Attachment A: Detailed Water Balance Summaries for Each Model Scenario

Table 1C-A1: Seasonal Results for Scenar All Figures in acre-feet per quarter, averaged over 20 years of simulation

Table 1C-A1: Summary of results from Base Case scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. The "resaturation simulation" was run to compare the Surface Recharge - Scotts Valley scenario to a base case.

		Primary Base Case					Bean Creek Base Case				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,023	287	982	2,583	4,875	536	32	622	2,163	3,353
	Groundwater Inflow	423	412	420	429	1,684	423	413	420	429	1,685
	Directed Recharge	21	21	21	21	85	21	21	21	21	85
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	128	162	188	627	152	129	163	188	632
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	708	188	181	184	190	743
	Recharge	3,763	6,457	4,049	1,826	16,095	3,763	6,457	4,048	1,826	16,094
	Stream Losses	909	1,090	733	416	3,147	905	1,095	729	422	3,151
Outflows	To Storage	865	2,484	333	99	3,781	791	2,421	330	73	3,614
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	888	559	913	1,136	3,496	554	433	588	763	2,338
	Springs	1,107	1,325	1,200	1,046	4,677	1,108	1,327	1,200	1,042	4,677
	River Gains	1,059	1,253	1,110	942	4,365	1,057	1,255	1,114	946	4,373
	Evapotranspiration	327	385	673	406	1,791	324	384	677	410	1,795
	Head-Dep Bdy Outflow	334	342	329	304	1,309	333	343	342	329	1,347
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,887	2,217	1,986	1,716	7,806	1,821	2,163	1,938	1,679	7,601

Table 1C-A2: Summary of results from Surface Recharge: South Hanson Quarry scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,016	276	984	2,800	5,076	-7	-11	2	217	201
	Groundwater Inflow	423	412	419	429	1,684	0	0	0	0	-1
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	188	626	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	707	0	0	0	0	-1
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	907	1,083	733	416	3,139	-2	-7	0	0	-8
Outflows	To Storage	910	2,744	351	100	4,106	46	260	18	1	325
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	890	564	916	1,139	3,508	2	5	2	2	11
	Springs	1,215	1,450	1,331	1,163	5,159	108	125	131	118	482
	River Gains	1,059	1,254	1,111	943	4,367	1	1	1	1	3
	Evapotranspiration	329	383	677	411	1,800	2	-2	4	5	9
	Head-Dep Bdy Outflow	334	342	330	304	1,310	0	0	0	0	1
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,972	2,311	2,084	1,806	8,173	85	94	98	90	367
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						53	272	17	-215	127
	Change in Surface Water Baseflow						87	101	99	91	378
	Change in Springs and ET discharge						110	123	135	123	491

Table 1C-A3: Summary of results from Surface Recharge: North Hanson Quarry scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,013	282	1,013	2,751	5,059	-10	-5	31	168	184
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	128	162	188	626	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	707	0	0	0	0	0
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	907	1,088	731	415	3,142	-1	-2	-2	-1	-6
Outflows	To Storage	916	2,665	337	100	4,017	51	181	4	1	236
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	889	564	915	1,138	3,506	1	5	2	2	10
	Springs	1,185	1,448	1,316	1,120	5,069	78	123	116	75	392
	River Gains	1,059	1,253	1,110	942	4,365	0	0	0	0	0
	Evapotranspiration	328	386	676	407	1,797	1	1	3	1	6
	Head-Dep Bdy Outflow	334	342	330	304	1,310	0	0	0	0	1
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,995	2,410	2,142	1,803	8,350	108	193	156	87	544
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						61	187	-27	-167	54
	Change in Surface Water Baseflow						109	194	158	88	550
	Change in Springs and ET discharge						78	125	119	76	398

Table 1C-A4+B158: Summary of results from Surface Recharge: Mount Hermon Road scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	996	266	984	2,770	5,016	-27	-21	1	187	140
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	626	0	0	0	0	-1
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	170	174	182	705	-1	-1	-1	-1	-3
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	903	1,083	729	412	3,127	-6	-7	-4	-4	-20
Outflows	To Storage	937	2,786	390	106	4,220	72	303	57	7	439
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	892	567	918	1,141	3,518	4	8	5	5	22
	Springs	1,128	1,348	1,223	1,067	4,766	21	23	23	22	89
	River Gains	1,059	1,253	1,111	943	4,366	0	0	0	0	1
	Evapotranspiration	352	417	739	459	1,966	25	32	66	53	175
	Head-Dep Bdy Outflow	336	343	331	306	1,316	2	1	2	2	7
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,980	2,324	2,087	1,809	8,200	93	107	101	93	394
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						101	326	58	-178	308
	Change in Surface Water Baseflow						99	114	106	98	416
	Change in Springs and ET discharge						46	55	89	75	264

Table 1C-A5+B196: Summary of results from Surface Recharge: Scotts Valley scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,025	287	984	2,600	4,895	2	0	2	17	20
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	42	63	42	21	168	21	42	21	0	83
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	128	162	188	627	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	708	0	0	0	0	0
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	903	1,086	728	409	3,125	-6	-4	-5	-7	-22
Outflows	To Storage	869	2,504	336	100	3,808	4	20	3	0	28
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	888	559	914	1,137	3,498	0	1	0	0	2
	Springs	1,107	1,326	1,201	1,046	4,680	0	1	1	0	3
	River Gains	1,059	1,253	1,110	942	4,365	0	0	0	0	0
	Evapotranspiration	327	385	673	406	1,791	0	0	0	0	0
	Head-Dep Bdy Outflow	334	342	330	304	1,309	0	0	0	0	0
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,899	2,232	2,000	1,724	7,855	12	15	14	8	49
Summary	Enhanced Aquifer Recharge						21	42	21	0	83
	Change in Groundwater Storage						2	21	1	-16	8
	Change in Surface Water Baseflow						18	19	19	15	71
	Change in Springs and ET discharge						0	1	1	0	3

Table 1C-A6: Summary of results from Lompico Injection: South Hanson Quarry scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	972	246	963	2,740	4,921	-50	-41	-20	157	46
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	624	-1	-1	-1	-1	-3
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	177	170	174	182	703	-1	-1	-1	-1	-4
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	905	1,084	731	415	3,135	-4	-6	-2	-1	-13
Outflows	To Storage	942	2,805	419	122	4,288	77	321	86	23	507
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	889	564	915	1,138	3,506	1	5	2	2	10
	Springs	1,150	1,371	1,246	1,090	4,857	43	47	46	44	180
	River Gains	1,062	1,256	1,113	945	4,376	3	3	3	3	11
	Evapotranspiration	345	407	710	434	1,895	17	22	37	28	104
	Head-Dep Bdy Outflow	336	344	332	306	1,319	2	2	2	3	10
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,938	2,290	2,046	1,768	8,042	51	73	60	52	236
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						131	366	109	-130	476
	Change in Surface Water Baseflow						58	82	66	56	262
	Change in Springs and ET discharge						60	69	83	72	284

Table 1C-A7: Summary of results from Lompico Injection: North Hanson Quarry scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	975	244	972	2,736	4,928	-47	-43	-10	153	52
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	126	161	186	621	-1	-1	-1	-1	-5
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	176	168	172	180	697	-3	-3	-3	-3	-11
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	903	1,086	729	415	3,133	-6	-4	-4	-1	-14
Outflows	To Storage	962	2,829	447	139	4,377	97	345	114	40	596
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	891	565	917	1,140	3,513	3	7	4	4	17
	Springs	1,132	1,352	1,227	1,071	4,782	25	28	27	25	105
	River Gains	1,062	1,256	1,113	945	4,376	3	3	3	3	12
	Evapotranspiration	342	402	701	428	1,873	15	17	28	23	82
	Head-Dep Bdy Outflow	339	347	335	310	1,332	5	5	6	7	23
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,934	2,271	2,036	1,762	8,004	46	54	50	47	198
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						152	396	133	-104	577
	Change in Surface Water Baseflow						56	62	59	52	229
	Change in Springs and ET discharge						39	44	55	48	187

Table 1C-A8: Summary of results from Lompico Injection: Mount Hermon Road scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	973	241	962	2,725	4,902	-50	-46	-20	142	26
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	127	161	187	623	-1	-1	-1	-1	-4
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	175	167	171	179	692	-4	-4	-4	-4	-16
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	900	1,080	726	417	3,122	-9	-10	-7	0	-25
Outflows	To Storage	958	2,818	446	134	4,356	93	334	113	35	575
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	892	566	918	1,141	3,516	4	7	4	4	19
	Springs	1,124	1,343	1,219	1,063	4,749	17	19	19	17	71
	River Gains	1,060	1,255	1,112	944	4,372	2	2	2	2	7
	Evapotranspiration	336	396	690	418	1,840	9	11	16	12	49
	Head-Dep Bdy Outflow	342	350	338	314	1,343	8	8	8	10	34
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,942	2,277	2,045	1,773	8,037	55	60	59	57	231
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						154	392	146	-93	598
	Change in Surface Water Baseflow						67	72	69	60	267
	Change in Springs and ET discharge						26	30	35	30	120

Table 1C-A9: Summary of results from Lompico Injection: Scotts Valley scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	961	247	962	2,715	4,886	-62	-40	-20	132	11
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	271	521	271	21	1,085	250	500	250	0	1,000
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	127	161	187	623	-1	-1	-1	-1	-4
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	171	164	168	176	678	-7	-7	-7	-8	-29
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	892	1,082	722	416	3,112	-16	-8	-11	0	-36
Outflows	To Storage	944	2,820	443	130	4,338	79	337	110	31	557
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	892	566	918	1,141	3,516	4	8	4	4	20
	Springs	1,117	1,339	1,213	1,057	4,725	10	14	13	11	48
	River Gains	1,060	1,255	1,112	944	4,370	1	1	1	1	5
	Evapotranspiration	336	395	690	418	1,839	8	11	16	13	48
	Head-Dep Bdy Outflow	349	356	345	322	1,372	15	14	15	18	63
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,934	2,278	2,036	1,762	8,010	46	61	50	46	204
Summary	Enhanced Aquifer Recharge						250	500	250	0	1,000
	Change in Groundwater Storage						163	398	153	-76	638
	Change in Surface Water Baseflow						65	71	63	48	248
	Change in Springs and ET discharge						18	25	29	24	96

Table 1C-A10: Summary of results from Dispersed Surface Recharge: San Lorenzo scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	997	274	981	2,773	5,025	-26	-13	-1	190	149
	Groundwater Inflow	414	398	407	421	1,639	-10	-14	-13	-9	-45
	Directed Recharge	269	516	269	21	1,075	248	495	248	0	990
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	188	626	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	707	0	0	0	0	-1
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	905	1,073	737	418	3,133	-4	-16	4	2	-14
Outflows	To Storage	899	2,714	339	101	4,053	34	231	6	1	272
	Groundwater Outflow	0	1	0	0	1	0	1	0	0	1
	Well Discharge	890	564	916	1,139	3,508	2	5	2	2	11
	Springs	1,163	1,392	1,266	1,103	4,924	56	67	66	57	247
	River Gains	1,062	1,256	1,113	945	4,376	3	3	3	3	11
	Evapotranspiration	340	402	712	429	1,884	13	18	38	23	93
	Head-Dep Bdy Outflow	334	342	330	304	1,310	0	0	0	0	1
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,987	2,345	2,108	1,812	8,253	100	128	122	96	447
Summary	Enhanced Aquifer Recharge						248	495	248	0	990
	Change in Groundwater Storage						71	259	21	-180	171
	Change in Surface Water Baseflow						107	147	121	97	472
	Change in Springs and ET discharge						69	85	105	80	339

Table 1C-A11: Summary of results from Dispersed Surface Recharge: Scotts Valley scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	993	267	968	2,709	4,937	-30	-20	-15	127	62
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	229	436	229	21	915	208	415	208	0	830
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	626	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	170	174	183	705	-1	-1	-1	-1	-3
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	894	1,078	721	404	3,097	-15	-12	-12	-12	-50
Outflows	To Storage	903	2,682	354	104	4,044	38	199	21	4	263
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	893	568	919	1,142	3,522	5	9	6	6	26
	Springs	1,127	1,351	1,225	1,065	4,769	20	26	25	20	92
	River Gains	1,059	1,253	1,111	942	4,365	0	0	0	0	1
	Evapotranspiration	330	389	681	411	1,812	3	4	8	6	21
	Head-Dep Bdy Outflow	336	343	331	305	1,315	1	1	2	2	6
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,982	2,363	2,117	1,792	8,253	94	145	131	76	447
Summary	Enhanced Aquifer Recharge						208	415	208	0	830
	Change in Groundwater Storage						70	221	39	-119	211
	Change in Surface Water Baseflow						109	157	143	89	499
	Change in Springs and ET discharge						23	31	33	25	113

Table 1C-A12: Summary of results from In-Lieu Recharge: San Lorenzo scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,001	279	959	2,528	4,766	-22	-9	-24	-55	-109
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	21	21	21	21	85	0	0	0	0	0
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	625	0	0	0	-1	-2
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	170	175	183	705	-1	-1	-1	-1	-2
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	907	1,088	732	416	3,143	-2	-2	-1	0	-4
Outflows	To Storage	888	2,488	368	118	3,862	23	4	36	18	81
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	792	492	789	1,005	3,078	-96	-66	-124	-132	-418
	Springs	1,124	1,344	1,219	1,063	4,750	17	19	19	17	72
	River Gains	1,060	1,255	1,112	944	4,370	1	1	1	1	6
	Evapotranspiration	339	397	695	424	1,855	12	13	21	18	64
	Head-Dep Bdy Outflow	335	343	331	305	1,314	1	1	1	1	5
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,905	2,251	2,005	1,734	7,896	18	34	19	18	90
Summary	Enhanced Aquifer Recharge						96	66	124	132	418
	Change in Groundwater Storage						47	14	61	76	198
	Change in Surface Water Baseflow						22	38	22	20	102
	Change in Springs and ET discharge						29	32	40	36	136

Table 1C-A13: Summary of results from In-Lieu Recharge: Scotts Valley (Butano) scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	956	272	852	2,442	4,522	-67	-16	-130	-141	-353
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	21	21	21	21	85	0	0	0	0	0
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	127	161	187	623	-1	-1	-1	-1	-4
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	162	155	159	167	644	-16	-16	-16	-17	-64
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	887	1,073	718	418	3,095	-21	-17	-15	2	-52
Outflows	To Storage	863	2,379	349	100	3,691	-2	-104	16	1	-90
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	662	494	607	844	2,607	-226	-65	-307	-293	-890
	Springs	1,108	1,326	1,202	1,047	4,683	1	2	2	2	6
	River Gains	1,059	1,254	1,111	943	4,366	0	0	0	0	1
	Evapotranspiration	336	394	690	422	1,841	9	9	17	16	50
	Head-Dep Bdy Outflow	410	411	403	386	1,610	76	69	73	83	301
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,924	2,258	2,022	1,750	7,955	37	41	37	34	148
Summary	Enhanced Aquifer Recharge						226	65	307	293	890
	Change in Groundwater Storage						157	-4	236	241	629
	Change in Surface Water Baseflow						59	59	53	34	205
	Change in Springs and ET discharge						10	10	18	18	56

Table 1C-A14: Summary of results from In-Lieu Recharge: Scotts Valley (Lompico) scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	924	254	950	2,482	4,610	-98	-33	-32	-101	-265
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	21	21	21	21	85	0	0	0	0	0
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	624	-1	-1	-1	-1	-2
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	175	168	172	180	694	-3	-3	-3	-4	-14
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	902	1,083	728	416	3,129	-7	-7	-5	0	-19
Outflows	To Storage	875	2,482	346	116	3,819	10	-2	13	17	38
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	722	466	805	964	2,957	-166	-92	-108	-173	-539
	Springs	1,115	1,334	1,209	1,054	4,711	8	9	9	8	33
	River Gains	1,060	1,254	1,111	943	4,368	1	1	1	1	4
	Evapotranspiration	332	391	683	413	1,819	5	6	9	7	28
	Head-Dep Bdy Outflow	341	349	337	312	1,338	7	7	7	9	29
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,914	2,248	2,014	1,742	7,918	27	31	28	26	112
Summary	Enhanced Aquifer Recharge						166	92	108	173	539
	Change in Groundwater Storage						119	41	56	130	346
	Change in Surface Water Baseflow						35	39	35	27	136
	Change in Springs and ET discharge						13	15	18	15	61

Table 1C-A15: Summary of results from Sensitivity Analysis - 500 afy scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	994	260	967	2,662	4,884	-28	-27	-15	79	8
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	146	271	146	21	585	125	250	125	0	500
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	625	0	0	0	0	-1
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	706	-1	-1	-1	-1	-2
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	907	1,087	732	415	3,142	-2	-2	-1	-1	-6
Outflows	To Storage	898	2,632	365	109	4,004	33	148	32	10	224
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	889	563	915	1,138	3,506	1	5	2	2	10
	Springs	1,130	1,351	1,226	1,070	4,777	23	26	26	24	99
	River Gains	1,060	1,255	1,112	944	4,370	1	1	1	1	6
	Evapotranspiration	334	393	689	417	1,833	7	8	15	11	42
	Head-Dep Bdy Outflow	335	343	331	305	1,314	1	1	1	1	5
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,915	2,247	2,015	1,742	7,920	28	30	30	27	113
Summary	Enhanced Aquifer Recharge						125	250	125	0	500
	Change in Groundwater Storage						63	177	50	-68	222
	Change in Surface Water Baseflow						31	34	32	29	126
	Change in Springs and ET discharge						31	34	41	36	142

Table 1C-A16: Summary of results from Sensitivity Analysis - 1,500 afy scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	954	237	966	2,820	4,977	-69	-50	-17	237	102
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	396	771	396	21	1,585	375	750	375	0	1,500
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	127	161	187	623	-1	-1	-1	-1	-4
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	177	169	174	182	701	-2	-2	-2	-2	-6
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	903	1,082	731	416	3,132	-5	-8	-2	0	-15
Outflows	To Storage	993	2,979	473	138	4,583	128	495	141	39	802
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	891	565	917	1,140	3,512	3	7	3	3	16
	Springs	1,167	1,391	1,265	1,108	4,931	60	66	65	62	254
	River Gains	1,063	1,257	1,115	946	4,381	4	4	4	4	17
	Evapotranspiration	356	423	735	453	1,967	29	38	62	47	176
	Head-Dep Bdy Outflow	337	345	333	308	1,323	3	3	3	4	14
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,959	2,295	2,064	1,790	8,108	71	78	78	74	302
Summary	Enhanced Aquifer Recharge						375	750	375	0	1,500
	Change in Groundwater Storage						202	550	162	-193	721
	Change in Surface Water Baseflow						82	91	86	80	338
	Change in Springs and ET discharge						89	104	127	109	430

Table 1C-A17: Summary of results from Sensitivity Analysis - 250 afy scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,008	272	975	2,625	4,879	-15	-15	-8	42	4
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	84	146	84	21	335	63	125	63	0	250
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	626	0	0	0	0	-1
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	707	0	0	0	0	-1
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	907	1,088	732	416	3,144	-1	-1	-1	0	-3
Outflows	To Storage	878	2,551	344	103	3,877	14	67	12	4	96
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	889	563	915	1,138	3,506	1	5	2	2	9
	Springs	1,119	1,338	1,213	1,058	4,729	12	13	13	13	52
	River Gains	1,059	1,254	1,111	943	4,367	1	1	1	1	3
	Evapotranspiration	331	390	682	412	1,815	4	5	9	7	24
	Head-Dep Bdy Outflow	335	342	330	304	1,311	1	1	1	1	2
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,902	2,234	2,002	1,730	7,868	15	17	16	15	62
Summary	Enhanced Aquifer Recharge						63	125	63	0	250
	Change in Groundwater Storage						29	83	20	-37	96
	Change in Surface Water Baseflow						17	19	18	15	69
	Change in Springs and ET discharge						16	18	22	19	76

Table 1C-A18: Summary of results from Sensitivity Analysis - 500 afy scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	984	252	968	2,702	4,905	-39	-35	-15	119	30
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	209	396	209	21	835	188	375	188	0	750
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	127	162	187	625	0	0	-1	-1	-2
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	170	174	182	705	-1	-1	-1	-1	-3
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	906	1,087	732	416	3,141	-3	-2	-1	0	-7
Outflows	To Storage	919	2,724	391	116	4,151	54	241	58	16	370
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	889	564	915	1,138	3,506	1	5	2	2	10
	Springs	1,140	1,361	1,236	1,080	4,818	33	37	36	35	141
	River Gains	1,061	1,255	1,113	944	4,373	2	2	2	2	9
	Evapotranspiration	339	400	699	425	1,862	12	15	25	19	71
	Head-Dep Bdy Outflow	336	344	331	306	1,316	2	2	2	2	7
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,928	2,383	2,030	1,756	8,097	40	166	44	40	291
Summary	Enhanced Aquifer Recharge						188	375	188	0	750
	Change in Groundwater Storage						96	279	76	-100	351
	Change in Surface Water Baseflow						46	171	48	44	308
	Change in Springs and ET discharge						45	51	62	54	213

Table 1C-A19: Summary of results from Sensitivity Analysis - 1,250 afy scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	963	241	965	2,780	4,949	-60	-46	-17	197	74
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	334	646	334	21	1,335	313	625	313	0	1,250
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	148	127	161	187	623	-1	-1	-1	-1	-3
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	177	170	174	182	702	-1	-1	-1	-1	-5
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	904	1,084	731	417	3,136	-5	-6	-2	1	-12
Outflows	To Storage	966	2,892	444	129	4,432	102	408	111	30	651
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	891	565	917	1,140	3,512	3	7	3	3	16
	Springs	1,159	1,382	1,256	1,099	4,896	52	57	56	53	219
	River Gains	1,062	1,257	1,114	946	4,379	3	4	4	4	14
	Evapotranspiration	350	414	722	443	1,930	23	30	49	38	139
	Head-Dep Bdy Outflow	337	344	332	307	1,321	3	3	3	3	12
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,948	2,285	2,053	1,780	8,065	61	67	67	64	259
Summary	Enhanced Aquifer Recharge						313	625	313	0	1,250
	Change in Groundwater Storage						165	458	133	-162	595
	Change in Surface Water Baseflow						70	78	73	68	289
	Change in Springs and ET discharge						75	87	105	91	358

Table 1C-A20: Summary of results from Horizontal Well Test scenario. All seasonal quantities are in acre-feet per quarter, and total quantities are in acre-feet. "Less Base Case" quantities represent the difference between the results for this scenario and the Base Case.

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	1,021	368	975	2,563	4,926	-2	80	-8	-20	50
	Groundwater Inflow	423	412	420	429	1,684	0	0	0	0	0
	Directed Recharge	21	21	21	21	85	0	0	0	0	0
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	149	128	162	188	627	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	178	171	175	183	708	0	0	0	0	0
	Recharge	3,763	6,457	4,049	1,826	16,095	0	0	0	0	0
	Stream Losses	919	1,147	757	420	3,243	10	58	24	4	96
Outflows	To Storage	869	2,447	408	103	3,828	4	-36	75	4	47
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	1,038	1,265	1,063	1,136	4,503	150	706	150	0	1,006
	Springs	1,106	1,324	1,200	1,045	4,674	-1	0	-1	-1	-3
	River Gains	1,059	1,253	1,110	942	4,365	0	0	0	0	0
	Evapotranspiration	327	385	673	406	1,791	0	0	0	0	0
	Head-Dep Bdy Outflow	334	342	329	304	1,309	0	0	0	0	0
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,741	1,690	1,777	1,696	6,904	-146	-527	-209	-19	-902
Summary	Enhanced Aquifer Recharge						-150	-706	-150	0	-1,006
	Change in Groundwater Storage						6	-117	83	24	-3
	Change in Surface Water Baseflow						-156	-585	-233	-24	-997
	Change in Springs and ET discharge						-1	-1	-1	-1	-3

Table 1C-A21: Summary of results from Bean Creek Wellfield Test scenario. All seasonal quantities are in acre-feet per

		Simulation Results (acre-feet)					Relative to Base Case (acre-feet)				
		Fall	Winter	Spring	Summer	Total	Fall	Winter	Spring	Summer	Total
Inflows	From Storage	536	32	623	2,171	3,362	1	0	1	8	9
	Groundwater Inflow	423	413	420	429	1,685	0	0	0	0	0
	Directed Recharge	21	21	21	21	85	0	0	0	0	0
	Springs	--	--	--	--	--	--	--	--	--	--
	River Losses	151	129	163	188	632	0	0	0	0	0
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	188	180	183	190	740	-1	-1	-1	-1	-3
	Recharge	3,763	6,457	4,048	1,826	16,094	0	0	0	0	0
	Stream Losses	907	1,106	735	422	3,170	2	11	6	0	19
Outflows	To Storage	794	2,462	347	75	3,678	3	42	17	3	64
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	0
	Well Discharge	554	433	588	763	2,338	0	0	0	0	0
	Springs	1,109	1,328	1,201	1,044	4,682	1	1	1	1	5
	River Gains	1,058	1,255	1,114	947	4,373	0	0	0	0	1
	Evapotranspiration	325	386	678	412	1,801	1	1	2	2	6
	Head-Dep Bdy Outflow	334	345	343	331	1,353	1	1	1	2	6
	Recharge	--	--	--	--	--	--	--	--	--	--
	Stream Gains	1,816	2,126	1,923	1,677	7,542	-6	-37	-15	-2	-59
Summary	Enhanced Aquifer Recharge						0	0	0	0	0
	Change in Groundwater Storage						4	44	18	-3	64
	Change in Surface Water Baseflow						-8	-47	-20	-1	-77
	Change in Springs and ET discharge						2	2	3	3	11