

Attachment B: Seasonal Variations in the Hydrologic
Budget Relative to the Base Case Scenario

2 Summary of Results from All Scenarios

Table 1C-B1: Summary of results from all scenarios. All quantities are fluxes in acre-feet per year.

Scenario	Base Case	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek					
		SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	base21			
Inflows	From Storage	4,875	5,076	5,059	5,016	4,895	4,921	4,928	4,902	4,886	5,025	4,937	4,766	4,522	4,610	4,884	4,977	4,879	4,905	4,949	4,926	3,362	3,353		
	Groundwater Inflow	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,639	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,684	1,685	1,685	
	Directed Recharge	85	1,085	1,085	1,085	168	1,085	1,085	1,085	1,085	1,075	915	85	85	85	585	1,585	335	835	1,335	85	85	85	85	
	Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	River Losses	627	626	626	626	627	624	621	623	623	626	626	625	623	624	625	623	626	625	623	627	632	632	632	
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	708	707	707	705	708	703	697	692	678	707	705	705	644	694	706	701	707	705	702	708	740	743	743	
	Recharge	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,095	16,094	16,094	16,094	
	Stream Losses	3,147	3,139	3,142	3,127	3,125	3,135	3,133	3,122	3,112	3,133	3,097	3,143	3,095	3,129	3,142	3,132	3,144	3,141	3,136	3,243	3,170	3,151	3,151	
	Stream Gains	7,806	8,173	8,350	8,200	7,855	8,042	8,004	8,037	8,010	8,253	8,253	7,896	7,955	7,918	7,920	8,108	7,868	8,097	8,065	6,904	7,542	7,601	7,601	
Change in Storage	-1,095	-970	-1,042	-796	-1,087	-633	-551	-546	-548	-971	-893	-904	-831	-792	-879	-394	-1,002	-755	-517	-1,098	316	261	261		
Outflows	To Storage	3,781	4,106	4,017	4,220	3,808	4,288	4,377	4,356	4,338	4,053	4,044	3,862	3,691	3,819	4,004	4,583	3,877	4,151	4,432	3,828	3,678	3,614	3,614	
	Groundwater Outflow	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Well Discharge	3,496	3,508	3,506	3,518	3,498	3,506	3,513	3,516	3,516	3,508	3,522	3,078	2,607	2,957	3,506	3,512	3,506	3,506	3,512	4,503	2,338	2,338	2,338	
	Springs	4,677	5,159	5,069	4,766	4,680	4,857	4,782	4,749	4,725	4,924	4,769	4,750	4,683	4,711	4,777	4,931	4,729	4,818	4,896	4,674	4,682	4,677	4,677	
	River Gains	4,365	4,367	4,365	4,366	4,365	4,376	4,376	4,372	4,370	4,376	4,365	4,370	4,366	4,368	4,370	4,381	4,367	4,373	4,379	4,365	4,373	4,373	4,373	
	Evapotranspiration	1,791	1,800	1,797	1,966	1,791	1,895	1,873	1,840	1,839	1,884	1,812	1,855	1,841	1,819	1,833	1,967	1,815	1,862	1,930	1,791	1,801	1,795	1,795	
	Head-Dep Bdy Outflow	1,309	1,310	1,310	1,316	1,309	1,319	1,332	1,343	1,372	1,310	1,315	1,314	1,610	1,338	1,314	1,323	1,311	1,316	1,321	1,309	1,353	1,347	1,347	
	Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Stream Gains	7,806	8,173	8,350	8,200	7,855	8,042	8,004	8,037	8,010	8,253	8,253	7,896	7,955	7,918	7,920	8,108	7,868	8,097	8,065	6,904	7,542	7,601	7,601	
	Change in Storage	-1,095	-970	-1,042	-796	-1,087	-633	-551	-546	-548	-971	-893	-904	-831	-792	-879	-394	-1,002	-755	-517	-1,098	316	261	261	

3 Difference between each scenario and base case

Table 1C-B2: Summary of difference from base case for all recharge scenarios. All quantities are fluxes in acre-feet per year, less the flux in the base case (see Table 2).

Scenario	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek			
	SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield		
Inflows	From Storage	201	184	140	1,542	46	52	26	11	149	62	-109	-353	-265	4	8	30	74	102	50	9	
	Groundwater Inflow	-1	0	0	-1	0	0	0	0	-45	0	0	0	0	0	0	0	0	0	0	0	
	Directed Recharge	1,000	1,000	1,000	83	1,000	1,000	1,000	1,000	990	830	0	0	0	250	500	750	1,250	1,500	0	0	
	Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	River Losses	0	0	-1	-6	-3	-5	-4	-4	0	0	-2	-4	-2	-1	-1	-2	-3	-4	0	0	
	Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Head-Dep Bdy Inflow	-1	0	-3	-35	-4	-11	-16	-29	-1	-3	-2	-64	-14	-1	-2	-3	-5	-6	0	-3	
	Recharge	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Stream Losses	-8	-6	-20	-26	-13	-14	-25	-36	-14	-50	-4	-52	-19	-3	-6	-7	-12	-15	96	19	
	Stream Gains	367	544	394	255	236	198	231	204	447	447	90	148	112	62	113	291	259	302	-902	-59	
Outflows	To Storage	325	236	439	194	507	596	575	557	272	263	81	-90	38	96	224	370	651	802	47	64	
	Groundwater Outflow	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Well Discharge	11	10	22	1,160	10	17	19	20	11	26	-418	-890	-539	9	10	10	16	16	1,006	0	
	Springs	482	392	89	3	180	105	71	48	247	92	72	6	33	52	99	141	219	254	-3	5	
	River Gains	3	0	1	-8	11	12	7	5	11	1	6	1	4	3	6	9	14	17	0	1	
	Evapotranspiration	9	6	175	-4	104	82	49	48	93	21	64	50	28	24	42	71	139	176	0	6	
	Head-Dep Bdy Outflow	1	1	7	-38	10	23	34	63	1	6	5	301	29	2	5	7	12	14	0	6	
	Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Stream Gains	367	544	394	255	236	198	231	204	447	447	90	148	112	62	113	291	259	302	-902	-59	
	Change in Storage	124	53	298	-1,348	462	544	549	546	123	201	190	263	303	92	215	340	577	701	-3	55	

Summary of Fall Results from All Scenarios

Table 1C-B3: Summary of fall results from all scenarios. All quantities are fluxes in acre-feet per quarter.

Scenario	Base Case	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek		
		SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	base21
From Storage	1,023	1,016	1,013	996	1,025	972	975	973	961	997	993	1,001	956	924	994	954	1,008	984	963	1,021	536	536
Groundwater Inflow	423	423	423	423	423	423	423	423	423	414	423	423	423	423	423	423	423	423	423	423	423	423
Directed Recharge	21	271	271	271	42	271	271	271	271	269	229	21	21	21	146	396	84	209	334	21	21	21
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	149	149	149	149	149	149	148	148	148	149	149	149	148	149	149	148	149	149	148	149	151	152
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	178	178	178	178	178	177	176	175	171	178	178	178	162	175	178	177	178	178	177	178	188	188
Recharge	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763	3,763
Stream Losses	909	907	907	903	903	905	903	900	892	905	894	907	887	902	907	903	907	906	904	919	907	905
To Storage	865	910	916	937	869	942	962	958	944	899	903	888	863	875	898	993	878	919	966	869	794	791
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	888	890	889	892	888	889	891	892	892	890	893	792	662	722	889	891	889	889	891	1,038	554	554
Springs	1,107	1,215	1,185	1,128	1,107	1,150	1,132	1,124	1,117	1,163	1,127	1,124	1,108	1,115	1,130	1,167	1,119	1,140	1,159	1,106	1,109	1,108
River Gains	1,059	1,059	1,059	1,059	1,059	1,062	1,062	1,060	1,060	1,062	1,059	1,060	1,059	1,060	1,060	1,063	1,059	1,061	1,062	1,059	1,058	1,057
Evapotranspiration	327	329	328	352	327	345	342	336	336	340	330	339	336	332	334	356	331	339	350	327	325	324
Head-Dep Bdy Outflow	334	334	334	336	334	336	339	342	349	334	336	335	410	341	335	337	335	336	337	334	334	333
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	1,887	1,972	1,995	1,980	1,899	1,938	1,934	1,942	1,934	1,987	1,982	1,905	1,924	1,914	1,915	1,959	1,902	1,928	1,948	1,741	1,816	1,821
Change in Storage	-158	-106	-97	-59	-155	-30	-14	-15	-17	-97	-90	-113	-93	-49	-96	39	-130	-64	4	-152	258	255

Fall Difference between each scenario and base case

Table 1C-B4: Summary of fall difference from base case for all recharge scenarios. All quantities are fluxes in acre-feet per quarter, less the flux in the base case (see Table 1C-B).

Scenario	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek	
	SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield
From Storage	-7	-10	-27	489	-50	-47	-50	-62	-26	-30	-22	-67	-98	-15	-28	-39	-60	-69	-2	1
Groundwater Inflow	0	0	0	0	0	0	0	0	-10	0	0	0	0	0	0	0	0	0	0	0
Directed Recharge	250	250	250	21	250	250	250	250	248	208	0	0	0	63	125	188	313	375	0	0
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	0	0	0	-2	-1	-1	-1	-1	0	0	0	-1	-1	0	0	0	-1	-1	0	0
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	0	0	-1	-10	-1	-3	-4	-7	0	-1	-1	-16	-3	0	-1	-1	-1	-2	0	-1
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stream Losses	-2	-1	-6	-2	-4	-6	-9	-16	-4	-15	-2	-21	-7	-1	-2	-3	-5	-5	10	2
To Storage	46	51	72	78	77	97	93	79	34	38	23	-2	10	14	33	54	102	128	4	3
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	2	1	4	334	1	3	4	4	2	5	-96	-226	-166	1	1	1	3	3	150	0
Springs	108	78	21	-1	43	25	17	10	56	20	17	1	8	12	23	33	52	60	-1	1
River Gains	1	0	0	1	3	3	2	1	3	0	1	0	1	1	1	2	3	4	0	0
Evapotranspiration	2	1	25	3	17	15	9	8	13	3	12	9	5	4	7	12	23	29	0	1
Head-Dep Bdy Outflow	0	0	2	1	2	5	8	15	0	1	1	76	7	1	1	2	3	3	0	1
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	85	108	93	78	51	46	55	46	100	94	18	37	27	15	28	40	61	71	-146	-6
Change in Storage	52	61	99	-411	128	144	143	141	61	68	45	65	108	28	61	94	161	197	6	2

Summary of winter Results from All Scenarios

Table 1C-B5: Summary of winter results from all scenarios. All quantities are fluxes in acre-feet per quarter.

Scenario	Base Case	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek		
		SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	base21
From Storage	287	276	282	266	287	246	244	241	247	274	267	279	272	254	260	237	272	252	241	368	32	32
Groundwater Inflow	412	412	412	412	412	412	412	412	412	398	412	412	412	412	412	412	412	412	412	412	413	413
Directed Recharge	21	521	521	521	63	521	521	521	521	516	436	21	21	21	271	771	146	396	646	21	21	21
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	128	127	128	127	128	127	126	127	127	127	127	127	127	127	127	127	127	127	127	128	129	129
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	171	171	171	170	171	170	168	167	164	171	170	170	155	168	171	169	171	170	170	171	180	181
Recharge	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457	6,457
Stream Losses	1,090	1,083	1,088	1,083	1,086	1,084	1,086	1,080	1,082	1,073	1,078	1,088	1,073	1,083	1,087	1,082	1,088	1,087	1,084	1,147	1,106	1,095
To Storage	2,484	2,744	2,665	2,786	2,504	2,805	2,829	2,818	2,820	2,714	2,682	2,488	2,379	2,482	2,632	2,979	2,551	2,724	2,892	2,447	2,462	2,421
Groundwater Outflow	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	559	564	564	567	559	564	565	566	566	564	568	492	494	466	563	565	563	564	565	1,265	433	433
Springs	1,325	1,450	1,448	1,348	1,326	1,371	1,352	1,343	1,339	1,392	1,351	1,344	1,326	1,334	1,351	1,391	1,338	1,361	1,382	1,324	1,328	1,327
River Gains	1,253	1,254	1,253	1,253	1,253	1,256	1,256	1,255	1,255	1,256	1,253	1,255	1,254	1,254	1,255	1,257	1,254	1,255	1,257	1,253	1,255	1,255
Evapotranspiration	385	383	386	417	385	407	402	396	395	402	389	397	394	391	393	423	390	400	414	385	386	384
Head-Dep Bdy Outflow	342	342	342	343	342	344	347	350	356	342	343	343	411	349	343	345	342	344	344	342	345	343
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	2,217	2,311	2,410	2,324	2,232	2,290	2,271	2,277	2,278	2,345	2,363	2,251	2,258	2,248	2,247	2,295	2,234	2,383	2,285	1,690	2,126	2,163
Change in Storage	2,196	2,468	2,383	2,520	2,217	2,559	2,585	2,577	2,573	2,440	2,416	2,209	2,108	2,227	2,372	2,741	2,279	2,473	2,651	2,080	2,430	2,388

Winter Difference between each scenario and base case

Table 1C-B6: Summary of winter difference from base case for all recharge scenarios. All quantities are fluxes in acre-feet per quarter, less the flux in the base case (see Table 1C-B).

Scenario	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek	
	SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield
From Storage	-11	-5	-21	255	-41	-43	-46	-40	-13	-20	-9	-16	-33	-15	-27	-35	-46	-50	80	0
Groundwater Inflow	0	0	0	0	0	0	0	0	-14	0	0	0	0	0	0	0	0	0	0	0
Directed Recharge	500	500	500	42	500	500	500	500	495	415	0	0	0	125	250	375	625	750	0	0
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	0	0	0	-2	-1	-1	-1	-1	0	0	0	-1	-1	0	0	0	-1	-1	0	0
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	0	0	-1	-10	-1	-3	-4	-7	0	-1	-1	-16	-3	0	-1	-1	-1	-2	0	-1
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stream Losses	-7	-2	-7	-9	-6	-4	-10	-8	-16	-12	-2	-17	-7	-1	-2	-2	-6	-8	58	11
To Storage	260	181	303	83	321	345	334	337	231	199	4	-104	-2	67	148	241	408	495	-36	42
Groundwater Outflow	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	5	5	8	127	5	7	7	8	5	9	-66	-65	-92	5	5	5	7	7	706	0
Springs	125	123	23	-1	47	28	19	14	67	26	19	2	9	13	26	37	57	66	0	1
River Gains	1	0	0	-2	3	3	2	1	3	0	1	0	1	1	1	2	4	4	0	0
Evapotranspiration	-2	1	32	0	22	17	11	11	18	4	13	9	6	5	8	15	30	38	0	1
Head-Dep Bdy Outflow	0	0	1	-1	2	5	8	14	0	1	1	69	7	1	1	2	3	3	0	1
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	94	193	107	69	73	54	60	61	128	145	34	41	31	17	30	166	67	78	-527	-37
Change in Storage	271	187	324	-171	363	388	380	377	244	219	13	-89	31	83	176	276	454	545	-117	42

Summary of Spring Results from All Scenarios

Table 1C-B7: Summary of spring results from all scenarios. All quantities are fluxes in acre-feet per quarter.

Scenario	Base Case	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek		
		SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	base21
From Storage	982	984	1,013	984	984	963	972	962	962	981	968	959	852	950	967	966	975	968	965	975	623	622
Groundwater Inflow	420	419	420	420	420	420	420	420	420	407	420	420	420	420	420	420	420	420	420	420	420	420
Directed Recharge	21	271	271	271	42	271	271	271	271	269	229	21	21	21	146	396	84	209	334	21	21	21
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	162	162	162	162	162	162	161	161	161	162	162	162	161	162	162	161	162	162	161	162	163	163
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	175	175	175	174	175	174	172	171	168	175	174	175	159	172	175	174	175	174	174	175	183	184
Recharge	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,049	4,048	4,048
Stream Losses	733	733	731	729	728	731	729	726	722	737	721	732	718	728	732	731	732	732	731	757	735	729
To Storage	333	351	337	390	336	419	447	446	443	339	354	368	349	346	365	473	344	391	444	408	347	330
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	913	916	915	918	914	915	917	918	918	916	919	789	607	805	915	917	915	915	917	1,063	588	588
Springs	1,200	1,331	1,316	1,223	1,201	1,246	1,227	1,219	1,213	1,266	1,225	1,219	1,202	1,209	1,226	1,265	1,213	1,236	1,256	1,200	1,201	1,200
River Gains	1,110	1,111	1,110	1,111	1,110	1,113	1,113	1,112	1,112	1,113	1,111	1,112	1,111	1,111	1,112	1,115	1,111	1,113	1,114	1,110	1,114	1,114
Evapotranspiration	673	677	676	739	673	710	701	690	690	712	681	695	690	683	689	735	682	699	722	673	678	677
Head-Dep Bdy Outflow	329	330	330	331	330	332	335	338	345	330	331	331	403	337	331	333	330	331	332	329	343	342
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	1,986	2,084	2,142	2,087	2,000	2,046	2,036	2,045	2,036	2,108	2,117	2,005	2,022	2,014	2,015	2,064	2,002	2,030	2,053	1,777	1,923	1,938
Change in Storage	-650	-633	-677	-594	-648	-544	-525	-516	-519	-642	-613	-590	-503	-604	-602	-493	-630	-576	-521	-566	-277	-292

Spring Difference between each scenario and base case

Table 1C-B8: Summary of spring difference from base case for all recharge scenarios. All quantities are fluxes in acre-feet per quarter, less the flux in the base case (see Table 1C-B).

Scenario	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek	
	SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield
From Storage	2	31	1	362	-20	-10	-20	-20	-1	-15	-24	-130	-32	-8	-15	-15	-17	-17	-8	1
Groundwater Inflow	0	0	0	0	0	0	0	0	-13	0	0	0	0	0	0	0	0	0	0	0
Directed Recharge	250	250	250	21	250	250	250	250	248	208	0	0	0	63	125	188	313	375	0	0
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	0	0	0	-1	-1	-1	-1	-1	0	0	0	-1	-1	0	0	-1	-1	-1	0	0
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	0	0	-1	-9	-1	-3	-4	-7	0	-1	-1	-16	-3	0	-1	-1	-1	-2	0	-1
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stream Losses	0	-2	-4	-1	-2	-4	-7	-11	4	-12	-1	-15	-5	-1	-1	-1	-2	-2	24	6
To Storage	18	4	57	6	86	114	113	110	6	21	36	16	13	12	32	58	111	141	75	17
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	2	2	5	326	2	4	4	4	2	6	-124	-307	-108	2	2	2	3	3	150	0
Springs	131	116	23	1	46	27	19	13	66	25	19	2	9	13	26	36	56	65	-1	1
River Gains	1	0	0	-3	3	3	2	1	3	0	1	0	1	1	1	2	4	4	0	0
Evapotranspiration	4	3	66	-3	37	28	16	16	38	8	21	17	9	9	15	25	49	62	0	2
Head-Dep Bdy Outflow	0	0	2	-12	2	6	8	15	0	2	1	73	7	1	1	2	3	3	0	1
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	98	156	101	62	60	50	59	50	122	131	19	37	28	16	30	44	67	78	-209	-15
Change in Storage	17	-27	56	-356	106	125	133	130	7	36	59	146	45	19	48	73	129	157	83	15

Summary of summer Results from All Scenarios

Table 1C-B9: Summary of summer results from all scenarios. All quantities are fluxes in acre-feet per quarter.

Scenario	Base Case	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek		
		SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	base21
From Storage	2,583	2,800	2,751	2,770	2,600	2,740	2,736	2,725	2,715	2,773	2,709	2,528	2,442	2,482	2,662	2,820	2,625	2,702	2,780	2,563	2,171	2,163
Groundwater Inflow	429	429	429	429	429	429	429	429	429	421	429	429	429	429	429	429	429	429	429	429	429	429
Directed Recharge	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	188	188	188	187	188	187	186	187	187	188	187	187	187	187	187	187	187	187	187	188	188	188
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	183	183	183	182	183	182	180	179	176	183	183	183	167	180	183	182	183	182	182	183	190	190
Recharge	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826
Stream Losses	416	416	415	412	409	415	415	417	416	418	404	416	418	416	415	416	416	416	417	420	422	422
To Storage	99	100	100	106	100	122	139	134	130	101	104	118	100	116	109	138	103	116	129	103	75	73
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Well Discharge	1,136	1,139	1,138	1,141	1,137	1,138	1,140	1,141	1,141	1,139	1,142	1,005	844	964	1,138	1,140	1,138	1,138	1,140	1,136	763	763
Springs	1,046	1,163	1,120	1,067	1,046	1,090	1,071	1,063	1,057	1,103	1,065	1,063	1,047	1,054	1,070	1,108	1,058	1,080	1,099	1,045	1,044	1,042
River Gains	942	943	942	943	942	945	945	944	944	945	942	944	943	943	944	946	943	944	946	942	947	946
Evapotranspiration	406	411	407	459	406	434	428	418	418	429	411	424	422	413	417	453	412	425	443	406	412	410
Head-Dep Bdy Outflow	304	304	304	306	304	306	310	314	322	304	305	305	386	312	305	308	304	306	307	304	331	329
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stream Gains	1,716	1,806	1,803	1,809	1,724	1,768	1,762	1,773	1,762	1,812	1,792	1,734	1,750	1,742	1,742	1,790	1,756	1,780	1,696	1,677	1,679	
Change in Storage	-2,484	-2,699	-2,651	-2,664	-2,500	-2,618	-2,597	-2,591	-2,585	-2,672	-2,606	-2,410	-2,342	-2,365	-2,553	-2,682	-2,521	-2,587	-2,651	-2,459	-2,095	-2,090

Summer Difference between each scenario and base case

Table 1C-B10: Summary of summer difference from base case for all recharge scenarios. All quantities are fluxes in acre-feet per quarter, less the flux in the base case (see Table 1C-B).

Scenario	Surface Recharge				Lompico Injection				Disp. Surface		In-Lieu Recharge			Sensitivity Analysis					Bean Creek		
	SHQ	NHQ	MHR	SV	SHQ	NHQ	MHR	SV	SL	SV	SL	SVB	SVL	250	500	750	1,250	1,500	Horiz	Wellfield	
From Storage	217	168	187	437	157	153	142	132	190	127	-55	-141	-101	42	79	119	197	237	-20	8	
Groundwater Inflow	0	0	0	0	0	0	0	0	-9	0	0	0	0	0	0	0	0	0	0	0	
Directed Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Springs	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
River Losses	0	0	0	-1	-1	-1	-1	-1	0	0	-1	-1	-1	0	0	-1	-1	-1	0	0	
Evapotranspiration	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Head-Dep Bdy Inflow	0	0	-1	-7	-1	-3	-4	-8	0	-1	-1	-17	-4	0	-1	-1	-1	-2	0	-1	
Recharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stream Losses	0	-1	-4	-13	-1	-1	0	0	2	-12	0	2	0	0	-1	0	1	0	4	0	
To Storage	1	1	7	27	23	40	35	31	1	4	18	1	17	4	10	16	30	39	4	3	
Groundwater Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Well Discharge	2	2	5	373	2	4	4	4	2	6	-132	-293	-173	2	2	2	3	3	0	0	
Springs	118	75	22	4	44	25	17	11	57	20	17	2	8	13	24	35	53	62	-1	1	
River Gains	1	0	0	-4	3	3	2	1	3	0	1	0	1	1	1	2	4	4	0	0	
Evapotranspiration	5	1	53	-4	28	23	12	13	23	6	18	16	7	7	11	19	38	47	0	2	
Head-Dep Bdy Outflow	0	0	2	-26	3	7	10	18	0	2	1	83	9	1	1	2	3	4	0	2	
Recharge	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Stream Gains	90	87	93	45	52	47	57	46	96	76	18	34	26	15	27	40	64	74	-19	-2	
Change in Storage	-216	-167	-180	-410	-134	-114	-107	-102	-189	-122	74	141	118	-38	-69	-103	-167	-198	24	-5	