RY   1020    1000      995      985      985      995     1000     1020
KK   MA2C  MARKHAM RAVINE
BA   2.31
PB 4.3798
BF   6.93
LH   0.09       0      1.5      1.4        3
US 1.9218     0.6
KK  MA2C+  COMBINE HYDROGRAPHS
HC      2
KK   RCH3  ROUTE FROM MA2C TO MA3
RS      1    FLOW       -1
RC  0.045   0.045    0.045    27000   0.0012     1000
RX      0       0     2500     2520     2540     2560     5060     5060
RY   1020    1000      995      985      985      995     1000     1020
KK    MA3  MARKHAM RAVINE
```

```
BA    4.2
PB  3.955
BF   12.6
LH   0.09       0      1.5      1.4        2
US 3.7286     0.6
KK   MA3+  COMBINE HYDROGRAPHS
HC      2
KK   RCH4  ROUTE FROM MA3 TO MA5
RS      1    FLOW       -1
RC   0.04    0.04     0.04    11500   0.0011     1000
RX      0       0     3000     3012     3032     3044     6044     6044
RY   1020    1000      995      989      989      995     1000     1020
KK    MA4  MARKHAM RAVINE
BA   2.34
PB 4.2736
BF   7.02
LH   0.09       0      1.5      1.4       40
US 1.0700    0.65
KK    DTN
RS      1    FLOW       -1
SV      0       1        5       15       35       60      130      250      500
SE    100     102      104      106      108      110      114      120      130
SL    102    1000      0.6      0.5
SS    129    1000      2.8      1.5
KK   RCH5  ROUTE FROM MA4 TO MA5
RS      1    FLOW       -1
RC   0.04    0.04     0.04    39000   0.0012     1000
RX      0       0     3000     3012     3032     3044     6044     6044
RY   1020    1000      995      989      989      995     1000     1020
KK    MA5  MARKHAM RAVINE
BA   6.79
PB  3.955
BF  20.37
LH   0.05       0      1.5      1.4        2
US 4.6017     0.6
KK   MA5+  COMBINE HYDROGRAPHS
HC      3
KK   RCH6  ROUTE FROM MA5 TO MA6B
RS      1    FLOW       -1
RC   0.04    0.04     0.04    12000    0.001     1000
RX      0       0     4000     4012     4032     4044     8044     8044
RY   1020    1000      995      989      989      995     1000     1020
KK   MA6A  MARKHAM RAVINE
BA   5.14
PB 3.8487
BF  15.42
LH   0.07       0      1.5      1.4        2
US 4.2198     0.6
KK   RCH7  ROUTE FROM MA6A TO MA6B
RS      1    FLOW       -1
RC   0.04    0.04     0.04    10000    0.001     1000
RX      0       0     4000     4012     4032     4044     8044     8044
RY   1020    1000      995      989      989      995     1000     1020
KK   MA6B  MARKHAM RAVINE
BA   3.77
PB 3.5301
BF  11.31
LH   0.07       0      1.5      1.4      0.3
US 3.1552     0.6
KK   MA6+  COMBINE HYDROGRAPHS - END MARKHAM RAVINE
HC      3
KK    C01  COON CREEK
BA   8.14
PB 7.5664
BF  24.42
```

```
LH    0.2        0      1.5      1.4       11
US 3.1442      0.6
KK   RCH1  ROUTE FROM CO1 TO CO2C
RS      1     FLOW       -1
RC   0.06     0.06     0.06    11000   0.0136     1000
RX      0        0      500      520      530      550     1050     1050
RY   1020     1000      960      950      950      960     1000     1020
KK   CO2A  COON CREEK
BA   2.19
PB 7.1416
BF   6.57
LH   0.18        0      1.5      1.4       18
US 0.9878      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   RCH2  ROUTE FROM CO2A TO CO2B
RS      1     FLOW       -1
RC   0.06     0.06     0.06     7000   0.0257     1000
RX      0        0      200      220      230      250      450      450
RY   1020     1000      960      950      950      960     1000     1020
KK   CO2B  COON CREEK
BA   1.76
PB 6.5042
BF   5.28
LH   0.18        0      1.5      1.4       52
US 0.4520     0.65
KK  CO2B+  COMBINE HYDROGRAPHS
HC      2
KK   RCH3  ROUTE FROM CO2B TO CO2C
RS      1     FLOW       -1
RC   0.06     0.06     0.06    11000   0.0173     1000
RX      0        0      500      520      530      550     1050     1050
RY   1020     1000      960      950      950      960     1000     1020
KK   CO2C  COON CREEK
BA   3.51
PB 6.0794
BF  10.53
LH   0.18        0      1.5      1.4        9
US 1.5286      0.6
KK  CO2C+  COMBINE HYDROGRAPHS - DRY CREEK
HC      3
KK   CO3A  COON CREEK
BA   4.28
PB 7.1416
BF  12.84
LH   0.18        0      1.5      1.4        5
US 2.5549      0.6
KK   CO3B  COON CREEK
BA   1.63
PB 6.7167
BF   4.89
LH   0.18        0      1.5      1.4        3
US 1.0334      0.6
KK  CO3B+  COMBINE HYDROGRAPHS
HC      2
KK   RCH4  ROUTE FROM CO3B TO CO3C
RS      1     FLOW       -1
RC   0.06     0.06     0.06     2800   0.0209     1000
RX      0        0      200      220      230      250      450      450
RY   1020     1000      960      950      950      960     1000     1020
KK   CO3C  COON CREEK
```

```
BA    0.3
PB 6.5042
BF    0.9
LH   0.18        0      1.5      1.4        2
US 0.8458      0.6
KK  CO3C+  COMBINE HYDROGRAPHS
HC      2
KK   RCH5  ROUTE FROM CO3C TO CO4
RS      1     FLOW       -1
RC   0.06     0.06     0.06    11500   0.0209     1000
RX      0        0      300      320      330      350      650      650
RY   1020     1000      960      950      950      960     1000     1020
KK    CO4  COON CREEK
BA   3.09
PB 6.2918
BF   9.27
LH   0.18        0      1.5      1.4        2
US 2.5430      0.6
KK   CO4+  COMBINE HYDROGRAPHS-ORR CREEK
HC      2
KK CO4@D+  COMBINE HYDROGRAPHS-ORR CREEK AND DOTY CREEK
HC      2
KK   RCH6  ROUTE FROM CO4 TO CO5
RS      1     FLOW       -1
RC   0.06     0.06     0.06    15500   0.0342     1000
RX      0        0      200      220      235      255      455      455
RY   1020     1000      950      940      940      950     1000     1020
KK    CO5  COON CREEK
BA   4.82
PB 5.8669
BF  14.46
LH   0.18        0      1.5      1.4        3
US 1.4654      0.6
KK   CO6A  COON CREEK
BA   1.37
PB 6.0794
BF   4.11
LH   0.12        0      1.5      1.4        7
US 1.0353      0.6
KK    DTN
RS      1     FLOW       -1
SV      0        1        5       15       35       60      130      250      500
SE    100      102      104      106      108      110      114      120      130
SL    102     1000      0.6      0.5
SS    129     1000      2.8      1.5
KK   RCH7  ROUTE FROM CO6A TO CO6B
RS      1     FLOW       -1
RC  0.055    0.055    0.055    13000   0.0385     1000
RX      0        0      200      220      235      255      455      455
RY   1020     1000      950      940      940      950     1000     1020
KK   CO6B  COON CREEK
BA   1.58
PB 5.8669
BF   4.74
LH   0.12        0      1.5      1.4        3
US 1.9971      0.6
KK  CO6B+  COMBINE HYDROGRAPHS
HC      4
KK   RCH8  ROUTE FROM CO6B TO CO7
RS      1     FLOW       -1
RC  0.055    0.055    0.055    15500    0.009     1000
RX      0        0      600      620      635      655     1255     1255
RY   1020     1000      960      950      950      960     1000     1020
KK    CO7  COON CREEK
BA   3.76
```

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PB 5.6545
BF  11.28
LH   0.12       0      1.5      1.4        2
US 2.1191     0.6
KK   CO7+  COMBINE HYDROGRAPHS
HC      2
KK   RCH9  ROUTE FROM CO7 TO CO8
RS      1    FLOW       -1
RC   0.05    0.05     0.05    21000    0.008     1000
RX      0       0      500      515      545      560     1060     1060
RY   1020    1000      900      890      890      900     1000     1020
KK    CO8  COON CREEK
BA   9.63
PB 5.4420
BF  28.89
LH   0.12       0      1.5      1.4        2
US 2.8748     0.6
KK   CO8+  COMBINE HYDROGRAPHS
HC      2
KK  RCH10  ROUTE FROM CO8 TO CO9A
RS      1    FLOW       -1
RC   0.05    0.05     0.05     8500   0.0024     1000
RX      0       0      500      520      545      565     1065     1065
RY   1020    1000      995      985      985      995     1000     1020
KK   CO9A  COON CREEK
BA   3.32
PB 5.0172
BF   9.96
LH   0.12       0      1.5      1.4        2
US 1.9304     0.6
KK   CO9+  COMBINE HYDROGRAPHS
HC      2
KK  RCH11  ROUTE FROM CO9A TO CO9B
RS      1    FLOW       -1
RC  0.045   0.045    0.045    15500   0.0032     1000
RX      0       0      500      520      545      565     1065     1065
RY   1020    1000      995      985      985      995     1000     1020
KK   CO9B  COON CREEK
BA   1.66
PB 4.8047
BF   4.98
LH   0.12       0      1.5      1.4        2
US 3.0167     0.6
KK   CO9C  COON CREEK
BA   4.46
PB 4.8047
BF  13.38
LH   0.12       0      1.5      1.4        2
US 3.7248     0.6
KK  CO9C+  COMBINE HYDROGRAPHS
HC      3
KK  CO10A  COON CREEK
BA   2.24
PB 5.8669
BF   6.72
LH   0.09       0      1.5      1.4        5
US 1.4437     0.6
KK  RCH12  ROUTE FROM CO10A TO CO10B
RS      1    FLOW       -1
RC  0.055   0.055    0.055    12500  0.00244     1000
RX      0       0      100      120      130      150      250      250
RY   1020    1000      960      950      950      960     1000     1020
KK  CO10B  COON CREEK
BA   2.92
PB 5.6545
```
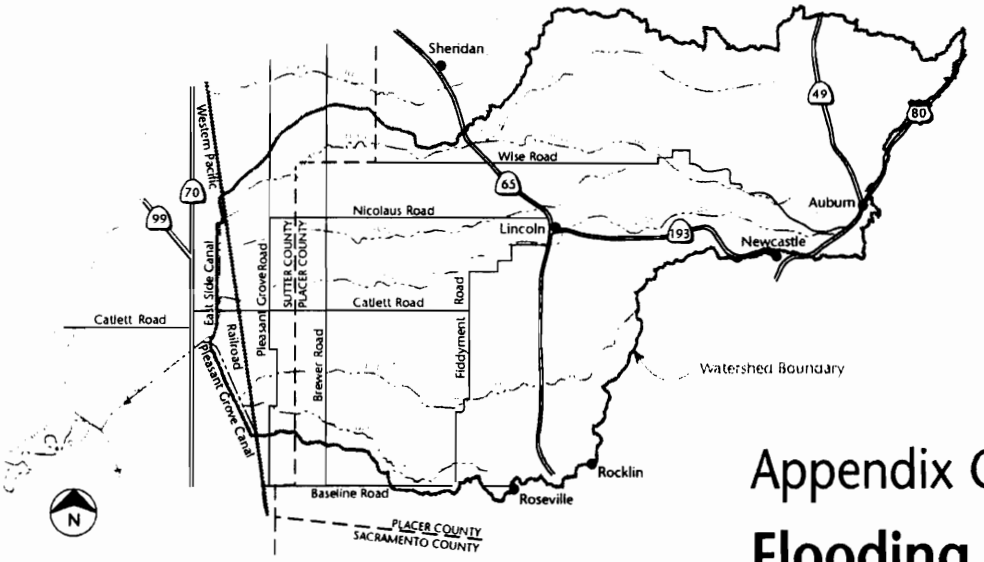

```
BF   8.76
LH   0.09       0      1.5      1.4        3
US 1.6125     0.6
KK  CO10C  COON CREEK
BA   3.59
PB 5.6545
BF  10.77
LH   0.09       0      1.5      1.4        3
US 2.5683     0.6
KK CO10C+  COMBINE HYDROGRAPHS
HC      3
KK  RCH13  ROUTE FROM CO10C TO CO10D
RS      1    FLOW       -1
RC  0.055   0.055   0.055    19000   0.0066     1000
RX      0       0     600      614      624      638     1238     1238
RY   1020    1000     990      983      983      990     1000     1020
KK  CO10D  COON CREEK
BA   9.81
PB 5.4420
BF  29.43
LH   0.09       0      1.5      1.4        2
US 3.2387     0.6
KK CO10D+  COMBINE HYDROGRAPHS
HC      2
KK  RCH14  ROUTE FROM CO10D TO CO10E
RS      1    FLOW       -1
RC  0.055   0.055   0.055     8000   0.0075     1000
RX      0       0     200      220      230      250      450      450
RY   1020    1000     990      980      980      990     1000     1020
KK  CO10E  COON CREEK
BA   3.64
PB 5.0172
BF  10.92
LH   0.09       0      1.5      1.4        2
US 1.4007     0.6
KK CO10E+  COMBINE HYDROGRAPHS
HC      2
KK  RCH15  ROUTE FROM CO10E TO CO11
RS      1    FLOW       -1
RC   0.05    0.05    0.05    21500   0.0028     1000
RX      0       0     500      520      540      560     1060     1060
RY   1020    1000     995      985      985      995     1000     1020
KK   CO11  COON CREEK
BA   2.75
PB 4.8047
BF   8.25
LH   0.12       0      1.5      1.4        2
US 3.7362     0.6
KK  CO11+  COMBINE HYDROGRAPHS- DOTY RAVINE
HC      2
KK CO@DOT  COMBINE HYDROGRAPHS
HC      2
KK  RCH16  ROUTE FROM CO11 TO CO12
RS      1    FLOW       -1
RC  0.045   0.045   0.045     3200    0.002     1000
RX      0       0     500      520      540      560     1060     1060
RY   1020    1000     995      985      985      995     1000     1020
KK   CO12  COON CREEK
BA   1.91
PB 4.8047
BF   5.73
LH   0.12       0      1.5      1.4        2
US 2.5562     0.6
KK  CO12+  COMBINE HYDROGRAPHS
HC      2
```

```
KK  RCH17  ROUTE FROM CO12 TO CO13
RS      1     FLOW      -1
RC  0.045    0.045   0.045    8500  0.0017    1000
RX      0        0     700     720     755     775    1475    1475
RY   1020     1000     995     985     985     995    1000    1020
KK   CO13  COON CREEK
BA   6.41
PB 4.8047
BF  19.23
LH   0.12        0     1.5     1.4       7
US 3.6762      0.6
KK    DTN
RS      1     FLOW      -1
SV      0        1       5      15      35      60     130     250     500
SE    100      102     104     106     108     110     114     120     130
SL    102     1000     0.6     0.5
SS    129     1000     2.8     1.5
KK  CO13+  COMBINE HYDROGRAPHS
HC      2
KK    DTN
RS      1     FLOW      -1
SV      0        1       5      15      35      60     130     250     500
SE    100      102     104     106     108     110     114     120     130
SL    102    10000     0.6     0.5
SS    129     1000     2.8     1.5
KK  RCH18  ROUTE FROM CO13 TO CO14
RS      1     FLOW      -1
RC   0.04     0.04    0.04   29000 0.00075    1000
RX      0        0     700     720     755     775    1475    1475
RY   1020     1000     995     985     985     995    1000    1020
KK   CO14  COON CREEK
BA   3.66
PB 4.1674
BF  10.98
LH    0.1        0     1.5     1.4       2
US 5.0276      0.6
KK  CO14+  COMBINE HYDROGRAPHS
HC      2
KK  RCH19  ROUTE FROM CO14 TO CO15
RS      1     FLOW      -1
RC   0.04     0.04    0.04   17000   0.001    1000
RX      0        0    3000    3018    3038    3056    6056    6056
RY   1020     1000     995     986     986     995    1000    1020
KK   CO15  COON CREEK
BA   2.53
PB 3.7425
BF   7.59
LH    0.1        0     1.5     1.4       2
US 3.0239      0.6
KK  CO16A  COON CREEK
BA    4.9
PB  3.955
BF   14.7
LH   0.06        0     1.5     1.4       2
US 4.4625      0.6
KK  CO15+  COMBINE HYDROGRAPHS
HC      3
KK  RCH20  ROUTE FROM CO15 TO CO16B
RS      1     FLOW      -1
RC   0.04     0.04    0.04   12000   0.001    1000
RX      0        0    3000    3018    3038    3056    6056    6056
RY   1020     1000     995     986     986     995    1000    1020
KK  CO16B  COON CREEK
BA   2.67
PB 3.5301
```

```
BF   8.01
LH   0.06       0      1.5      1.4      0.6
US 2.4610     0.6
KK  CO16C  COON CREEK
BA    7.9
PB  3.955
BF   23.7
LH   0.06       0      1.5      1.4        2
US 5.6822     0.6
KK  RCH21  ROUTE FROM CO16C TO CO16D
RS      1    FLOW       -1
RC   0.04    0.04     0.04    12000    0.001     1000
RX      0       0     3000     3018     3038     3056     6056     6056
RY   1020    1000      995      986      986      995     1000     1020
KK  CO16D  COON CREEK
BA   1.84
PB 3.5301
BF   5.52
LH   0.06       0      1.5      1.4      0.4
US 3.5362     0.6
KK CO16D+  COMBINE HYDROGRAPHS - END COON CREEK
KO      1
HC      4
KK     CC  COMBINE HYDROGRAPHS AT CROSS CANAL
HC      6
KK   POND  ROUTE FLOOD THROUGH POND W/ SAC. R. AT 39.1
KO      1
RS      1    ELEV     39.1
SA      0     0.1     4941     5416     6211     8051
SE   39.1    39.9       40    40.55    41.47     43.6
SQ    0.1   10769    11538    15000    20000    30000
ZZ
```



Appendix C

Flooding Impact Tables

TABLE C-1

STORM: 8-DAY 100 YEAR
REMARKS: HISTORICAL LAND USE, NO MITIGATION

STATION	MAX FLOW CFS	AVG 24-HR CFS	AREA SQ MI	MAX STAGE FT	TIME HR
CU1	498	170	1.75		
RCH1	455	170	1.75		
				989.94	169
CU2A	807	271	2.78		
CU2B	817	264	2.71		
CU2A+	2041	704	7.24		
RCH2	1888	704	7.24		
				992.31	169
CU2C	267	67	0.69		
CU3	1156	370	3.79		
CU3+	3071	1140	11.72		
RCH3	2638	1139	11.72		
				997.29	170
CU4	1101	341	3.58		
CU5	137	27	0.28		
CU5+	3426	1505	15.58		
RCH4	3370	1505	15.58		
				997.35	169
CU6	351	83	0.87		
CU6+	3464	1588	16.45		
PL1A	367	63	0.66		
RCH1	346	63	0.66		
				992.89	166
PL1B	464	82	0.86		
DTN	463	82	0.86		
				102.14	166
PL1B+	810	145	1.52		
RCH2	749	145	1.52		
				994.95	166
PL1C	428	86	0.9		

PL1C+	1177	231	2.42		
RCH3	969	231	2.42	996.2	167
PL1D	930	239	2.51		
DTN	929	239	2.51	102.27	167
PL1D+	1898	470	4.93		
SUN	1538	471	4.93	141.2	168
PL2A	100	17	0.18		
DTN	100	17	0.18	102.03	166
PL2A+	1551	488	5.11		
RCH4	1550	488	5.11	994.43	168
PL2B	83	14	0.15		
PL2C	133	23	0.24		
PL2C+	217	37	0.39		
DTN	216	37	0.39	102.06	166
RCH5	171	37	0.39	993.97	167
PL2D	340	83	0.87		
PL2E	72	12	0.13		
PL2F	56	10	0.1		
PL2F+	128	22	0.23		
DTN	128	22	0.23	102.04	166
RCH6	102	22	0.23	992.8	167
PL2G	420	102	1.07		
DTN	421	102	1.07	102.12	167
PL2D+	2366	732	7.67		
RCH7	2296	732	7.67	997.84	168
PL2H	139	24	0.25		

DTN	139	24	0.25		
				102.04	166
PL2H+	2352	756	7.92		
PL3	293	55	0.58		
EXIST	268	55	0.58		
				195.33	167
RCH8	270	55	0.58		
				994.63	167
PL4A	194	33	0.35		
PL4A+	401	89	0.93		
RCH9	408	89	0.93		
				995.07	167
PL4B	294	69	0.73		
DTN	295	69	0.73		
				102.09	167
PL4C	377	69	0.72		
PL4C+	981	227	2.38		
NORTH	985	227	2.38		
				102.29	167
RCH10	984	227	2.38		
				996.83	167
PL4D	222	38	0.4		
PL4D+	1128	265	2.78		
RCH11	1082	265	2.78		
				996.95	167
PL4E	215	53	0.56		
DTN	215	53	0.56		
				102.06	167
PL4E+	1298	319	3.34		
PL4+	3650	1074	11.26		
RCH12	3526	1074	11.26		
				999.01	168
PL5A	175	39	0.41		
DTN	174	39	0.41		
				102.05	166
PL5B	285	50	0.52		

RCH13	224	50	0.52		
				994.55	167
PL5C	590	156	1.64		
DTN	590	156	1.64		
				102.17	167
PL5C+	4279	1319	13.83		
RCH14	4341	1319	13.83		
				998.41	168
PL5D	100	17	0.18		
PL5E	150	29	0.3		
PL5E+	250	46	0.48		
RCH15	220	46	0.48		
				994.35	167
PL5F	228	44	0.46		
PL5F+	4511	1409	14.77		
RCH16	4194	1409	14.77		
				999.26	168
PL5G	669	168	1.76		
DTN	669	168	1.76		
				102.2	167
PL5G+	4745	1576	16.53		
PL6A	560	131	1.37		
DTN	561	131	1.37		
				102.16	167
RCH17	581	131	1.37		
				995.21	167
PL6B	585	146	1.54		
DTN	585	146	1.54		
				102.17	167
PL6C	238	42	0.44		
PL6C+	1329	319	3.35		
RCH18	1106	319	3.35		
				996.2	168
PL7A	347	87	0.91		
DTN	347	87	0.91		
				102.1	167
PL7B	311	75	0.79		

DTN	312	75	0.79		
				102.09	167
PL7B+	1753	481	5.05		
RCH19	1510	481	5.05		
				996.66	168
PL7C	441	119	1.25		
DTN	440	119	1.25		
				102.13	167
PL7C+	1907	600	6.3		
PL@SB	6652	2176	22.83		
RCH20	6553	2176	22.83		
				998.19	168
PL8A	456	113	1.19		
DTN	456	113	1.19		
				102.13	167
RCH21	422	113	1.19		
				994.7	167
PL8B	254	55	0.58		
DTN	253	55	0.58		
				102.07	166
RCH22	251	55	0.58		
				993.46	167
PL8C	395	95	1		
DTN	396	95	1		
				102.12	167
PL8C+	1070	264	2.77		
RCH23	967	264	2.77		
				996.65	167
PL8D	194	33	0.35		
DTN	194	33	0.35		
				102.06	166
RCH24	174	33	0.35		
				991.71	166
PL8E	294	51	0.53		
PL8E+	1313	348	3.65		
RCH25	1184	348	3.65		
				996.73	167

PL8F	182	34	0.36		
PL8F+	1327	382	4.01		
RCH26	1240	382	4.01	996.12	168
PL9	284	69	0.72		
PL9+	7974	2626	27.56		
RCH27	7773	2626	27.56	994.79	169
PL10A	368	93	0.95		
PL10B	344	93	0.95		
PL10B+	8252	2811	29.46		
RCH28	7855	2811	29.46	994.82	169
PL10C	1004	190	1.94		
PL10D	1314	542	5.62		
DTN	1314	542	5.62	102.39	169
PL10D+	9244	3540	37.02		
DTN	9244	3540	37.02	102.27	169
RCH29	9105	3540	37.02	995.32	169
PL10E	181	34	0.35		
PL11	1077	386	3.97		
PL11+	10157	3959	41.34		
RCH30	9969	3959	41.34	998.39	170
PL12	658	163	1.67		
PL12+	10092	4121	43.01		
RCH31	9754	4119	43.01	998.55	171
PL13	627	188	1.93		
PL13+	9999	4307	44.94		
RCH32	9782	4305	44.94	998.56	171
PL14	611	162	1.66		

PL14+	9888	4466	46.6		
TR1A	788	251	2.64		
RCH1	754	251	2.64	992.57	168
TR1B	994	313	3.29		
TR1+	1748	563	5.93		
AU1A	625	119	1.57		
DTN	622	119	1.57	102.18	166
RCH1	606	119	1.57	893.16	167
AU1B	140	22	0.29		
DTN	140	22	0.29	102.04	166
AU1B+	711	141	1.86		
RCH2	734	141	1.86	892.96	167
AU2A	769	126	1.66		
DTN	766	126	1.66	102.23	166
AU2A+	1420	267	3.52		
RCH2	1355	267	3.52	894.51	166
AU2B	283	46	0.61		
AU2C	235	48	0.63		
AU2C+	1874	361	4.76		
RCH3	1865	361	4.76	951.5	166
AU3A	97	15	0.19		
DTN	97	15	0.19	102.03	166
RCH4	81	15	0.19	981.27	166
AU3B	331	63	0.79		
DTN	330	63	0.79	102.1	166

RCH5	315	63	0.79		
				982.69	166
AU3C	421	98	1.23		
AU3C+	808	176	2.21		
RCH6	839	176	2.21		
				986.26	167
AU3D	949	231	2.91		
AU3D+	3576	769	9.88		
RCH7	3619	769	9.88		
				954.66	167
AU3E	407	73	0.92		
DTN	405	73	0.92		
				102.12	166
AU3E+	3960	842	10.8		
RCH8	4013	842	10.8		
				954.05	167
AU3F	259	46	0.58		
AU3F+	4225	889	11.38		
RCH9	4340	889	11.38		
				960.23	167
AU4A	837	189	2.37		
AU4A+	5177	1077	13.75		
RCH10	5234	1077	13.75		
				960.65	167
AU4B	296	60	0.75		
AU4C	140	32	0.4		
AU4C+	5650	1169	14.9		
RCH11	5674	1169	14.9		
				960.58	167
AU4D	410	96	1.21		
AU4D+	6084	1265	16.11		
RCH12	6079	1265	16.11		
				974.76	167
AU5A	380	90	1.13		
DTN	380	90	1.13		
				102.11	167

RCH13	383	90	1.13		
				962.79	167
AU5B	170	37	0.46		
DTN	169	37	0.46		
				102.05	166
AU5B+	551	127	1.59		
RCH14	496	127	1.59		
				962.96	167
AU5C	710	192	2.41		
DUTCH	1206	319	4		
AU6	171	29	0.36		
AU6+	7408	1613	20.47		
RCH15	7042	1613	20.47		
				975.11	167
AU7	1359	319	4.01		
AU7+	8401	1932	24.48		
RCH16	7839	1932	24.48		
				967.53	168
AU8	1992	569	7.15		
AU8+	9755	2501	31.63		
RCH17	9941	2501	31.63		
				995.83	168
AU9A	244	47	0.57		
AU9A+	10017	2548	32.2		
RCH18	9298	2548	32.2		
				995.34	168
AU9B	264	65	0.79		
AU9B+	9518	2613	32.99		
RCH19	9036	2613	32.99		
				995.4	169
AU10A	374	90	1.1		
DTN	374	90	1.1		
				102.11	167
AU10A+	9207	2702	34.09		
RCH20	8405	2702	34.09		
				995.24	170

AU10B	351	109	1.33		
AU10B+	8638	2811	35.42		
RCH21	8665	2811	35.42	994.96	170
AU11A	983	241	2.47		
RCH22	846	241	2.47	991.3	167
AU11B	573	148	1.52		
DTN	573	148	1.52	102.17	167
AU11+	1419	389	3.99		
AU12A	112	20	0.2		
DTN	112	20	0.2	102.03	166
RCH23	91	20	0.2	979.26	167
AU12B	962	251	2.57		
RCH24	914	251	2.57	984.37	167
AU12C	191	36	0.37		
DTN	191	36	0.37	102.06	166
AU12C+	2574	696	7.13		
RCH25	2516	696	7.13	987.88	167
AU13A	245	45	0.46		
RCH26	218	45	0.46	994.92	166
AU13B	328	77	0.79		
DTN	328	77	0.79	102.1	167
RCH27	333	77	0.79	995.8	167
AU13C	328	71	0.73		
DTN	326	71	0.73	102.1	166
AU13C+	851	194	1.98		

RCH28	855	194	1.98	997.46	167
AU13D	146	25	0.26		
AU13D+	3465	916	9.37		
RCH29	2940	915	9.37	992.67	168
AU14A	173	34	0.35		
RCH30	152	34	0.35	982.33	167
AU14B	555	169	1.73		
RCH31	551	169	1.73	984.8	168
AU14C	298	75	0.77		
DTN	298	75	0.77	102.09	167
AU14D	401	87	0.89		
RCH32	397	87	0.89	983.89	167
AU14E	304	66	0.67		
DTN	303	66	0.67	102.09	166
AU14E+	681	153	1.56		
RCH33	695	153	1.56	986.65	167
AU14C+	1628	431	4.41		
RCH34	1389	430	4.41	991.79	168
AU15A	469	132	1.35		
DTN	469	132	1.35	102.14	167
AU15A+	1825	562	5.76		
RCH35	1697	562	5.76	992.56	168
AU15B	188	47	0.48		
DTN	189	47	0.48	102.06	167
AU15C	141	24	0.25		

DTN	140	24	0.25		
				102.04	166
RCH36	91	24	0.25		
				982.44	167
AU15D	262	56	0.57		
DTN	261	56	0.57		
				102.08	166
RCH37	212	55	0.57		
				984	167
AU15E	1053	285	2.92		
DTN	1052	285	2.92		
				102.31	167
AU15E+	5983	1888	19.35		
RCH38	5503	1887	19.35		
				993.17	169
AU16A	1064	274	3.19		
AU16A+	14143	4972	57.96		
RCH39	14073	4972	57.96		
				999.92	170
AU16B	562	137	1.59		
AU16B+	14204	5109	59.55		
DTN	14204	5109	59.55		
				102.42	170
RCH40	12261	5102	59.55		
				998.5	171
AU16C	863	314	3.66		
AU16C+	12795	5416	63.21		
RCH41	12098	5413	63.21		
				998.48	172
AU17	510	123	1.43		
AU17+	12125	5533	64.64		
RCH42	11782	5532	64.64		
				998.44	173
AU18	1171	423	4.35		
RCH43	1143	422	4.35		
				993.29	169
AU19A	1068	338	3.64		

AU19A+	2134	759	7.99		
RCH44	1987	759	7.99	995.49	169
AU19B	1551	598	6.48		
AU19B+	13288	6887	79.11		
MA1	1089	343	3.61		
DTN	1090	343	3.61	102.32	168
RCH1	1086	343	3.61	991.25	168
MA2A	564	153	1.74		
DTN	564	153	1.74	102.17	167
MA2B	551	164	1.86		
DTN	551	164	1.86	102.16	167
MA2B+	2145	660	7.21		
RCH2	1752	659	7.21	995.95	169
MA2C	800	204	2.31		
MA2C+	2358	863	9.52		
RCH3	1872	859	9.52	995.49	170
MA3	970	369	4.2		
MA3+	2810	1227	13.72		
RCH4	2496	1226	13.72	996.54	171
MA4	658	206	2.34		
DTN	658	206	2.34	102.19	168
RCH5	492	202	2.34	994.25	169
MA5	1514	651	6.79		
MA5+	4383	2079	22.85		
RCH6	3881	2067	22.85	996.76	172
MA6A	1163	472	5.14		

RCH7	978	471	5.14		
				995.63	171
MA6B	1014	349	3.77		
MA6+	5310	2877	31.76		
CO1	1469	559	8.14		
RCH1	1474	558	8.14		
				957.52	169
CO2A	710	157	2.19		
DTN	712	157	2.19		
				102.21	167
RCH2	736	157	2.19		
				954.5	167
CO2B	540	126	1.76		
CO2B+	1276	283	3.95		
RCH3	1258	283	3.95		
				956.5	167
CO2C	1062	251	3.51		
CO2C+	3431	1092	15.6		
CO3A	912	306	4.28		
CO3B	531	117	1.63		
CO2B+	1316	423	5.91		
RCH4	1317	423	5.91		
				956.35	167
CO3C	136	22	0.3		
CO3C+	1407	445	6.21		
RCH5	1382	444	6.21		
				956.5	167
CO4	719	221	3.09		
CO4+	2088	666	9.3		
CO4@D+	5519	1758	24.9		
RCH6	5435	1757	24.9		
				949.98	168
CO5	1511	345	4.82		
CO6A	588	112	1.37		
DTN	586	112	1.37		

				102.17	166
RCH7	563	112	1.37		
				942.84	167
CO6B	493	129	1.58		
CO6B+	7794	2344	32.67		
RCH8	7493	2341	32.67		
				963.82	168
CO7	1115	307	3.76		
CO7+	8535	2648	36.43		
RCH9	8466	2646	36.43		
				903.15	168
CO8	2500	787	9.63		
CO8+	10967	3432	46.06		
RCH10	10266	3430	46.06		
				999.46	169
CO9A	1078	272	3.32		
CO9+	10829	3701	49.38		
RCH11	10232	3698	49.38		
				998.78	169
CO9B	417	136	1.66		
CO9C	959	363	4.46		
CO9C+	11569	4195	55.5		
CO10A	832	198	2.24		
RCH12	740	198	2.24		
				957.89	167
CO10B	1062	258	2.92		
CO10C	1013	316	3.59		
CO10C+	2784	771	8.75		
RCH13	2392	771	8.75		
				992.07	168
CO10D	2476	864	9.81		
CO10D+	4868	1635	18.56		
RCH14	4721	1635	18.56		
				992.87	169
CO10E	1364	321	3.64		

CO10E+	5561	1956	22.2		
RCH15	4917	1953	22.2	997.58	169
CO11	591	224	2.75		
CO11+	5508	2177	24.95		
CO@DOT	17077	6371	80.45		
RCH16	16798	6371	80.45	1001.26	169
CO12	505	156	1.91		
CO12+	17193	6526	82.36		
RCH17	16930	6525	82.36	1000.33	170
CO13	1296	519	6.41		
DTN	1296	519	6.41	102.38	169
CO13+	18150	7044	88.77		
DTN	18151	7044	88.77	102.53	170
RCH18	14660	6994	88.77	1000.88	172
CO14	698	309	3.66		
CO14+	15207	7302	92.43		
RCH19	13621	7160	92.43	998.3	174
CO15	663	218	2.53		
CO16A	1088	459	4.9		
CO15+	14227	7777	99.86		
RCH20	13624	7678	99.86	998.3	175
CO16B	808	254	2.67		
CO16C	1505	725	7.9		
RCH21	1398	722	7.9	995.17	172
CO16D	465	174	1.84		
CO16D+	14754	8707	112.27		
CC	44312	24851	292.12		

POND	25579	21430	292.12

TABLE C-2

STORM: 8-DAY 100-YEAR
REMARKS: EXISTING LAND USE, NO MITIGATION

STATION	MAX FLOW CFS	AVG 24-HR CFS	AREA SQ MI	MAX STAGE FT	TIME HR
CU1	498	171	1.75		
RCH1	455	170	1.75	989.94	169
CU2A	808	271	2.78		
CU2B	817	264	2.71		
CU2A+	2041	705	7.24		
RCH2	1888	704	7.24	992.32	169
CU2C	267	67	0.69		
CU3	1156	370	3.79		
CU3+	3072	1140	11.72		
RCH3	2639	1139	11.72	997.29	170
CU4	1102	341	3.58		
CU5	137	27	0.28		
CU5+	3428	1506	15.58		
RCH4	3371	1506	15.58	997.35	169
CU6	351	83	0.87		
CU6+	3465	1588	16.45		
PL1A	367	63	0.66		
RCH1	346	63	0.66	992.89	166
PL1B	464	82	0.86		
DTN	463	82	0.86	102.14	166
PL1B+	810	145	1.52		
RCH2	749	145	1.52	994.95	166
PL1C	428	86	0.9		

PL1C+	1177	231	2.42		
RCH3	969	231	2.42	996.2	167
PL1D	933	240	2.51		
DTN	933	240	2.51	102.27	167
PL1D+	1902	472	4.93		
SUN	1540	472	4.93	141.22	168
PL2A	101	18	0.18		
DTN	101	18	0.18	102.03	166
PL2A+	1554	490	5.11		
RCH4	1553	490	5.11	994.44	168
PL2B	84	15	0.15		
PL2C	134	23	0.24		
PL2C+	218	38	0.39		
DTN	217	38	0.39	102.06	166
RCH5	172	38	0.39	993.98	167
PL2D	341	83	0.87		
PL2E	72	12	0.13		
PL2F	56	10	0.1		
PL2F+	128	22	0.23		
DTN	128	22	0.23	102.04	166
RCH6	102	22	0.23	992.8	167
PL2G	428	103	1.07		
DTN	430	103	1.07	102.13	167
PL2D+	2381	735	7.67		
RCH7	2296	735	7.67	997.84	168
PL2H	139	24	0.25		

DTN	139	24	0.25		
				102.04	166
PL2H+	2372	759	7.92		
PL3	327	58	0.58		
EXIST	278	58	0.58		
				195.48	166
RCH8	282	57	0.58		
				994.73	167
PL4A	195	34	0.35		
PL4A+	441	91	0.93		
RCH9	434	91	0.93		
				995.2	167
PL4B	295	70	0.73		
DTN	296	70	0.73		
				102.09	167
PL4C	377	69	0.72		
PL4C+	1007	230	2.38		
NORTH	1011	230	2.38		
				102.3	167
RCH10	1014	230	2.38		
				996.87	167
PL4D	223	39	0.4		
PL4D+	1158	268	2.78		
RCH11	1107	268	2.78		
				996.98	167
PL4E	216	54	0.56		
DTN	216	54	0.56		
				102.06	167
PL4E+	1324	322	3.34		
PL4+	3696	1081	11.26		
RCH12	3559	1081	11.26		
				999.03	168
PL5A	175	39	0.41		
DTN	175	39	0.41		
				102.05	166
PL5B	285	50	0.52		

RCH13	224	50	0.52		
				994.55	167
PL5C	628	158	1.64		
DTN	628	158	1.64		
				102.18	167
PL5C+	4298	1328	13.83		
RCH14	4364	1328	13.83		
				998.43	168
PL5D	101	18	0.18		
PL5E	159	29	0.3		
PL5E+	260	47	0.48		
RCH15	222	47	0.48		
				994.37	167
PL5F	228	44	0.46		
PL5F+	4579	1419	14.77		
RCH16	4249	1419	14.77		
				999.3	168
PL5G	671	168	1.76		
DTN	671	168	1.76		
				102.2	167
PL5G+	4801	1587	16.53		
PL6A	563	132	1.37		
DTN	563	132	1.37		
				102.17	167
RCH17	584	132	1.37		
				995.22	167
PL6B	688	151	1.54		
DTN	686	151	1.54		
				102.2	166
PL6C	246	43	0.44		
PL6C+	1404	325	3.35		
RCH18	1221	325	3.35		
				996.38	167
PL7A	357	88	0.91		
DTN	357	88	0.91		
				102.11	167
PL7B	324	77	0.79		

DTN	325	77	0.79		
				102.1	167
PL7B+	1903	490	5.05		
RCH19	1599	490	5.05		
				996.79	168
PL7C	442	120	1.25		
DTN	442	120	1.25		
				102.13	167
PL7C+	1998	609	6.3		
PL@SB	6799	2196	22.83		
RCH20	6718	2197	22.83		
				998.27	168
PL8A	530	116	1.19		
DTN	529	116	1.19		
				102.16	166
RCH21	509	116	1.19		
				995.16	167
PL8B	254	55	0.58		
DTN	253	55	0.58		
				102.07	166
RCH22	252	55	0.58		
				993.46	167
PL8C	395	95	1		
DTN	396	95	1		
				102.12	167
PL8C+	1156	266	2.77		
RCH23	1056	266	2.77		
				996.8	167
PL8D	194	33	0.35		
DTN	194	33	0.35		
				102.06	166
RCH24	174	33	0.35		
				991.71	166
PL8E	294	51	0.53		
PL8E+	1402	350	3.65		
RCH25	1244	350	3.65		
				996.81	167

PL8F	182	34	0.36		
PL8F+	1387	385	4.01		
RCH26	1292	385	4.01	996.19	168
PL9	284	69	0.72		
PL9+	8191	2650	27.56		
RCH27	7916	2650	27.56	994.84	169
PL10A	368	93	0.95		
PL10B	344	93	0.95		
PL10B+	8470	2835	29.46		
RCH28	8039	2834	29.46	994.89	169
PL10C	1005	190	1.94		
PL10D	1314	542	5.62		
DTN	1314	542	5.62	102.39	169
PL10D+	9429	3563	37.02		
DTN	9428	3563	37.02	102.28	169
RCH29	9287	3563	37.02	995.4	169
PL10E	181	34	0.35		
PL11	1077	386	3.97		
PL11+	10340	3983	41.34		
RCH30	10127	3983	41.34	998.42	170
PL12	658	163	1.67		
PL12+	10250	4145	43.01		
RCH31	9887	4144	43.01	998.58	171
PL13	627	188	1.93		
PL13+	10164	4331	44.94		
RCH32	9936	4329	44.94	998.59	171
PL14	611	162	1.66		

PL14+	10042	4490	46.6		
TR1A	789	251	2.64		
RCH1	754	251	2.64	992.58	168
TR1B	995	313	3.29		
TR1+	1749	564	5.93		
AU1A	818	134	1.57		
DTN	816	134	1.57	102.24	166
RCH1	757	134	1.57	893.94	166
AU1B	155	26	0.29		
DTN	155	26	0.29	102.05	166
AU1B+	912	160	1.86		
RCH2	854	160	1.86	893.44	166
AU2A	872	144	1.66		
DTN	870	144	1.66	102.26	166
AU2A+	1725	304	3.52		
RCH2	1660	304	3.52	895.52	166
AU2B	308	48	0.61		
AU2C	286	49	0.63		
AU2C+	2253	401	4.76		
RCH3	2261	401	4.76	952.21	166
AU3A	103	18	0.19		
DTN	103	18	0.19	102.03	166
RCH4	89	18	0.19	981.33	166
AU3B	421	70	0.79		
DTN	420	70	0.79	102.12	166

RCH5	406	70	0.79		
				983.16	166
AU3C	615	99	1.23		
AU3C+	1111	187	2.21		
RCH6	963	187	2.21		
				986.71	166
AU3D	1232	234	2.91		
AU3D+	4456	822	9.88		
RCH7	4395	822	9.88		
				955.72	166
AU3E	477	76	0.92		
DTN	476	76	0.92		
				102.14	166
AU3E+	4870	898	10.8		
RCH8	4785	898	10.8		
				954.88	166
AU3F	295	47	0.58		
AU3F+	5080	945	11.38		
RCH9	4888	944	11.38		
				960.8	167
AU4A	838	189	2.37		
AU4A+	5726	1133	13.75		
RCH10	5983	1133	13.75		
				961.34	167
AU4B	296	60	0.75		
AU4C	140	32	0.4		
AU4C+	6400	1225	14.9		
RCH11	6530	1225	14.9		
				961.31	167
AU4D	411	97	1.21		
AU4D+	6941	1322	16.11		
RCH12	7027	1322	16.11		
				975.79	167
AU5A	466	92	1.13		
DTN	464	92	1.13		
				102.14	166

RCH13	461	92	1.13	963.1	167
AU5B	240	39	0.46		
DTN	239	39	0.46	102.07	166
AU5B+	648	130	1.59		
RCH14	635	130	1.59	963.44	167
AU5C	711	192	2.41		
DUTCH	1346	323	4		
AU6	171	29	0.36		
AU6+	8496	1673	20.47		
RCH15	8411	1673	20.47	976.47	167
AU7	1360	320	4.01		
AU7+	9771	1993	24.48		
RCH16	8505	1993	24.48	967.94	167
AU8	1995	570	7.15		
AU8+	10500	2564	31.63		
RCH17	10754	2564	31.63	996.09	168
AU9A	244	47	0.57		
AU9A+	10831	2610	32.2		
RCH18	10332	2610	32.2	995.63	168
AU9B	266	65	0.79		
AU9B+	10555	2676	32.99		
RCH19	9667	2675	32.99	995.56	169
AU10A	406	92	1.1		
DTN	408	92	1.1	102.12	167
AU10A+	9752	2767	34.09		
RCH20	8958	2767	34.09	995.38	169

AU10B	352	109	1.33		
AU10B+	9235	2876	35.42		
RCH21	9080	2876	35.42	995.07	170
AU11A	983	241	2.47		
RCH22	846	241	2.47	991.3	167
AU11B	574	149	1.52		
DTN	574	149	1.52	102.17	167
AU11+	1420	390	3.99		
AU12A	112	20	0.2		
DTN	112	20	0.2	102.03	166
RCH23	91	20	0.2	979.26	167
AU12B	962	251	2.57		
RCH24	914	251	2.57	984.37	167
AU12C	191	36	0.37		
DTN	191	36	0.37	102.06	166
AU12C+	2574	697	7.13		
RCH25	2517	697	7.13	987.88	167
AU13A	245	45	0.46		
RCH26	218	45	0.46	994.92	166
AU13B	328	77	0.79		
DTN	328	77	0.79	102.1	167
RCH27	333	77	0.79	995.8	167
AU13C	330	73	0.73		
DTN	329	73	0.73	102.1	166
AU13C+	853	195	1.98		

RCH28	858	195	1.98		
				997.47	167
AU13D	146	26	0.26		
AU13D+	3469	917	9.37		
RCH29	2944	917	9.37		
				992.67	168
AU14A	173	34	0.35		
RCH30	152	34	0.35		
				982.33	167
AU14B	556	169	1.73		
RCH31	551	169	1.73		
				984.8	168
AU14C	298	75	0.77		
DTN	298	75	0.77		
				102.09	167
AU14D	401	87	0.89		
RCH32	397	87	0.89		
				983.89	167
AU14E	304	66	0.67		
DTN	303	66	0.67		
				102.09	166
AU14E+	681	153	1.56		
RCH33	695	153	1.56		
				986.65	167
AU14C+	1628	431	4.41		
RCH34	1389	430	4.41		
				991.79	168
AU15A	469	132	1.35		
DTN	469	132	1.35		
				102.14	167
AU15A+	1825	562	5.76		
RCH35	1697	562	5.76		
				992.56	168
AU15B	188	47	0.48		
DTN	189	47	0.48		
				102.06	167
AU15C	141	24	0.25		

DTN	140	24	0.25		
				102.04	166
RCH36	91	24	0.25		
				982.44	167
AU15D	262	56	0.57		
DTN	261	56	0.57		
				102.08	166
RCH37	212	55	0.57		
				984	167
AU15E	1053	285	2.92		
DTN	1052	285	2.92		
				102.31	167
AU15E+	5988	1890	19.35		
RCH38	5508	1889	19.35		
				993.17	169
AU16A	1064	275	3.19		
AU16A+	14677	5040	57.96		
RCH39	14552	5040	57.96		
				1000.01	170
AU16B	564	137	1.59		
AU16B+	14684	5177	59.55		
DTN	14684	5177	59.55		
				102.43	170
RCH40	12693	5171	59.55		
				998.55	171
AU16C	864	314	3.66		
AU16C+	13227	5485	63.21		
RCH41	12511	5483	63.21		
				998.53	172
AU17	510	123	1.43		
AU17+	12538	5603	64.64		
RCH42	12176	5601	64.64		
				998.49	173
AU18	1172	423	4.35		
RCH43	1144	422	4.35		
				993.29	169
AU19A	1069	338	3.64		

AU19A+	2135	760	7.99		
RCH44	1988	759	7.99	995.49	169
AU19B	1552	599	6.48		
AU19B+	13721	6958	79.11		
MA1	1092	345	3.61		
DTN	1093	345	3.61	102.32	168
RCH1	1089	345	3.61	991.26	168
MA2A	569	155	1.74		
DTN	569	155	1.74	102.17	167
MA2B	689	171	1.86		
DTN	689	171	1.86	102.2	167
MA2B+	2201	671	7.21		
RCH2	1781	670	7.21	996	169
MA2C	801	204	2.31		
MA2C+	2424	875	9.52		
RCH3	1901	871	9.52	995.53	170
MA3	972	370	4.2		
MA3+	2845	1240	13.72		
RCH4	2535	1239	13.72	996.55	171
MA4	669	211	2.34		
DTN	670	211	2.34	102.2	168
RCH5	504	207	2.34	994.31	169
MA5	1514	652	6.79		
MA5+	4435	2098	22.85		
RCH6	3933	2086	22.85	996.78	172
MA6A	1164	472	5.14		

RCH7	978	471	5.14		
				995.63	171
MA6B	1014	349	3.77		
MA6+	5368	2896	31.76		
CO1	1668	564	8.14		
RCH1	1607	564	8.14		
				957.9	168
CO2A	722	162	2.19		
DTN	725	162	2.19		
				102.21	167
RCH2	749	162	2.19		
				954.55	167
CO2B	905	149	1.76		
CO2B+	1518	311	3.95		
RCH3	1456	311	3.95		
				957	167
CO2C	1098	254	3.51		
CO2C+	3857	1127	15.6		
CO3A	999	308	4.28		
CO3B	637	118	1.63		
CO2B+	1530	425	5.91		
RCH4	1540	425	5.91		
				956.86	167
CO3C	137	22	0.3		
CO3C+	1630	447	6.21		
RCH5	1623	447	6.21		
				957.05	167
CO4	720	222	3.09		
CO4+	2330	668	9.3		
CO4@D+	6187	1795	24.9		
RCH6	6091	1795	24.9		
				950.42	167
CO5	1513	346	4.82		
CO6A	589	112	1.37		
DTN	587	112	1.37		

				102.17	166
RCH7	564	112	1.37		
				942.85	167
CO6B	493	129	1.58		
CO6B+	8661	2383	32.67		
RCH8	7925	2382	32.67		
				964.05	168
CO7	1116	308	3.76		
CO7+	8967	2690	36.43		
RCH9	9081	2689	36.43		
				903.54	168
CO8	2501	787	9.63		
CO8+	11583	3477	46.06		
RCH10	10646	3476	46.06		
				999.56	169
CO9A	1078	272	3.32		
CO9+	11428	3747	49.38		
RCH11	10764	3745	49.38		
				998.92	169
CO9B	417	136	1.66		
CO9C	960	363	4.46		
CO9C+	12102	4244	55.5		
CO10A	832	198	2.24		
RCH12	741	198	2.24		
				957.89	167
CO10B	1062	258	2.92		
CO10C	1013	316	3.59		
CO10C+	2785	772	8.75		
RCH13	2393	772	8.75		
				992.07	168
CO10D	2479	865	9.81		
CO10D+	4872	1637	18.56		
RCH14	4725	1637	18.56		
				992.87	169
CO10E	1365	322	3.64		

CO10E+	5566	1959	22.2		
RCH15	4921	1955	22.2	997.58	169
CO11	592	224	2.75		
CO11+	5513	2179	24.95		
CO@DOT	17615	6423	80.45		
RCH16	17356	6422	80.45	1001.41	169
CO12	505	156	1.91		
CO12+	17751	6578	82.36		
RCH17	17395	6576	82.36	1000.43	170
CO13	1298	520	6.41		
DTN	1298	520	6.41	102.38	169
CO13+	18617	7096	88.77		
DTN	18618	7096	88.77	102.55	170
RCH18	14968	7050	88.77	1000.96	172
CO14	699	310	3.66		
CO14+	15515	7359	92.43		
RCH19	13873	7223	92.43	998.33	174
CO15	663	218	2.53		
CO16A	1088	460	4.9		
CO15+	14487	7845	99.86		
RCH20	13886	7743	99.86	998.33	175
CO16B	808	254	2.67		
CO16C	1506	725	7.9		
RCH21	1399	723	7.9	995.18	172
CO16D	465	174	1.84		
CO16D+	15068	8781	112.27		
CC	45282	25049	292.12		

POND	25809	21580	292.12

TABLE C-3

STORM: 8-DAY 100-YEAR
REMARKS: FUTURE LAND USE ,NO MITIGATION

STATION	MAX FLOW CFS	AVG 24-HR CFS	AREA SQ MI	MAX STAGE FT	TIME HR
CU1	499	171	1.75		
RCH1	456	170	1.75	989.95	169
CU2A	809	272	2.78		
CU2B	819	265	2.71		
CU2A+	2045	707	7.24		
RCH2	1892	706	7.24	992.32	169
CU2C	268	68	0.69		
CU3	1158	371	3.79		
CU3+	3078	1144	11.72		
RCH3	2645	1143	11.72	997.29	170
CU4	1104	342	3.58		
CU5	137	27	0.28		
CU5+	3435	1510	15.58		
RCH4	3379	1510	15.58	997.35	169
CU6	351	83	0.87		
CU6+	3473	1592	16.45		
PL1A	367	63	0.66		
RCH1	347	63	0.66	992.9	166
PL1B	482	84	0.86		
DTN	481	84	0.86	102.14	166
PL1B+	828	148	1.52		
RCH2	768	148	1.52	995.02	166
PL1C	428	86	0.9		

PL1C+	1196	234	2.42		
RCH3	980	234	2.42	996.22	167
PL1D	1444	263	2.51		
DTN	1441	263	2.51	102.42	166
PL1D+	2210	497	4.93		
SUN	1596	497	4.93	141.99	167
PL2A	103	19	0.18		
DTN	103	19	0.18	102.03	166
PL2A+	1665	516	5.11		
RCH4	1646	516	5.11	994.7	167
PL2B	86	16	0.15		
PL2C	137	25	0.24		
PL2C+	223	40	0.39		
DTN	223	40	0.39	102.07	166
RCH5	179	40	0.39	994.04	167
PL2D	341	83	0.87		
PL2E	72	12	0.13		
PL2F	56	10	0.1		
PL2F+	128	22	0.23		
DTN	128	22	0.23	102.04	166
RCH6	102	22	0.23	992.8	167
PL2G	622	115	1.07		
DTN	621	115	1.07	102.18	166
PL2D+	2683	776	7.67		
RCH7	2689	776	7.67	998.15	167
PL2H	146	27	0.25		

DTN	145	27	0.25		
				102.04	166
PL2H+	2787	803	7.92		
PL3	327	58	0.58		
EXIST	278	58	0.58		
				195.49	166
RCH8	282	58	0.58		
				994.73	167
PL4A	195	34	0.35		
PL4A+	442	92	0.93		
RCH9	435	92	0.93		
				995.2	167
PL4B	423	78	0.73		
DTN	422	78	0.73		
				102.12	166
PL4C	377	69	0.72		
PL4C+	1140	238	2.38		
NORTH	1135	238	2.38		
				102.33	166
RCH10	1076	238	2.38		
				996.95	167
PL4D	225	39	0.4		
PL4D+	1222	278	2.78		
RCH11	1200	277	2.78		
				997.09	167
PL4E	325	60	0.56		
DTN	325	60	0.56		
				102.1	166
PL4E+	1417	338	3.34		
PL4+	4204	1141	11.26		
RCH12	3850	1141	11.26		
				999.23	167
PL5A	239	44	0.41		
DTN	238	44	0.41		
				102.07	166
PL5B	293	52	0.52		

RCH13	229	52	0.52		
				994.61	167
PL5C	950	175	1.64		
DTN	948	175	1.64		
				102.28	166
PL5C+	4872	1411	13.83		
RCH14	4879	1411	13.83		
				998.72	167
PL5D	105	19	0.18		
PL5E	175	32	0.3		
PL5E+	280	52	0.48		
RCH15	238	52	0.48		
				994.51	166
PL5F	267	49	0.46		
PL5F+	5286	1512	14.77		
RCH16	4708	1511	14.77		
				999.59	168
PL5G	851	174	1.76		
DTN	849	174	1.76		
				102.25	166
PL5G+	5155	1685	16.53		
PL6A	794	146	1.37		
DTN	792	146	1.37		
				102.23	166
RCH17	675	146	1.37		
				995.49	166
PL6B	815	154	1.54		
DTN	813	154	1.54		
				102.24	166
PL6C	249	44	0.44		
PL6C+	1736	344	3.35		
RCH18	1399	344	3.35		
				996.66	167
PL7A	434	92	0.91		
DTN	433	92	0.91		
				102.13	166
PL7B	458	85	0.79		

DTN	457	85	0.79		
				102.13	166
PL7B+	2095	520	5.05		
RCH19	1720	520	5.05		
				996.93	168
PL7C	558	125	1.25		
DTN	557	125	1.25		
				102.16	166
PL7C+	2228	646	6.3		
PL@SB	7383	2331	22.83		
RCH20	7219	2331	22.83		
				998.49	168
PL8A	593	122	1.19		
DTN	591	122	1.19		
				102.17	166
RCH21	544	121	1.19		
				995.34	167
PL8B	329	59	0.58		
DTN	329	59	0.58		
				102.1	166
RCH22	274	59	0.58		
				993.66	167
PL8C	396	96	1		
DTN	397	96	1		
				102.12	167
PL8C+	1216	276	2.77		
RCH23	1149	276	2.77		
				996.96	167
PL8D	198	35	0.35		
DTN	198	35	0.35		
				102.06	166
RCH24	177	35	0.35		
				991.75	166
PL8E	295	51	0.53		
PL8E+	1499	362	3.65		
RCH25	1328	362	3.65		
				996.93	167

PL8F	183	35	0.36		
PL8F+	1471	396	4.01		
RCH26	1356	396	4.01	996.29	168
PL9	284	69	0.72		
PL9+	8757	2796	27.56		
RCH27	8804	2796	27.56	995.2	168
PL10A	369	93	0.95		
PL10B	345	93	0.95		
PL10B+	9392	2982	29.46		
RCH28	8696	2981	29.46	995.16	169
PL10C	1006	191	1.94		
PL10D	1317	543	5.62		
DTN	1317	543	5.62	102.39	169
PL10D+	10089	3710	37.02		
DTN	10089	3710	37.02	102.3	169
RCH29	10090	3709	37.02	995.72	169
PL10E	181	34	0.35		
PL11	1079	387	3.97		
PL11+	11145	4131	41.34		
RCH30	10753	4130	41.34	998.53	169
PL12	659	163	1.67		
PL12+	11000	4293	43.01		
RCH31	10648	4292	43.01	998.74	170
PL13	628	189	1.93		
PL13+	10956	4480	44.94		
RCH32	10636	4479	44.94	998.74	171
PL14	611	162	1.66		

PL14+	10743	4640	46.6		
TR1A	790	252	2.64		
RCH1	756	252	2.64	992.58	168
TR1B	995	313	3.29		
TR1+	1750	565	5.93		
AU1A	837	141	1.57		
DTN	835	141	1.57	102.25	166
RCH1	777	141	1.57	894.05	166
AU1B	167	31	0.29		
DTN	166	31	0.29	102.05	166
AU1B+	943	172	1.86		
RCH2	886	172	1.86	893.57	166
AU2A	930	167	1.66		
DTN	928	167	1.66	102.27	166
AU2A+	1814	339	3.52		
RCH2	1749	339	3.52	895.8	166
AU2B	308	48	0.61		
AU2C	292	51	0.63		
AU2C+	2349	439	4.76		
RCH3	2351	439	4.76	952.38	166
AU3A	103	18	0.19		
DTN	103	18	0.19	102.03	166
RCH4	89	18	0.19	981.33	166
AU3B	441	78	0.79		
DTN	440	78	0.79	102.13	166

RCH5	424	78	0.79	983.23	166
AU3C	626	103	1.23		
AU3C+	1138	199	2.21		
RCH6	996	199	2.21	986.83	166
AU3D	1252	242	2.91		
AU3D+	4599	879	9.88		
RCH7	4531	879	9.88	955.91	166
AU3E	488	81	0.92		
DTN	487	81	0.92	102.14	166
AU3E+	5018	960	10.8		
RCH8	4927	960	10.8	955.04	166
AU3F	299	48	0.58		
AU3F+	5225	1008	11.38		
RCH9	5041	1008	11.38	960.96	167
AU4A	853	195	2.37		
AU4A+	5894	1203	13.75		
RCH10	6148	1203	13.75	961.45	167
AU4B	299	61	0.75		
AU4C	140	32	0.4		
AU4C+	6568	1296	14.9		
RCH11	6692	1296	14.9	961.4	167
AU4D	412	97	1.21		
AU4D+	7104	1393	16.11		
RCH12	7186	1393	16.11	975.97	167
AU5A	550	97	1.13		
DTN	549	97	1.13	102.16	166

RCH13	507	97	1.13	963.29	166
AU5B	250	43	0.46		
DTN	250	43	0.46	102.07	166
AU5B+	757	140	1.59		
RCH14	697	140	1.59	963.65	167
AU5C	714	194	2.41		
DUTCH	1411	334	4		
AU6	171	29	0.36		
AU6+	8720	1755	20.47		
RCH15	8667	1755	20.47	976.72	167
AU7	1365	322	4.01		
AU7+	10032	2077	24.48		
RCH16	8818	2077	24.48	968.13	167
AU8	2003	574	7.15		
AU8+	10821	2651	31.63		
RCH17	10989	2651	31.63	996.16	168
AU9A	247	48	0.57		
AU9A+	11067	2698	32.2		
RCH18	10632	2698	32.2	995.72	168
AU9B	301	68	0.79		
AU9B+	10785	2766	32.99		
RCH19	9845	2766	32.99	995.6	169
AU10A	590	99	1.1		
DTN	589	99	1.1	102.17	166
AU10A+	9868	2864	34.09		
RCH20	9118	2864	34.09	995.42	169

AU10B	354	110	1.33		
AU10B+	9398	2974	35.42		
RCH21	9207	2974	35.42	995.1	170
AU11A	985	242	2.47		
RCH22	848	242	2.47	991.3	167
AU11B	829	163	1.52		
DTN	827	163	1.52	102.24	166
AU11+	1479	405	3.99		
AU12A	114	20	0.2		
DTN	113	20	0.2	102.03	166
RCH23	93	20	0.2	979.28	167
AU12B	963	252	2.57		
RCH24	915	252	2.57	984.37	167
AU12C	210	37	0.37		
DTN	210	37	0.37	102.06	166
AU12C+	2626	714	7.13		
RCH25	2669	714	7.13	988.17	167
AU13A	245	45	0.46		
RCH26	218	45	0.46	994.93	166
AU13B	329	78	0.79		
DTN	330	78	0.79	102.1	167
RCH27	334	78	0.79	995.81	167
AU13C	426	79	0.73		
DTN	425	79	0.73	102.12	166
AU13C+	920	202	1.98		

RCH28	891	202	1.98		
				997.53	167
AU13D	147	26	0.26		
AU13D+	3655	942	9.37		
RCH29	3035	942	9.37		
				992.74	168
AU14A	174	34	0.35		
RCH30	152	34	0.35		
				982.33	167
AU14B	557	169	1.73		
RCH31	553	169	1.73		
				984.81	168
AU14C	437	77	0.77		
DTN	436	77	0.77		
				102.13	166
AU14D	402	87	0.89		
RCH32	398	87	0.89		
				983.89	167
AU14E	310	68	0.67		
DTN	309	68	0.67		
				102.09	166
AU14E+	687	156	1.56		
RCH33	701	156	1.56		
				986.67	167
AU14C+	1626	437	4.41		
RCH34	1379	436	4.41		
				991.77	168
AU15A	694	138	1.35		
DTN	692	138	1.35		
				102.2	166
AU15A+	1922	574	5.76		
RCH35	1750	574	5.76		
				992.62	168
AU15B	276	50	0.48		
DTN	275	50	0.48		
				102.08	166
AU15C	144	26	0.25		

DTN	143	26	0.25		
				102.04	166
RCH36	94	26	0.25		
				982.49	167
AU15D	263	56	0.57		
DTN	262	56	0.57		
				102.08	166
RCH37	212	56	0.57		
				984.01	167
AU15E	1055	286	2.92		
DTN	1054	286	2.92		
				102.31	167
AU15E+	6093	1932	19.35		
RCH38	5640	1931	19.35		
				993.23	168
AU16A	1068	276	3.19		
AU16A+	14903	5181	57.96		
RCH39	14568	5181	57.96		
				1000.01	170
AU16B	564	138	1.59		
AU16B+	14762	5319	59.55		
DTN	14762	5319	59.55		
				102.43	169
RCH40	12961	5312	59.55		
				998.59	171
AU16C	867	316	3.66		
AU16C+	13498	5628	63.21		
RCH41	12814	5626	63.21		
				998.57	172
AU17	512	124	1.43		
AU17+	12842	5746	64.64		
RCH42	12455	5745	64.64		
				998.52	173
AU18	1174	424	4.35		
RCH43	1146	424	4.35		
				993.3	169
AU19A	1071	339	3.64		

AU19A+	2140	762	7.99		
RCH44	1992	761	7.99	995.5	169
AU19B	1552	599	6.48		
AU19B+	14217	7104	79.11		
MA1	1404	352	3.61		
DTN	1406	352	3.61	102.41	167
RCH1	1342	352	3.61	991.97	167
MA2A	983	175	1.74		
DTN	980	175	1.74	102.29	166
MA2B	1000	190	1.86		
DTN	997	190	1.86	102.29	166
MA2B+	2958	716	7.21		
RCH2	2076	716	7.21	996.26	168
MA2C	804	206	2.31		
MA2C+	2847	921	9.52		
RCH3	2060	918	9.52	995.7	169
MA3	974	371	4.2		
MA3+	3033	1289	13.72		
RCH4	2716	1287	13.72	996.6	171
MA4	1108	231	2.34		
DTN	1105	231	2.34	102.32	166
RCH5	644	227	2.34	994.97	168
MA5	1517	653	6.79		
MA5+	4619	2167	22.85		
RCH6	4118	2158	22.85	996.82	171
MA6A	1167	474	5.14		

RCH7	981	473	5.14	995.63	171
MA6B	1014	349	3.77		
MA6+	5666	2975	31.76		
CO1	1755	599	8.14		
RCH1	1698	599	8.14	958.06	168
CO2A	948	174	2.19		
DTN	944	174	2.19	102.28	166
RCH2	865	174	2.19	954.99	167
CO2B	948	165	1.76		
CO2B+	1808	339	3.95		
RCH3	1676	339	3.95	957.55	167
CO2C	1126	264	3.51		
CO2C+	4183	1199	15.6		
CO3A	1017	315	4.28		
CO3B	641	119	1.63		
CO2B+	1552	434	5.91		
RCH4	1561	434	5.91	956.91	167
CO3C	137	22	0.3		
CO3C+	1652	456	6.21		
RCH5	1644	456	6.21	957.1	167
CO4	725	224	3.09		
CO4+	2357	679	9.3		
CO4@D+	6539	1879	24.9		
RCH6	6501	1879	24.9	950.69	167
CO5	1528	351	4.82		
CO6A	596	115	1.37		
DTN	594	115	1.37		

				102.17	166
RCH7	571	115	1.37		
				942.88	167
CO6B	497	131	1.58		
CO6B+	9096	2475	32.67		
RCH8	8229	2475	32.67		
				964.21	168
CO7	1121	310	3.76		
CO7+	9280	2784	36.43		
RCH9	9435	2784	36.43		
				903.76	168
CO8	2514	793	9.63		
CO8+	11949	3576	46.06		
RCH10	10939	3576	46.06		
				999.64	169
CO9A	1083	274	3.32		
CO9+	11800	3849	49.38		
RCH11	11087	3847	49.38		
				999	169
CO9B	419	137	1.66		
CO9C	965	366	4.46		
CO9C+	12432	4350	55.5		
CO10A	838	200	2.24		
RCH12	748	200	2.24		
				957.92	167
CO10B	1067	260	2.92		
CO10C	1019	319	3.59		
CO10C+	2801	779	8.75		
RCH13	2409	779	8.75		
				992.08	168
CO10D	2486	869	9.81		
CO10D+	4895	1647	18.56		
RCH14	4748	1647	18.56		
				992.89	169
CO10E	1368	323	3.64		

CO10E+	5592	1970	22.2		
RCH15	4945	1967	22.2	997.59	169
CO11	595	225	2.75		
CO11+	5539	2192	24.95		
CO@DOT	17971	6542	80.45		
RCH16	17713	6541	80.45	1001.5	169
CO12	507	157	1.91		
CO12+	18110	6698	82.36		
RCH17	17728	6696	82.36	1000.5	170
CO13	1411	535	6.41		
DTN	1412	535	6.41	102.41	169
CO13+	18935	7230	88.77		
DTN	18936	7230	88.77	102.56	170
RCH18	15240	7185	88.77	1001.03	172
CO14	702	311	3.66		
CO14+	15790	7495	92.43		
RCH19	14125	7355	92.43	998.36	174
CO15	666	219	2.53		
CO16A	1091	461	4.9		
CO15+	14781	7981	99.86		
RCH20	14150	7876	99.86	998.36	175
CO16B	808	254	2.67		
CO16C	1510	727	7.9		
RCH21	1402	725	7.9	995.18	172
CO16D	465	174	1.84		
CO16D+	15364	8919	112.27		
CC	46698	25551	292.12		

POND	26192	21932	292.12

TABLE C-4

STORM: 24-HOUR 100 YEAR STORM (UNIFORM OVER WATERSHED)
REMARKS: FUTURE LAND USE, NO MITIGATION

STATION	MAX FLOW CFS	AVG 24-HR CFS	AREA SQ MI	MAX STAGE FT	TIME HR
CU1	345	155	1.75		
RCH1	317	153	1.75		
				988.92	18
CU2A	555	247	2.78		
CU2B	555	242	2.71		
CU2A+	1408	639	7.24		
RCH2	1306	637	7.24		
				991.67	18
CU2C	182	63	0.69		
CU3	808	338	3.79		
CU3+	2117	1034	11.72		
RCH3	1821	1029	11.72		
				996.82	19
CU4	775	300	3.58		
CU5	90	24	0.28		
CU5+	2343	1344	15.58		
RCH4	2312	1343	15.58		
				996.91	19
CU6	252	74	0.87		
CU6+	2383	1412	16.45		
PL1A	224	57	0.66		
RCH1	224	57	0.66		
				992.1	15
PL1B	296	78	0.86		
DTN	294	78	0.86		
				102.09	14
PL1B+	500	135	1.52		
RCH2	528	134	1.52		
				994.06	15
PL1C	286	77	0.9		

PL1C+	814	212	2.42		
RCH3	686	210	2.42	995.52	15
PL1D	899	262	2.51		
DTN	895	262	2.51	102.26	14
PL1D+	1526	471	4.93		
SUN	1209	471	4.93	139.19	16
PL2A	64	18	0.18		
DTN	64	18	0.18	102.02	14
PL2A+	1235	489	5.11		
RCH4	1220	489	5.11	993.33	16
PL2B	54	16	0.15		
PL2C	85	24	0.24		
PL2C+	139	40	0.39		
DTN	138	40	0.39	102.04	14
RCH5	122	39	0.39	993.39	15
PL2D	239	73	0.87		
PL2E	44	11	0.13		
PL2F	34	9	0.1		
PL2F+	78	20	0.23		
DTN	77	20	0.23	102.02	14
RCH6	69	19	0.23	992.31	15
PL2G	390	118	1.07		
DTN	388	118	1.07	102.11	14
PL2D+	1847	738	7.67		
RCH7	1800	738	7.67	997.41	16
PL2H	91	28	0.25		

DTN	91	28	0.25		
				102.03	14
PL2H+	1839	765	7.92		
PL3	201	54	0.58		
EXIST	200	54	0.58		
				194.1	15
RCH8	192	54	0.58		
				993.96	15
PL4A	119	31	0.35		
PL4A+	303	85	0.93		
RCH9	287	84	0.93		
				994.33	15
PL4B	265	79	0.73		
DTN	263	79	0.73		
				102.08	14
PL4C	228	61	0.72		
PL4C+	762	224	2.38		
NORTH	764	224	2.38		
				102.22	15
RCH10	724	224	2.38		
				996.39	15
PL4D	138	37	0.4		
PL4D+	852	260	2.78		
RCH11	782	260	2.78		
				996.49	15
PL4E	204	62	0.56		
DTN	203	62	0.56		
				102.06	14
PL4E+	973	321	3.34		
PL4+	2808	1086	11.26		
RCH12	2733	1084	11.26		
				998.41	16
PL5A	150	46	0.41		
DTN	149	46	0.41		
				102.04	14
PL5B	180	48	0.52		

RCH13	155	48	0.52		
				993.81	15
PL5C	594	178	1.64		
DTN	591	178	1.64		
				102.17	14
PL5C+	3265	1352	13.83		
RCH14	3234	1352	13.83		
				997.66	16
PL5D	66	20	0.18		
PL5E	110	34	0.3		
PL5E+	176	54	0.48		
RCH15	174	53	0.48		
				993.9	15
PL5F	167	50	0.46		
PL5F+	3525	1455	14.77		
RCH16	3172	1449	14.77		
				998.45	16
PL5G	577	162	1.76		
DTN	579	162	1.76		
				102.17	15
PL5G+	3516	1607	16.53		
PL6A	497	149	1.37		
DTN	494	149	1.37		
				102.15	14
RCH17	498	148	1.37		
				994.85	15
PL6B	502	146	1.54		
DTN	505	146	1.54		
				102.15	15
PL6C	154	42	0.44		
PL6C+	1145	336	3.35		
RCH18	985	334	3.35		
				995.91	15
PL7A	297	88	0.91		
DTN	298	88	0.91		
				102.09	15
PL7B	287	86	0.79		

DTN	285	86	0.79		
				102.08	14
PL7B+	1551	507	5.05		
RCH19	1297	503	5.05		
				996.35	16
PL7C	397	119	1.25		
DTN	398	119	1.25		
				102.12	15
PL7C+	1590	621	6.3		
PL@SB	5080	2228	22.83		
RCH20	5075	2228	22.83		
				997.4	16
PL8A	397	118	1.19		
DTN	398	118	1.19		
				102.12	15
RCH21	373	117	1.19		
				994.36	15
PL8B	204	56	0.58		
DTN	202	56	0.58		
				102.06	14
RCH22	199	56	0.58		
				992.96	15
PL8C	281	86	1		
DTN	281	86	1		
				102.08	15
PL8C+	853	259	2.77		
RCH23	763	258	2.77		
				996.2	16
PL8D	122	34	0.35		
DTN	122	34	0.35		
				102.04	14
RCH24	123	33	0.35		
				991.24	15
PL8E	180	46	0.53		
PL8E+	1036	337	3.65		
RCH25	954	336	3.65		
				996.35	16

PL8F	115	31	0.36		
PL8F+	1014	366	4.01		
RCH26	978	366	4.01	995.63	16
PL9	201	61	0.72		
PL9+	6213	2655	27.56		
RCH27	6041	2653	27.56	993.89	17
PL10A	251	86	0.95		
PL10B	233	86	0.95		
PL10B+	6462	2824	29.46		
RCH28	6039	2815	29.46	993.89	17
PL10C	630	179	1.94		
PL10D	932	482	5.62		
DTN	932	482	5.62	102.27	18
PL10D+	7135	3459	37.02		
DTN	7135	3459	37.02	102.21	17
RCH29	7159	3456	37.02	994.48	18
PL10E	114	32	0.35		
PL11	755	349	3.97		
PL11+	7885	3836	41.34		
RCH30	7619	3835	41.34	997.83	18
PL12	462	152	1.67		
PL12+	7816	3981	43.01		
RCH31	7467	3976	43.01	998.01	19
PL13	441	174	1.93		
PL13+	7714	4147	44.94		
RCH32	7455	4142	44.94	998.01	20
PL14	409	150	1.66		

PL14+	7600	4285	46.6		
TR1A	543	220	2.64		
RCH1	518	219	2.64	991.29	17
TR1B	695	273	3.29		
TR1+	1175	491	5.93		
AU1A	497	109	1.57		
DTN	494	109	1.57	102.15	14
RCH1	495	109	1.57	892.58	15
AU1B	104	31	0.29		
DTN	103	31	0.29	102.03	14
AU1B+	592	140	1.86		
RCH2	614	140	1.86	892.47	15
AU2A	570	155	1.66		
DTN	567	155	1.66	102.17	14
AU2A+	1144	295	3.52		
RCH2	1177	295	3.52	893.92	15
AU2B	176	27	0.61		
AU2C	172	31	0.63		
AU2C+	1509	353	4.76		
RCH3	1538	353	4.76	950.91	15
AU3A	62	14	0.19		
DTN	61	14	0.19	102.02	14
RCH4	61	14	0.19	981.1	15
AU3B	270	71	0.79		
DTN	268	71	0.79	102.08	14

RCH5	268	71	0.79		
				982.45	15
AU3C	363	66	1.23		
AU3C+	671	150	2.21		
RCH6	702	150	2.21		
				985.67	15
AU3D	809	152	2.91		
AU3D+	3049	655	9.88		
RCH7	3080	654	9.88		
				953.92	15
AU3E	288	58	0.92		
DTN	287	58	0.92		
				102.08	14
AU3E+	3347	713	10.8		
RCH8	3382	713	10.8		
				953.24	15
AU3F	173	30	0.58		
AU3F+	3542	742	11.38		
RCH9	3566	743	11.38		
				959.43	15
AU4A	581	120	2.37		
AU4A+	4147	863	13.75		
RCH10	4087	862	13.75		
				959.58	15
AU4B	200	36	0.75		
AU4C	94	18	0.4		
AU4C+	4381	917	14.9		
RCH11	4325	916	14.9		
				959.43	15
AU4D	266	56	1.21		
AU4D+	4591	972	16.11		
RCH12	4549	972	16.11		
				972.79	15
AU5A	324	66	1.13		
DTN	326	66	1.13		
				102.1	15

RCH13	350	66	1.13		
				962.66	15
AU5B	150	35	0.46		
DTN	150	35	0.46		
				102.04	14
AU5B+	490	101	1.59		
RCH14	453	101	1.59		
				962.81	15
AU5C	451	111	2.41		
DUTCH	866	212	4		
AU6	98	17	0.36		
AU6+	5513	1200	20.47		
RCH15	5044	1200	20.47		
				972.84	16
AU7	879	185	4.01		
AU7+	5900	1384	24.48		
RCH16	5952	1382	24.48		
				966.07	16
AU8	1283	329	7.15		
AU8+	7235	1711	31.63		
RCH17	7049	1711	31.63		
				994.83	16
AU9A	160	30	0.57		
AU9A+	7137	1741	32.2		
RCH18	6674	1739	32.2		
				994.4	17
AU9B	212	45	0.79		
AU9B+	6755	1783	32.99		
RCH19	6264	1783	32.99		
				994.58	17
AU10A	351	74	1.1		
DTN	349	74	1.1		
				102.1	14
AU10A+	6339	1854	34.09		
RCH20	5929	1852	34.09		
				994.48	18

DTN	89	26	0.25		
				102.03	14
RCH36	60	24	0.25		
				981.93	16
AU15D	182	52	0.57		
DTN	182	52	0.57		
				102.05	15
RCH37	142	51	0.57		
				983.24	16
AU15E	714	264	2.92		
DTN	715	264	2.92		
				102.21	16
AU15E+	4417	1810	19.35		
RCH38	4039	1806	19.35		
				992.41	17
AU16A	684	194	3.19		
AU16A+	9960	3905	57.96		
RCH39	9695	3905	57.96		
				999.09	19
AU16B	355	97	1.59		
AU16B+	9808	4001	59.55		
DTN	9808	4001	59.55		
				102.29	19
RCH40	8090	3947	59.55		
				997.82	20
AU16C	564	217	3.66		
AU16C+	8460	4164	63.21		
RCH41	7907	4137	63.21		
				997.79	22
AU17	337	87	1.43		
AU17+	7943	4217	64.64		
RCH42	7701	4197	64.64		
				997.75	23
AU18	822	382	4.35		
RCH43	791	381	4.35		
				991.87	18
AU19A	730	282	3.64		

AU19A+	1454	660	7.99		
RCH44	1438	659	7.99	994.3	17
AU19B	1043	487	6.48		
AU19B+	9042	5317	79.11		
MA1	972	320	3.61		
DTN	972	320	3.61	102.29	15
RCH1	905	318	3.61	990.67	16
MA2A	605	164	1.74		
DTN	602	164	1.74	102.18	14
MA2B	612	180	1.86		
DTN	613	180	1.86	102.18	15
MA2B+	2033	658	7.21		
RCH2	1578	653	7.21	995.65	16
MA2C	517	156	2.31		
MA2C+	2095	808	9.52		
RCH3	1703	793	9.52	995.31	18
MA3	645	272	4.2		
MA3+	2347	1064	13.72		
RCH4	2027	1061	13.72	996.32	19
MA4	762	208	2.34		
DTN	764	208	2.34	102.22	15
RCH5	478	194	2.34	994.16	16
MA5	1084	577	6.79		
MA5+	3382	1831	22.85		
RCH6	3012	1787	22.85	996.58	21
MA6A	797	385	5.14		

RCH28	610	197	1.98		
				996.87	15
AU13D	90	24	0.26		
AU13D+	2533	897	9.37		
RCH29	2170	891	9.37		
				991.74	16
AU14A	114	32	0.35		
RCH30	99	32	0.35		
				981.8	15
AU14B	393	156	1.73		
RCH31	370	155	1.73		
				983.86	16
AU14C	270	75	0.77		
DTN	268	75	0.77		
				102.08	14
AU14D	282	82	0.89		
RCH32	266	81	0.89		
				983.13	15
AU14E	218	66	0.67		
DTN	218	66	0.67		
				102.06	15
AU14E+	484	147	1.56		
RCH33	481	147	1.56		
				985.48	15
AU14C+	1125	405	4.41		
RCH34	987	402	4.41		
				991	16
AU15A	451	135	1.35		
DTN	453	135	1.35		
				102.13	15
AU15A+	1354	534	5.76		
RCH35	1259	532	5.76		
				991.88	16
AU15B	172	50	0.48		
DTN	171	50	0.48		
				102.05	14
AU15C	89	26	0.25		

AU10B	227	67	1.33		
AU10B+	6092	1919	35.42		
RCH21	5828	1919	35.42	994.14	19
AU11A	697	226	2.47		
RCH22	615	224	2.47	990.68	16
AU11B	519	167	1.52		
DTN	522	167	1.52	102.15	15
AU11+	1103	389	3.99		
AU12A	70	20	0.2		
DTN	70	20	0.2	102.02	14
RCH23	63	19	0.2	978.59	15
AU12B	640	233	2.57		
RCH24	654	233	2.57	983.29	16
AU12C	130	36	0.37		
DTN	129	36	0.37	102.04	14
AU12C+	1867	676	7.13		
RCH25	1839	676	7.13	986.54	15
AU13A	149	43	0.46		
RCH26	157	43	0.46	994.21	15
AU13B	241	73	0.79		
DTN	241	73	0.79	102.07	15
RCH27	234	73	0.79	995.08	15
AU13C	268	82	0.73		
DTN	266	82	0.73	102.08	14
AU13C+	642	197	1.98		

RCH7	709	384	5.14		
				995.37	19
MA6B	684	287	3.77		
MA6+	4098	2443	31.76		
CO1	957	304	8.14		
RCH1	956	303	8.14		
				956.04	17
CO2A	576	104	2.19		
DTN	579	104	2.19		
				102.17	15
RCH2	598	104	2.19		
				953.98	15
CO2B	566	139	1.76		
CO2B+	1119	243	3.95		
RCH3	1136	242	3.95		
				956.19	15
CO2C	703	137	3.51		
CO2C+	2355	675	15.6		
CO3A	593	150	4.28		
CO3B	394	55	1.63		
CO3B+	876	205	5.91		
RCH4	864	205	5.91		
				955.3	15
CO3C	74	10	0.3		
CO3C+	936	215	6.21		
RCH5	893	215	6.21		
				955.37	16
CO4	419	101	3.09		
CO4+	1312	315	9.3		
CO4@D+	3535	989	24.9		
RCH6	3575	989	24.9		
				948.17	16
CO5	955	162	4.82		
CO6A	386	74	1.37		
DTN	387	74	1.37		

				102.11	15
RCH7	374	74	1.37		
				941.89	15
CO6B	314	80	1.58		
CO6B+	4899	1303	32.67		
RCH8	4928	1302	32.67		
				961.96	16
CO7	720	188	3.76		
CO7+	5648	1490	36.43		
RCH9	5241	1488	36.43		
				900.63	16
CO8	1546	480	9.63		
CO8+	6787	1968	46.06		
RCH10	6534	1967	46.06		
				998.26	17
CO9A	675	166	3.32		
CO9+	7034	2133	49.38		
RCH11	6390	2131	49.38		
				997.55	18
CO9B	259	83	1.66		
CO9C	602	220	4.46		
CO9C+	7189	2433	55.5		
CO10A	576	154	2.24		
RCH12	505	152	2.24		
				956.43	16
CO10B	711	197	2.92		
CO10C	682	239	3.59		
CO10C+	1802	587	8.75		
RCH13	1600	585	8.75		
				991.23	17
CO10D	1638	642	9.81		
CO10D+	3238	1226	18.56		
RCH14	3235	1226	18.56		
				991.46	17
CO10E	946	244	3.64		

CO10E+	3713	1464	22.2		
RCH15	3356	1458	22.2	996.53	18
CO11	371	135	2.75		
CO11+	3711	1593	24.95		
CO@DOT	10900	4024	80.45		
RCH16	10849	4024	80.45	999.73	18
CO12	327	95	1.91		
CO12+	11080	4119	82.36		
RCH17	10746	4118	82.36	999.05	19
CO13	896	337	6.41		
DTN	896	337	6.41	102.26	17
CO13+	11478	4455	88.77		
DTN	11478	4455	88.77	102.34	19
RCH18	8878	4407	88.77	999.32	21
CO14	451	212	3.66		
CO14+	9246	4618	92.43		
RCH19	8038	4517	92.43	997.57	23
CO15	426	152	2.53		
CO16A	763	391	4.9		
CO15+	8620	5014	99.86		
RCH20	8157	4941	99.86	997.59	25
CO16B	566	222	2.67		
CO16C	1076	610	7.9		
RCH21	1060	609	7.9	994.18	20
CO16D	324	149	1.84		
CO16D+	9116	5817	112.27		
CC	30682	19263	292.12		

POND	20740	17373	292.12

Table C-5
Historical to Existing Land Use Impact

	LOCATION	STAGE CHANGE (FT) 24-HR 2-YR	24-HR 10-YR	24-HR 25-YR	24-HR 100-YR	8-DAY 100-YR
CURRY CREEK						
	CU1	0	0	0	0	0
	CU2A+	0	0	0	0	0.01
BREWER RD	CU3+	0	0	0	0	0
	CU5+	0	0	0	0	0
PLEASANT GROVE CREEK						
	PL1A	0	0	0	0	0
	PL1B+	0	0	0	0	0
	PL1C+	0	0	0	0	0
	PL2A+	0.02	0.02	0.02	0.02	0.01
	PL2C+	0.02	0.02	0.01	0.01	0.01
	PL2F+	0	0	0	0	0
	PL2D+	0.02	0.01	0.01	0.01	0
	PL3	0.15	0.13	0.17	0.15	0.1
HW 65	PL4A+	0.15	0.12	0.11	0.12	0.13
	PL4C+	0.09	0.04	0.04	0.04	0.04
	PL4D+	0.05	0.03	0.03	0.03	0.03
	PL4+	0.05	0.03	0.03	0.03	0.02
	PL5B	0	0	0	0	0
	PL5C+	0.05	0.06	0.04	0.03	0.02
	PL5E+	0.07	0.05	0.05	0.05	0.02
	PL5F+	0.05	0.05	0.04	0.03	0.04
	PL6A	0.03	0.02	0.02	0.01	0.01
SOUTH BRANCH @ HW 65	PL6C+	0.21	0.25	0.21	0.13	0.18
	PL7B+	0.38	0.22	0.16	0.19	0.13
FIDDYMENT RD	PL7C+	0.25	0.08	0.08	0.07	0.08
	PL8A	0.31	0.32	0.36	0.38	0.46
	PL8B	0	0	0	0.01	0
	PL8C	0.22	0.17	0.15	0.12	0.15
	PL8D	0	0	0	0	0
	PL8E+	0.23	0.12	0.14	0.1	0.09
	PL8F+	0.21	0.16	0.13	0.09	0.08
	PL9+	0.15	0.12	0.1	0.11	0.05
	PL10B+	0.14	0.09	0.08	0.09	0.07
	PL10D+	0.11	0.08	0.09	0.07	0.08
PETTIGREW RD	PL11+	0.08	0.04	0.05	0.03	0.03
BREWER RD	PL12+	0.08	0.04	0.03	0.03	0.03
	PL13+	0.08	0.04	0.03	0.03	0.03
	TR1A	0	0.01	0	0	0.01
AUBURN RAVINE						
HW 49	AU1A	0.26	0.3	0.31	0.36	0.78
	AU1B+	0.28	0.33	0.35	0.4	0.48
	AU2A+	0.41	0.45	0.47	0.52	1.01
	AU2C+	0.43	0.42	0.44	0.5	0.71
	AU3A	0.12	0.11	0.12	0.08	0.06
	AU3B	0.19	0.18	0.2	0.16	0.47
	AU3C+	0.77	0.74	0.71	0.76	0.45
	AU3D+	1.08	0.86	0.97	1.11	1.06
	AU3E+	0.92	0.89	0.84	0.94	0.83
OPHIR	AU3F+	1.18	0.93	1.03	0.88	0.57
	AU4A+	1.03	0.92	0.99	0.8	0.69
	AU4C+	0.79	0.84	0.9	0.8	0.73
	AU4D+	0.76	1.11	1.21	1.29	1.03
	AU5A	0.35	0.49	0.51	0.35	0.31
	AU5B+	0.22	0.3	0.29	0.23	0.48
	AU6+	0.89	0.68	0.64	0.6	1.36
	AU7+	1.02	0.72	0.75	0.59	0.4
	AU8+	0.43	0.4	0.35	0.31	0.26
	AU9A+	0.54	0.32	0.26	0.23	0.29

Table C-5
Historical to Existing Land Use Impact
(Continued)

	LOCATION	STAGE CHANGE (FT) 24-HR 2-YR	24-HR 10-YR	24-HR 25-YR	24-HR 100-YR	8-DAY 100-YR
HW 65	AU9B+	0.24	0.18	0.14	0.19	0.16
	AU10A+	0.25	0.15	0.2	0.19	0.14
MOORE RD	AU10B+	0.27	0.2	0.16	0.11	0.11
	AU11A	0	0	0	0	0
	AU12A	0	0	0	0	0
	AU12B	0	0	0	0	0
	AU12C+	0.01	0	0	0.01	0
	AU13A	0	0	0.01	0	0
	AU13B	0	0	0	0	0
	AU13C+	0.02	0.02	0.01	0	0.01
	AU13D+	0.01	0.01	0.01	0.01	0
	AU14A	0	0	0	0	0
	AU14B	0	0	0	0	0
	AU14D	0	0	0	0	0
	AU14E+	0.01	0	0	0	0
	AU14C+	0	0	0	0	0
	AU15A+	0.01	0	0	0	0
	AU15C	0	0	0	0	0
	AU15D	0.01	0	0	0	0
	AU15E+	0.01	0	0	0	0
	AU16A+	0.2	0.14	0.15	0.11	0.09
	AU16B+	0.14	0.09	0.08	0.05	0.05
BREWER RD	AU16C+	0.14	0.11	0.07	0.06	0.05
	AU17+	0.14	0.1	0.07	0.07	0.05
	AU18	0	0	0	0	0
	AU19A+	0.01	0	0	0	0
MARKHAM RAVINE						
HW 65	MA1	0.03	0.02	0.02	0.01	0.01
NELSON RD	MA2B+	0.25	0.19	0.17	0.08	0.05
	MA2C+	0.26	0.21	0.19	0.13	0.04
BREWER RD	MA3+	0.13	0.05	0.03	0.02	0.01
	MA4	0.18	0.13	0.13	0.1	0.06
	MA5+	0.04	0.02	0.02	0.02	0.01
	MA6A	0.01	0.01	0.01	0	0
COON CREEK						
DRY CR AT HW 49	CO1	0.18	0.36	0.48	0.4	0.38
	CO2A	0.12	0.12	0.06	0.04	0.05
	CO2B+	0.55	0.69	0.85	0.7	0.5
	CO2B+	0.42	0.46	0.58	0.63	0.51
	CO3C+	0.42	0.31	0.38	0.51	0.55
DRY/ORR CONFLUENCE	CO4+	0.45	0.55	0.42	0.43	0.44
	CO6A	0	0	0	0	0.01
	CO6B+	0.68	0.69	0.71	0.45	0.23
	CO7+	0.71	0.34	0.35	0.44	0.39
	CO8+	0.55	0.32	0.24	0.22	0.1
	CO9+	0.42	0.26	0.2	0.19	0.14
	CO10A	0	0.01	0.01	0.01	0
	CO10C+	0.01	0	0.01	0	0
	CO10D+	0.01	0.01	0.01	0	0
	CO10E+	0.02	0.01	0	0	0
	CO11+	0.2	0.11	0.09	0.11	0.15
HW 65	CO12+	0.2	0.12	0.09	0.09	0.1
	CO13+	0.11	0.1	0.09	0.09	0.08
BREWER RD	CO14+	0.06	0.04	0.02	0.04	0.03
	CO15+	0.05	0.04	0.03	0.04	0.03
	CO16C	0.01	0.01	0.01	0	0.01
CROSS CANAL	CC	0	0.04	0.04	0.04	0.05

Table C-6
Existing to Future Land Use Impacts

	LOCATION	STAGE CHANGE (FT) 24-HR 2-YR	24-HR 10-YR	24-HR 25-YR	24-HR 100-YR	8-DAY 100-YR
CURRY CREEK						
	CU1	0.01	0.01	0.02	0.01	0.01
	CU2A+	0.02	0.01	0.01	0	0
BREWER RD	CU3+	0.01	0.01	0	0.01	0
	CU5+	0.01	0	0	0.01	0
PLEASANT GROVE CREEK						
	PL1A	0.01	0.01	0.01	0.01	0.01
	PL1B+	0.05	0.04	0.04	0.04	0.07
	PL1C+	0.08	0.06	0.06	0.03	0.02
	PL2A+	0.54	0.5	0.5	0.63	0.26
	PL2C+	0.14	0.1	0.11	0.09	0.06
	PL2F+	0	0	0	0	0
	PL2D+	0.3	0.22	0.22	0.22	0.31
	PL3	0.01	0	0	0	0
HW 65	PL4A+	0.01	0.01	0.01	0.01	0
	PL4C+	0.22	0.16	0.13	0.12	0.07
	PL4D+	0.14	0.12	0.13	0.08	0.11
	PL4+	0.42	0.32	0.33	0.3	0.21
	PL5B	0.11	0.09	0.08	0.06	0.06
	PL5C+	0.42	0.28	0.23	0.2	0.29
	PL5E+	0.2	0.17	0.16	0.13	0.14
	PL5F+	0.49	0.32	0.28	0.26	0.29
	PL6A	0.55	0.54	0.52	0.52	0.27
SOUTH BRANCH @ HW 65	PL6C+	0.73	0.59	0.45	0.29	0.28
	PL7B+	0.57	0.34	0.24	0.21	0.13
FIDDYMENT RD	PL7C+	0.74	0.52	0.4	0.3	0.22
	PL8A	0.27	0.24	0.24	0.24	0.18
	PL8B	0.33	0.31	0.34	0.34	0.2
	PL8C	0.28	0.2	0.12	0.08	0.17
	PL8D	0.05	0.05	0.04	0.04	0.04
	PL8E+	0.27	0.14	0.13	0.11	0.11
	PL8F+	0.24	0.16	0.15	0.1	0.09
	PL9+	0.71	0.44	0.31	0.26	0.36
	PL10B+	0.58	0.45	0.31	0.26	0.27
	PL10D+	0.47	0.27	0.3	0.28	0.32
PETTIGREW RD	PL11+	0.34	0.2	0.14	0.14	0.11
BREWER RD	PL12+	0.35	0.21	0.13	0.15	0.16
	PL13+	0.32	0.2	0.13	0.15	0.15
	TR1A	0.02	0.01	0.01	0.01	0
AUBURN RAVINE						
HW 49	AU1A	0.1	0.11	0.1	0.1	0.11
	AU1B+	0.13	0.12	0.12	0.12	0.13
	AU2A+	0.29	0.3	0.3	0.3	0.28
	AU2C+	0.25	0.26	0.26	0.22	0.17
	AU3A	0	0	0	0	0
	AU3B	0.14	0.16	0.14	0.1	0.07
	AU3C+	0.21	0.16	0.16	0.13	0.12
	AU3D+	0.4	0.28	0.27	0.2	0.19
	AU3E+	0.34	0.26	0.24	0.24	0.16
OPHIR	AU3F+	0.29	0.27	0.25	0.17	0.16
	AU4A+	0.34	0.27	0.25	0.18	0.11
	AU4C+	0.42	0.26	0.25	0.17	0.09
	AU4D+	0.53	0.35	0.3	0.29	0.18
	AU5A	0.24	0.28	0.16	0.14	0.2
	AU5B+	0.27	0.3	0.22	0.24	0.21
	AU6+	0.43	0.38	0.29	0.24	0.25
	AU7+	0.51	0.29	0.23	0.21	0.19
	AU8+	0.26	0.18	0.14	0.12	0.07
	AU9A+	0.26	0.16	0.12	0.09	0.09
HW 65	AU9B+	0.16	0.12	0.09	0.09	0.04
	AU10A+	0.17	0.14	0.11	0.1	0.04
MOORE RD	AU10B+	0.19	0.12	0.12	0.06	0.03
	AU11A	0.02	0.01	0.01	0.01	0
	AU12A	0.08	0.04	0.04	0.04	0.02
	AU12B	0.01	0.01	0.01	0.01	0
	AU12C+	0.11	0.13	0.11	0.12	0.29

Table C-6
Existing to Future Land Use Impacts
(Continued)

LOCATION		STAGE CHANGE (FT) 24-HR 2-YR	24-HR 10-YR	24-HR 25-YR	24-HR 100-YR	8-DAY 100-YR
	AU13A	0.01	0.01	0.01	0.01	0.01
	AU13B	0.03	0.02	0.02	0.01	0.01
	AU13C+	0.17	0.15	0.13	0.14	0.06
	AU13D+	0.39	0.18	0.19	0.1	0.07
	AU14A	0.01	0	0	0	0
	AU14B	0.01	0.02	0.01	0.01	0.01
	AU14D	0.01	0	0	0	0
	AU14E+	0.05	0.04	0.04	0.03	0.02
	AU14C+	0.11	0.05	0.06	0.05	0
	AU15A+	0.1	0.09	0.09	0.06	0.06
	AU15C	0.11	0.09	0.08	0.07	0.05
	AU15D	0.01	0.01	0.01	0.01	0.01
	AU15E+	0.17	0.16	0.11	0.13	0.06
	AU16A+	0.12	0.08	0.06	0.04	0
	AU16B+	0.1	0.07	0.08	0.07	0.04
BREWER RD	AU16C+	0.11	0.09	0.09	0.06	0.04
	AU17+	0.13	0.12	0.09	0.06	0.03
	AU18	0.02	0.01	0.01	0.01	0.01
	AU19A+	0.02	0.02	0.02	0.02	0.01
MARKHAM RAVINE						
HW 65	MA1	0.51	0.53	0.58	0.62	0.71
NELSON RD	MA2B+	1.3	1.17	1.03	0.37	0.26
	MA2C+	1.15	1.01	0.85	0.34	0.17
BREWER RD	MA3+	0.34	0.18	0.1	0.08	0.05
	MA4	0.96	0.99	1	1.02	0.66
	MA5+	0.16	0.09	0.09	0.07	0.04
	MA6A	0.03	0.02	0	0	0
COON CREEK						
DRY CR AT HW 49	CO1	0.39	0.46	0.48	0.27	0.16
	CO2A	0.8	0.46	0.46	0.48	0.44
	CO2B+	0.54	0.69	0.63	0.53	0.55
	CO2B+	0.09	0.09	0.09	0.06	0.05
	CO3C+	0.1	0.09	0.1	0.06	0.05
DRY/ORR CONFLUENCE	CO4+	0.44	0.56	0.33	0.32	0.27
	CO6A	0.04	0.03	0.04	0.04	0.03
	CO6B+	0.68	0.51	0.34	0.32	0.16
	CO7+	0.85	0.35	0.43	0.41	0.22
	CO8+	0.64	0.3	0.2	0.16	0.08
	CO9+	0.53	0.3	0.2	0.16	0.08
	CO10A	0.08	0.06	0.03	0.03	0.03
	CO10C+	0.08	0.02	0.03	0.01	0.01
	CO10D+	0.08	0.04	0.05	0.04	0.02
	CO10E+	0.1	0.06	0.04	0.02	0.01
	CO11+	0.22	0.12	0.11	0.1	0.09
HW 65	CO12+	0.34	0.13	0.11	0.1	0.07
	CO13+	0.2	0.14	0.13	0.11	0.07
BREWER RD	CO14+	0.12	0.09	0.06	0.06	0.03
	CO15+	0.12	0.08	0.06	0.06	0.03
	CO16C	0.03	0.02	0.02	0.02	0
CROSS CANAL	CC	0.08	0.1	0.12	0.12	0.08