

Appendix H

Water Budget Summary

1.0 Purpose

The South Platte Decision Support System (SPDSS) Alluvial Groundwater Model utilizes various inflows and outflows which are defined in the model inputs and simulated in the model. This appendix summarizes the inflow and outflow components along with the MODFLOW package used to simulate them in the model. In addition, the appendix summarizes the simulated flows for each of the components by stress period.

2.0 Water Budget

This appendix summarizes the water budget for the site for those components that are specified as input parameters or calculated in the model. Significant components of the overall water budget are calculated within the groundwater model, and are summarized in this appendix. Table H-1 identifies the major inflow and outflow components that are specified as input parameters for the model. Stream leakage, where flow from the stream enters the aquifer when a downward hydraulic gradient is present between the stream and the aquifer is the most significant inflow component that is not specified. Outflow components that are calculated in the model include representation of outflow from the model at the state line, discharge from the aquifer to surface water, and evapotranspiration. Storage changes also occur seasonally in the model. Modifications to agricultural pumping were made during the calibration process in the designated basins, reducing the pumping by 20 percent, as documented Section 4.3.

Table H-1 Summary of Specified Inflow and Outflow Components

Component	MODFLOW Package	Source
Inflows		
Alluvial inflow	Well	Estimates based on calculations
Surface water inflow	Stream Flow Routing	Gage records, with record filling as needed
Ungaged surface water inflow	Stream Flow Routing	Function of precipitation and runoff factors
Lateral boundary inflow	Well	StatePP and lateral boundary processor
Bedrock inflow	Well	USGS Denver Basin model output
Reservoir leakage	Recharge	Estimates based on soil type - assumed constant over time
Managed recharge for augmentation	Recharge	Estimates supplied by State
Recharge - Native Precipitation	Recharge	StatePP and rainfall processor
Recharge - Irrigation returns	Recharge	StatePP
Recharge - Canal leakage	Recharge	StatePP
Discharges	Stream Flow Routing	NPDES records
Outflows		
Agricultural wells	Well	StatePP
Municipal and Industrial Wells	Well	Estimated based on questionnaire responses, well permits and population estimates
Augmentation wells	Well	Estimate supplied by State
Diversions	Stream flow routing	HydroBase diversion records

Detailed monthly water budget components are presented on Table H-2 for the entire period of record.

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Jan-50	1	1322	1040	36553	1559	6114	26752	7396	6971	0	82	0	39	3429	0	980	0
Feb-50	2	1311	940	32529	1407	6114	36499	3501	5454	0	130	0	10946	58980	0	890	0
Mar-50	3	1288	1040	35500	1558	6114	30175	3755	6448	0	1442	0	8969	36553	0	1109	0
Apr-50	4	12901	1007	34005	1507	6114	32156	49137	6911	0	27122	80	16213	77203	225	1484	0
May-50	5	17014	1040	35046	1558	6114	74307	54262	7393	0	68727	3461	30770	161481	9382	2018	0
Jun-50	6	11309	1007	34503	1507	6114	230149	36588	7474	0	109724	13238	51462	304851	35330	2432	0
Jul-50	7	14320	1040	36692	1558	6114	95414	30660	7082	0	87563	17771	40461	217048	49474	2917	0
Aug-50	8	4172	1040	37436	1558	6114	40373	11766	7567	0	65965	29384	33621	149956	81244	2745	0
Sep-50	9	8642	1007	36560	1507	6114	30966	27178	7054	0	41428	21000	25225	130973	59182	2135	0
Oct-50	10	1335	1040	37864	1558	6114	21542	4096	6960	0	41588	4803	21028	102930	13297	1742	0
Nov-50	11	1841	1007	36534	1507	6114	34118	9562	6486	0	4432	47	18915	86349	132	1174	0
Dec-50	12	798	1040	37378	1558	6114	22739	2660	6825	0	1587	0	16958	66139	0	1375	0
Jan-51	13	2438	1040	36859	1558	6114	22694	9280	6673	0	582	0	10751	56270	0	1516	0
Feb-51	14	2002	940	32784	1407	6114	23989	8218	6047	0	509	0	15889	83527	0	1414	0
Mar-51	15	1632	1040	35766	1558	6114	21447	12156	6633	0	1623	0	7991	43535	0	1597	0
Apr-51	16	13493	1007	34222	1507	6114	59134	36339	6820	0	18614	0	15097	53089	1	1992	0
May-51	17	18697	1040	35346	1558	6114	196744	51087	7213	0	69990	3825	35617	218414	10398	2581	0
Jun-51	18	16389	1007	34921	1507	6114	366077	49107	7214	0	106148	9025	51593	288258	24470	2924	0
Jul-51	19	12687	1040	37286	1558	6114	215709	33231	7288	0	104841	23162	47755	276801	61701	3579	0
Aug-51	20	24219	1040	38418	1558	6114	174510	76606	8063	0	84105	17365	44617	219869	46403	3317	0
Sep-51	21	9716	1007	37827	1507	6114	49507	23768	7896	0	57590	10352	33405	159609	28869	2579	0
Oct-51	22	13430	1040	39257	1558	6114	48350	45926	7058	0	24424	1484	27129	130907	4053	2104	0
Nov-51	23	2040	1007	37807	1507	6114	59261	10153	6376	0	2924	0	20962	88630	0	1475	0
Dec-51	24	2132	1040	38678	1558	6114	45112	8577	6043	0	4426	0	16730	72318	0	1437	0
Jan-52	25	373	1040	38185	1558	6114	46659	733	6184	0	714	0	13506	65275	0	1557	0
Feb-52	26	1712	973	35187	1457	6114	40854	4932	5859	0	3430	0	8614	47023	0	1512	0
Mar-52	27	4786	1040	37043	1558	6114	49695	22218	6432	0	705	0	9729	35641	0	1654	0
Apr-52	28	13955	1007	35405	1507	6114	106840	44827	6544	0	11158	11	17329	57241	33	2076	0
May-52	29	26331	1040	36352	1558	6114	375434	74945	7610	0	62389	2214	39501	182888	6147	2689	0
Jun-52	30	5588	1007	35652	1507	6114	562609	16151	7602	0	121718	21775	70040	375678	58122	3055	0
Jul-52	31	6230	1040	37889	1558	6114	165701	17199	8829	0	100905	33043	48579	259129	89608	3757	0
Aug-52	32	12113	1040	38845	1558	6114	119401	36135	8559	0	83836	31799	40501	214909	87908	3476	0
Sep-52	33	3401	1007	38170	1507	6114	48561	9927	7721	0	56516	23346	31139	156808	66013	2685	0
Oct-52	34	2159	1040	39596	1558	6114	35442	5397	7345	0	34534	2385	26069	147171	7121	2176	0
Nov-52	35	3716	1007	38053	1507	6114	30645	13566	6635	0	2089	0	16388	77193	0	1509	0
Dec-52	36	907	1040	38862	1558	6114	33501	2198	7073	0	1408	0	14471	63886	0	1464	0
Jan-53	37	1309	1040	38268	1558	6114	33183	4667	7030	0	1212	0	16249	71234	0	1602	0
Feb-53	38	2584	940	34033	1407	6114	32484	10306	6117	0	720	0	11469	56022	0	1509	0
Mar-53	39	3197	1040	37120	1558	6114	31107	11891	7090	0	1968	0	8931	56231	0	1713	0
Apr-53	40	12658	1007	35474	1507	6114	33784	34319	7102	0	13446	0	16152	54799	0	2135	0

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Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-53	41	15200	1040	36458	1558	6114	106500	48033	7909	0	57110	1020	25857	151363	2809	2762	0
Jun-53	42	13482	1007	35780	1507	6114	286307	37710	8258	0	109664	14473	49036	283939	39692	3130	0
Jul-53	43	16526	1040	38074	1558	6114	161489	45766	8851	0	95701	25373	42890	241733	69950	3908	0
Aug-53	44	8959	1040	39125	1558	6114	105786	26397	8865	0	80373	30517	36785	212204	85077	3611	0
Sep-53	45	1169	1007	38441	1507	6114	42977	3886	8290	0	52131	31371	27516	140134	87337	2788	0
Oct-53	46	2772	1040	39885	1558	6114	30064	8231	8586	0	36570	4973	24431	123619	14760	2245	0
Nov-53	47	2852	1007	38323	1507	6114	30480	10113	7906	0	4343	52	18636	90867	161	1554	0
Dec-53	48	1651	1040	39116	1558	6114	29334	9277	9152	0	1840	0	13644	54680	0	1507	0
Jan-54	49	532	1040	38488	1559	6114	28910	2724	9210	0	733	0	14555	66943	0	1629	0
Feb-54	50	119	940	34191	1408	6114	23875	946	7654	0	1426	0	11419	60227	0	1541	0
Mar-54	51	2301	1040	37270	1559	6114	21422	7181	7276	0	1936	0	9550	50497	0	1755	0
Apr-54	52	2686	1007	35610	1509	6114	20922	11194	7927	0	27297	4277	14714	72011	13049	2179	0
May-54	53	8245	1040	36690	1559	6114	100134	21405	8393	0	69512	10587	28664	170221	29631	2823	0
Jun-54	54	5514	1007	35797	1509	6114	98913	14969	7724	0	64268	30007	29764	168466	83896	3194	0
Jul-54	55	12135	1040	37409	1559	6114	84251	35064	7821	0	57381	56611	26229	153446	155572	4061	0
Aug-54	56	10002	1040	37805	1559	6114	58550	21873	7836	0	49572	49765	22978	139943	135832	3798	0
Sep-54	57	7342	1007	36790	1509	6114	19932	22304	7287	0	30749	34378	16850	91399	95871	2957	0
Oct-54	58	2212	1040	38033	1559	6114	24513	5338	7067	0	26621	4924	16501	86042	14833	2402	0
Nov-54	59	1322	1007	36547	1509	6114	21509	7240	6231	0	7488	46	16648	66626	150	1707	0
Dec-54	60	1412	1040	37330	1559	6114	20348	6124	6280	0	3448	0	13724	52015	0	1658	0
Jan-55	61	1105	1040	36765	1559	6114	19869	3864	6434	0	690	0	8826	45676	0	1786	0
Feb-55	62	1773	940	32713	1408	6114	18439	7344	5753	0	375	0	9119	42629	0	1789	0
Mar-55	63	2395	1040	35707	1559	6114	21380	12416	6127	0	3647	0	10403	54319	0	2123	0
Apr-55	64	2708	1007	34142	1509	6114	26536	7970	5908	0	22375	1457	12840	60850	4005	2649	0
May-55	65	13348	1040	35162	1559	6114	99054	50877	6602	0	59093	10853	26423	157444	30774	3313	0
Jun-55	66	17447	1007	34350	1509	6114	153638	43701	6725	0	57312	17492	26093	185841	48589	3868	0
Jul-55	67	11311	1040	36118	1559	6114	73733	39369	7173	0	53959	59900	27643	143559	166304	4731	0
Aug-55	68	15315	1040	36747	1559	6114	91827	44392	7569	0	57278	54090	26894	163711	147344	4340	0
Sep-55	69	12812	1007	36017	1509	6114	36485	38449	6838	0	41829	22248	22344	130328	61977	3448	0
Oct-55	70	2786	1040	37379	1559	6114	25843	8702	6684	0	24854	4588	19380	97719	13826	2619	0
Nov-55	71	2769	1007	35945	1509	6114	25602	8400	6032	0	1839	0	10622	52783	1	1854	0
Dec-55	72	675	1040	36717	1559	6114	23256	3750	6267	0	1619	0	10320	46268	0	1805	0
Jan-56	73	1640	1040	36173	1559	6114	19366	5838	6518	0	442	0	8761	45908	0	1946	0
Feb-56	74	1754	973	33345	1458	6114	17782	10355	6073	0	558	0	9391	43683	0	2000	0
Mar-56	75	2079	1040	35135	1559	6114	29350	10252	6497	0	2698	0	7964	55585	0	2238	0
Apr-56	76	4801	1007	33619	1508	6114	25173	16614	6186	0	17638	50	10744	55357	141	2774	0
May-56	77	11634	1040	34777	1559	6114	193776	39187	6809	0	76449	11359	32783	198146	30570	3487	0
Jun-56	78	8558	1007	34276	1508	6114	238323	22208	6471	0	85513	36230	36707	249036	99542	4033	0
Jul-56	79	24546	1040	36357	1559	6114	86573	65432	7004	0	65982	36225	28724	161483	100906	4929	0
Aug-56	80	17893	1040	37084	1559	6114	63765	47254	7592	0	58864	41949	26114	155961	112377	4467	0

Table H-2 Summary of Water Budget Components

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		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Sep-56	81	1322	1007	36255	1508	6114	25580	2001	6116	0	39245	37424	17226	102574	103614	3559	0
Oct-56	82	1540	1040	37520	1559	6114	20917	4463	6499	0	27479	7652	14464	96451	22370	2699	0
Nov-56	83	4471	1007	36054	1508	6114	24956	13507	5738	0	1053	0	10903	40919	4	1929	0
Dec-56	84	2023	1040	36799	1559	6114	22965	6831	6152	0	2038	0	13249	57024	0	1886	0
Jan-57	85	1426	1040	36205	1536	6114	20359	4660	6318	0	1242	0	7782	36785	0	2015	0
Feb-57	86	1119	940	32210	1387	6114	21480	7747	5734	0	1176	0	9280	53149	0	2004	0
Mar-57	87	2090	1040	35129	1536	6114	20662	10970	6394	0	3333	0	8254	46089	0	2321	0
Apr-57	88	23452	1007	33615	1486	6114	79113	81351	6922	0	5420	2	15011	88767	5	2935	0
May-57	89	41674	1040	34543	1536	6114	494701	132754	8153	0	15007	94	37196	186235	254	3646	0
Jun-57	90	12455	1007	33611	1486	6114	665273	30376	7776	0	84964	15110	58570	319954	40623	4191	0
Jul-57	91	14166	1040	35755	1536	6114	432142	32704	8735	0	125732	34363	70554	402146	93970	5062	0
Aug-57	92	14225	1040	37122	1536	6114	193666	47873	8752	0	107490	34094	57281	287616	91887	4606	0
Sep-57	93	4923	1007	36822	1481	6114	73783	12616	7970	0	71015	20893	39944	190376	57361	3706	0
Oct-57	94	10989	1040	38429	1530	6114	76567	38106	7740	0	25173	3502	21683	124295	9901	2832	0
Nov-57	95	1473	1007	37107	1480	6114	73873	8047	7009	0	3189	0	15895	74836	0	2082	0
Dec-57	96	309	1040	37951	1530	6114	55914	2338	6898	0	5279	0	20328	86030	0	2031	0
Jan-58	97	1230	1040	37424	1530	6114	50594	6589	7065	0	3505	0	7107	20353	0	2183	0
Feb-58	98	2055	940	33326	1382	6114	44691	8530	6327	0	1727	0	8231	32806	0	2206	0
Mar-58	99	4820	1040	36356	1530	6114	54095	18974	6579	0	1264	0	16090	30388	0	2535	0
Apr-58	100	12671	1007	34761	1480	6114	86864	41979	6647	0	19840	0	16018	42500	0	3048	0
May-58	101	26354	1040	35630	1530	6114	615135	89127	8071	0	34481	6219	27841	140085	16924	3777	0
Jun-58	102	16197	1007	34735	1479	6114	360314	43294	8069	0	91766	22616	50862	306385	61578	4314	0
Jul-58	103	22274	1040	36762	1526	6114	107136	56938	8468	0	95569	29077	42892	242027	80282	5231	0
Aug-58	104	7191	1040	37709	1526	6114	95538	22762	8584	0	82937	47197	42693	225820	128351	4766	0
Sep-58	105	10067	1007	37170	1476	6114	43619	27201	8074	0	59815	21939	28701	160011	61212	3837	0
Oct-58	106	3104	1040	38664	1526	6114	38632	10114	7647	0	25453	4570	20791	113661	13199	2936	0
Nov-58	107	1401	1007	37199	1476	6114	35134	7368	6256	0	3565	13	14216	68647	38	2166	0
Dec-58	108	2409	1040	38003	1526	6114	41595	8204	7647	0	2488	0	15350	76286	0	2121	0
Jan-59	109	2340	1040	37445	1526	6114	35507	12581	7628	0	2135	0	13931	70871	0	2312	0
Feb-59	110	1971	940	33316	1378	6114	37534	12663	6831	0	1551	0	11903	54095	0	2302	0
Mar-59	111	7022	1040	36356	1526	6114	41227	25114	7804	0	1741	0	12834	58891	0	2676	0
Apr-59	112	8579	1007	34760	1476	6114	91358	28846	7014	0	3711	0	8706	40729	0	3215	0
May-59	113	26164	1040	35685	1526	6114	189229	74192	8180	0	42457	1320	26829	158597	3810	3973	0
Jun-59	114	7331	1007	34904	1474	6114	298740	18168	8362	0	106180	29842	52102	302331	80190	4575	0
Jul-59	115	7070	1040	37059	1522	6114	132857	18635	9154	0	101734	50864	45666	254638	137746	5501	0
Aug-59	116	5198	1040	38087	1522	6114	116771	13480	9265	0	86827	54593	39778	227129	148053	5004	0
Sep-59	117	13121	1007	37516	1473	6114	52606	40697	8732	0	58315	23080	27593	149976	61938	4037	0
Oct-59	118	16338	1040	38994	1522	6114	68942	49597	8027	0	7585	1647	24945	115715	4712	3084	0
Nov-59	119	494	1007	37470	1473	6114	53513	3938	6974	0	2206	0	23782	99175	0	2297	0
Dec-59	120	358	1040	38240	1522	6114	48472	2171	7536	0	1900	0	15656	66649	0	2231	0

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		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Jan-60	121	2055	1040	37652	1522	6114	30110	7869	7330	0	1664	0	10139	42858	0	2380	0
Feb-60	122	3085	973	34684	1424	6114	34474	17747	6471	0	804	0	10035	47262	0	2506	0
Mar-60	123	2217	1040	36540	1522	6114	97262	10012	7700	0	1412	0	11606	63802	0	2777	0
Apr-60	124	10422	1007	34969	1473	6114	87587	36706	7292	0	28219	818	22321	80024	2319	3372	0
May-60	125	18475	1040	36119	1522	6114	224350	56868	8380	0	68843	7831	44503	222063	21257	4154	0
Jun-60	126	7971	1007	35514	1473	6114	290283	19929	8649	0	100802	28646	51078	294686	77387	4763	0
Jul-60	127	13276	1040	37723	1522	6114	138811	33459	10030	0	102773	42181	44089	250749	115051	5695	0
Aug-60	128	2296	1040	38765	1520	6114	93195	6041	9952	0	80819	61743	35235	204128	165056	5189	0
Sep-60	129	5779	1007	38143	1470	6114	45888	16037	9390	0	50420	34516	23352	137084	94999	4201	0
Oct-60	130	14630	1040	39575	1519	6114	41685	45664	8788	0	24577	4561	27729	129971	13279	3227	0
Nov-60	131	845	1007	38011	1470	6114	37890	6809	7512	0	1025	19	14778	66470	50	2432	0
Dec-60	132	2746	1040	38783	1519	6114	39345	13536	7512	0	2334	0	16174	63921	0	2364	0
Jan-61	133	197	1040	38161	1519	6114	50358	1380	7324	0	1196	0	12690	73639	0	2472	0
Feb-61	134	1013	940	33931	1372	6114	36001	6585	6304	0	2636	0	12967	59270	0	2481	0
Mar-61	135	8730	1040	37016	1519	6114	46031	31790	7034	0	1129	0	14642	77000	0	2837	0
Apr-61	136	5248	1007	35375	1470	6114	54289	17861	6848	0	5234	0	14790	64337	0	3382	0
May-61	137	29316	1040	36328	1519	6114	260659	87571	8027	0	51758	1921	32285	175544	5416	4164	0
Jun-61	138	13219	1007	35338	1470	6114	488538	35987	8406	0	66533	22734	38408	221109	60342	4772	0
Jul-61	139	24303	1040	37226	1519	6114	128657	58447	9013	0	105116	31740	45927	250288	85033	5705	0
Aug-61	140	15043	1040	38224	1519	6114	137094	41757	9317	0	99909	40729	47370	257105	107502	5201	0
Sep-61	141	25166	1007	37814	1470	6114	118220	82511	9506	0	51391	9482	36813	167638	24953	4213	0
Oct-61	142	3955	1040	39369	1519	6114	135441	13372	8521	0	8053	3406	14479	82558	9143	3239	0
Nov-61	143	1468	1007	37862	1470	6114	114196	7992	7411	0	1082	0	12533	77848	0	2445	0
Dec-61	144	771	1040	38669	1519	6114	78077	2883	7321	0	1878	0	8555	34208	0	2377	0
Jan-62	145	2584	1040	38112	1509	6114	67413	11854	7798	0	1328	0	5879	22865	0	2498	0
Feb-62	146	1617	940	33923	1363	6114	82216	9656	6906	0	963	0	11185	50063	0	2486	0
Mar-62	147	1441	1040	36988	1509	6114	72924	4504	7420	0	1992	0	8891	37208	0	2839	0
Apr-62	148	4139	1007	35351	1460	6114	124024	16251	7778	0	26812	1774	22236	106961	4632	3390	0
May-62	149	18434	1040	36578	1507	6114	189008	43757	8812	0	87213	10808	34938	231298	28840	4173	0
Jun-62	150	29413	1007	36007	1442	6114	241445	66460	8889	0	65552	15860	31243	199047	43095	4793	0
Jul-62	151	16774	1040	38204	1490	6114	202721	42577	9047	0	107187	37472	50042	292736	103154	5729	0
Aug-62	152	7388	1040	39208	1490	6114	104549	15803	10114	0	99547	46355	47069	242140	124068	5222	0
Sep-62	153	2943	1007	38622	1442	6114	50460	7604	8426	0	68294	16300	33625	168295	44595	4231	0
Oct-62	154	5846	1040	40045	1490	6114	52228	14597	8247	0	18562	5232	15913	100330	15345	3249	0
Nov-62	155	1660	1007	38505	1438	6114	43271	7811	7767	0	2013	122	20381	95272	343	2452	0
Dec-62	156	789	1040	39256	1478	6114	43627	1981	7692	0	703	0	13463	66242	0	2383	0
Jan-63	157	2067	1040	38609	1478	6114	31616	8304	7700	0	1035	0	11417	53143	0	2494	0
Feb-63	158	769	940	34321	1335	6114	34913	3007	6474	0	658	0	12991	50555	0	2480	0
Mar-63	159	3380	1040	37383	1478	6114	39623	17186	8943	0	824	0	6650	29871	0	2831	0
Apr-63	160	3716	1007	35732	1430	6114	32278	6381	9167	0	32363	3077	17094	78341	8269	3381	0

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-63	161	5470	1040	36873	1478	6114	103098	14861	10168	0	73195	24505	30563	188782	67538	4165	0
Jun-63	162	21681	1007	36067	1427	6114	126401	73682	10212	0	63334	33391	27665	183304	91126	4784	0
Jul-63	163	10707	1040	37930	1469	6114	75997	23156	11073	0	74648	73791	32567	176708	198892	5733	0
Aug-63	164	24704	1040	38556	1469	6114	86942	64108	10715	0	67486	39853	30861	188560	106441	5228	0
Sep-63	165	19973	1007	37797	1422	6114	66396	47013	9274	0	48769	18864	27604	144501	51872	4236	0
Oct-63	166	3932	1040	39186	1469	6114	36861	9814	9302	0	22936	11883	25053	131847	34340	3254	0
Nov-63	167	1011	1007	37827	1422	6114	35106	4104	8219	0	7626	308	11629	51346	875	2459	0
Dec-63	168	1283	1040	38784	1469	6114	34649	5573	8351	0	1742	0	11775	45926	0	2391	0
Jan-64	169	562	1040	38238	1469	6114	29940	3306	8554	0	1741	0	12380	60030	0	2503	0
Feb-64	170	1616	973	35235	1374	6114	26128	9031	8053	0	928	0	9721	52081	0	2625	0
Mar-64	171	2726	1040	37089	1461	6114	36180	13817	8658	0	686	0	10888	60303	0	2934	0
Apr-64	172	10674	1007	35435	1414	6114	42135	29505	8902	0	9539	260	13711	58686	687	3475	0
May-64	173	16172	1040	36565	1461	6114	127064	46696	9151	0	74510	11725	31710	185185	30961	4244	0
Jun-64	174	13177	1007	35841	1414	6114	151101	29398	9130	0	71220	26857	35658	223982	74024	4971	0
Jul-64	175	6901	1040	37899	1461	6114	115422	20001	11009	0	89995	77822	39034	219124	208662	5869	0
Aug-64	176	5980	1040	38721	1461	6114	77019	14649	10559	0	67850	62720	29022	165984	168629	5285	0
Sep-64	177	5215	1007	38002	1414	6114	31271	10931	9205	0	40559	35405	17797	108376	96273	4292	0
Oct-64	178	1286	1040	39307	1461	6114	24623	3458	8937	0	28466	5530	16813	101175	16768	3271	0
Nov-64	179	2032	1007	37771	1414	6114	28791	8955	8028	0	8201	7	15116	80589	25	2455	0
Dec-64	180	632	1040	38532	1461	6114	29343	4070	8433	0	515	0	12882	55381	0	2388	0
Jan-65	181	2102	1040	37923	1422	6114	26416	9127	8075	0	421	0	12574	59977	0	2520	0
Feb-65	182	2189	940	33734	1285	6114	24920	9756	7077	0	552	0	8450	51666	0	2613	0
Mar-65	183	2537	1040	36764	1422	6114	27714	11907	8183	0	1580	0	10054	60829	0	3082	0
Apr-65	184	5682	1007	35165	1376	6114	43105	24282	8643	0	23329	1538	15409	73985	4122	3647	0
May-65	185	20140	1040	36290	1422	6114	123350	49643	10218	0	71023	9931	33081	185321	26678	4412	0
Jun-65	186	37269	1007	35477	1376	6114	635603	98295	9804	0	38899	10478	47747	270007	28468	5367	0
Jul-65	187	29037	1040	37552	1422	6114	371119	91988	11043	0	87303	36290	42288	255824	97481	6218	0
Aug-65	188	9066	1040	38584	1422	6114	259689	23015	10115	0	93961	45736	50890	259368	122592	5525	0
Sep-65	189	18155	1007	38138	1376	6114	92484	54492	9137	0	52774	8967	30372	142741	23821	4514	0
Oct-65	190	6381	1040	39623	1422	6114	80168	14389	8854	0	10068	4899	9676	73100	13785	3389	0
Nov-65	191	234	1007	38127	1376	6114	51180	2779	7742	0	3326	401	12473	58030	1084	2544	0
Dec-65	192	2068	1040	38913	1420	6114	49977	6427	7764	0	968	0	10295	46028	0	2478	0
Jan-66	193	1077	1040	38343	1419	6114	47561	2664	7595	0	1988	0	5464	26379	0	2594	0
Feb-66	194	1504	940	34118	1282	6114	41171	10195	6301	0	1173	0	4835	23350	0	2685	0
Mar-66	195	1178	1040	37174	1419	6114	42964	2959	7806	0	1292	0	12483	64907	0	3152	0
Apr-66	196	8553	1007	35531	1374	6114	32368	23852	8097	0	18717	102	12168	65518	309	3718	0
May-66	197	3311	1040	36580	1419	6114	94746	9347	11482	0	66249	21056	29442	161231	56623	4483	0
Jun-66	198	18815	1007	35707	1374	6114	103416	45224	10477	0	58983	27670	26026	166430	75158	5369	0
Jul-66	199	10839	1040	37622	1419	6114	90401	26589	11071	0	75219	73820	33646	179153	199606	6221	0
Aug-66	200	14210	1040	38345	1419	6114	81212	32535	9861	0	66752	49345	29974	167382	133008	5531	0

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Sep-66	201	20745	1007	37617	1374	6114	46410	43438	9074	0	39535	23553	23508	123869	64789	4520	0
Oct-66	202	6256	1040	38957	1419	6114	36807	15946	9964	0	18033	3864	17752	107962	11089	3394	0
Nov-66	203	1012	1007	37494	1374	6114	29414	4384	9753	0	1361	18	18905	86369	56	2538	0
Dec-66	204	424	1040	38281	1419	6114	26627	1472	12051	0	2902	0	12109	50289	0	2473	0
Jan-67	205	1641	1040	37738	1419	6114	26962	7891	11887	0	1805	0	9824	59772	0	2677	0
Feb-67	206	688	940	33629	1279	6114	22886	3547	8346	0	641	0	8907	57008	0	2798	0
Mar-67	207	2011	1040	36695	1416	6114	21639	7293	9606	0	3435	12	8335	54426	39	3311	0
Apr-67	208	18565	1007	35159	1370	6114	33848	61615	10202	0	29957	2561	19226	97485	7192	3904	0
May-67	209	34996	1040	36250	1416	6114	91698	94303	11325	0	47443	4031	25636	144136	11259	4668	0
Jun-67	210	33607	1007	35241	1370	6114	268343	92315	11839	0	25750	7817	37124	182657	21803	5737	0
Jul-67	211	22210	1040	36899	1416	6114	220656	68352	11237	0	75299	32877	44549	225667	89066	6563	0
Aug-67	212	8478	1040	37615	1416	6114	114924	25274	12970	0	102767	45594	48266	235446	120169	5768	0
Sep-67	213	5270	1007	37158	1370	6114	66498	15377	12183	0	58602	36137	34018	157842	98096	4730	0
Oct-67	214	3829	1040	38788	1416	6114	43357	16797	11690	0	24292	7666	28764	144784	22240	3513	0
Nov-67	215	2271	1007	37523	1370	6114	45960	9863	4662	0	6712	8	17094	71364	24	2626	0
Dec-67	216	2602	1040	38503	1416	6114	37663	10498	5436	0	722	0	12087	62058	0	2545	0
Jan-68	217	663	1040	38027	1416	6114	41801	3549	5933	0	1613	0	10491	48139	0	2673	0
Feb-68	218	1723	973	35095	1324	6114	45607	8237	6345	0	817	0	12588	66762	0	2892	0
Mar-68	219	2104	1040	37100	1416	6114	42026	8673	8174	0	11202	0	10082	54494	0	3303	0
Apr-68	220	10149	1007	35653	1370	6114	39183	34602	10925	0	19985	3	16347	76387	55	3896	0
May-68	221	15510	1040	36746	1416	6114	100263	40147	12110	0	63502	3528	28094	157080	9375	4660	0
Jun-68	222	7801	1007	35944	1366	6114	244801	17903	12664	0	91239	32927	42935	250530	87322	5729	0
Jul-68	223	11392	1040	38174	1412	6114	143959	30790	13624	0	97410	50888	40078	240329	135189	6557	0
Aug-68	224	15955	1040	39172	1412	6114	105476	46753	13768	0	83233	38816	42282	216648	104463	5764	0
Sep-68	225	1989	1007	38518	1366	6114	53005	9049	12555	0	53573	40232	29563	156795	110404	4725	0
Oct-68	226	4593	1040	39978	1412	6114	46384	14314	9863	0	20688	8128	22677	111120	23027	3508	0
Nov-68	227	2370	1007	38459	1366	6114	34614	9119	6645	0	3692	13	14782	63254	37	2621	0
Dec-68	228	1137	1040	39292	1412	6114	31342	4275	6411	0	957	0	11900	60612	0	2540	0
Jan-69	229	659	1040	38688	1412	6114	32981	2210	6306	0	1252	0	13392	68142	0	2669	0
Feb-69	230	772	940	34423	1275	6114	29525	3402	5573	0	1189	0	10757	57659	0	2786	0
Mar-69	231	2009	1040	37535	1412	6114	31164	9515	6169	0	1044	0	10411	59146	0	3294	0
Apr-69	232	9536	1007	35866	1366	6114	32160	25752	8448	0	18652	3656	14096	74093	9776	3887	0
May-69	233	31467	1040	36938	1412	6114	453130	107563	12279	0	49214	9275	40488	212302	24702	4652	0
Jun-69	234	19805	1007	35959	1366	6114	570300	61886	14278	0	54267	26286	40276	218448	70496	5742	0
Jul-69	235	17549	1040	37899	1412	6114	188829	38540	14310	0	110915	55486	59766	300136	148101	6571	0
Aug-69	236	11052	1040	38924	1412	6114	106238	29171	14547	0	91027	62595	43090	231654	166684	5780	0
Sep-69	237	10088	1007	38476	1366	6114	56492	23565	13682	0	53167	24139	31820	153891	65758	4741	0
Oct-69	238	30898	1040	40034	1412	6114	96912	90747	15680	0	8504	550	32771	144589	1488	3524	0
Nov-69	239	1600	1007	38607	1366	6114	106796	7238	12631	0	1444	0	17611	101766	0	2638	0
Dec-69	240	835	1040	39512	1412	6114	76796	3905	12431	0	1713	0	7237	49735	0	2558	0

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Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Jan-70	241	249	1040	38974	1410	6114	65524	937	12373	0	2586	0	4577	21330	0	2764	0
Feb-70	242	194	940	34724	1271	6114	49902	509	11322	0	1071	0	3267	17985	0	2867	0
Mar-70	243	5085	1040	37865	1408	6114	53858	25783	12816	0	957	0	8167	44115	0	3407	0
Apr-70	244	9216	1007	36194	1362	6114	152306	23672	13915	0	2760	34	3754	16229	100	4000	0
May-70	245	10489	1040	37259	1408	6114	335105	28133	14988	0	55440	16724	29207	194446	44477	4803	0
Jun-70	246	22645	1007	36362	1362	6114	564968	65624	16058	0	71966	23824	39831	236164	64600	5860	0
Jul-70	247	12449	1040	38453	1408	6114	239659	35852	16551	0	115877	57341	62882	342021	154573	6876	0
Aug-70	248	7757	1040	39420	1408	6114	123357	17507	16925	0	104478	59875	51772	264298	163013	5936	0
Sep-70	249	11879	1007	38924	1362	6114	59140	43894	15839	0	55793	21126	36560	170858	59043	4848	0
Oct-70	250	7229	1040	40439	1408	6114	65836	20831	15161	0	7358	2807	21228	109824	8253	3638	0
Nov-70	251	2336	1007	38937	1362	6114	77885	10411	13077	0	2120	0	13889	83444	0	2754	0
Dec-70	252	671	1040	39824	1408	6114	69075	1799	12856	0	1917	0	11375	71155	0	2670	0
Jan-71	253	1926	1040	39276	1408	6114	56246	5701	12883	0	987	0	6790	48117	0	2788	0
Feb-71	254	2549	940	35004	1271	6114	46240	10363	11524	0	730	0	7843	40826	0	2870	0
Mar-71	255	2651	1040	38171	1408	6114	51836	7555	13141	0	1731	0	10454	54329	0	3380	0
Apr-71	256	21556	1007	36550	1362	6114	126962	67206	14436	0	7834	6	12589	58318	16	4060	0
May-71	257	13989	1040	37555	1408	6114	328438	39441	16329	0	31607	6263	25101	118092	17867	4876	0
Jun-71	258	7827	1007	36527	1362	6114	428785	16580	15385	0	93401	34987	58421	350626	98290	5997	0
Jul-71	259	6815	1040	38712	1408	6114	214334	20795	15790	0	120002	56623	58794	326071	157847	6926	0
Aug-71	260	7494	1040	39809	1408	6114	115665	17227	16362	0	96051	62358	44128	240903	172567	5996	0
Sep-71	261	21152	1007	39261	1362	6114	83551	65222	16006	0	42616	12934	28164	141262	35969	4873	0
Oct-71	262	4520	1040	40747	1408	6114	48454	13586	15043	0	6087	2866	17516	110966	8413	3713	0
Nov-71	263	537	1007	39170	1362	6114	57567	2494	14295	0	2192	0	15434	94859	0	2802	0
Dec-71	264	601	1040	40012	1408	6114	51006	2996	14419	0	1065	0	12214	65754	0	2712	0
Jan-72	265	1611	1040	39439	1387	6114	49849	5937	14397	0	531	0	7064	36247	0	2817	0
Feb-72	266	760	973	36349	1298	6114	45540	4284	12002	0	989	0	12054	51443	0	3005	0
Mar-72	267	1445	1040	38270	1387	6114	35889	6451	8908	0	1227	68	13063	64395	212	3474	0
Apr-72	268	11894	1007	36626	1336	6114	41219	40862	13063	0	28940	3605	20152	104580	10826	4099	0
May-72	269	10527	1040	37745	1378	6114	102178	21613	15493	0	67161	14122	31437	175283	41276	4849	0
Jun-72	270	20158	1007	36879	1334	6114	260677	52763	14805	0	73119	28117	47582	285588	81965	5924	0
Jul-72	271	8464	1040	38890	1378	6114	108542	24320	16465	0	94335	51600	41537	234117	149084	6926	0
Aug-72	272	20556	1040	39700	1373	6114	85133	57205	16565	0	75890	39855	37351	197531	113317	5952	0
Sep-72	273	12098	1007	38903	1328	6114	46905	30810	15898	0	26692	30514	26595	128956	88936	4935	0
Oct-72	274	4196	1040	40242	1372	6114	55195	15280	15526	0	17826	6136	16678	117698	18560	3807	0
Nov-72	275	7453	1007	38711	1328	6114	49172	25877	9524	0	2015	0	18799	105515	0	2823	0
Dec-72	276	2267	1040	39617	1371	6114	47579	8509	9139	0	624	0	11331	60670	0	2739	0
Jan-73	277	3075	1040	39102	1368	6114	52383	12457	13256	0	731	0	6935	46703	0	2833	0
Feb-73	278	343	940	34836	1235	6114	41129	1292	13613	0	1151	0	8704	56749	0	2922	0
Mar-73	279	6525	1040	38012	1368	6114	45364	22399	14971	0	1581	0	11262	67300	0	3447	0
Apr-73	280	19421	1007	36363	1324	6114	82270	64025	16830	0	7933	2	8378	51557	5	4014	0

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-73	281	23169	1040	37344	1368	6114	769237	82712	20482	0	25660	304	13650	88392	970	4707	0
Jun-73	282	7553	1007	36353	1321	6114	502024	20576	19334	0	89855	23991	55463	331283	69772	6006	0
Jul-73	283	15883	1040	38531	1363	6114	243005	50178	19982	0	112106	39708	60692	353769	115887	6901	0
Aug-73	284	4382	1040	39705	1363	6114	120629	14317	19019	0	103595	55734	52339	277654	161355	6011	0
Sep-73	285	23522	1007	39209	1319	6114	70521	60447	17542	0	38842	13660	20075	113238	40568	4906	0
Oct-73	286	3607	1040	40762	1363	6114	60892	11715	16646	0	7814	8901	6677	51877	27019	3769	0
Nov-73	287	3658	1007	39216	1319	6114	60739	12998	14478	0	4015	11	10525	75336	37	2829	0
Dec-73	288	4849	1040	40141	1363	6114	54611	20604	14652	0	3440	0	12882	76394	0	2738	0
Jan-74	289	2004	1040	39658	1346	6114	57450	10672	15028	0	1612	0	8123	37807	0	2847	0
Feb-74	290	1454	940	35298	1216	6114	54234	7392	14838	0	1033	0	11126	53242	0	2925	0
Mar-74	291	5259	1040	38503	1346	6114	71343	14933	16329	0	1526	0	17109	76217	0	3475	0
Apr-74	292	13280	1007	36808	1303	6114	87882	38458	15746	0	5421	283	13228	70211	936	4105	0
May-74	293	1195	1040	37971	1346	6114	206220	2973	16886	0	79193	19458	43170	238169	58883	4984	0
Jun-74	294	20772	1007	37274	1303	6114	301801	56626	17545	0	89670	28110	48794	313283	85151	6074	0
Jul-74	295	14241	1040	39536	1346	6114	162039	37134	19521	0	112554	53276	47214	283899	157924	7061	0
Aug-74	296	4998	1040	40623	1346	6114	106705	11816	18978	0	98047	47434	41515	247681	140015	6022	0
Sep-74	297	4631	1007	39973	1287	6114	55052	18375	17815	0	40445	21369	28362	143487	64319	4959	0
Oct-74	298	7364	1040	41404	1329	6114	60067	29771	17414	0	16177	6264	21293	121579	19277	3803	0
Nov-74	299	2337	1007	39787	1286	6114	47310	10961	13572	0	5911	22	18486	103717	71	2830	0
Dec-74	300	468	1040	40613	1329	6114	42390	3842	9233	0	3730	0	15513	77526	0	2739	0
Jan-75	301	430	1040	40007	1329	6114	45943	2669	8620	0	3030	0	12142	61657	0	2857	0
Feb-75	302	885	940	35606	1200	6114	39431	5086	10813	0	2047	0	11664	61457	0	2942	0
Mar-75	303	2513	1040	38842	1329	6114	38864	10834	11428	0	1813	0	15753	82458	0	3434	0
Apr-75	304	10908	1007	37117	1286	6114	47464	32348	14474	0	15527	16	18037	85559	57	4058	0
May-75	305	39369	1040	38291	1329	6114	88167	94513	17245	0	77338	1576	33555	182467	4831	4731	0
Jun-75	306	13291	1007	37466	1283	6114	321379	38291	18598	0	64038	22010	44801	259010	67927	5860	0
Jul-75	307	17726	1040	39725	1316	6114	252259	54719	19968	0	142850	40312	62239	366762	122853	6841	0
Aug-75	308	9768	1040	41106	1316	6114	135673	36720	20667	0	111743	44442	49287	284024	134765	5862	0
Sep-75	309	3352	1007	40773	1273	6114	71481	9226	18214	0	59060	25215	37547	202555	77639	4885	0
Oct-75	310	2213	1040	42346	1316	6114	43881	7934	12254	0	18473	5087	19263	121026	16374	3790	0
Nov-75	311	4130	1007	40699	1273	6114	44046	18552	10899	0	5190	0	16010	98513	0	2845	0
Dec-75	312	1646	1040	41523	1316	6114	45291	5899	10301	0	4317	0	16586	82776	0	2769	0
Jan-76	313	1038	1040	40920	1316	6114	41268	4307	13402	0	4303	0	13444	72298	0	2878	0
Feb-76	314	1267	973	37709	1231	6114	32299	4380	13872	0	3369	0	15143	82778	0	3075	0
Mar-76	315	2392	1040	39663	1316	6114	31409	11567	14312	0	2229	0	16385	79725	0	3515	0
Apr-76	316	11560	1007	37923	1273	6114	31774	34273	13160	0	21279	204	18412	90038	673	4231	0
May-76	317	20578	1040	39018	1316	6114	67962	42975	17602	0	59419	6790	30862	169459	21344	4954	0
Jun-76	318	6822	1007	38176	1266	6114	126503	22343	16994	0	93066	29138	39282	244398	93573	6210	0
Jul-76	319	13499	1040	40455	1304	6114	133740	37026	19732	0	99724	51462	41749	262599	162488	7257	0
Aug-76	320	9672	1040	41366	1304	6114	143755	32252	19663	0	89661	45435	42621	255079	143574	6156	0

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Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Sep-76	321	15150	1007	40660	1262	6114	67550	59068	18454	0	48066	23788	29160	163775	76458	5081	0
Oct-76	322	3386	1040	42103	1304	6114	37626	15222	15435	0	11746	3834	22299	112223	12413	3883	0
Nov-76	323	608	1007	40354	1262	6114	36551	2200	7284	0	4114	0	18669	93692	0	2878	0
Dec-76	324	358	1040	41095	1304	6114	37960	2521	9350	0	2072	0	17307	95828	0	2793	0
Jan-77	325	738	1040	40440	1304	6114	30722	1495	8848	0	3435	0	13731	77195	0	2904	0
Feb-77	326	315	940	35938	1177	6114	30829	2832	9293	0	3089	0	14132	79087	0	2990	0
Mar-77	327	3080	1040	39145	1304	6114	34189	10478	12784	0	3152	0	11634	65346	0	3538	0
Apr-77	328	19169	1007	37422	1262	6114	49987	55119	12707	0	27375	1415	20865	106790	4674	4180	0
May-77	329	13824	1040	38563	1304	6114	60736	28734	15773	0	54732	15502	27230	155060	51336	5015	0
Jun-77	330	10777	1007	37744	1262	6114	110944	29877	15616	0	77890	41919	35777	215504	135741	6143	0
Jul-77	331	22396	1040	39712	1304	6114	96792	62297	16922	0	69080	54261	35041	199914	170671	7112	0
Aug-77	332	10231	1040	40230	1296	6114	92288	28566	16769	0	74688	44845	36049	206144	142084	6033	0
Sep-77	333	1417	1007	39227	1251	6114	34230	3241	15327	0	43161	28525	24052	125370	93095	5133	0
Oct-77	334	685	1040	40490	1293	6114	26237	3610	13629	0	24838	5006	16431	105562	16985	3894	0
Nov-77	335	1874	1007	38832	1251	6114	27698	7309	8899	0	4751	19	13385	74424	74	2885	0
Dec-77	336	712	1040	39634	1293	6114	31669	1494	11639	0	4275	0	18344	89426	0	2793	0
Jan-78	337	1719	1040	39068	1293	6114	32647	4693	10312	0	2727	0	12096	74422	0	2901	0
Feb-78	338	1197	940	34792	1168	6114	27011	3508	10439	0	924	0	11332	70450	0	2947	0
Mar-78	339	1157	1040	37966	1293	6114	30795	8488	10337	0	1512	0	16142	85531	1	3450	0
Apr-78	340	9292	1007	36334	1251	6114	34063	31442	13021	0	22207	2435	17509	91748	8034	4188	0
May-78	341	33549	1040	37418	1293	6114	143029	102609	15121	0	36291	5870	36881	191990	19368	4977	0
Jun-78	342	14263	1007	36570	1251	6114	353660	36026	15787	0	88062	22919	51667	321455	75822	6298	0
Jul-78	343	7025	1040	38838	1293	6114	178897	18386	18453	0	115828	50978	50645	302152	165170	7354	0
Aug-78	344	10204	1040	40081	1293	6114	116691	21066	18325	0	102843	39430	41028	249666	126143	6328	0
Sep-78	345	346	1007	39573	1251	6114	41641	2292	16602	0	48149	33761	26901	146584	109976	5311	0
Oct-78	346	10103	1040	41024	1293	6114	41240	31134	15813	0	23821	3203	19112	119189	10642	3997	0
Nov-78	347	1206	1007	39355	1251	6114	41697	4179	12341	0	2502	1	16688	90622	5	2901	0
Dec-78	348	3317	1040	40132	1293	6114	40702	11521	13000	0	3026	0	13915	89301	0	2805	0
Jan-79	349	1363	1040	39506	1234	6114	39326	4645	13216	0	4093	0	11156	73827	0	2916	0
Feb-79	350	558	940	35151	1114	6114	37487	3808	11557	0	2666	0	9388	57607	0	3008	0
Mar-79	351	7946	1040	38320	1234	6114	43104	22013	13417	0	1043	0	18563	99395	0	3558	0
Apr-79	352	11440	1007	36648	1194	6114	79613	33368	15759	0	9681	106	25789	115035	485	4247	0
May-79	353	27537	1040	37658	1234	6114	279209	82730	19677	0	33748	3405	34884	162470	10942	4981	0
Jun-79	354	23905	1007	36551	1194	6114	603925	66945	20917	0	61607	15204	37426	206383	50101	6265	0
Jul-79	355	10494	1040	38564	1234	6114	200773	23117	20524	0	125046	35897	57309	338437	119427	7417	0
Aug-79	356	29049	1040	39643	1234	6114	151402	86715	21277	0	77718	22200	39954	235218	73875	6168	0
Sep-79	357	5076	1007	39070	1194	6114	59963	13792	19097	0	47103	36376	31121	173272	119028	5282	0
Oct-79	358	6771	1040	40536	1231	6114	54880	21832	17917	0	24801	5794	23797	137027	19558	3984	0
Nov-79	359	6155	1007	38978	1187	6114	56562	20878	13901	404	6766	0	14436	81243	0	2920	0
Dec-79	360	3199	1040	39841	1226	6114	64642	15006	15005	381	4434	0	11204	46849	0	2807	0

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Jan-80	361	3285	1040	39311	1226	6114	73921	9798	17329	204	3762	0	7777	37634	0	2939	0
Feb-80	362	1743	973	36275	1147	6114	85775	6887	15925	0	3093	0	8697	38953	0	3117	0
Mar-80	363	5245	1040	38185	1226	6114	105080	16917	17415	98	1218	0	13521	60820	0	3559	0
Apr-80	364	13643	1007	36500	1187	6114	248981	40502	18261	685	5249	0	11228	49655	0	4206	0
May-80	365	21857	1040	37358	1226	6114	1236330	71491	22947	1905	21600	1123	27036	131942	3569	4901	0
Jun-80	366	5307	1007	36234	1187	6114	642657	10950	21152	1434	98236	28744	66648	357989	96317	6366	0
Jul-80	367	14602	1040	38319	1226	6114	215840	42920	21783	495	118599	39645	63690	358395	133732	7403	0
Aug-80	368	8764	1040	39383	1226	6114	129179	24293	20925	625	102708	38102	49477	279836	127104	6299	0
Sep-80	369	5723	1007	38866	1187	6114	62559	15445	18662	601	49370	30102	35781	188217	101805	5232	0
Oct-80	370	1682	1040	40388	1220	6114	41264	5850	15962	385	28333	5499	25473	141379	18735	3982	0
Nov-80	371	1801	1007	38831	1178	6114	49264	8054	12315	530	7054	11	16197	96933	46	2925	0
Dec-80	372	260	1040	39695	1218	6114	46485	1558	11981	210	4528	0	15043	79970	0	2832	150
Jan-81	373	830	1040	39171	1218	6114	40875	3125	12161	936	5010	0	14681	61751	0	2956	306
Feb-81	374	829	940	34895	1100	6114	33290	3665	11518	525	3999	0	16637	75056	0	2815	294
Mar-81	375	9602	1040	38100	1218	6114	36821	29493	15814	1102	2635	0	16333	83758	0	3121	402
Apr-81	376	10445	1007	36489	1178	6114	35891	24126	16278	793	18612	6768	18499	90649	22925	3853	180
May-81	377	33184	1040	37575	1218	6114	62375	88850	18265	351	45636	6124	28836	147245	21101	4559	0
Jun-81	378	9924	1007	36562	1178	6114	126137	23962	18959	141	65144	30942	35273	198405	105479	5403	0
Jul-81	379	20186	1040	38373	1218	6114	111957	46688	19665	0	94719	33795	42242	255124	113680	6576	0
Aug-81	380	10607	1040	39136	1218	6114	99817	26725	19656	0	86990	36668	39488	235216	121968	5912	0
Sep-81	381	3049	1007	38477	1178	6114	43083	10992	18218	0	52050	28126	30253	160541	94225	4939	0
Oct-81	382	5782	1040	39910	1218	6114	41654	14993	17777	69	26466	4750	21710	127954	16486	3846	0
Nov-81	383	876	1007	38344	1178	6114	29881	3530	12610	554	3475	151	16583	93755	518	2941	105
Dec-81	384	1322	1040	39159	1211	6114	29965	8202	12796	837	2677	0	15114	79650	0	2838	423
Jan-82	385	832	1040	38627	1209	6114	34135	3544	12492	403	3704	0	13127	68147	0	2917	402
Feb-82	386	416	940	34423	1092	6114	31316	1606	11239	412	3351	0	14148	75013	0	2807	396
Mar-82	387	1593	1040	37575	1209	6114	31923	7788	13350	899	3268	0	14304	80939	0	3157	396
Apr-82	388	2564	1007	35989	1170	6114	22287	6601	16333	644	26086	1125	16010	89236	3879	4005	258
May-82	389	26616	1040	37088	1209	6114	65768	78456	17687	412	52631	6601	29308	158254	22774	4647	132
Jun-82	390	26005	1007	36215	1170	6114	201963	65335	17002	952	60417	12415	38746	239655	43011	5259	0
Jul-82	391	19226	1040	38334	1209	6114	240992	52827	18583	867	112715	31547	52961	311713	108052	6598	0
Aug-82	392	12406	1040	39437	1209	6114	163880	39967	18680	1062	102483	34316	52440	310634	117359	5965	0
Sep-82	393	15266	1007	39027	1170	6114	108485	46473	19153	2548	48411	20150	37552	202448	68617	4828	0
Oct-82	394	6098	1040	40611	1209	6114	77689	22912	18060	3669	16998	3100	32333	152503	10837	3834	0
Nov-82	395	2442	1007	39076	1170	6114	54456	6374	13409	3714	2710	0	18110	103923	0	2956	0
Dec-82	396	3650	1040	39921	1209	6114	55563	17631	16983	2484	2527	0	7286	36661	0	2855	527
Jan-83	397	122	1040	39383	1209	6114	54969	653	16612	1394	2968	0	6129	22064	0	2922	393
Feb-83	398	398	940	35087	1092	6114	48888	1608	13193	1610	1101	0	6731	23484	0	2780	369
Mar-83	399	11416	1040	38275	1209	6114	105010	46913	18710	3213	2056	0	15252	62410	0	3092	435
Apr-83	400	20623	1007	36625	1170	6114	292029	54058	19612	4133	2509	0	8849	35592	0	3661	498

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		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-83	401	29250	1040	37558	1201	6114	743074	83131	22656	8619	19547	89	13777	79910	319	4472	454
Jun-83	402	26590	1007	36250	1162	6114	1394116	74359	21859	6729	46081	5416	23785	136829	18306	5091	114
Jul-83	403	14619	1040	37993	1201	6114	665482	47966	22285	2692	116761	35559	65748	363979	121893	6525	0
Aug-83	404	14912	1040	39038	1201	6114	269553	35714	21368	2999	99822	37080	58001	330010	125491	5961	0
Sep-83	405	1883	1007	38749	1162	6114	90611	6378	19620	2353	53264	24345	35195	174042	82862	5001	0
Oct-83	406	2337	1040	40420	1201	6114	61169	6436	19051	6374	20973	2594	18214	105528	9263	3912	0
Nov-83	407	6619	1007	38971	1162	6114	63666	28758	13462	6406	4856	1	11469	54837	8	2931	291
Dec-83	408	1804	1040	39829	1201	6114	73882	6948	16112	2544	262	0	5628	27151	0	2870	441
Jan-84	409	1348	1040	39280	1201	6114	76248	3649	17524	1978	421	0	2611	19062	0	2946	408
Feb-84	410	2627	973	36237	1123	6114	80776	10864	16034	2351	991	0	6025	32224	0	2908	408
Mar-84	411	5591	1040	38147	1201	6114	86043	18700	18017	2785	1199	0	17021	76743	0	3108	345
Apr-84	412	20380	1007	36472	1162	6114	214608	52886	19431	3565	861	0	14862	64021	0	3687	724
May-84	413	10897	1040	37465	1201	6114	609635	25552	20977	7566	30731	5024	28910	162713	17373	4768	367
Jun-84	414	14342	1007	36579	1162	6114	464207	44666	20811	3933	76500	24246	51884	293243	84468	5298	174
Jul-84	415	12101	1040	38915	1201	6114	337103	35871	21664	1509	130431	42914	74216	412039	146275	6606	0
Aug-84	416	16423	1040	40186	1201	6114	271711	48347	21763	3214	101000	30977	57584	318307	106707	5759	0
Sep-84	417	3537	1007	39804	1162	6114	123875	12515	19806	3135	50163	21648	28346	160179	74802	4913	0
Oct-84	418	21769	1040	41396	1201	6114	160696	71189	21900	6367	10337	717	13251	86233	2501	3713	0
Nov-84	419	424	1007	39809	1162	6114	129754	1494	18179	6272	3276	0	9563	60531	0	2849	288
Dec-84	420	1371	1040	40602	1201	6114	87078	4801	13768	2894	1632	0	14520	57921	0	2783	177
Jan-85	421	2252	1040	39997	1179	6114	75354	8518	14490	1620	1210	0	10671	31347	0	2859	342
Feb-85	422	1052	940	35580	1065	6114	67529	6680	14130	1199	361	0	8317	32101	0	2693	288
Mar-85	423	1486	1040	38752	1179	6114	66360	8501	17646	5413	1124	0	23190	106068	0	3054	54
Apr-85	424	14797	1007	37091	1136	6114	107229	45792	17828	7488	22637	2602	25902	130606	9415	3820	21
May-85	425	14265	1040	38275	1171	6114	218480	35229	20110	9363	41717	15106	30177	174915	53450	4591	354
Jun-85	426	13726	1007	37638	1134	6114	302975	40508	20162	4368	103346	26737	55872	313160	93989	5410	129
Jul-85	427	27432	1040	40015	1171	6114	155346	71302	21982	2529	101718	28768	53352	306457	99915	6511	0
Aug-85	428	2890	1040	40944	1168	6114	109926	8265	21804	2756	101181	41247	55218	279121	140629	6029	0
Sep-85	429	14688	1007	40216	1129	6114	58972	41284	19978	5863	43015	10690	29261	146505	38141	4788	0
Oct-85	430	5335	1040	41658	1167	6114	56074	15326	19335	14240	7182	1379	18786	99752	4999	3720	0
Nov-85	431	4780	1007	39995	1129	6114	62623	20451	17361	8704	1843	0	13783	75182	0	2888	120
Dec-85	432	2655	1040	40851	1166	6114	59786	9580	18213	5604	2060	0	6027	32912	0	2823	324
Jan-86	433	469	1040	40294	1163	6114	56034	2324	18240	4517	1576	0	5641	34486	0	2916	237
Feb-86	434	1514	940	35882	1051	6114	49811	5828	16262	3423	1351	0	13066	64689	0	2780	138
Mar-86	435	1517	1040	39138	1163	6114	58007	6457	17867	11278	5125	7	21214	101779	37	3218	180
Apr-86	436	17036	1007	37422	1126	6114	133217	55189	19809	7013	8527	1436	12706	59024	5171	3788	33
May-86	437	14311	1040	38592	1163	6114	156349	39936	21189	6476	62440	9579	41527	239596	34416	4800	87
Jun-86	438	14141	1007	37835	1120	6114	497414	36509	21117	9314	80929	22919	49024	272363	82606	5398	132
Jul-86	439	10153	1040	40174	1154	6114	245746	32457	22342	1286	131853	37467	67423	384760	130433	6756	0
Aug-86	440	7463	1040	41310	1154	6114	109739	20464	21877	1427	101473	35889	53736	268110	122326	6096	0

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Sep-86	441	6616	1007	40682	1117	6114	69788	15187	19543	3486	50884	19820	29639	140531	69107	4897	0
Oct-86	442	11900	1040	42134	1154	6114	62970	35589	19827	9484	14097	2916	16853	98264	10580	3806	0
Nov-86	443	2992	1007	40514	1117	6114	67089	19763	17598	9282	4451	0	18977	101795	0	2898	120
Dec-86	444	1580	1040	41412	1154	6114	57978	6074	17975	6598	4753	0	13981	64072	0	2841	210
Jan-87	445	1301	1040	40856	1151	6114	48324	8207	18296	4744	4825	0	11823	51801	0	2909	243
Feb-87	446	4620	940	36382	1040	6114	44685	14990	16664	7263	3664	0	13437	58619	0	2775	180
Mar-87	447	4219	1040	39678	1151	6114	75087	16284	19243	8463	1570	0	8937	33680	0	3075	93
Apr-87	448	5875	1007	37935	1114	6114	133982	19050	19491	9136	9534	699	19755	100180	2708	3817	24
May-87	449	38413	1040	39048	1151	6114	381376	98063	21660	5530	43180	5091	31282	163071	18130	4661	45
Jun-87	450	17491	1007	38089	1114	6114	252536	64786	22005	5367	68554	25695	47635	239204	90667	5466	36
Jul-87	451	10801	1040	39997	1151	6114	112025	26126	23194	838	99067	42843	52507	278524	147096	7052	0
Aug-87	452	13837	1040	40619	1151	6114	101075	43747	23252	1297	91890	26891	46254	230710	93320	6039	0
Sep-87	453	5346	1007	39799	1114	6114	54851	15391	20590	3439	40893	16483	28145	147507	58575	4859	0
Oct-87	454	5067	1040	41166	1151	6114	45780	21637	18859	6675	19272	3566	26116	129553	13063	3912	0
Nov-87	455	4932	1007	39565	1114	6114	48346	20598	15525	10172	2734	1	21337	106108	6	2907	30
Dec-87	456	3386	1040	40460	1151	6114	43469	17202	18143	5044	1915	0	11869	62662	0	2826	165
Jan-88	457	2050	1040	39963	1152	6114	39331	5422	18572	753	1649	0	2245	13012	0	2893	294
Feb-88	458	1395	973	36917	1078	6114	49147	6822	17549	1530	2850	0	5946	18663	0	2876	222
Mar-88	459	4631	1040	38906	1152	6114	60828	17878	19105	9413	1040	0	18578	80372	0	3057	249
Apr-88	460	4941	1007	37254	1115	6114	66052	17467	18890	9182	12148	162	25646	113837	587	3767	153
May-88	461	32285	1040	38429	1152	6114	135185	86832	21819	6192	47459	4471	34085	187531	16303	4764	0
Jun-88	462	9748	1007	37682	1115	6114	225449	32212	21264	6455	89478	33947	51757	297821	118447	5503	147
Jul-88	463	11922	1040	39911	1152	6114	130261	30806	21470	1170	99883	42116	50314	276982	145116	7157	0
Aug-88	464	9622	1040	40723	1152	6114	114943	38814	22145	1006	99315	37861	49829	257602	129086	6082	0
Sep-88	465	10168	1007	39944	1115	6114	45571	28153	18988	1500	44455	16926	33026	168980	60236	4952	0
Oct-88	466	420	1040	41368	1152	6114	37667	1726	15821	850	21550	7568	23044	130853	27520	3986	0
Nov-88	467	853	1007	39728	1115	6114	44922	4549	10013	1748	3811	62	18340	93479	212	2950	123
Dec-88	468	2654	1040	40602	1152	6114	46522	12132	15557	4183	3527	0	11673	59446	0	2850	225
Jan-89	469	3104	1040	40072	1152	6114	40180	11441	13962	2776	2116	0	8879	46416	0	2930	198
Feb-89	470	1893	940	35740	1041	6114	41492	7147	13151	3747	1235	0	9706	49714	0	2821	252
Mar-89	471	1522	1040	39027	1152	6114	47303	6344	14074	7670	1110	0	18058	94516	0	3121	264
Apr-89	472	5903	1007	37377	1115	6114	36576	21220	12647	2472	23690	3026	20050	105535	10943	3885	108
May-89	473	13300	1040	38641	1154	6114	84592	46973	14735	552	76095	13516	37074	194116	49463	4648	0
Jun-89	474	22760	1007	37784	1118	6114	138763	61967	15495	1440	59283	16792	42392	249018	61334	5159	54
Jul-89	475	19160	1040	39798	1155	6114	138262	44178	16145	709	109716	36112	48274	259618	123010	6761	0
Aug-89	476	14640	1040	40606	1155	6114	99325	37553	16273	380	84027	27967	43394	239708	98665	5838	0
Sep-89	477	14550	1007	39858	1118	6114	53113	44721	12260	6429	35743	13087	33721	160605	46340	4863	0
Oct-89	478	3990	1040	41271	1155	6114	46037	12522	9700	9946	19290	4508	22947	111873	16456	3890	0
Nov-89	479	390	1007	39663	1118	6114	42682	2367	8664	1964	2487	52	18801	105903	197	2906	159
Dec-89	480	1569	1040	40533	1155	6114	41401	7753	9486	513	1845	0	13910	70297	0	2839	153

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Jan-90	481	3189	1040	40003	1155	6114	41203	9364	16063	4034	2565	0	13602	67392	0	2848	273
Feb-90	482	952	940	35689	1043	6114	34917	5225	14764	4649	1052	0	9695	47643	0	2687	288
Mar-90	483	11518	1040	39008	1155	6114	71097	44989	19249	14143	667	0	16151	74751	0	2962	240
Apr-90	484	6777	1007	37408	1118	6114	94946	25844	18287	8351	9779	140	18538	91843	503	3577	99
May-90	485	14154	1040	38592	1155	6114	92335	43127	19575	1160	65833	5865	34492	191350	21919	4652	0
Jun-90	486	4320	1007	37695	1118	6114	217113	10110	20190	4077	76816	33830	48614	295999	122976	4990	0
Jul-90	487	23400	1040	39795	1155	6114	128328	67938	22026	958	98793	22346	46263	266220	81593	6189	0
Aug-90	488	16278	1040	40615	1155	6114	96188	41562	21366	1394	96852	25887	42666	241836	92126	5608	0
Sep-90	489	11684	1007	39929	1118	6114	66466	31350	19662	3058	52527	23352	34970	186270	82544	4799	102
Oct-90	490	6283	1040	41447	1155	6114	48489	18375	18965	10687	14672	3574	22898	131988	13335	3677	255
Nov-90	491	4030	1007	39888	1118	6114	48565	13925	12154	4416	2993	18	21508	95741	89	2836	291
Dec-90	492	572	1040	40825	1158	6114	36452	2814	13421	892	1457	0	12316	67861	0	2812	396
Jan-91	493	1206	1040	40324	1158	6114	35798	6925	17960	2424	2013	0	8687	49405	0	2935	375
Feb-91	494	181	940	35982	1046	6114	32170	621	15547	6345	536	0	13175	59146	0	2755	408
Mar-91	495	2389	1040	39304	1158	6114	31582	7511	14460	14498	2176	0	16674	71535	0	3119	297
Apr-91	496	7405	1007	37633	1121	6114	29078	30105	16970	3427	27767	2182	20077	99995	8509	3772	195
May-91	497	17716	1040	38793	1158	6114	87295	54124	20071	565	62133	12137	34209	198619	45954	4692	12
Jun-91	498	19128	1007	37813	1121	6114	313377	57607	21011	7992	61791	25161	47911	291287	93115	5287	141
Jul-91	499	23017	1040	39849	1158	6114	141522	60049	21411	620	108440	29256	52137	288798	102370	6556	0
Aug-91	500	13565	1040	40709	1158	6114	119950	50781	22175	1238	99260	29077	50023	273552	102608	5909	0
Sep-91	501	7973	1007	40045	1121	6114	62754	20901	20059	7267	47078	16859	30701	162447	60643	4997	0
Oct-91	502	4742	1040	41585	1158	6114	37049	15125	18193	12837	16356	3760	19279	111006	14021	3932	150
Nov-91	503	6797	1007	40070	1121	6114	53950	28743	14857	1290	4012	0	22934	120686	0	3019	564
Dec-91	504	393	1040	41047	1158	6114	44452	1274	18228	5461	3367	0	18661	98555	0	2879	546
Jan-92	505	3403	1040	40562	1158	6114	43907	11184	18324	4302	4426	0	8886	45424	0	2929	600
Feb-92	506	368	973	37502	1084	6114	41615	799	17062	6124	2406	0	9798	42135	0	2897	417
Mar-92	507	12079	1040	39591	1158	6114	88841	46560	20646	12725	1740	0	15697	68436	0	3095	273
Apr-92	508	4950	1007	37952	1121	6114	85064	14708	19997	10611	15028	4153	23133	119334	15907	3805	278
May-92	509	6240	1040	39251	1158	6114	130958	23588	21082	387	74393	19393	37970	231145	71988	4815	0
Jun-92	510	25554	1007	38436	1121	6114	169874	67779	20912	1759	63486	18311	42997	267960	68986	5156	231
Jul-92	511	17167	1040	40504	1158	6114	125761	44328	21536	1115	95416	28663	47008	264824	102267	6438	222
Aug-92	512	22161	1040	41217	1158	6114	111575	66382	22080	5069	90400	20687	43692	228183	73283	5791	42
Sep-92	513	1566	1007	40386	1121	6114	49138	3533	20015	6772	49763	15792	29200	146618	57029	4945	183
Oct-92	514	3896	1040	41801	1161	6114	43062	9487	19357	11757	24692	3435	22144	119444	12843	3896	531
Nov-92	515	4376	1007	40212	1124	6114	44308	20805	14341	9252	5425	0	20737	96202	0	2879	573
Dec-92	516	1882	1040	41176	1162	6114	43283	7280	17197	3589	3102	0	9203	52435	0	2840	567
Jan-93	517	1213	1040	40671	1162	6114	44266	3046	16286	3321	2455	0	7221	46067	0	3011	663
Feb-93	518	3336	940	36313	1050	6114	41089	11222	15794	3674	2808	0	10607	56493	0	2941	570
Mar-93	519	2581	1040	39686	1162	6114	49017	13819	18369	7359	1758	0	13693	63640	0	3032	597
Apr-93	520	14295	1007	38028	1124	6114	55674	41601	19003	13473	8677	2	19187	88373	5	3848	570

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-93	521	11496	1040	39245	1162	6114	114675	32624	20510	472	65350	9344	37395	211248	35212	4875	282
Jun-93	522	19063	1007	38318	1124	6114	259658	49375	20664	4772	74103	18567	52473	298176	69459	5336	426
Jul-93	523	11514	1040	40541	1162	6114	180561	28568	21407	534	118540	31202	55473	310620	113611	6661	0
Aug-93	524	12239	1040	41608	1162	6114	111341	29055	21461	941	105856	25642	45119	251332	91429	5997	0
Sep-93	525	13180	1007	41006	1124	6114	74764	40477	17616	8926	43895	10697	26571	137409	39550	4909	393
Oct-93	526	14098	1040	42574	1162	6114	51438	40483	18824	10297	14309	976	16435	100729	3653	4098	606
Nov-93	527	4414	1007	40956	1124	6114	58466	15805	13545	5649	4701	0	25360	103429	0	3065	468
Dec-93	528	1013	1040	41888	1162	6114	52941	4133	12761	2438	4377	0	17114	87503	0	2813	408
Jan-94	529	2147	1040	41344	1162	6114	45374	7357	16835	3883	3066	0	11405	65064	0	3009	420
Feb-94	530	1385	940	36883	1050	6114	40273	6995	14303	3463	1873	0	11163	50604	0	2447	447
Mar-94	531	1486	1040	40290	1162	6114	50569	11830	16961	8180	2200	0	18421	84990	0	2583	627
Apr-94	532	11508	1007	38602	1124	6114	69070	39697	15868	5556	24144	410	24707	107608	1566	3649	270
May-94	533	7588	1040	39839	1162	6114	159920	23426	20568	782	73693	16933	43363	236034	63463	4240	99
Jun-94	534	8510	1007	38909	1124	6114	176883	32421	20452	623	90242	34593	50642	279117	128186	4978	15
Jul-94	535	8845	1040	40957	1162	6114	99666	27544	20597	567	91616	36027	42413	237027	130328	6556	0
Aug-94	536	10686	1040	41582	1162	6114	88769	33107	21033	341	72089	39935	35386	205223	141669	5835	0
Sep-94	537	4175	1007	40589	1124	6114	45030	11675	19179	988	45309	20458	26482	136939	74867	5247	0
Oct-94	538	17123	1040	41961	1162	6114	38467	40075	18743	17579	14788	2323	18726	101440	8827	4080	318
Nov-94	539	2400	1007	40326	1124	6114	45374	10938	12401	2433	5100	0	18518	97664	0	2952	609
Dec-94	540	1370	1040	41260	1162	6114	37986	3694	12456	524	3314	0	19745	91010	0	2845	516
Jan-95	541	1059	1040	40731	1123	6114	36965	3157	13051	616	2727	0	16890	85823	0	2958	615
Feb-95	542	2086	940	36336	1014	6114	31399	9039	11973	611	1029	0	13689	71658	0	2712	501
Mar-95	543	1808	1040	39709	1123	6114	34596	7478	13498	2286	2579	0	15598	84792	0	3011	615
Apr-95	544	18002	1007	38067	1087	6114	44872	57125	16462	14168	18406	0	20297	94245	0	3582	606
May-95	545	34068	1040	39231	1123	6114	406529	110178	22727	17712	31313	255	33725	179600	959	4499	591
Jun-95	546	31858	1007	38002	1087	6114	1123584	91643	23846	11929	29403	8654	24815	115465	32891	5319	627
Jul-95	547	9264	1040	39777	1123	6114	593592	27038	23328	6317	96748	34014	64277	338867	123888	6639	576
Aug-95	548	4980	1040	40730	1123	6114	152112	14675	22392	1523	118839	38900	64566	322192	138894	5939	207
Sep-95	549	18738	1007	40432	1082	6114	97425	49673	20685	6627	66840	11728	39820	198000	42350	4835	246
Oct-95	550	4381	1040	42324	1118	6114	56432	10111	19908	10005	12548	1586	19948	111483	5555	3655	600
Nov-95	551	2418	1007	40893	1082	6114	54857	7087	13476	8333	2391	25	17264	95984	75	2663	474
Dec-95	552	344	1040	41894	1118	6114	52770	1046	13598	6033	765	0	16228	86722	0	2667	522
Jan-96	553	2218	1040	41430	1118	6114	47717	9831	18246	4419	1341	0	8630	53947	0	2983	552
Feb-96	554	411	973	38335	1046	6114	49845	2065	15798	4457	1088	0	7881	46092	0	2911	483
Mar-96	555	4403	1040	40469	1118	6114	54157	17326	18166	8966	2047	0	16097	73565	0	2833	429
Apr-96	556	5384	1007	38817	1082	6114	69424	15861	16627	6315	33295	868	23923	124387	3221	3675	231
May-96	557	23376	1040	40241	1118	6114	214960	70288	21225	4267	84557	8159	43333	269344	31342	4516	60
Jun-96	558	15276	1007	39535	1081	6114	398999	41755	19317	12359	72276	25660	56952	337528	97615	5123	189
Jul-96	559	20266	1040	41776	1113	6114	194273	42169	22212	1466	113914	29295	60173	326490	107334	7021	18
Aug-96	560	11360	1040	42639	1113	6114	103809	28767	22125	1588	100573	27852	52001	263916	101961	5854	0

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		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Sep-96	561	19439	1007	41920	1078	6114	80957	56167	20965	9182	39397	12018	25683	127607	44033	4717	0
Oct-96	562	3107	1040	43446	1113	6114	65382	7680	20207	11133	14443	2879	23813	114184	10258	3907	678
Nov-96	563	1216	1007	41779	1078	6114	57837	6840	15007	7880	3283	2	23574	112351	5	2878	720
Dec-96	564	265	1040	42702	1113	6114	47807	2233	16947	5765	2269	0	10569	65479	0	3138	477
Jan-97	565	2095	1040	42153	1113	6114	46073	6237	17943	3270	1536	0	5446	48346	0	2727	642
Feb-97	566	2002	940	37615	1006	6114	42632	9277	16692	6628	1537	0	10729	61351	0	2678	674
Mar-97	567	1544	1040	41088	1113	6114	47206	5178	16886	12112	2464	0	15344	70798	0	3222	897
Apr-97	568	11265	1007	39406	1078	6114	80102	47800	18692	11343	27489	15	25362	121421	47	3380	211
May-97	569	14815	1040	40681	1113	6114	235858	36386	21495	2347	88161	7436	52832	276770	28458	4353	199
Jun-97	570	22673	1007	39619	1075	6114	804729	63770	21640	14718	45929	19221	39966	198951	75757	4953	602
Jul-97	571	25447	1040	41752	1110	6114	186346	73786	22477	2376	123674	27054	59043	319893	98876	6323	156
Aug-97	572	27083	1040	42656	1110	6114	187954	81683	24196	6381	65677	24287	48769	242679	87028	5435	0
Sep-97	573	7140	1007	41880	1074	6114	111824	28660	21786	5653	55539	21977	38137	188133	80182	4599	0
Oct-97	574	15683	1040	43426	1110	6114	96576	44958	21204	8939	19713	2452	20550	114345	9251	3963	264
Nov-97	575	2065	1007	41859	1074	6114	100002	10093	19379	5716	3830	0	14196	71799	0	3064	756
Dec-97	576	2040	1040	42813	1110	6114	79222	8446	19398	5056	1621	0	9982	60215	0	2650	792
Jan-98	577	553	1040	42337	1110	6114	70562	2277	19554	2826	1608	0	4269	20479	0	3282	842
Feb-98	578	1769	940	37799	1003	6114	62407	4087	17373	5743	867	0	11566	48833	0	3065	865
Mar-98	579	3156	1040	41282	1110	6114	88261	20562	19850	11042	1533	0	13996	63095	0	3392	972
Apr-98	580	10738	1007	39566	1074	6114	213419	45434	21958	16259	18022	240	23965	117274	830	3980	890
May-98	581	14299	1040	40728	1110	6114	306224	41218	24037	8042	63523	12279	49839	272617	48140	4876	934
Jun-98	582	10731	1007	39804	1074	6114	225656	28940	22620	6589	89427	22208	49633	271051	84966	5562	898
Jul-98	583	30816	1040	42172	1110	6114	203394	94679	23962	3212	119846	22229	55645	330523	83518	6890	232
Aug-98	584	7533	1040	43163	1109	6114	143025	26094	24188	3643	93291	33333	54674	284321	123640	6174	456
Sep-98	585	5562	1007	42462	1072	6114	67094	18525	21956	6110	55509	22154	35403	173437	81932	5272	414
Oct-98	586	14659	1040	44035	1108	6114	60435	37814	21411	15718	15326	3989	15537	78168	14833	4036	786
Nov-98	587	2492	1007	42455	1072	6114	61753	11426	19012	14489	1958	48	20861	112880	169	3121	745
Dec-98	588	1727	1040	43402	1108	6114	54880	7544	19291	6351	1173	0	13164	75537	0	3052	673
Jan-99	589	1130	1040	42869	1108	6114	54548	5391	18175	4282	1749	0	10566	64165	0	2762	546
Feb-99	590	603	940	38253	1001	6114	42818	2437	15535	3327	1165	0	8089	57729	0	2619	518
Mar-99	591	1297	1040	41796	1108	6114	44916	4800	18733	13263	6338	0	17735	88740	0	2951	653
Apr-99	592	40493	1007	40166	1072	6114	124130	126949	21470	13664	23476	162	26376	128319	524	3382	453
May-99	593	19360	1040	41335	1108	6114	538948	52770	25090	12599	26731	8220	29770	163819	32676	4209	362
Jun-99	594	12844	1007	40028	1072	6114	579439	38935	23537	9157	62579	26426	46248	273905	100294	4823	546
Jul-99	595	14923	1040	41966	1108	6114	211013	45057	23874	3238	113165	36113	63103	343244	134759	6277	348
Aug-99	596	23083	1040	42818	1108	6114	221765	67751	25079	8839	85960	23638	48150	240272	87366	5450	87
Sep-99	597	17076	1007	42159	1072	6114	91582	44659	22476	8062	37506	12978	27048	131761	48775	4600	401
Oct-99	598	2501	1040	43819	1108	6114	79911	9834	21798	13744	13118	2289	18471	110213	8140	3588	734
Nov-99	599	1316	1007	42255	1072	6114	69642	5953	18292	9347	2011	174	13957	84164	624	2713	706
Dec-99	600	924	1040	43221	1108	6114	67333	5246	16908	5411	2398	0	9904	34606	0	2600	742

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
Jan-00	601	990	1040	42746	1077	6114	67764	5430	20001	7644	1175	0	9360	46904	0	2875	935
Feb-00	602	1225	973	39520	1008	6114	60577	3821	18492	4509	1097	0	9458	38120	0	2824	1224
Mar-00	603	6232	1040	41723	1077	6114	55009	20010	20288	17403	2723	6	15201	66445	15	2974	1201
Apr-00	604	8053	1007	40025	1043	6114	65198	21901	20917	16928	22312	4226	24750	122772	16879	3623	1041
May-00	605	14536	1040	41279	1077	6114	157793	36551	22920	4184	65291	16781	41292	238205	65536	4411	536
Jun-00	606	6536	1007	40373	1043	6114	158258	21298	22416	920	87481	34580	46700	264108	129989	5035	3
Jul-00	607	9471	1040	42416	1066	6114	107692	30111	23940	769	86691	48723	42489	236073	176685	6170	3
Aug-00	608	14525	1040	42929	1057	6114	98011	45398	24064	700	76829	37921	39139	221832	138147	5779	3
Sep-00	609	11828	1007	41941	1023	6114	63715	37144	22440	363	42597	14851	29065	160646	55398	4674	11
Oct-00	610	7512	1040	43428	1057	6114	58421	16089	19179	1275	17862	1280	24134	135753	4800	3739	362
Nov-00	611	2084	1007	41825	1023	6114	51690	6345	15239	1554	1785	0	19458	92292	0	3347	664
Dec-00	612	1275	1040	42783	1057	6114	43902	4385	16309	2526	1112	0	13458	88353	0	3309	709
Jan-01	613	2072	1040	42274	1057	6114	41500	8799	20461	8803	1906	0	12262	59848	0	3066	995
Feb-01	614	1862	940	37730	955	6114	38928	8320	18642	9904	813	0	10515	55459	0	2864	1167
Mar-01	615	3793	1040	41269	1047	6114	43360	12786	20571	15944	3930	0	17903	99053	0	3154	1499
Apr-01	616	16279	1007	39633	1010	6114	49591	45947	21115	32779	9194	693	22481	94595	2660	3619	1227
May-01	617	29513	1040	40864	1044	6114	140926	79262	24775	14699	35678	7157	32986	192663	28361	4317	1261
Jun-01	618	8899	1007	39809	1010	6114	149172	20159	23674	9243	67586	36412	40111	250565	136257	5115	1117
Jul-01	619	28746	1040	41832	1044	6114	124752	69165	25088	1741	98501	31320	50888	250914	114355	6388	261
Aug-01	620	7829	1040	42520	1044	6114	95785	28458	24698	1225	87371	37081	46225	239223	136839	5939	3
Sep-01	621	9905	1007	41653	1010	6114	57071	26127	22679	9059	42252	20323	29788	160939	76704	5082	376
Oct-01	622	2949	1040	43175	1044	6114	37792	6315	22062	18437	23122	3918	22370	129194	14574	4277	900
Nov-01	623	3846	1007	41611	1010	6114	30503	11224	15689	12597	3115	27	18105	89956	97	3401	902
Dec-01	624	351	1040	42610	1038	6114	37051	2787	15222	4636	1135	0	16906	84155	0	3278	775
Jan-02	625	1630	1040	42155	1033	6114	34697	8961	14896	4556	1137	0	18547	80915	0	3208	848
Feb-02	626	880	940	37678	933	6114	29677	3758	16391	4437	1728	0	14755	67211	0	3261	1488
Mar-02	627	2639	1040	41275	1033	6114	37664	11414	18483	5643	1667	0	14768	82438	0	3540	2243
Apr-02	628	1424	1007	39645	1000	6114	23316	3267	19395	13503	26495	4636	20579	99831	18187	4555	953
May-02	629	8981	1040	40801	1033	6114	51713	32089	22180	1070	60724	16891	32743	156079	66842	5201	288
Jun-02	630	13463	1007	39591	1000	6114	63679	31177	21801	512	57947	38142	32661	164586	145987	5496	204
Jul-02	631	4497	1040	41177	1033	6114	51886	13470	21695	212	54821	61650	30413	144713	222905	6549	0
Aug-02	632	10941	1040	41244	1033	6114	35928	24356	21669	164	39718	46654	21866	110041	166114	5911	0
Sep-02	633	6494	1007	39966	1000	6114	27492	26350	20826	172	31768	22261	19006	99225	84026	5281	0
Oct-02	634	7825	1040	41251	1033	6114	29160	23502	20394	1318	27570	2485	18679	92415	9883	4111	80
Nov-02	635	1375	1007	39750	997	6114	24900	5020	14993	2791	2419	0	13452	72447	0	3416	720
Dec-02	636	134	1040	40714	1025	6114	23775	138	13119	5950	2293	0	14766	67128	0	3581	1103
Jan-03	637	412	1040	40272	1025	6114	23375	572	16682	7730	2679	0	14127	68850	0	3442	1544
Feb-03	638	2157	940	35993	925	6114	20307	9238	17231	6943	1027	0	11755	62031	0	3266	2823
Mar-03	639	11718	1040	39438	1025	6114	48142	61896	20196	10206	2087	0	18075	93790	0	3452	3215
Apr-03	640	15719	1007	38003	992	6114	96240	53668	20396	2305	25976	3678	28343	119182	15210	3626	839

Table H-2 Summary of Water Budget Components

Date	Stress Period	System Inflows											System Outflows				
		Precipitation Recharge	Alluvial Underflow	Lateral Boundary Inflow	Bedrock Inflow	Reservoir Leakage	Surface Water Inflow	Ungaged Surface Water Inflow	Discharges	Augmentation Recharge	Recharge from Surface Water Irrigation	Recharge from Groundwater Irrigation	Canal Leakage	Surface Water Diversions	Agricultural Wells	Municipal and Industrial Wells	Augmentation Wells
May-03	641	16942	1040	39318	1025	6114	175568	46565	22888	3900	43184	12806	37397	200041	51826	4050	431
Jun-03	642	16809	1007	38408	992	6114	303750	42189	21886	5036	70288	19483	51750	333209	76731	4633	165
Jul-03	643	6792	1040	40417	1025	6114	105813	17088	22576	313	89079	45401	46272	240223	169641	6054	12
Aug-03	644	17637	1040	41081	1025	6114	72713	55953	22323	713	81133	33315	41285	203437	124093	5614	0
Sep-03	645	4589	1007	40237	992	6114	52146	11527	20928	391	47627	13646	32371	151499	53890	4733	0
Oct-03	646	872	1040	41748	1025	6114	32666	2390	20279	15642	31559	4308	23729	118604	17379	4239	647
Nov-03	647	970	1007	40258	992	6114	41509	3799	13470	3343	3406	29	15437	91791	109	3339	1221
Dec-03	648	1456	1040	41250	1025	6114	29016	5512	13618	5755	1255	0	15384	79945	0	3458	1912
Jan-04	649	1258	1040	40777	1025	6114	32391	6044	14461	13281	1806	0	15775	81442	0	3233	3790
Feb-04	650	1815	973	37708	959	6114	33452	10021	16104	14790	1781	0	14438	85080	0	3136	4645
Mar-04	651	1600	1040	39845	1025	6114	36081	4826	18877	9383	3504	156	10413	74653	589	3224	3621
Apr-04	652	13146	1007	38286	992	6114	59325	50529	19525	1584	40937	3984	24283	122988	16682	3658	753
May-04	653	13916	1040	39555	1025	6114	92803	34708	21461	1111	66750	13608	31842	187579	56409	4354	502
Jun-04	654	17580	1007	38591	992	6114	123041	56946	21139	881	68373	17435	35723	211724	71657	4413	192
Jul-04	655	13195	1040	40437	1025	6114	132877	42252	22386	739	81488	29517	43768	238360	115540	5521	48
Aug-04	656	14994	1040	40927	1025	6114	102586	63275	22741	3169	80505	24009	40881	230448	93852	5006	3
Sep-04	657	11228	1007	39998	992	6114	67576	35299	20675	3268	64321	12445	35599	186092	50314	4411	2
Oct-04	658	7551	1040	41506	1025	6114	111794	24658	20687	14517	28055	5120	29458	163798	20817	3514	332
Nov-04	659	4012	1007	40061	992	6114	52715	15677	14153	4949	2952	0	19704	100033	7	2752	775
Dec-04	660	817	1040	41045	1025	6114	47833	2432	15635	6697	1182	0	13797	71158	0	2968	1304
Jan-05	661	2090	1040	40585	1025	6114	41912	11656	13157	11493	1999	0	17722	77762	0	3355	2695
Feb-05	662	589	940	36253	925	6114	36288	1876	13880	15414	1540	0	16788	73875	0	3059	3304
Mar-05	663	3284	1040	39676	1025	6114	41241	11862	16108	11050	2677	0	19397	89875	0	3368	2400
Apr-05	664	17591	1007	38135	992	6114	91227	52618	20031	32350	22693	293	26964	122000	1110	3823	951
May-05	665	12761	1040	39415	1025	6114	224142	36864	22007	12667	65924	7110	51379	235700	27705	4827	1136
Jun-05	666	29033	1007	38502	992	6114	343713	74350	22257	43878	56629	11579	49231	264083	44031	5187	1806
Jul-05	667	7889	1040	40513	1025	6114	107417	19503	22405	1153	92109	29125	47379	253775	108309	6807	18
Aug-05	668	11486	1040	41228	1025	6114	87284	41135	23123	2203	88824	21004	43231	230040	77364	5698	51
Sep-05	669	2820	1007	40405	992	6114	47436	8548	20718	2646	54557	16596	31367	158830	61873	5389	41
Oct-05	670	22930	1040	41985	1025	6114	78255	60850	20950	27739	22451	1246	28938	142998	4789	3843	2236
Nov-05	671	1494	1007	40568	992	6114	57800	3764	13323	1860	7414	78	20415	103410	314	3240	1
Dec-05	672	982	1040	41579	1025	6114	39400	4019	13193	5966	5229	0	16045	81388	0	3303	76
Jan-06	673	453	1040	41082	1025	6114	35497	3585	13135	14331	6413	0	21841	93865	0	3355	81
Feb-06	674	1023	940	36675	925	6114	31571	3976	15064	5216	10321	0	20116	82910	0	3059	160
Mar-06	675	4754	1040	40104	1025	6114	40604	14830	19848	18714	2134	0	14117	79351	0	3368	599
Apr-06	676	3494	1007	38481	992	6114	31779	11577	19900	14011	33355	4229	22663	112081	16202	3823	476
May-06	677	8659	1040	39754	1025	6114	86606	21906	21677	1471	72007	14469	34530	190429	53854	4827	278
Jun-06	678	5163	1007	38960	992	6114	126039	13012	21206	1023	71121	32289	36922	225383	118805	5187	117
Jul-06	679	16989	1040	41070	1025	6114	126325	47480	22853	1133	74083	28341	39980	223122	102299	6807	866
Aug-06	680	12702	1040	41670	1025	6114	89337	36436	22793	1341	68109	22955	33688	203412	82404	5698	1209

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Sep-06	681	8065	1007	40738	992	6114	49608	20666	21056	1948	50273	7878	28875	148059	30523	5389	1637
Oct-06	682	10496	1040	42262	1025	6114	49277	38106	20671	5901	34867	1716	28514	138282	6625	3843	878
Nov-06	683	1122	1007	40739	992	6114	38900	5193	14009	2160	5538	3	18292	97899	9	3240	567
Dec-06	684	6982	1040	41739	1025	6114	39408	29467	15361	5058	5061	0	19265	86697	0	3240	2100