APPENDIX E

Estimation of Monthly Potential San Juan-Chama Project Diversions
for Water Years 1936-2005

Table E-1. Monthly San Juan-Chama Project Theoretical Diversions
(Units: Acre-Feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	2,709	377	130	336	106	5,252	40,788	56,909	31,379	7,767	8,023	5,013	158,789
1937	2,289	3,123	951	439	429	1,041	31,206	52,548	39,284	10,305	1,633	569	143,817
1938	516	52	45	235	115	2,197	27,040	40,687	53,081	12,393	2,686	5,621	144,667
1939	3,498	550	300	240	4	4,983	21,021	36,645	14,471	766	402	2,640	85,520
1940	168	88	1	0	12	3,660	16,747	33,032	13,112	1,131	1,125	1,440	70,515
1941	3,255	398	646	418	364	1,564	10,797	54,737	56,246	42,118	9,169	5,323	185,033
1942	25,928	8,250	3,571	2,370	1,284	3,148	37,537	41,982	49,576	11,512	2,170	886	188,214
1943	254	32	141	76	152	2,266	32,664	30,608	24,329	5,820	2,471	532	99,343
1944	219	72	81	21	48	149	12,038	45,741	53,579	16,650	1,788	178	130,564
1945	865	264	257	338	408	1,061	18,871	52,840	44,185	9,498	2,449	85	131,122
1946	274	0	0	116	156	1,068	15,260	12,345	14,812	1,195	1,373	1,326	47,925
1947	1,434	972	575	109	367	2,402	10,822	31,942	23,935	4,392	4,766	3,038	84,755
1948	3,553	841	408	266	187	589	23,253	45,526	41,601	8,258	2,283	205	126,968
1949	108	91	7	59	10	893	20,696	41,285	50,873	23,243	3,871	730	141,866
1950	283	264	59	45	216	1,493	22,905	21,828	17,339	2,916	471	381	68,200
1951	237	0	24	18	8	399	6,616	20,962	17,775	990	1,457	397	48,883
1952	130	6	93	175	121	438	28,094	52,859	53,968	18,866	5,560	1,016	161,327
1953	168	30	153	79	105	2,657	15,102	19,620	30,341	3,577	1,055	0	72,886
1954	349	131	41	0	160	264	18,427	25,517	9,709	2,291	1,964	707	59,559
1955	667	8	18	7	0	267	7,303	21,866	23,097	2,443	3,170	391	59,239
1956	36	2	39	30	10	4,891	14,533	31,587	21,688	1,062	401	0	74,279
1957	74	0	0	0	103	838	12,628	24,643	56,507	41,474	16,306	3,912	156,485
1958	2,572	3,255	1,413	1,016	660	1,707	17,659	52,844	40,679	4,544	1,841	2,800	130,988
1959	515	9	24	11	0	224	8,870	15,873	16,761	427	2,216	195	45,125
1960	5,688	3,391	425	260	345	4,388	38,109	33,170	42,588	6,402	552	104	135,421
1961	41	5	0	0	0	841	17,912	36,132	19,347	2,024	3,227	3,442	82,973
1962	2,511	1,245	401	445	1,141	1,397	33,809	39,249	35,548	7,453	806	441	124,447
1963	838	192	183	38	250	4,265	16,846	28,646	6,628	850	591	682	60,010
1964	158	20	0	0	0	99	7,227	31,931	12,544	2,660	7,417	737	62,792
1965	175	13	167	201	297	282	18,368	41,016	52,201	31,438	6,298	5,989	156,445
1966	5,999	2,113	1,402	1,334	583	5,551	27,494	47,193	24,711	4,509	1,747	207	122,843
1967	195	5	1,196	185	175	3,315	11,347	23,319	25,835	7,967	10,379	3,744	87,662
1968	668	125	89	119	203	1,677	8,167	27,352	39,963	8,209	13,038	698	100,307
1969	334	15	27	34	13	623	23,883	42,172	32,692	13,698	5,097	3,662	122,249
1970	4,751	2,737	714	172	174	270	6,582	35,412	24,298	7,349	2,045	16,512	101,015
1971	3,156	1,715	632	777	900	3,449	13,128	13,426	21,097	4,233	3,471	1,079	67,061
1972	3,370	2,649	1,194	1,062	662	5,776	9,493	10,710	8,741	485	62	473	44,675
1973	17,412	4,667	2,416	2,243	1,203	2,006	12,020	49,270	56,530	31,306	4,728	2,135	185,936
1974	1,163	99	179	232	238	3,382	8,727	24,141	9,560	2,359	2,441	47	52,569
1975	617	758	48	89	8	194	10,664	42,611	54,821	36,272	5,092	1,878	153,052
1976	289	114	321	258	452	2,564	15,114	34,477	28,963	4,122	1,266	2,085	90,025
1977	1,092	6	0	149	11	427	4,965	4,575	2,825	1,832	4,598	2,213	22,691
1978	913	145	40	16	64	2,351	19,682	32,075	46,138	7,178	175	102	108,878
1979	315	261	336	587	350	783	21,249	45,194	56,301	32,532	5,756	155	163,820
1980	179	213	203	486	258	116	18,193	44,316	56,299	18,173	2,949	2,746	144,132
1981	366	428	344	162	44	107	11,687	18,354	19,978	3,894	1,015	1,142	57,521
1982	7,994	909	333	40	203	1,366	23,796	45,986	52,642	20,579	10,686	15,635	180,171
1983	5,765	2,762	1,898	1,551	1,121	3,474	12,228	34,900	56,108	29,903	6,814	1,843	158,366
1984	5,155	534	617	859	1,020	3,392	20,145	47,359	42,174	10,203	6,629	2,381	140,468
1985	8,805	4,516	2,092	2,095	1,098	7,009	40,056	53,705	55,033	23,104	5,526	6,690	209,730
1986	10,060	2,615	1,726	1,891	1,636	12,117	28,965	45,667	52,076	21,130	3,965	7,952	189,800
1987	18,151	12,855	3,712	1,764	1,242	3,710	27,027	40,389	45,877	8,197	2,426	188	165,538
1988	926	2,770	498	252	511	2,974	15,011	22,259	24,058	4,769	3,627	1,536	79,191
1989	161	107	236	278	715	12,535	26,225	21,033	11,385	2,561	2,683	660	78,579
1990	2,566	6	0	0	18	890	10,415	25,266	24,278	4,391	2,549	5,173	75,552
1991	7,234	3,612	904	657	1,204	2,246	29,312	44,901	36,534	6,837	5,659	4,212	143,310
1992	270	1,682	1,049	258	367	2,105	28,556	47,787	33,818	8,755	7,230	1,049	132,927
1993	145	385	147	309	242	5,768	22,751	47,460	53,009	17,590	9,366	5,070	162,242
1994	2,521	496	298	315	99	5,597	24,274	47,846	44,912	3,365	904	3,346	133,975
1995	1,829	1,431	1,093	883	2,462	9,951	16,005	36,457	55,896	40,349	9,928	2,158	178,441
1996	1,002	379	89	121	971	2,155	16,972	30,768	6,502	2,773	108	591	62,431
1997	311	1,061	173	813	531	10,176	14,467	45,118	48,588	12,274	9,861	7,535	150,910
1998	5,759	1,938	1,061	1,035	313	4,796	13,061	42,715	29,378	9,201	2,253	403	111,915
1999	3,966	3,433	1,333	746	772	4,919	13,297	33,600	39,971	12,992	14,247	4,723	133,999
2000	752	26	0	0	8	829	16,389	21,479	5,280	106	276	0	45,145
2001	1,028	274	250	220	46	1,743	20,025	51,892	29,719	4,937	5,357	333	115,823
2002	73	28	24	40	0	935	4,985	941	172	0	0	220	7,417
2003	210	194	44	24	50	1,489	11,895	27,013	19,091	821	718	4,156	65,705
2004	520	718	486	266	131	11,844	15,874	30,548	20,585	2,310	284	4,796	88,361
2005	3,316	1,971	611	897	864	2,186	32,166	46,897	50,411	13,529	4,773	4,428	162,048
Average:													
1936-05	2,698	1,206	542	437	400	2,879	18,706	35,159	33,049	10,418	3,961	2,468	111,923
1946-78	1,811	776	372	289	267	1,848	15,930	30,775	29,216	8,970	3,629	1,858	95,744
1971-05	3,354	1,593	697	611	566	3,867	17,966	34,604	34,250	11,516	4,212	2,832	116,069

Table E-2. Monthly San Juan-Chama Project Historical Diversions
(Units: Acre-Feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1971	0	46	29	0	0	615	10,927	13,192	20,956	4,199	3,471	928	54,362
1972	2,571	2,469	654	284	303	5,572	9,118	10,513	8,572	471	46	506	41,079
1973	16,703	3,892	2,091	1,559	1,180	1,742	11,845	47,328	53,560	28,652	4,310	2,061	174,923
1974	1,040	26	20	0	0	3,144	8,515	22,078	8,987	1,704	2,190	28	47,734
1975	192	356	34	42	47	88	10,039	42,312	53,789	33,374	4,535	649	145,457
1976	98	47	52	52	31	252	14,864	34,277	28,316	3,797	1,165	1,449	84,401
1977	905	54	52	61	67	53	4,538	4,184	2,727	1,217	3,671	1,873	19,403
1978	876	65	61	92	55	1,967	19,351	30,786	44,680	7,002	77	40	105,052
1979	26	58	17	20	24	448	20,265	48,540	57,906	31,419	5,391	81	164,196
1980	19	12	5	0	0	0	17,465	44,966	59,689	17,465	2,274	1,692	143,587
1981	44	14	10	9	8	9	11,012	17,617	19,494	3,837	943	961	53,958
1982	5	1	1	1	1	1	21,117	45,559	51,418	5,537	1,675	1,784	127,100
1983	3,868	86	0	0	0	0	10,973	34,440	52,487	27,079	5,299	26	134,258
1984	14	3	0	0	0	0	15,061	47,213	38,922	5,308	5,248	1,847	113,617
1985	20	0	0	0	0	0	37,694	45,031	6,407	2,613	35	0	91,801
1986	0	0	0	0	0	1,462	17,768	33,368	33,509	1,362	1,696	12	89,178
1987	0	0	0	0	0	0	16,849	22,679	41,951	1,568	0	0	83,048
1988	0	0	0	0	0	0	8,269	21,999	23,875	4,647	3,374	1,363	63,528
1989	36	0	0	0	0	0	11,745	20,783	11,201	2,174	2,593	41	48,573
1990	1,589	0	0	0	0	0	9,881	25,157	23,790	4,257	2,369	4,662	71,704
1991	5,349	710	0	0	0	250	27,021	42,647	35,645	5,699	1,031	1,076	119,430
1992	20	0	0	0	0	820	27,880	44,702	9,334	2,870	1,311	147	87,085
1993	0	0	0	0	0	0	7,432	46,174	37,050	3,051	3,430	1,670	98,806
1994	6	0	0	0	0	0	21,061	48,046	12,310	777	0	0	82,199
1995	0	0	0	0	0	0	10,009	36,096	37,205	1,900	1,059	0	86,268
1996	0	0	0	0	0	1,396	16,372	30,764	5,818	2,614	66	206	57,237
1997	271	989	32	346	76	9,301	13,888	43,716	48,431	11,633	9,108	3,406	141,198
1998	2,350	0	0	0	0	2,329	11,516	41,822	28,598	8,846	1,668	153	97,283
1999	200	1,188	381	0	0	4,151	12,516	32,807	39,662	12,734	13,020	4,015	120,674
2000	0	0	0	0	0	536	15,864	20,989	5,018	106	228	0	42,741
2001	0	0	0	0	0	1,515	19,290	51,079	29,278	4,644	4,457	313	110,576
2002	0	0	0	0	0	745	4,495	862	205	0	0	0	6,307
2003	0	0	0	0	0	1,167	11,363	26,615	18,817	673	487	3,339	62,462
2004	247	0	0	0	0	11,506	15,424	30,161	20,390	2,138	236	1,970	82,072
2005	1,823	1,217	12	0	93	1,928	31,720	45,142	50,208	13,347	3,779	3,419	152,688
Average: 1971-05	1,094	321	99	70	54	1,457	15,233	32,961	29,149	7,392	2,578	1,135	91,542

Table E-3. Ratio of San Juan-Chama Project Historical Diversions to Theoretical Diversions

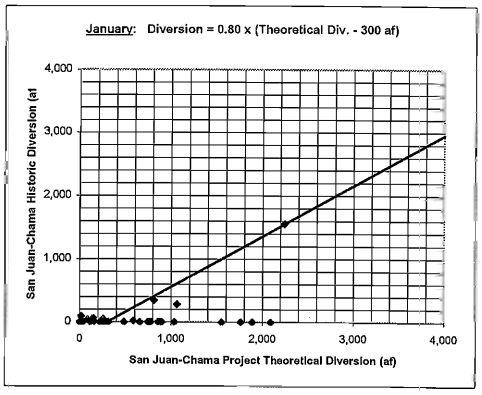
Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1971	0.0000	0.0266	0.0455	0.0000	0.0000	0.1783	0.8324	0.9826	0.9933	0.9920	0.9997	0.8602	0.8106
1972	0.7631	0.9321	0.5480	0.2676	0.4579	0.9648	0.9606	0.9815	0.9806	0.9695	0.7457	1.0716	0.9195
1973	0.9593	0.8339	0.8654	0.6950	0.9809	0.8681	0.9855	0.9606	0.9475	0.9152	0.9116	0.9654	0.9408
1974	0.8942	0.2660	0.1131	0.0000	0.0000	0.9296	0.9757	0.9145	0.9400	0.7224	0.8974	0.5982	0.9080
1975	0.3114	0.4690	0.7222	0.4769	6.1223	0.4536	0.9414	0.9930	0.9812	0.9201	0.8905	0.3456	0.9504
1976	0.3399	0.4142	0.1611	0.2003	0.0679	0.0984	0.9835	0.9942	0.9777	0.9211	0.9204	0.6951	0.9375
1977	0.8294	9.1508	--	0.4092	6.0697	0.1233	0.9140	0.9147	0.9654	0.6647	0.7984	0.8467	0.8551
1978	0.9596	0.4460	1.5177	5.8118	0.8630	0.8366	0.9832	0.9598	0.9684	0.9755	0.4416	0.3914	0.9649
1979	0.0832	0.2237	0.0510	0.0345	0.0698	0.5726	0.9537	1.0740	1.0285	0.9658	0.9367	0.5202	1.0023
1980	0.1039	0.0578	0.0242	0.0000	0.0000	0.0000	0.9600	1.0147	1.0602	0.9610	0.7712	0.6161	0.9962
1981	0.1207	0.0329	0.0278	0.0533	0.1757	0.0802	0.9423	0.9599	0.9758	0.9855	0.9296	0.8422	0.9381
1982	0.0006	0.0013	0.0037	0.0310	0.0055	0.0009	0.8874	0.9907	0.9768	0.2690	0.1567	0.1141	0.7054
1983	0.6709	0.0313	0.0000	0.0000	0.0000	0.0000	0.8974	0.9868	0.9355	0.9056	0.7776	0.0144	0.8478
1984	0.0027	0.0056	0.0000	0.0000	0.0000	0.0000	0.7477	0.9969	0.9229	0.5202	0.7917	0.7754	0.8088
1985	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.9410	0.8385	0.1164	0.1131	0.0064	0.0000	0.4377
1986	0.0000	0.0000	0.0000	0.0000	0.0000	0.1206	0.6134	0.7307	0.6435	0.0645	0.4277	0.0015	0.4699
1987	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6234	0.5615	0.9144	0.1913	0.0000	0.0000	0.5017
1988	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5509	0.9883	0.9924	0.9745	0.9301	0.8873	0.8022
1989	0.2214	0.0000	0.0000	0.0000	0.0000	0.0000	0.4479	0.9881	0.9838	0.8490	0.9664	0.0623	0.6181
1990	0.6192	0.0000	--	--	0.0000	0.0000	0.9488	0.9957	0.9799	0.9693	0.9292	0.9012	0.9491
1991	0.7395	0.1966	0.0000	0.0000	0.0000	0.1114	0.9218	0.9498	0.9757	0.8335	0.1822	0.2555	0.8334
1992	0.0736	0.0000	0.0000	0.0000	0.0000	0.3897	0.9763	0.9355	0.2760	0.3278	0.1813	0.1399	0.6551
1993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3267	0.9729	0.6989	0.1734	0.3662	0.3294	0.6090
1994	0.0024	0.0000	0.0000	0.0000	0.0000	0.0000	0.8676	1.0042	0.2741	0.2308	0.0000	0.0000	0.6135
1995	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6253	0.9901	0.6656	0.0471	0.1067	0.0000	0.4835
1996	0.0000	0.0000	0.0000	0.0000	0.0000	0.6479	0.9646	0.9999	0.8948	0.9428	0.6169	0.3493	0.9168
1997	0.8700	0.9320	0.1832	0.4257	0.1437	0.9140	0.9600	0.9689	0.9968	0.9478	0.9237	0.4520	0.9356
1998	0.4081	0.0000	0.0000	0.0000	0.0000	0.4855	0.8817	0.9791	0.9734	0.9614	0.7403	0.3793	0.8693
1999	0.0505	0.3461	0.2856	0.0000	0.0000	0.8439	0.9413	0.9764	0.9923	0.9802	0.9138	0.8501	0.9006
2000	0.0000	0.0000	--	--	0.0000	0.6459	0.9680	0.9772	0.9504	1.0028	0.8269	--	0.9468
2001	0.0000	0.0000	0.0000	0.0000	0.0000	0.8696	0.9633	0.9843	0.9852	0.9405	0.8320	0.9390	0.9547
2002	0.0000	0.0000	0.0000	0.0000	--	0.7970	0.9017	0.9161	1.1929	--	--	0.0000	0.8503
2003	0.0000	0.0000	0.0000	0.0000	0.0000	0.7838	0.9553	0.9852	0.9857	0.8194	0.6790	0.8035	0.9506
2004	0.4755	0.0000	0.0000	0.0000	0.0000	0.9715	0.9716	0.9873	0.9906	0.9257	0.8298	0.4107	0.9288
2005	0.5496	0.6176	0.0195	0.0000	0.1072	0.8820	0.9861	0.9626	0.9960	0.9865	0.7918	0.7720	0.9422
Average: 1971-05	0.3260	0.2015	0.1415	0.1154	0.0951	0.3767	0.8479	0.9525	0.8511	0.6419	0.6121	0.4006	0.7887

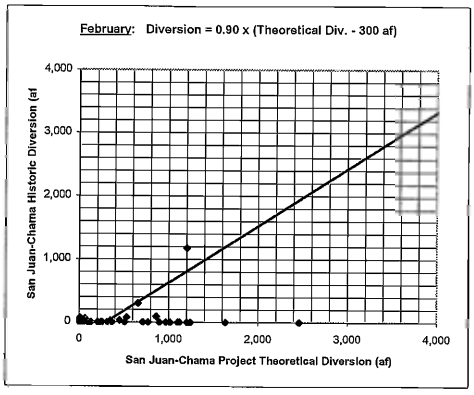
Table E-4. San Juan-Chama Project Diversion Relationship Data
(Units: Acre-Feet)

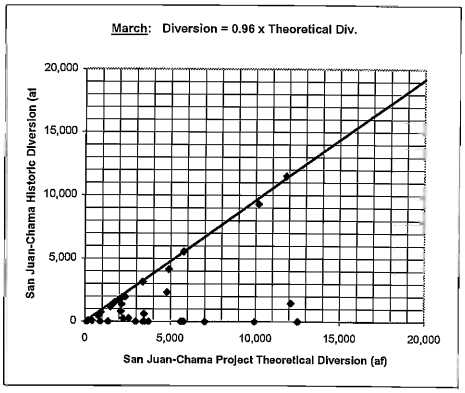
	January			February			March			April			May			June		
Year	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content
1970																		
1971	777	0	569	900	0	856	3,449	615	2,190	13,128	10,927	11,180	13,426	13,192	23,650	21,097	20,956	37,410
1972	1,062	284	42,750	662	303	43,430	5,776	5,572	47,260	9,493	9,118	55,760	10,710	10,513	61,970	8,741	8,572	63,680
1973	2,243	1,559	55,420	1,203	1,180	56,710	2,006	1,742	58,310	12,020	11,845	69,630	49,270	47,328	118,390	56,530	53,560	171,310
1974	232	0	156,590	238	0	156,530	3,382	3,144	156,830	8,727	8,515	163,750	24,141	22,078	184,240	9,560	8,987	190,940
1975	89	42	150,180	8	47	150,740	194	88	151,360	10,664	10,039	125,900	42,611	42,312	166,890	54,821	53,789	218,490
1976	258	52	164,060	452	31	164,650	2,564	252	163,340	15,114	14,864	147,250	34,477	34,277	180,110	28,963	28,316	205,160
1977	149	61	160,250	11	67	160,320	427	53	159,430	4,965	4,538	162,370	4,575	4,184	164,370	2,825	2,727	154,360
1978	16	92	114,140	64	55	114,540	2,351	1,967	115,700	19,682	19,351	130,960	32,075	30,786	160,150	46,138	44,680	186,230
1979	587	20	149,110	350	24	150,180	783	448	149,110	21,249	20,265	165,310	45,194	48,540	212,950	56,301	57,906	269,430
1980	486	0	244,900	258	0	244,190	116	0	240,190	18,193	17,465	256,830	44,316	44,966	300,150	56,299	59,689	356,040
1981	162	9	311,650	44	8	310,940	107	9	310,020	11,687	11,012	319,000	18,354	17,617	333,520	19,978	19,494	349,620
1982	40	1	293,750	203	1	294,940	1,366	1	295,380	23,796	21,117	309,920	45,986	45,559	353,130	52,642	51,418	400,660
1983	1,551	0	321,020	1,121	0	321,590	3,474	0	320,870	12,228	10,973	328,760	34,900	34,440	361,980	56,108	52,487	400,370
1984	859	0	353,410	1,020	0	334,420	3,392	0	316,580	20,145	15,061	327,650	47,359	47,213	373,780	42,174	38,922	400,610
1985	2,095	0	347,280	1,098	0	333,840	7,009	0	317,910	40,056	37,694	355,220	53,705	45,031	396,550	55,033	6,407	400,490
1986	1,891	0	390,900	1,636	0	371,240	12,117	1,462	352,430	28,965	17,768	336,110	45,667	33,368	368,420	52,076	33,509	400,630
1987	1,764	0	367,970	1,242	0	355,890	3,710	0	346,270	27,027	16,849	336,960	40,389	22,679	359,600	45,877	41,951	399,860
1988	252	0	393,460	511	0	390,960	2,974	0	385,570	15,011	8,269	346,270	22,259	21,999	366,620	24,058	23,875	369,500
1989	278	0	366,790	715	0	367,240	12,535	0	365,560	26,225	11,745	369,040	21,033	20,783	387,530	11,385	11,201	396,450
1990	0	0	370,000	18	0	363,380	890	0	333,500	10,415	9,881	325,600	25,266	25,157	347,840	24,278	23,790	369,600
1991	657	0	376,060	1,204	0	367,800	2,246	250	345,350	29,312	27,021	320,650	44,901	42,647	362,490	36,534	35,645	397,560
1992	258	0	393,820	367	0	394,280	2,105	820	385,630	28,556	27,880	350,080	47,787	44,702	395,800	33,818	9,334	400,680
1993	309	0	379,880	242	0	380,970	5,768	0	336,960	22,751	7,432	318,680	47,460	46,174	365,780	53,009	37,050	400,390
1994	315	0	380,340	99	0	369,260	5,597	0	355,510	24,274	21,061	344,430	47,846	48,046	393,110	44,912	12,310	399,560
1995	883	0	390,260	2,462	0	395,450	9,951	0	351,440	16,005	10,009	325,330	36,457	36,096	360,980	55,896	37,205	398,740
1996	121	0	373,840	971	0	373,780	2,155	1,396	362,770	16,972	16,372	337,120	30,768	30,764	366,060	6,502	5,818	363,880
1997	813	346	299,691	531	76	293,337	10,176	9,301	290,090	14,467	13,888	269,270	45,118	43,716	312,720	48,588	48,431	360,318
1998	1,035	0	345,510	313	0	342,484	4,796	2,329	327,219	13,061	11,516	310,478	42,715	41,822	345,510	29,378	28,598	371,519
1999	746	0	298,444	772	0	289,501	4,919	4,151	286,959	13,297	12,516	299,641	33,600	32,807	331,856	39,971	39,662	370,672
2000	0	0	376,397	8	0	372,933	829	536	347,681	16,389	15,864	338,028	21,479	20,989	347,355	5,280	5,018	334,615
2001	220	0	266,638	46	0	262,905	1,743	1,515	263,231	20,025	19,290	261,512	51,892	51,079	308,750	29,719	29,278	335,786
2002	40	0	279,839	0	0	268,752	935	745	257,222	4,985	4,495	247,730	941	862	245,804	172	205	213,288
2003	24	0	159,769	50	0	159,769	1,489	1,167	157,600	11,895	11,363	161,238	27,013	26,615	183,706	19,091	18,817	190,685
2004	266	0	111,135	131	0	97,524	11,844	11,506	94,443	15,874	15,424	84,920	30,548	30,161	102,728	20,585	20,390	121,933
2005	897	0	111,213	864	93	107,381	2,186	1,928	109,399	32,166	31,720	136,852	46,897	45,142	179,761	50,411	50,208	228,731

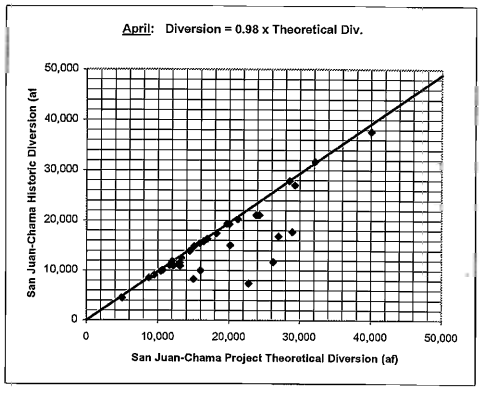
	July			August			September			October			November			December		
Year	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content	SJCP Theoretical Diversion	SJCP Historical Diversion	Heron Res. EOM Content
1970										3,156	0	113	1,715	46	450	632	29	538
1971	4,233	4,199	36,270	3,471	3,471	40,180	1,079	928	37,620	3,370	2,571	39,640	2,649	2,469	41,950	1,194	654	42,630
1972	485	471	54,210	62	46	49,400	473	506	49,400	17,412	16,703	65,920	4,667	3,892	69,210	2,416	2,091	53,800
1973	31,306	28,652	197,680	4,728	4,310	197,960	2,135	2,061	198,780	1,163	1,040	198,540	99	26	195,300	179	20	155,960
1974	2,359	1,704	190,900	2,441	2,190	192,020	47	28	190,600	617	192	190,260	758	356	189,490	48	34	149,830
1975	36,272	33,374	249,450	5,092	4,535	252,100	1,878	649	251,690	289	98	249,580	114	47	248,870	321	52	180,440
1976	4,122	3,797	206,650	1,266	1,165	205,400	2,085	1,449	205,760	1,092	905	204,640	6	54	203,360	0	52	159,940
1977	1,832	1,217	143,250	4,598	3,671	140,930	2,213	1,873	133,580	913	876	127,740	145	65	127,080	40	61	113,690
1978	7,178	7,002	191,360	175	77	189,190	102	40	185,140	315	26	184,160	261	58	183,750	336	17	148,050
1979	32,532	31,419	298,360	5,756	5,391	301,500	155	81	298,650	179	19	295,730	213	12	293,950	203	5	243,700
1980	18,173	17,465	355,870	2,949	2,274	347,340	2,746	1,692	346,180	366	44	343,380	428	14	342,300	344	10	317,650
1981	3,894	3,837	338,430	1,015	943	327,030	1,142	961	324,510	7,994	5	322,270	909	1	320,090	333	1	294,290
1982	20,579	5,537	400,660	10,686	1,675	401,140	15,635	1,784	400,140	5,765	3,868	400,720	2,762	86	399,550	1,898	0	320,970
1983	29,903	27,079	400,430	6,814	5,299	400,720	1,843	26	398,840	5,155	14	396,380	534	3	389,610	617	0	368,020
1984	10,203	5,308	400,670	6,629	5,248	400,780	2,381	1,847	385,560	8,805	20	385,970	4,516	0	375,140	2,092	0	362,650
1985	23,104	2,613	401,320	5,526	35	398,900	6,690	0	397,550	10,060	0	397,260	2,615	0	396,200	1,726	0	394,850
1986	21,130	1,362	399,980	3,965	1,696	401,160	7,952	12	400,210	18,151	0	399,500	12,855	0	399,800	3,712	0	386,780
1987	8,197	1,568	398,560	2,426	0	397,390	188	0	395,280	926	0	393,520	2,770	0	393,410	498	0	393,000
1988	4,769	4,647	392,530	3,627	3,374	396,100	1,536	1,363	394,750	161	36	392,940	107	0	376,970	236	0	369,380
1989	2,561	2,174	396,860	2,683	2,593	391,890	660	41	374,290	2,566	1,589	373,730	6	0	371,860	0	0	370,450
1990	4,391	4,257	372,590	2,549	2,369	374,750	5,173	4,662	377,650	7,234	5,349	381,880	3,612	710	381,880	904	0	380,390
1991	6,837	5,699	401,040	5,659	1,031	399,800	4,212	1,076	399,980	270	20	398,330	1,682	0	397,100	1,049	0	394,340
1992	8,755	2,870	400,150	7,230	1,311	398,920	1,049	147	382,750	145	0	380,800	385	0	379,080	147	0	378,850
1993	17,590	3,051	397,210	9,366	3,430	392,820	5,070	1,670	390,140	2,521	6	388,980	496	0	388,640	298	0	387,820
1994	3,365	777	398,030	904	0	396,510	3,346	0	394,280	1,829	0	392,650	1,431	0	392,530	1,093	0	389,560
1995	40,349	1,900	398,980	9,928	1,059	393,990	2,158	0	388,750	1,002	0	386,200	379	0	377,540	89	0	376,680
1996	2,773	2,614	347,030	108	66	342,700	591	206	335,150	311	271	321,270	1,061	989	314,720	173	32	305,920
1997	12,274	11,633	363,881	9,861	9,108	360,929	7,535	3,406	356,389	5,759	2,350	357,106	1,938	0	353,198	1,061	0	349,260
1998	9,201	8,846	373,330	2,253	1,668	369,601	403	153	354,461	3,966	200	342,430	3,433	1,188	327,010	1,333	381	308,446
1999	12,992	12,734	383,091	14,247	13,020	395,160	4,723	4,015	396,449	752	0	393,581	26	0	386,204	0	0	379,936
2000	106	106	329,586	276	228	315,384	0	0	286,326	1,028	0	280,657	274	0	273,100	250	0	267,389
2001	4,937	4,644	339,473	5,357	4,457	342,322	333	313	340,332	73	0	336,799	28	0	312,669	24	0	291,416
2002	0	0	183,257	0	0	169,294	220	0	167,632	210	0	164,761	194	0	162,510	44	0	160,759
2003	821	673	157,331	718	487	137,922	4,156	3,339	137,616	520	247	133,170	718	0	127,114	486	0	123,228
2004	2,310	2,138	119,347	284	236	116,776	4,796	1,970	112,735	3,316	1,823	113,158	1,971	1,217	112,393	611	12	111,005
2005	13,529	13,347	232,650	4,773	3,779	227,832	4,428	3,419	228,303									

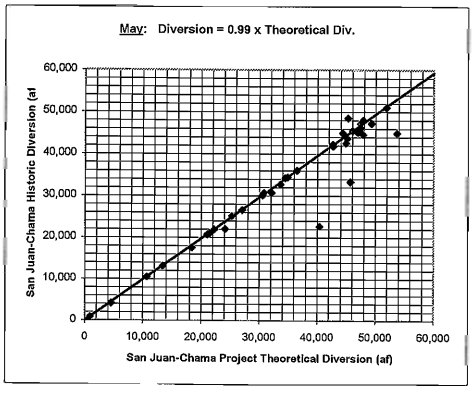
Table E-5. Envelope Curves (Lines) for San Juan-Chama Project Diversion Relationships

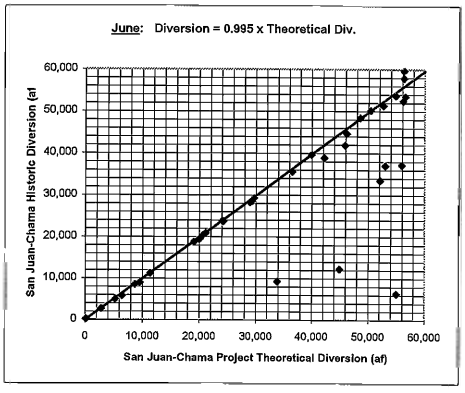


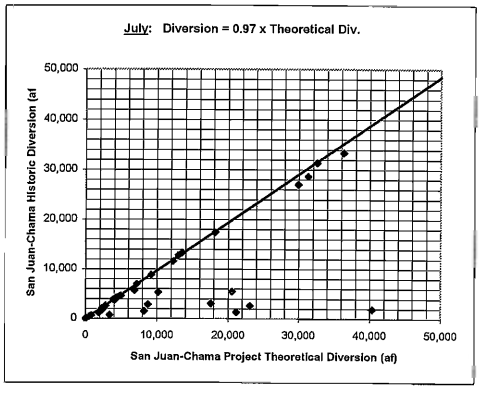


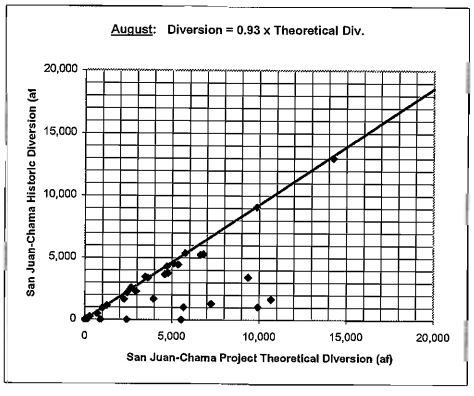


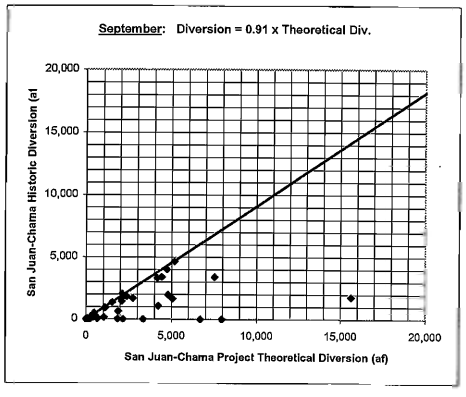


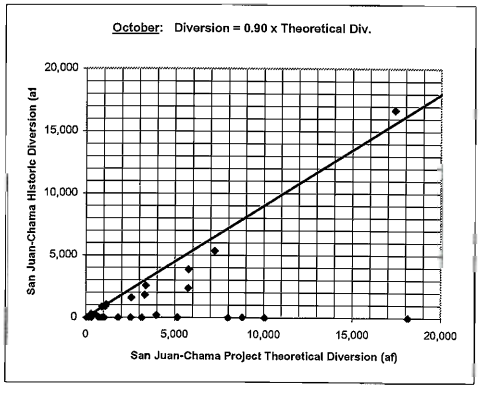


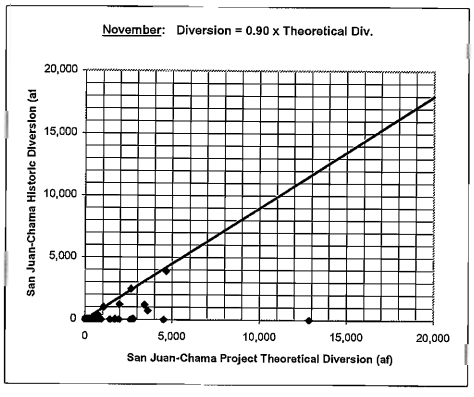












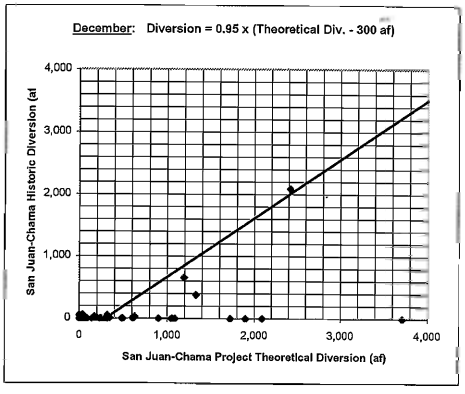


Table E-6. Monthly San Juan-Chama Project Potential Diversions
(Units: Acre-Feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	2,438	339	0	29	0	5,042	39,972	56,339	31,223	7,534	7,462	4,561	154,940
1937	2,060	2,811	619	111	116	999	30,582	52,023	39,087	9,996	1,518	518	140,441
1938	465	46	0	0	0	2,109	26,499	40,280	52,815	12,021	2,498	5,115	141,848
1939	3,148	495	0	0	0	4,784	20,601	36,278	14,399	743	374	2,402	83,224
1940	151	79	0	0	0	3,514	16,412	32,702	13,046	1,097	1,046	1,310	69,357
1941	2,929	358	328	94	57	1,501	10,581	54,190	55,965	40,854	8,527	4,844	180,229
1942	23,335	7,425	3,107	1,656	886	3,022	36,787	41,562	49,328	11,167	2,018	806	181,099
1943	228	29	0	0	0	2,175	32,011	30,301	24,207	5,645	2,298	484	97,379
1944	197	65	0	0	0	143	11,798	45,284	53,312	16,151	1,663	162	128,773
1945	778	238	0	30	97	1,019	18,494	52,312	43,964	9,213	2,278	78	128,500
1946	247	0	0	0	0	1,026	14,955	12,222	14,738	1,159	1,277	1,207	46,830
1947	1,291	875	261	0	61	2,306	10,606	31,623	23,815	4,260	4,433	2,764	82,294
1948	3,198	756	102	0	0	565	22,787	45,070	41,393	8,010	2,123	187	124,192
1949	97	82	0	0	0	858	20,282	40,873	50,619	22,545	3,600	665	139,620
1950	255	237	0	0	0	1,433	22,447	21,610	17,252	2,829	438	347	66,848
1951	213	0	0	0	0	383	6,484	20,752	17,686	960	1,355	361	48,195
1952	117	5	0	0	0	421	27,532	52,331	53,698	18,300	5,171	925	158,500
1953	151	27	0	0	0	2,550	14,800	19,424	30,189	3,469	981	0	71,592
1954	314	118	0	0	0	254	18,059	25,262	9,660	2,222	1,826	643	58,358
1955	600	7	0	0	0	256	7,157	21,648	22,982	2,370	2,948	356	58,325
1956	32	2	0	0	0	4,695	14,242	31,271	21,580	1,031	373	0	73,226
1957	67	0	0	0	0	804	12,375	24,397	56,225	40,230	15,164	3,560	152,822
1958	2,314	2,930	1,057	572	324	1,639	17,306	52,315	40,475	4,408	1,712	2,548	127,600
1959	464	8	0	0	0	215	8,692	15,714	16,677	414	2,061	178	44,423
1960	5,119	3,052	119	0	40	4,213	37,347	32,839	42,375	6,210	513	94	131,920
1961	37	5	0	0	0	807	17,554	35,771	19,251	1,964	3,002	3,132	81,522
1962	2,259	1,121	96	116	757	1,341	33,132	38,856	35,370	7,230	750	401	121,431
1963	755	173	0	0	0	4,094	16,509	28,360	6,595	824	550	620	58,480
1964	142	18	0	0	0	95	7,083	31,611	12,481	2,580	6,898	671	61,578
1965	157	12	0	0	0	271	18,000	40,606	51,940	30,494	5,857	5,450	152,788
1966	5,399	1,901	1,047	827	255	5,329	26,944	46,721	24,588	4,374	1,625	188	119,198
1967	176	4	852	0	0	3,183	11,120	23,085	25,706	7,728	9,653	3,407	84,912
1968	601	112	0	0	0	1,610	8,004	27,078	39,763	7,963	12,126	636	97,892
1969	301	13	0	0	0	598	23,405	41,751	32,529	13,287	4,740	3,332	119,956
1970	4,276	2,464	393	0	0	259	6,451	35,058	24,176	7,128	1,902	15,026	97,131
1971	2,840	1,543	315	381	540	3,311	12,865	13,292	20,991	4,106	3,228	982	64,395
1972	3,033	2,384	849	609	326	5,545	9,303	10,603	8,698	471	57	430	42,307
1973	15,671	4,200	2,010	1,555	813	1,926	11,780	48,778	56,247	30,367	4,397	1,942	179,686
1974	1,046	89	0	0	0	3,246	8,552	23,900	9,513	2,288	2,270	43	50,948
1975	555	683	0	0	0	186	10,451	42,185	54,547	35,184	4,736	1,709	150,236
1976	260	103	20	0	137	2,462	14,811	34,132	28,818	3,999	1,177	1,897	87,816
1977	982	5	0	0	0	410	4,866	4,529	2,811	1,777	4,276	2,014	21,669
1978	822	130	0	0	0	2,257	19,288	31,754	45,907	6,963	163	93	107,377
1979	283	235	34	230	45	751	20,824	44,742	56,020	31,556	5,353	141	160,215
1980	161	192	0	149	0	111	17,830	43,873	56,018	17,628	2,742	2,499	141,202
1981	329	385	42	0	0	103	11,453	18,171	19,878	3,777	944	1,039	56,121
1982	7,195	818	32	0	0	1,312	23,320	45,526	52,379	19,962	9,938	14,228	174,710
1983	5,189	2,485	1,518	1,001	739	3,335	11,983	34,551	55,827	29,006	6,337	1,677	153,648
1984	4,640	480	301	447	648	3,257	19,742	46,885	41,963	9,897	6,165	2,167	136,592
1985	7,925	4,065	1,703	1,436	718	6,729	39,255	53,168	54,758	22,411	5,139	6,088	203,394
1986	9,054	2,354	1,355	1,273	1,202	11,633	28,386	45,210	51,815	20,496	3,687	7,236	183,701
1987	16,336	11,570	3,241	1,171	848	3,562	26,487	39,985	45,648	7,951	2,256	171	159,225
1988	833	2,493	188	0	189	2,855	14,711	22,037	23,937	4,626	3,374	1,398	76,641
1989	145	96	0	0	373	12,034	25,700	20,823	11,328	2,484	2,495	601	76,080
1990	2,309	5	0	0	0	855	10,206	25,013	24,156	4,260	2,371	4,708	73,883
1991	6,510	3,250	574	285	814	2,156	28,726	44,452	36,351	6,632	5,263	3,832	138,846
1992	243	1,513	712	0	60	2,021	27,985	47,309	33,649	8,493	6,724	955	129,664
1993	130	346	0	8	0	5,537	22,296	46,985	52,744	17,062	8,711	4,614	158,433
1994	2,269	446	0	12	0	5,374	23,789	47,368	44,688	3,264	841	3,045	131,096
1995	1,646	1,288	753	466	1,946	9,553	15,685	36,093	55,616	39,138	9,233	1,964	173,381
1996	902	341	0	0	604	2,069	16,633	30,460	6,469	2,690	100	538	60,806
1997	280	955	0	411	208	9,769	14,178	44,667	48,345	11,906	9,170	6,857	146,747
1998	5,183	1,744	723	588	12	4,604	12,800	42,288	29,231	8,925	2,096	366	108,561
1999	3,569	3,090	982	357	424	4,723	13,031	33,264	39,772	12,602	13,250	4,298	129,361
2000	677	23	0	0	0	796	16,061	21,265	5,253	103	257	0	44,435
2001	925	246	0	0	0	1,673	19,625	51,373	29,570	4,789	4,982	303	113,487
2002	66	25	0	0	0	897	4,885	932	171	0	0	200	7,176
2003	189	175	0	0	0	1,429	11,657	26,743	18,996	796	667	3,782	64,435
2004	468	646	177	0	0	11,370	15,557	30,242	20,482	2,240	265	4,364	85,811
2005	2,985	1,774	295	477	508	2,099	31,523	46,428	50,158	13,124	4,439	4,030	157,838
Average:													
1936-05	2,428	1,086	340	204	196	2,764	18,332	34,808	32,884	10,105	3,684	2,246	109,076
1946-78	1,630	699	216	123	99	1,774	15,612	30,467	29,070	8,701	3,375	1,691	93,457
1971-05	3,019	1,434	452	310	319	3,713	17,607	34,258	34,079	11,171	3,917	2,577	112,855

Table E-7. Monthly San Juan-Chama Project Adjusted Potential Diversions
(Units: Acre-Feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	2,438	339	0	29	0	5,042	39,972	56,339	31,223	7,534	7,462	4,561	154,940
1937	2,060	2,811	619	111	116	999	30,582	52,023	39,087	9,996	1,518	518	140,441
1938	465	46	0	0	0	2,109	26,499	40,280	52,815	12,021	2,498	5,115	141,848
1939	3,148	495	0	0	0	4,784	20,601	36,278	14,399	743	374	2,402	83,224
1940	151	79	0	0	0	3,514	16,412	32,702	13,046	1,097	1,046	1,310	69,357
1941	2,929	358	328	94	57	1,501	10,581	54,190	55,965	40,854	8,527	4,844	180,229
1942	23,335	7,425	3,107	1,656	886	3,022	36,787	41,562	49,328	11,167	2,018	806	181,099
1943	228	29	0	0	0	2,175	32,011	30,301	24,207	5,645	2,298	484	97,379
1944	197	65	0	0	0	143	11,798	45,284	53,312	16,151	1,663	162	128,773
1945	778	238	0	30	97	1,019	18,494	52,312	43,964	9,213	2,278	78	128,500
1946	247	0	0	0	0	1,026	14,955	12,222	14,738	1,159	1,277	1,207	46,830
1947	1,291	875	261	0	61	2,306	10,606	31,623	23,815	4,260	4,433	2,764	82,294
1948	3,198	756	102	0	0	565	22,787	45,070	41,393	8,010	2,123	187	124,192
1949	97	82	0	0	0	858	20,282	40,873	50,619	22,545	3,600	665	139,620
1950	255	237	0	0	0	1,433	22,447	21,610	17,252	2,829	438	347	66,848
1951	213	0	0	0	0	383	6,484	20,752	17,686	960	1,355	361	48,195
1952	117	5	0	0	0	421	27,532	52,331	53,698	18,300	5,171	925	158,500
1953	151	27	0	0	0	2,550	14,800	19,424	30,189	3,469	981	0	71,592
1954	314	118	0	0	0	254	18,059	25,262	9,660	2,222	1,826	643	58,358
1955	600	7	0	0	0	256	7,157	21,648	22,982	2,370	2,948	356	58,325
1956	32	2	0	0	0	4,695	14,242	31,271	21,580	1,031	373	0	73,226
1957	67	0	0	0	0	804	12,375	24,397	56,225	40,230	15,164	3,560	152,822
1958	2,314	2,930	1,057	572	324	1,639	17,306	52,315	40,475	4,408	1,712	2,548	127,600
1959	464	8	0	0	0	215	8,692	15,714	16,677	414	2,061	178	44,423
1960	5,119	3,052	119	0	40	4,213	37,347	32,839	42,375	6,210	513	94	131,920
1961	37	5	0	0	0	807	17,554	35,771	19,251	1,964	3,002	3,132	81,522
1962	2,259	1,121	96	116	757	1,341	33,132	38,856	35,370	7,230	750	401	121,431
1963	755	173	0	0	0	4,094	16,509	28,360	6,595	824	550	620	58,480
1964	142	18	0	0	0	95	7,083	31,611	12,481	2,580	6,898	671	61,578
1965	157	12	0	0	0	271	18,000	40,606	51,940	30,494	5,857	5,450	152,788
1966	5,399	1,901	1,047	827	255	5,329	26,944	46,721	24,588	4,374	1,625	188	119,198
1967	176	4	852	0	0	3,183	11,120	23,085	25,706	7,728	9,653	3,407	84,912
1968	601	112	0	0	0	1,610	8,004	27,078	39,763	7,963	12,126	636	97,892
1969	301	13	0	0	0	598	23,405	41,751	32,529	13,287	4,740	3,332	119,956
1970	4,276	2,464	393	0	0	259	6,451	35,058	24,176	7,128	1,902	15,026	97,131
1971	2,840	1,543	315	381	540	3,311	12,865	13,292	20,991	4,199	3,471	982	64,730
1972	3,033	2,469	849	609	326	5,572	9,303	10,603	8,698	471	57	430	42,420
1973	16,703	4,200	2,091	1,559	1,180	1,926	11,845	48,778	56,247	30,367	4,397	2,061	181,354
1974	1,046	89	20	0	0	3,246	8,552	23,900	9,513	2,288	2,270	43	50,969
1975	555	683	34	42	0	186	10,451	42,312	54,547	35,184	4,736	1,709	150,439
1976	260	103	52	52	137	2,462	14,864	34,277	28,818	3,999	1,177	1,897	88,097
1977	982	5	52	61	0	410	4,866	4,529	2,811	1,777	4,276	2,014	21,782
1978	876	130	0	0	55	2,257	19,351	31,754	45,907	7,002	163	93	107,589
1979	283	235	34	230	45	751	20,824	48,540	57,906	31,556	5,391	141	165,938
1980	161	192	5	149	0	111	17,830	44,966	59,689	17,628	2,742	2,499	145,972
1981	329	385	42	9	8	103	11,453	18,171	19,878	3,837	944	1,039	56,198
1982	7,195	818	32	1	1	1,312	23,320	45,559	52,379	19,962	9,938	14,228	174,745
1983	5,189	2,485	1,518	1,001	739	3,335	11,983	34,551	55,827	29,006	6,337	1,677	153,648
1984	4,640	480	301	447	648	3,257	19,742	47,213	41,963	9,897	6,165	2,167	136,919
1985	7,925	4,065	1,703	1,436	718	6,729	39,255	53,168	54,758	22,411	5,139	6,088	203,394
1986	9,054	2,354	1,355	1,273	1,202	11,633	28,386	45,210	51,815	20,496	3,687	7,236	183,701
1987	16,336	11,570	3,241	1,171	848	3,562	26,487	39,985	45,648	7,951	2,256	171	159,225
1988	833	2,493	188	0	189	2,855	14,711	22,037	23,937	4,647	3,374	1,398	76,663
1989	145	96	0	0	373	12,034	25,700	20,823	11,328	2,484	2,593	601	76,178
1990	2,309	5	0	0	0	855	10,206	25,157	24,156	4,260	2,371	4,708	74,027
1991	6,510	3,250	574	285	814	2,156	28,726	44,452	36,351	6,632	5,263	3,832	138,846
1992	243	1,513	712	0	60	2,021	27,985	47,309	33,649	8,493	6,724	955	129,664
1993	130	346	0	8	0	5,537	22,296	46,985	52,744	17,062	8,711	4,614	158,433
1994	2,269	446	0	12	0	5,374	23,789	48,046	44,688	3,264	841	3,045	131.774
1995	1,646	1,288	753	466	1,946	9,553	15,685	36,096	55,616	39,138	9,233	1,964	173,384
1996	902	341	0	0	604	2,069	16,633	30,764	6,469	2,690	100	538	61,110
1997	280	989	32	411	208	9,769	14,178	44,667	48,431	11,906	9,170	6,857	146,898
1998	5,183	1,744	723	588	12	4,604	12,800	42,288	29,231	8,925	2,096	366	108,561
1999	3,569	3,090	982	357	424	4,723	13,031	33,264	39,772	12,734	13,250	4,298	129,493
2000	677	23	0	0	0	796	16,061	21,265	5,253	103	257	0	44,435
2001	925	246	0	0	0	1,673	19,625	51,373	29,570	4,789	4,982	313	113,496
2002	66	25	0	0	0	897	4,885	932	171	0	0	200	7,176
2003	189	175	0	0	0	1,429	11,657	26,743	18,996	796	667	3,782	64,435
2004	468	646	177	0	0	11,506	15,557	30,242	20,482	2,240	265	4,364	85,947
2005	2,985	1,774	295	477	508	2,099	31,720	46,428	50,208	13,347	4,439	4,030	158,309
Average:													
1936-05	2,444	1,087	344	207	203	2,766	18,338	34,903	32,965	10,114	3,689	2,247	109,305
1946-78	1,663	701	222	128	111	1,775	15,617	30,475	29,070	8,705	3,383	1,695	93,546
1971-05	3,050	1,437	459	315	331	3,717	17,618	34,448	34,241	11,187	3,928	2,581	113,313

Table E-8. Ratio of San Juan-Chama Project Adjusted Potential Diversions to Theoretical Diversions

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	0.9000	0.9000	0.0000	0.0853	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9758
1937	0.9000	0.9000	0.6503	0.2537	0.2712	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9765
1938	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9805
1939	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9732
1940	0.9000	0.9000	0.0000	--	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9836
1941	0.9000	0.9000	0.5086	0.2255	0.1573	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9740
1942	0.9000	0.9000	0.8702	0.6987	0.6898	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9622
1943	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9802
1944	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9863
1945	0.9000	0.9000	0.0000	0.0890	0.2377	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9800
1946	0.9000	0.9000	--	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9771
1947	0.9000	0.9000	0.4539	0.0000	0.1650	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9710
1948	0.9000	0.9000	0.2510	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9781
1949	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9842
1950	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9802
1951	0.9000	--	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9859
1952	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9825
1953	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	--	0.9822
1954	0.9000	0.9000	0.0000	--	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9798
1955	0.9000	0.9000	0.0000	0.0000	--	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9846
1956	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	--	0.9858
1957	0.9000	--	--	--	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9766
1958	0.9000	0.9000	0.7482	0.5637	0.4907	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9741
1959	0.9000	0.9000	0.0000	0.0000	--	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9844
1960	0.9000	0.9000	0.2797	0.0000	0.1170	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9741
1961	0.9000	0.9000	--	--	--	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9825
1962	0.9000	0.9000	0.2400	0.2613	0.6634	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9758
1963	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9745
1964	0.9000	0.9000	--	--	--	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9807
1965	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9766
1966	0.9000	0.9000	0.7467	0.6201	0.4371	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9703
1967	0.9000	0.9000	0.7118	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9686
1968	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9759
1969	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9812
1970	0.9000	0.9000	0.5509	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9616
1971	0.9000	0.9000	0.4989	0.4909	0.6001	0.9600	0.9800	0.9900	0.9950	0.9920	0.9997	0.9100	0.9652
1972	0.9000	0.9321	0.7112	0.5739	0.4923	0.9648	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9495
1973	0.9593	0.9000	0.8654	0.6950	0.9809	0.9600	0.9855	0.9900	0.9950	0.9700	0.9300	0.9654	0.9754
1974	0.9000	0.9000	0.1131	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9696
1975	0.9000	0.9000	0.7222	0.4769	0.0000	0.9600	0.9800	0.9930	0.9950	0.9700	0.9300	0.9100	0.9829
1976	0.9000	0.9000	0.1611	0.2003	0.3032	0.9600	0.9835	0.9942	0.9950	0.9700	0.9300	0.9100	0.9786
1977	0.9000	0.9000	--	0.4092	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9599
1978	0.9596	0.9000	0.0000	0.0000	0.8630	0.9600	0.9832	0.9900	0.9950	0.9755	0.9300	0.9100	0.9882
1979	0.9000	0.9000	0.1015	0.3915	0.1289	0.9600	0.9800	1.0740	1.0285	0.9700	0.9367	0.9100	1.0129
1980	0.9000	0.9000	0.0242	0.3061	0.0000	0.9600	0.9800	1.0147	1.0602	0.9700	0.9300	0.9100	1.0128
1981	0.9000	0.9000	0.1219	0.0533	0.1757	0.9600	0.9800	0.9900	0.9950	0.9855	0.9300	0.9100	0.9770
1982	0.9000	0.9000	0.0948	0.0310	0.0055	0.9600	0.9800	0.9907	0.9950	0.9700	0.9300	0.9100	0.9699
1983	0.9000	0.9000	0.7999	0.6453	0.6591	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9702
1984	0.9000	0.9000	0.4880	0.5206	0.6352	0.9600	0.9800	0.9969	0.9950	0.9700	0.9300	0.9100	0.9747
1985	0.9000	0.9000	0.8138	0.6854	0.6542	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9698
1986	0.9000	0.9000	0.7849	0.6731	0.7350	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9679
1987	0.9000	0.9000	0.8732	0.6639	0.6826	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9619
1988	0.9000	0.9000	0.3775	0.0000	0.3712	0.9600	0.9800	0.9900	0.9950	0.9745	0.9301	0.9100	0.9681
1989	0.9000	0.9000	0.0000	0.0000	0.5222	0.9600	0.9800	0.9900	0.9950	0.9700	0.9664	0.9100	0.9694
1990	0.9000	0.9000	--	--	0.0000	0.9600	0.9800	0.9957	0.9950	0.9700	0.9300	0.9100	0.9798
1991	0.9000	0.9000	0.6348	0.4344	0.6757	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9688
1992	0.9000	0.9000	0.6784	0.0000	0.1642	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9755
1993	0.9000	0.9000	0.0000	0.0244	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9765
1994	0.9000	0.9000	0.0000	0.0390	0.0000	0.9600	0.9800	1.0042	0.9950	0.9700	0.9300	0.9100	0.9836
1995	0.9000	0.9000	0.6892	0.5281	0.7903	0.9600	0.9800	0.9901	0.9950	0.9700	0.9300	0.9100	0.9717
1996	0.9000	0.9000	0.0000	0.0000	0.6220	0.9600	0.9800	0.9999	0.9950	0.9700	0.9300	0.9100	0.9788
1997	0.9000	0.9320	0.1832	0.5050	0.3918	0.9600	0.9800	0.9900	0.9968	0.9700	0.9300	0.9100	0.9734
1998	0.9000	0.9000	0.6814	0.5682	0.0385	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9700
1999	0.9000	0.9000	0.7362	0.4782	0.5501	0.9600	0.9800	0.9900	0.9950	0.9802	0.9300	0.9100	0.9664
2000	0.9000	0.9000	--	--	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	--	0.9843
2001	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9390	0.9799
2002	0.9000	0.9000	0.0000	0.0000	--	0.9600	0.9800	0.9900	0.9950	--	--	0.9100	0.9675
2003	0.9000	0.9000	0.0000	0.0000	0.0000	0.9600	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9807
2004	0.9000	0.9000	0.3635	0.0000	0.0000	0.9715	0.9800	0.9900	0.9950	0.9700	0.9300	0.9100	0.9727
2005	0.9000	0.9000	0.4833	0.5323	0.5876	0.9600	0.9861	0.9900	0.9960	0.9865	0.9300	0.9100	0.9769
Average: 1936-05	0.9058	0.9014	0.6337	0.4731	0.5061	0.9608	0.9803	0.9927	0.9975	0.9708	0.9314	0.9107	0.9766

Table E-9. Monthly Differences between San Juan-Chama Project Theoretical and Adjusted Potential Diversions
(Units: Acre-Feet)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	271	38	130	307	106	210	816	569	157	233	562	451	3,849
1937	229	312	333	328	313	42	624	525	196	309	114	51	3,377
1938	52	5	45	235	115	88	541	407	265	372	188	506	2,819
1939	350	55	300	240	4	199	420	366	72	23	28	238	2,296
1940	17	9	1	0	12	146	335	330	66	34	79	130	1,158
1941	325	40	317	324	306	63	216	547	281	1,264	642	479	4,804
1942	2,593	825	464	714	398	126	751	420	248	345	152	80	7,115
1943	25	3	141	76	152	91	653	306	122	175	173	48	1,964
1944	22	7	81	21	48	6	241	457	268	500	125	16	1,791
1945	86	26	257	308	311	42	377	528	221	285	171	8	2,622
1946	27	0	0	116	156	43	305	123	74	36	96	119	1,095
1947	143	97	314	109	307	96	216	319	120	132	334	273	2,461
1948	355	84	305	266	187	24	465	455	208	248	160	18	2,776
1949	11	9	7	59	10	36	414	413	254	697	271	66	2,246
1950	28	26	59	45	216	60	458	218	87	87	33	34	1,352
1951	24	0	24	18	8	16	132	210	89	30	102	36	688
1952	13	1	93	175	121	18	562	529	270	566	389	91	2,827
1953	17	3	153	79	105	106	302	196	152	107	74	0	1,294
1954	35	13	41	0	160	11	369	255	49	69	137	64	1,201
1955	67	1	18	7	0	11	146	219	115	73	222	35	914
1956	4	0	39	30	10	196	291	316	108	32	28	0	1,053
1957	7	0	0	0	103	34	253	246	283	1,244	1,141	352	3,663
1958	257	326	356	443	336	68	353	528	203	136	129	252	3,388
1959	52	1	24	11	0	9	177	159	84	13	155	18	702
1960	569	339	306	260	304	176	762	332	213	192	39	9	3,501
1961	4	1	0	0	0	34	358	361	97	61	226	310	1,451
1962	251	125	305	329	384	56	676	392	178	224	56	40	3,016
1963	84	19	183	38	250	171	337	286	33	25	41	61	1,529
1964	16	2	0	0	0	4	145	319	63	80	519	66	1,214
1965	17	1	167	201	297	11	367	410	261	943	441	539	3,657
1966	600	211	355	507	328	222	550	472	124	135	122	19	3,645
1967	20	0	345	185	175	133	227	233	129	239	727	337	2,749
1968	67	12	89	119	203	67	163	274	200	246	913	63	2,415
1969	33	1	27	34	13	25	478	422	163	411	357	330	2,293
1970	475	274	321	172	174	11	132	354	121	220	143	1,486	3,883
1971	316	171	317	395	360	138	263	134	105	34	1	97	2,331
1972	337	180	345	452	336	203	190	107	44	15	4	43	2,255
1973	709	467	325	684	23	80	175	493	283	939	331	74	4,583
1974	116	10	159	232	238	135	175	241	48	71	171	4	1,600
1975	62	76	13	47	8	8	213	299	274	1,088	356	169	2,613
1976	29	11	269	206	315	103	249	200	145	124	89	188	1,927
1977	109	1	-52	88	11	17	99	46	14	55	322	199	909
1978	37	14	40	16	9	94	331	321	231	176	12	9	1,290
1979	31	26	302	357	305	31	425	-3,346	-1,605	976	365	14	-2,118
1980	18	21	198	337	258	5	364	-650	-3,390	545	206	247	-1,840
1981	37	43	302	153	36	4	234	184	100	56	71	103	1,323
1982	799	91	302	38	202	55	476	427	263	617	748	1,407	5,426
1983	577	276	380	550	382	139	245	349	281	897	477	166	4,718
1984	516	53	316	412	372	136	403	146	211	306	464	214	3,548
1985	881	452	390	659	380	280	801	537	275	693	387	602	6,336
1986	1,006	262	371	618	434	485	579	457	260	634	278	716	6,099
1987	1,815	1,286	471	593	394	148	541	404	229	246	170	17	6,313
1988	93	277	310	252	321	119	300	223	120	122	254	138	2,528
1989	16	11	236	278	341	501	524	210	57	77	90	59	2,401
1990	257	1	0	0	18	36	208	109	121	132	178	466	1,526
1991	723	361	330	371	390	90	586	449	183	205	396	379	4,465
1992	27	168	337	258	307	84	571	478	169	263	506	94	3,263
1993	14	38	147	302	242	231	455	475	265	528	656	456	3,809
1994	252	50	298	303	99	224	485	-200	225	101	63	301	2,201
1995	183	143	340	417	516	398	320	362	279	1,210	695	194	5,057
1996	100	38	89	121	367	86	339	4	33	83	8	53	1,321
1997	31	72	141	403	323	407	289	451	157	368	690	678	4,012
1998	576	194	338	447	301	192	261	427	147	276	158	36	3,353
1999	397	343	352	389	347	197	266	336	200	258	997	425	4,507
2000	75	3	0	0	8	33	328	215	26	3	19	0	710
2001	103	27	250	220	46	70	401	519	149	148	375	20	2,327
2002	7	3	24	40	0	37	100	9	1	0	0	20	241
2003	21	19	44	24	50	60	238	270	95	25	50	374	1,269
2004	52	72	309	266	131	338	317	305	103	69	20	432	2,414
2005	332	197	316	419	356	87	446	469	202	182	334	399	3,740
Average:													
1936-05	254	119	199	230	198	113	369	257	84	304	272	220	2,618
1946-78	148	75	150	161	156	73	313	300	146	265	247	164	2,198
1971-05	304	156	237	296	235	150	348	156	9	329	284	251	2,756

APPENDIX F

Heron Reservoir San Juan-Chama Project Water Losses

Table F-1. Monthly El Vado Dam Pan Evaporation
(Units: Inches)

Year	Apr	May	Jun	Jul	Aug	Sep	Oct
1935							
1936				8.90	7.89	6.18	3.68
1937			8.73	8.98	9.03	7.05	4.66
1938		6.62	8.54	8.77	8.41	5.51	4.66
1939	5.93	10.00	14.14	10.69	7.71	5.93	5.07
1940	5.44	8.13	9.22	10.12	8.19	5.84	4.96
1941		7.47	6.85	8.74	7.60	6.18	3.70
1942		9.66	10.59	9.68	8.33	7.31	5.77
1943		8.99	9.88	9.83	7.65	7.19	
1944			9.19	8.32	7.99	6.85	4.04
1945		8.67	9.96	8.56	7.39	7.59	3.78
1946		7.70	11.62	9.11	6.02	6.28	4.10
1947			12.14		6.69	6.28	4.83
1948		7.69			7.80	6.68	4.72
1949		7.19	8.06	8.09	8.42	6.42	
1950			11.16	8.33	8.25		
1951			11.18	10.86			
1952		7.30	9.46	8.72	7.88	6.49	5.20
1953						7.47	5.40
1954			10.12	8.17	6.98	5.81	
1955			10.10	8.62	6.71	6.86	
1956			10.04	9.56	8.06	8.41	
1957		4.45	7.86	7.25	5.99	6.58	
1958		7.50	9.66	9.56	7.41	5.93	
1959		8.52	9.18	9.64	6.75	7.46	
1960		7.33	9.08	9.66	9.31	6.70	
1961		7.10	7.62	7.80	5.12	3.76	
1962		7.97	9.03	8.28	7.51	4.08	
1963	5.91	8.45	8.69	9.00	6.16	5.19	
1964	5.49	8.72	9.82	7.92	6.86	4.78	4.07
1965	4.95	7.21	7.45	7.65	6.81	4.29	3.62
1966	6.56	7.72	7.98	7.66	6.31	4.92	4.01
1967	5.95	7.91	6.96	7.41	5.64	4.59	
1968	5.01	7.38	8.12	7.21	6.43	4.59	
1969	5.08	6.41	7.52	9.30	5.81	4.39	3.13
1970		8.19	8.16	8.66	7.93	6.22	3.37
1971		7.57	10.07	9.29	7.09	6.83	3.43
1972		10.52	9.44	10.34	7.81	6.20	3.18
1973	4.36	7.12	8.56	8.29	7.51	6.74	4.32
1974	6.08	9.93	9.39	8.68	7.29	6.85	3.50
1975	4.67	7.64	9.39	8.37	7.79	5.49	4.72
1976	5.61	7.35	10.61	9.04	7.18	4.85	3.59
1977	5.18	8.69	10.09	8.45	7.50	4.97	3.76
1978	6.44	7.42	9.00	9.42	7.62	5.55	4.38
1979	5.06	5.68	7.87	8.32	7.08	6.65	4.88
1980	5.03	6.84	10.52	9.18	8.01	6.19	4.17
1981	6.40	7.50	10.22	8.26	6.85	5.29	3.53
1982	5.92	6.98	7.77	8.34	5.90	4.03	3.29
1983	5.03	6.92	8.02	7.93	6.10	5.92	3.49
1984	5.18 a	9.04	7.94	8.75	7.29	5.69	2.22
1985	5.08	5.52	8.56	8.15	7.53	5.26	3.47 a
1986			7.35	6.77	6.74	4.41	2.95
1987	5.81	5.59	8.77	10.16	7.40	6.00	4.44
1988	5.36	7.77	8.02	8.26	5.90	5.70	4.23
1989	7.91	9.53	9.40	8.81	7.01	6.32	4.28 a
1990	5.12	8.06	10.56	7.59	6.71	5.66	3.71
1991	6.26	8.43	7.45	8.01	6.66	5.27	4.65
1992	6.17	6.16	8.85	8.24	6.68	5.70	4.26
1993	6.16	6.30	9.25	10.80	6.75	6.14	
1994	4.13	6.16	8.58	9.26	6.94	5.22	3.08
1995	4.51	5.72	8.21	8.48	7.71	5.32	4.28
1996	6.54 a	10.61	9.16	7.99	7.25	5.58	4.13
1997	4.73 a	6.72	7.21	7.87	6.24	4.85	3.51 a
1998	4.74	8.32	10.98	8.03	7.05	6.30	4.04
1999	5.16	6.79	8.59	7.77	5.57	4.50	4.36
2000	6.46	8.85	9.65	9.35	8.27 a	7.32	3.76
2001	5.64	8.76	10.10	9.39	7.31	6.86	5.72
2002	7.70	10.20	11.67	9.42	8.71	5.72	3.57
2003	5.92	7.88	9.87	10.55	7.46	6.24	4.16
2004	5.11	9.69	10.17	9.21	8.44	6.55	3.32
2005	5.59	7.78	8.76	10.18	7.40	6.26	3.32
Average							
1935-2005	5.59	7.77	9.23	8.78	7.23	5.92	4.05
1975-2005	5.62	7.63	9.12	8.72	7.13	5.67	3.91

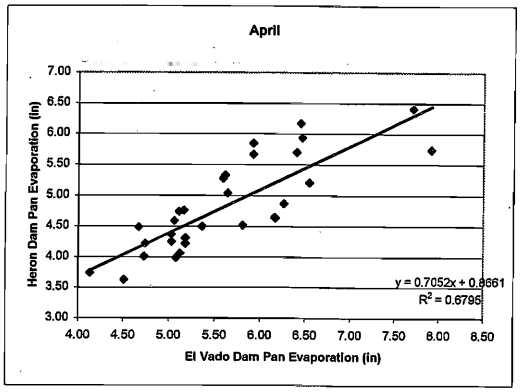
Sources – NOAA (US Weather Bureau) reports except as noted below:
a - Rio Grande Compact Commission reports.

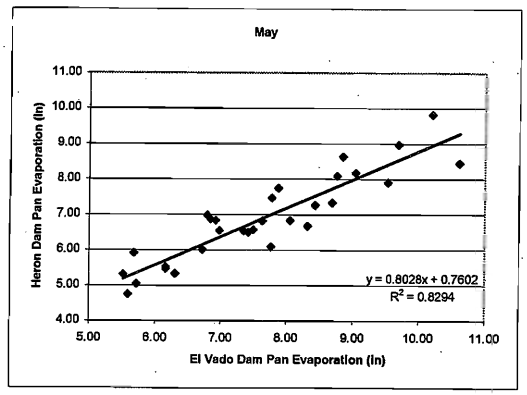
Table F-2. Heron Dam Pan Evaporation Monthly Correlations, 1975-2005
(Units: Inches)

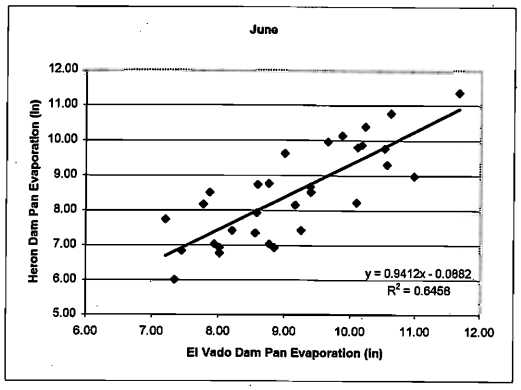
	April		May		June		July		August		September		October	
	Pan Evaporation (in)		Pan Evaporation (in)		Pan Evaporation (in)		Pan Evaporation (in)		Pan Evaporation (in)		Pan Evaporation (in)		Pan Evaporation (in)	
Year	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam	Heron Dam	El Vado Dam
1	4.49	4.67	6.83	7.64	8.68	9.39	6.66	8.37	7.37	7.79	4.92	5.49	4.80	4.72
2	5.33	5.61	6.54	7.35	10.77	10.61	10.19	9.04	7.79	7.18	5.08	4.85	4.08	3.59
3	4.31	5.18	7.34	8.69	8.23	10.09	7.89	8.45	9.06	7.50	7.41	4.97	4.84	3.76
4	6.17	6.44	6.51	7.42	9.63	9.00	10.12	9.42	8.70	7.62	6.45	5.55	4.49	4.38
5	4.59	5.06	5.92	5.68	8.51	7.87	8.79	8.32	7.77	7.08	6.50	6.65	4.89	4.88
6	4.25	5.03	6.87	6.84	9.77	10.52	9.66	9.18	7.98	8.01	6.24	6.19	3.67	4.17
7	5.70	6.40	6.58	7.50	10.39	10.22	8.53	8.26	8.55	6.85	5.28	5.29	3.34	3.53
8	5.67	5.92	6.55	6.98	8.17	7.77	8.44	8.34	6.01	5.90	3.72	4.03	3.26	3.29
9	4.37	5.03	6.84	6.92	6.94	8.02	7.38	7.93	6.26	6.10	5.08	5.92	2.55	3.49
10	4.22	5.18	8.17	9.04	7.04	7.94	7.83	8.75	6.63	7.29	5.90	5.69	1.92	2.22
11	3.99	5.08	5.32	5.52	7.35	8.56	7.27	8.15	6.70	7.53	4.39	5.26	2.83	3.47
12	4.52	5.81	4.75	5.59	6.01	7.35	6.93	6.77	6.52	6.74	3.97	4.41	2.76	2.95
13	4.50	5.36	6.10	7.77	7.04	8.77	8.14	10.16	5.95	7.40	5.34	6.00	3.82	4.44
14	5.74	7.91	7.91	9.53	6.77	8.02	7.72	8.26	5.86	5.90	4.90	5.70	3.67	4.23
15	4.06	5.12	6.84	8.06	8.52	9.40	8.13	8.81	6.89	7.01	5.95	6.32	3.63	4.28
16	4.87	6.26	7.27	8.43	9.31	10.56	6.77	7.59	6.04	6.71	4.96	5.66	2.98	3.71
17	4.64	6.17	5.47	6.16	6.84	7.45	7.25	8.01	6.78	6.66	4.56	5.27	3.90	4.65
18	4.65	6.16	5.34	6.30	6.94	8.85	7.44	8.24	5.81	6.68	5.16	5.70	3.50	4.26
19	3.74	4.13	5.53	6.16	7.43	9.25	9.31	10.80	6.21	6.75	5.20	6.14	2.71	3.08
20	3.63	4.51	5.04	5.72	7.93	8.58	8.76	9.26	6.65	6.94	4.39	5.22	3.49	4.28
21	5.21	6.54	8.45	10.61	7.42	8.21	7.53	8.48	6.74	7.71	4.68	5.32	3.26	4.13
22	4.01	4.73	6.01	6.72	8.16	9.16	7.70	7.99	6.72	7.25	4.92	5.58	3.66	3.51
23	4.22	4.74	6.68	8.32	7.74	7.21	8.64	7.87	5.93	6.24	5.03	4.85	3.64	4.04
24	4.76	5.16	6.98	6.79	8.98	10.98	7.36	8.03	6.49	7.05	5.69	6.30	4.48	4.36
25	5.94	6.46	8.63	8.85	8.74	8.59	6.94	7.77	5.95	5.57	5.12	4.50	3.22	3.76
26	5.04	5.64	8.09	8.76	9.96	9.65	9.87	9.35	8.41	8.27	7.56	7.32	4.60	5.72
27	6.41	7.70	9.82	10.20	9.81	10.10	8.32	9.39	6.86	7.31	7.22	6.86	3.50	3.57
28	5.85	5.92	7.74	7.88	11.37	11.67	9.65	9.42	9.36	8.71	6.03	5.72	4.23	4.16
29	4.74	5.11	8.97	9.69	10.14	9.87	10.94	10.55	7.69	7.46	6.01	6.24	3.44	3.32
30	5.28	5.59	7.47	7.78	9.87	10.17	9.11	9.21	8.73	8.44	6.39	6.55	3.46	3.32
31					8.77	8.76	10.98	10.18	8.27	7.40	6.42	6.26		

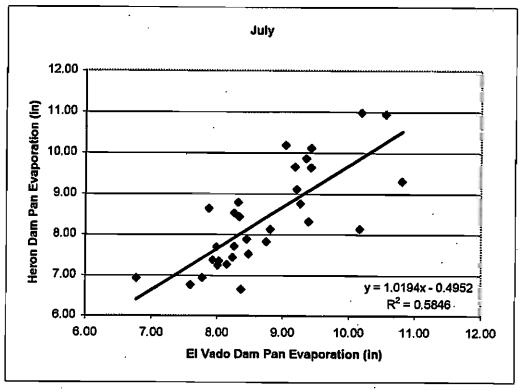
April excludes 1986 May excludes 1986 Oct. excludes 1993

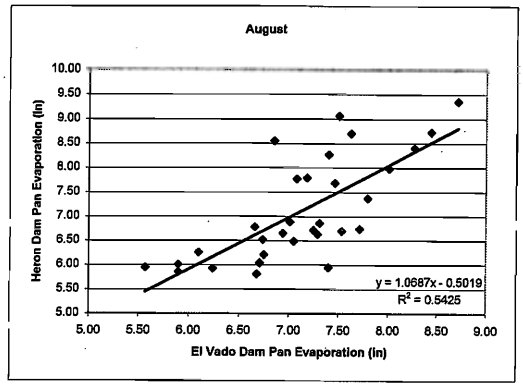
Table F-2(a). Monthly Correlations of Heron Dam Pan Evaporation to El Vado Dam Pan Evaporation

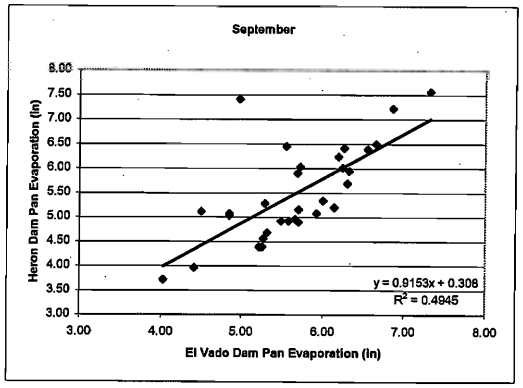












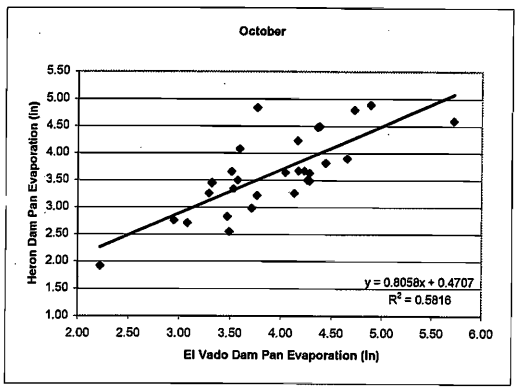


Table F-3. Monthly Heron Dam Pan Evaporation
(Units: Inches)

Year	Apr	May	Jun	Jul	Aug	Sep	Oct
1935	4.85 d	7.00 d	8.60 d	8.45 d	7.23 d	5.72 d	3.69 d
1936	4.85 d	7.00 d	8.60 d	8.58 b	7.93 b	5.96 b	3.44 b
1937	5.35 c	7.66 c	8.13 b	8.66 b	9.15 b	6.76 b	4.23 b
1938	4.87 c	6.07 b	7.95 b	8.44 b	8.48 b	5.35 b	4.23 b
1939	5.05 b	8.79 b	13.22 b	10.41 b	7.74 b	5.73 b	4.55 b
1940	4.70 b	7.29 b	8.59 b	9.82 b	8.25 b	5.65 b	4.47 b
1941	4.63 c	6.75 b	6.36 b	8.41 b	7.62 b	5.96 b	3.45 b
1942	5.80 c	8.52 b	9.88 b	9.37 b	8.40 b	7.00 b	5.12 b
1943	5.45 c	7.98 b	9.21 b	9.53 b	7.67 b	6.89 b	4.09 c
1944	5.06 c	7.24 c	8.56 b	7.99 b	8.04 b	6.58 b	3.73 b
1945	5.21 c	7.72 b	9.29 b	8.23 b	7.40 b	7.25 b	3.52 b
1946	5.08 c	6.94 b	10.85 b	8.79 b	5.93 b	6.06 b	3.77 b
1947	4.85 d	7.00 d	11.34 b	8.45 d	6.65 b	6.06 b	4.37 b
1948	4.85 d	6.93 b	8.60 d	8.45 d	7.83 b	6.42 b	4.27 b
1949	4.81 c	6.53 b	7.50 b	7.75 b	8.50 b	6.18 b	3.61 c
1950	4.85 d	7.00 d	10.42 b	8.00 b	8.31 b	5.72 d	3.69 d
1951	4.85 d	7.00 d	10.43 b	10.58 b	7.23 d	5.72 d	3.69 d
1952	5.12 c	6.62 b	8.82 b	8.39 b	7.92 b	6.25 b	4.66 b
1953	4.85 d	7.00 d	8.60 d	8.45 d	7.23 d	7.15 b	4.82 b
1954	4.85 d	7.00 d	9.44 b	7.83 b	6.96 b	5.63 b	3.69 d
1955	4.85 d	7.00 d	9.42 b	8.29 b	6.67 b	6.59 b	3.69 d
1956	4.85 d	7.00 d	9.36 b	9.25 b	8.11 b	8.01 b	3.69 d
1957	4.06 c	4.33 b	7.31 b	6.90 b	5.90 b	6.33 b	3.05 c
1958	5.04 c	6.78 b	9.00 b	9.25 b	7.42 b	5.74 b	3.78 c
1959	5.19 c	7.60 b	8.55 b	9.33 b	6.71 b	7.14 b	3.90 c
1960	5.32 c	6.64 b	8.46 b	9.35 b	9.45 b	6.44 b	4.00 c
1961	3.92 c	6.46 b	7.08 b	7.46 b	4.97 b	3.75 b	2.95 c
1962	4.63 c	7.16 b	8.41 b	7.95 b	7.52 b	4.04 b	3.48 c
1963	5.03 b	7.54 b	8.09 b	8.68 b	6.08 b	5.06 b	3.54 c
1964	4.74 b	7.76 b	9.15 b	7.58 b	6.83 b	4.68 b	3.75 b
1965	4.36 b	6.55 b	6.92 b	7.30 b	6.78 b	4.23 b	3.39 b
1966	5.49 b	6.96 b	7.42 b	7.31 b	6.24 b	4.81 b	3.70 b
1967	5.06 b	7.11 b	6.46 b	7.06 b	5.53 b	4.51 b	3.13 c
1968	4.40 b	6.68 b	7.55 b	6.85 b	6.37 b	4.51 b	3.18 c
1969	4.45 b	5.91 b	6.99 b	8.99 b	5.71 b	4.33 b	2.99 b
1970	4.85 c	7.34 b	7.59 b	8.33 b	7.97 b	6.00 b	3.19 b
1971	5.05 c	6.84 b	9.39 b	8.98 b	7.08 b	6.56 b	3.23 b
1972	5.39 c	9.21 b	8.80 b	10.05 b	7.84 b	5.98 b	3.03 b
1973	3.94 b	6.48 b	7.97 b	7.96 b	7.52 b	6.48 b	3.95 b
1974	5.15 b	8.73 b	8.75 b	8.35 b	7.29 b	6.58 b	3.29 b
1975	4.49 e	6.83 e	8.68 e	6.66 e	7.37 e	4.92 e	4.80 e
1976	5.33 e	6.54	10.77	10.19	7.79	5.08	4.08
1977	4.31	7.34	8.23	7.89	9.06	7.41	4.84
1978	6.17	6.51	9.63	10.12	8.70	6.45	4.49
1979	4.59	5.92	8.51	8.79	7.77	6.50	4.89
1980	4.25	6.87	9.77	9.66	7.98	6.24	3.67
1981	5.70	6.58	10.39	8.53	8.55	5.28	3.34
1982	5.67	6.55	8.17	8.44	6.01	3.72	3.26
1983	4.37	6.84	6.94	7.38	6.26	5.08	2.55
1984	4.22	8.17	7.04	7.83	6.63	5.90	1.92
1985	3.99	5.32	7.35	7.27	6.70	4.39	2.83
1986	3.89	6.27	6.01	6.93	6.52	3.97	2.76
1987	4.52	4.75	7.04	8.14	5.95	5.34	3.82
1988	4.50	6.10	6.77	7.72	5.86	4.90	3.67
1989	5.74	7.91	8.52	8.13	6.89	5.95	3.63
1990	4.06	6.84	9.31	6.77	6.04	4.96	2.98
1991	4.87 a	7.27 a	6.84 a	7.25 a	6.78 a	4.56 a	3.90 a
1992	4.64	5.47	6.94	7.44	5.81	5.16	3.50
1993	4.65	5.34	7.43	9.31	6.21	5.20	3.12
1994	3.74	5.53	7.93	8.76	6.65	4.39	2.71
1995	3.63	5.04	7.42	7.53	6.74	4.68	3.49
1996	5.21	8.45	8.16	7.70	6.72	4.92	3.26
1997	4.01	6.01	7.74	8.64	5.93	5.03	3.66
1998	4.22	6.68	8.98	7.36	6.49	5.69	3.64
1999	4.76	6.98	8.74	6.94	5.95	5.12	4.48
2000	5.94	8.63	9.96	9.87	8.41	7.56	3.22
2001	5.04	8.09	9.81	8.32	6.86	7.22	4.60
2002	6.41	9.82	11.37	9.65	9.36	6.03	3.50
2003	5.85	7.74	10.14	10.94	7.69	6.01	4.23
2004	4.74	8.97	9.87	9.11	8.73	6.39	3.44
2005	5.28	7.47	8.77	10.98	8.27	6.42	3.46
Average							
1935-2005 (in)	4.85	7.00	8.60	8.45	7.23	5.72	3.69
1975-2005 (in)	4.80	6.87	8.49	8.40	7.12	5.50	3.60
1975-2005 (%)	0.11	0.15	0.19	0.19	0.16	0.12	0.08

Sources – Rio Grande Compact Commission reports, except as noted below:

a - USBR URGWOM data (from SJCP water accounting reports);
b - Computed from El Vado Dam pan evaporation using monthly correlations;
c - Estimated from 1975-2005 average monthly distribution percentages;
d - Estimated long-term average Heron Dam pan evaporation;
e - USBR URGWOM data (from SJCP Chama operations office records).

Table F-4. Monthly El Vado Dam Precipitation
(Units: Inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1935												
1936							2.26	3.00	4.18	1.48	0.30	1.21
1937	1.85	2.07	1.78	0.36	1.29	0.35	1.22	1.28	2.79	0.90	0.09	1.37
1938	1.57	2.24	1.69	1.28	0.91	1.67	1.15	0.77	2.31	0.66	0.40	0.56
1939	2.01	0.99	1.16	0.55	0.03	0.00	2.40	1.43	2.01	1.31	0.95	0.85
1940	2.40	1.63	1.44	0.31	1.06	1.44	1.71	1.58	1.53	1.06	2.29	2.30
1941	1.87	0.91	2.23	2.84	1.53	3.08	0.82	1.14	3.78	3.29	0.39	1.54
1942	0.22	0.78	1.56	3.54	0.28	0.62	0.80	1.25	0.51	0.81	0.00	0.80 c
1943	0.78	0.50	1.41	0.32	1.11	1.74	0.68	3.32	0.99	1.09	0.70	2.57
1944	1.25	0.63	1.09	0.84	0.55	0.10	2.66	1.27	1.03	1.26	1.17	1.85
1945	0.77	0.44	2.23	1.75	0.26	0.12	2.36	3.14	0.48	0.94	0.07	1.09
1946	0.45	0.19	1.13	1.41	0.29	0.02	1.57	3.57	1.29	1.65	0.70	0.23
1947	0.77	0.59	0.75	0.20	2.01	0.31	0.80 c	3.57	2.16	1.12	0.65	0.98
1948	0.52	0.89	1.27	0.80	1.29	2.29	1.02	1.69	1.65	1.39	0.47	1.49 a
1949	2.49	1.10	0.90	1.89	0.91	3.36	2.20	1.41	0.98	0.96	0.37	0.38
1950	1.17	0.54	0.84	0.60	0.11	0.90	1.29	0.33	1.66	0.20	0.36	1.13
1951	1.51 b	0.74 b	0.39	1.74	0.39	0.00	0.42	2.93	0.13	0.67	0.71	2.23
1952	1.68	0.43	0.38	1.76	0.45	0.79	0.92	1.42	1.18	0.00	2.48	0.75
1953	0.45	0.35	0.55	0.59	0.71	0.27	2.55	1.15	0.07	1.67	0.89	0.83
1954	0.48	0.14	2.36	0.03	2.52	0.54	1.38	1.58	1.37	0.70	0.20	0.45
1955	0.53	1.31	0.21	0.65	1.28	0.15	3.24	2.37	0.59	0.00	0.92	1.10
1956	1.16	0.84	0.08	0.49	0.30	0.15	1.28	0.89	0.02	0.69	0.07	0.09
1957	3.64	0.80	1.01	1.15	2.30	1.26	2.73	2.99	0.08	1.65	1.88	0.47
1958	1.92	1.56	1.74	2.45	0.52	0.11	1.18	1.29	1.06	0.88	0.27	0.26
1959	0.16	0.74	0.56	0.80	0.49	0.64	1.26	2.85	0.69	2.60	0.26	1.64
1960	0.99	0.99	1.12	1.05	0.82	0.34	1.32	0.54	0.54	2.06	0.56	1.39
1961	0.50	0.77	2.05	0.59	0.22	0.24	0.82	3.20	2.78	2.60	1.22	1.15
1962	0.67	1.60	0.57	0.45	0.11	0.10	1.86	0.41	2.92	0.74	2.44	0.34
1963	0.60	1.17	1.72	0.32	0.00	0.29	2.26	2.64	0.99	0.99	0.34	0.09
1964	0.51	0.60	0.78	0.98	0.89	0.17	2.23	3.65	2.18	0.00	1.27	2.18
1965	1.99	0.92	0.83	0.57	1.31	1.21	3.13	2.24	2.53	1.17	1.80	1.40
1966	0.34	0.41	0.52	0.47	0.36	1.08	2.21	1.36	0.44	0.03	0.29	2.39
1967	0.59	0.14	0.48	0.17	0.29	1.61	3.15	6.78	1.64	0.20	0.06	1.25
1968	0.59	1.44	0.92	0.84	1.45	0.42	1.45	3.74	0.05	0.58	0.88	0.53
1969	3.21	0.68	0.71	0.34	1.64	2.01	2.97	5.56	3.01	2.52	0.46	0.98
1970	0.20	0.14	1.45	0.92	0.18	0.92	2.31	2.65	2.22	1.24	0.59	0.37
1971	0.72	0.48	0.29	0.70	0.56	0.32	2.14	2.47	2.73	1.72	0.62	1.44
1972	0.23	0.38	0.21	0.12	0.57	1.45	0.93	1.13	2.44	4.18	1.32	1.32
1973	0.81	0.78	2.38	0.74	1.78	0.65	2.16	1.06	1.41	0.52	0.34	1.03
1974	1.53	0.27	1.20	0.46	0.00	0.77	1.33	2.27	0.58	2.33	0.76	0.69
1975	0.72	1.58	2.00	0.66	0.56	0.37	2.61	1.31	1.55	0.02	1.24	0.17
1976	0.15	0.99	0.28	0.79	0.79	0.20	1.04	2.17	2.69	0.38	0.37	0.00
1977	0.91	0.18	0.17	1.05	1.12	0.48	3.56	2.76	3.80	0.63	1.13	0.17
1978	1.58	1.20	2.55	0.40	2.90	0.59	0.83	0.66	1.12	1.19	1.75	1.88
1979	2.13	0.49	0.73	0.82	4.44	1.52	0.23	1.45	0.44	0.78	1.75	0.72
1980	2.12	1.57	1.57	1.25	1.13	0.02	0.84	2.42	1.48	1.48	0.37	0.14
1981	0.25	0.17	1.40	0.64	2.13	1.54	1.92	3.94	0.85	1.52	0.24	0.13
1982	1.56	1.73	1.03	0.18	1.03	0.06	4.35	2.87	2.33	0.63	0.70	1.54
1983	0.93	0.77	1.33	0.37	0.89	0.89	1.17	2.93	0.94	1.67	1.33	2.14
1984	0.58	0.20	0.95	0.94	0.23	1.74	1.20	4.44	0.83	3.61	0.21	1.25
1985	0.61	0.96	2.12	2.62	0.66	0.47	1.61	1.84	2.04	3.15	1.43	0.23
1986	0.22	1.24	0.97	1.83	1.36	2.35	2.95	2.59	3.24	2.25	2.63	0.73
1987	1.26	1.35	0.86	0.89	1.39	1.14	0.59	2.63	0.32	0.79	2.02	1.31
1988	1.04	0.83	0.16	1.39	0.76	1.96	0.54	4.12	1.44	0.48	1.25	0.23
1989	1.42	0.88	0.50	0.13	0.20	0.24	2.29	2.68	0.46	1.15	0.00	0.09
1990	0.35	0.60	1.21	1.65	1.64	0.46	3.72	3.20	2.20	1.08	1.47	2.32
1991	0.55	0.06	1.67	0.09	0.65	1.23	1.99	3.34	1.51	0.95	1.87	1.21
1992	0.37	0.54	1.08	0.91	2.75	0.48	1.25	3.67	0.70	0.92	0.88	1.74
1993	2.07	1.37	0.56	0.29	1.85	0.49	0.20	3.49	0.85	1.38	1.78	0.33
1994	0.50	1.29	1.13	2.27	2.28	0.71	1.15	1.75	2.43	1.22	1.75	0.53
1995	1.49	0.34	0.45	1.80	1.26	0.85	0.66	3.79	2.68	0.00	0.50	0.24
1996	0.33	0.73	0.58	0.06	0.00	1.71	0.99	1.44	1.28	1.20	1.63	0.55
1997	1.69	0.55	0.02	2.15	2.94	1.31	1.48	1.85	2.46	1.40	1.30 c	0.83
1998	0.18	0.42	0.23	0.62	0.19	0.02	2.49	3.31	1.90	3.57	1.96	0.31
1999	0.40	0.03	0.23	2.87	1.30	1.08	5.07	3.31	1.48	0.02	0.02	0.00
2000	0.31	0.16	2.33	0.20	0.36	1.29	1.53	0.04	0.13	2.26	1.07	0.07
2001	1.20	0.25	0.74	0.94	0.71	0.61	1.69	2.33	0.20	0.62	0.95	0.41
2002	0.36	0.12	0.25	0.37	0.00	0.23	2.06	1.39	3.22	1.45	0.25	0.83
2003	0.02	2.08	0.47	0.56	0.28	0.31	0.48	1.55	2.57	0.88	1.52	0.33
2004	0.88	1.40	0.11	1.73	0.00	0.42	0.92	0.90	0.88	1.40	0.62	0.63
2005	2.77	2.22	0.98	1.65	0.84	0.21	0.33	2.25	1.18	2.12	0.16	0.25
Average												
1935-2005	1.04	0.83	1.02	0.97	0.98	0.82	1.71	2.32	1.55	1.26	0.91	0.91
1975-2005	0.93	0.85	0.92	1.04	1.18	0.81	1.67	2.47	1.59	1.30	1.10	0.69

Sources -- NOAA (US Weather Bureau) reports for standard precipitation gage except as noted below:

a - NOAA reports for El Vado Dam standard gage plus missing days precipitation from El Vado Dam recording precipitation gage;

b - NOAA reports for El Vado Dam recording precipitation gage;

c - NOAA reports for El Vado Dam standard gage plus missing days precipitation estimated from nearby stations.

Table F-5. Heron Dam Precipitation Monthly Correlations, 1975-2005
(Units: Inches)

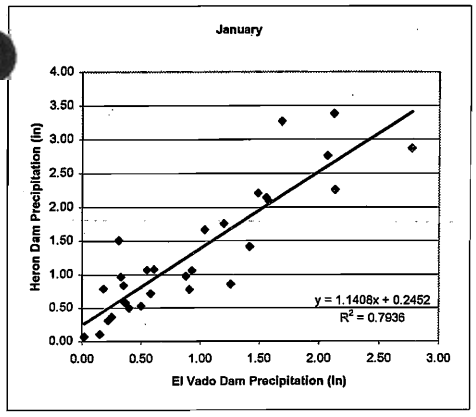
Year	January Precipitation (in) Heron Dam	January Precipitation (in) El Vado Dam	February Precipitation (in) Heron Dam	February Precipitation (in) El Vado Dam	March Precipitation (in) Heron Dam	March Precipitation (in) El Vado Dam	April Precipitation (in) Heron Dam	April Precipitation (in) El Vado Dam	May Precipitation (in) Heron Dam	May Precipitation (in) El Vado Dam	June Precipitation (in) Heron Dam	June Precipitation (in) El Vado Dam
1	0.11	0.15	0.36	0.99	0.23	0.28	0.73	0.66	0.33	0.56	0.31	0.37
2	0.78	0.91	0.20	0.18	0.20	0.17	0.42	0.79	1.00	0.79	0.25	0.20
3	2.09	1.58	1.99	1.20	2.35	2.55	0.87	1.05	0.94	1.12	0.40	0.48
4	2.26	2.13	1.16	0.49	1.00	0.73	0.55	0.40	2.87	2.90	0.78	0.59
5	3.38	2.12	2.46	1.57	2.10	1.57	0.62	0.82	3.31	4.44	1.08	1.52
6	0.37	0.25	0.22	0.17	1.60	1.40	0.74	1.25	1.08	1.13	0.00	0.02
7	2.14	1.56	2.38	1.73	1.87	1.03	0.89	0.64	1.61	2.13	1.49	1.54
8	1.06	0.93	1.61	0.77	2.41	1.33	0.05	0.18	2.11	1.03	0.00	0.06
9	0.72	0.58	0.28	0.20	1.57	0.95	0.81	0.37	0.89	0.89	1.84	0.89
10	1.08	0.61	1.14	0.96	2.83	2.12	0.96	0.94	0.29	0.23	1.07	1.74
11	0.32	0.22	1.96	1.24	1.08	0.97	2.92	2.62	0.72	0.66	0.60	0.47
12	0.86	1.26	1.60	1.35	1.43	0.86	2.86	1.83	1.47	1.36	1.80	2.35
13	1.67	1.04	1.53	0.83	0.17	0.16	1.07	0.89	1.93	1.39	1.22	1.14
14	1.42	1.42	1.45	0.88	1.01	0.50	1.66	1.39	0.67	0.76	2.19	1.96
15	0.84	0.35	0.79	0.60	1.62	1.21	0.00	0.13	0.25	0.20	0.31	0.24
16	1.07	0.55	0.20	0.06	2.02	1.67	2.05	1.65	1.39	1.64	0.73	0.46
17	0.58	0.37	0.90	0.54	3.05	1.08	0.28	0.09	1.09	0.65	1.16	1.23
18	2.76	2.07	2.57	1.37	1.16	0.56	0.56	0.91	3.75	2.75	0.42	0.48
19	0.53	0.50	2.60	1.29	1.83	1.13	0.51	0.29	2.07	1.85	0.33	0.49
20	2.21	1.49	0.79	0.34	3.60	0.45	2.49	2.27	2.74	2.28	0.98	0.71
21	0.97	0.33	1.20	0.73	1.14	0.58	1.89	1.80	1.74	1.26	0.80	0.85
22	3.27	1.69	1.03	0.55	0.01	0.02	0.27	0.06	0.00	0.00	1.56	1.71
23	0.79	0.18	1.28	0.42	1.60	0.23	1.90	2.15	2.35	2.94	1.33	1.31
24	0.50	0.40	0.25	0.03	0.53	0.23	1.07	0.62	0.37	0.19	0.03	0.02
25	1.51	0.31	0.50	0.16	2.53	2.33	2.86	2.87	1.45	1.30	1.03	1.08
26	1.76	1.20	0.73	0.25	1.82	0.74	0.36	0.20	0.26	0.36	1.17	1.29
27	0.59	0.36	0.17	0.12	0.59	0.25	1.21	0.94	1.91	0.71	0.31	0.61
28	0.07	0.02	2.22	2.08	0.84	0.47	0.38	0.37	0.00	0.00	0.09	0.23
29	0.98	0.88	1.84	1.40	0.12	0.11	0.82	0.56	0.78	0.28	0.35	0.31
30	2.87	2.77	3.15	2.22	1.49	0.98	1.97	1.73	0.00	0.00	0.18	0.42
31							1.93	1.65	1.26	0.84	0.32	0.21

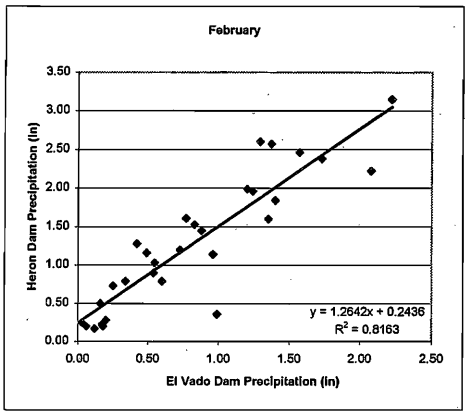
Jan. excludes 1975 Feb. excludes 1975 March excludes 1975

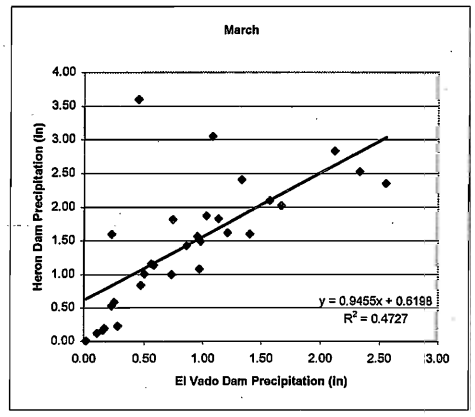
Year	July Precipitation (in) Heron Dam	July Precipitation (in) El Vado Dam	August Precipitation (in) Heron Dam	August Precipitation (in) El Vado Dam	September Precipitation (in) Heron Dam	September Precipitation (in) El Vado Dam	October Precipitation (in) Heron Dam	October Precipitation (in) El Vado Dam	November Precipitation (in) Heron Dam	November Precipitation (in) El Vado Dam	December Precipitation (in) Heron Dam	December Precipitation (in) El Vado Dam
1	1.43	2.61	1.48	1.31	1.23	1.55	0.27	0.02	1.69	1.24	0.00	0.00
2	2.04	1.04	1.85	2.17	2.58	2.69	0.41	0.38	0.78	0.37	0.16	0.17
3	3.20	3.56	2.11	2.76	1.87	3.80	0.64	0.63	1.16	1.13	4.94	1.88
4	0.70	0.83	0.91	0.66	1.04	1.12	1.57	1.19	2.19	1.75	1.14	0.72
5	0.15	0.23	1.84	1.45	0.77	0.44	0.77	0.78	1.50	1.75	0.27	0.14
6	1.41	0.84	1.97	2.42	1.86	1.48	1.11	1.48	0.73	0.37	0.15	0.13
7	1.91	1.92	3.87	3.94	1.13	0.85	1.83	1.52	0.26	0.24	1.52	1.54
8	4.07	4.35	6.76	2.87	2.42	2.33	1.14	0.63	1.75	0.70	2.66	2.14
9	0.56	1.17	4.33	2.93	1.73	0.94	1.39	1.67	3.35	1.33	1.22	1.25
10	1.38	1.20	1.52	4.44	1.91	0.83	4.93	3.61	0.44	0.21	0.58	0.23
11	2.22	1.61	1.31	1.84	2.61	2.04	2.47	3.15	2.22	1.43	0.90	0.73
12	3.05	2.95	3.10	2.59	3.75	3.24	2.77	2.25	3.07	2.63	1.51	1.31
13	1.02	0.59	1.94	2.63	0.24	0.32	0.97	0.79	2.23	2.02	0.42	0.23
14	1.58	0.54	3.57	4.12	1.44	1.44	0.32	0.48	1.17	1.25	0.16	0.09
15	1.34	2.29	2.41	2.68	0.55	0.46	1.31	1.15	0.03	0.00	3.20	2.32
16	3.00	3.72	3.04	3.20	2.37	2.20	1.92	1.08	1.55	1.47	1.74	1.21
17	1.57	1.99	1.79	3.34	1.75	1.51	1.23	0.95	2.65	1.87	2.56	1.74
18	2.67	1.25	3.17	3.67	0.65	0.70	0.38	0.92	1.74	0.88	0.52	0.33
19	0.00	0.20	4.02	3.49	1.16	0.85	1.92	1.38	2.02	1.78	0.55	0.53
20	1.58	1.15	2.17	1.75	2.55	2.43	1.42	1.22	2.90	1.75	0.26	0.24
21	0.47	0.66	2.57	3.79	1.93	2.68	0.00	0.00	0.53	0.50	0.71	0.55
22	2.65	0.99	2.38	1.44	1.45	1.28	1.40	1.20	2.61	1.63	1.36	0.83
23	3.36	1.48	2.18	1.85	2.22	2.46	1.68	1.40	1.21	1.30	0.20	0.31
24	2.37	2.49	2.60	3.31	1.06	1.90	3.56	3.57	2.03	1.96	0.01	0.00
25	2.43	5.07	3.70	3.31	2.13	1.48	0.14	0.02	0.05	0.02	0.41	0.07
26	1.12	1.53	0.90	0.04	0.28	0.13	2.47	2.26	1.54	1.07	0.79	0.41
27	2.58	1.69	1.98	2.33	0.30	0.20	0.54	0.62	1.25	0.95	1.00	0.83
28	1.91	2.06	1.58	1.39	4.74	3.22	1.83	1.45	1.39	0.25	0.48	0.33
29	1.03	0.48	2.92	1.55	2.63	2.57	0.98	0.88	1.83	1.52	0.64	0.63
30	0.95	0.92	0.61	0.90	1.23	0.88	1.37	1.40	0.46	0.62	0.31	0.25
31	0.51	0.33	1.63	2.25	1.20	1.18	2.50	2.12	0.06	0.16		

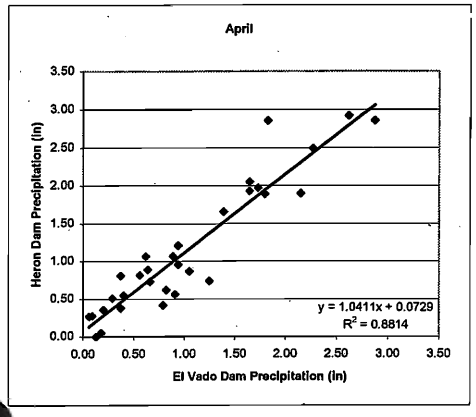
Dec. excludes 1975

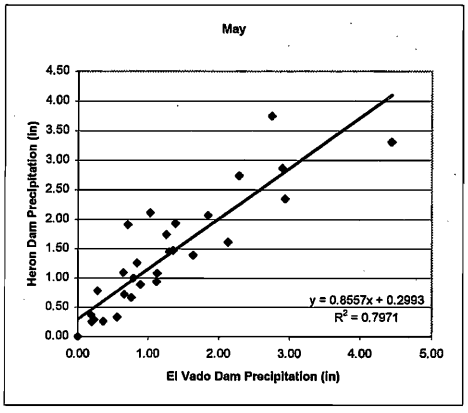
Table F-5(a). Monthly Correlations of Heron Dam Precipitation to El Vado Dam Precipitation

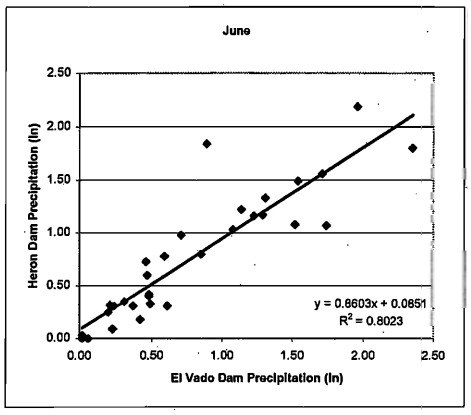


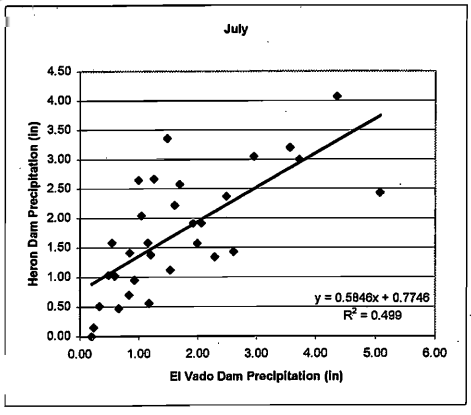


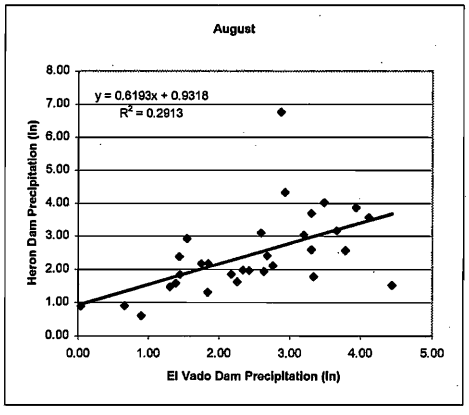


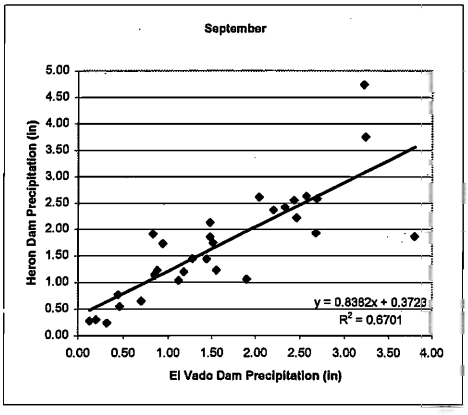


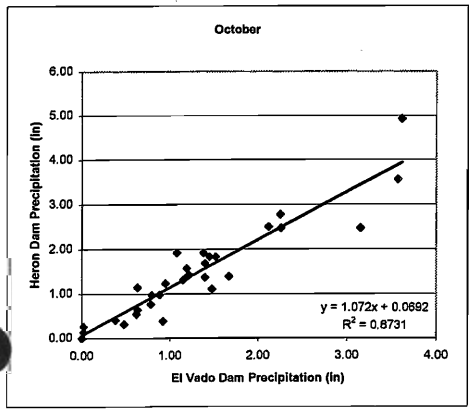


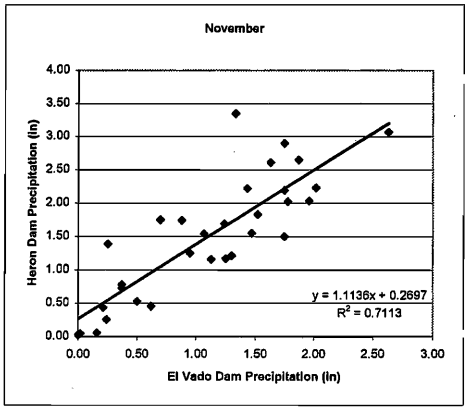












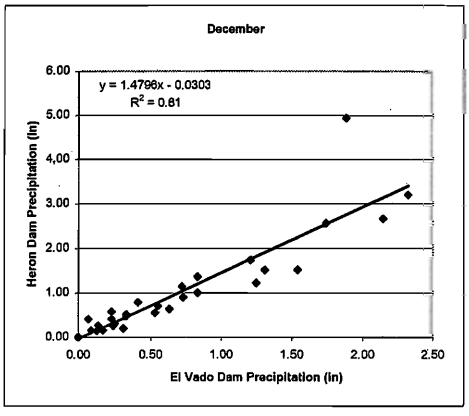


Table F-6. Monthly Heron Dam Precipitation
(Units: Inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1935	0.53 d	1.90 d	2.38 d	2.20 d	3.90 d	0.42 d	2.05 d	2.80 d	4.05 d	1.29 d	0.91 d	0.49 d
1936	1.10 d	2.19 d	0.61 d	2.05 d	1.00 d	0.51 d	2.10 b	2.79 b	3.88 b	1.66 b	0.60 b	1.76 b
1937	2.36 b	2.86 b	2.30 b	0.45 b	1.40 b	0.39 b	1.49 b	1.72 b	2.71 b	1.03 b	0.37 b	2.00 b
1938	2.04 b	3.08 b	2.22 b	1.41 b	1.08 b	1.52 b	1.45 b	1.41 b	2.31 b	0.78 b	0.72 b	0.80 b
1939	2.54 b	1.50 b	1.72 b	0.65 b	0.32 b	0.09 b	2.18 b	1.82 b	2.06 b	1.47 b	1.33 b	1.23 b
1940	2.98 b	2.30 b	1.98 b	0.40 b	1.21 b	1.32 b	1.77 b	1.91 b	1.65 b	1.21 b	2.82 b	3.37 b
1941	2.38 b	1.39 b	2.73 b	3.03 b	1.61 b	2.73 b	1.25 b	1.64 b	3.54 b	3.60 b	0.70 b	2.25 b
1942	0.50 b	1.23 b	2.09 b	3.76 b	0.54 b	0.62 b	1.24 b	1.71 b	0.80 b	0.94 b	0.27 b	1.15 b
1943	1.14 b	0.88 b	1.95 b	0.41 b	1.25 b	1.58 b	1.17 b	2.99 b	1.20 b	1.24 b	1.05 b	3.77 b
1944	1.67 b	1.04 b	1.65 b	0.95 b	0.77 b	0.17 b	2.33 b	1.72 b	1.24 b	1.42 b	1.57 b	2.71 b
1945	1.12 b	0.80 b	2.73 b	1.89 b	0.52 b	0.19 b	2.15 b	2.88 b	0.77 b	1.08 b	0.35 b	1.58 b
1946	0.76 b	0.48 b	1.69 b	1.54 b	0.55 b	0.10 b	1.69 b	3.14 b	1.45 b	1.84 b	1.05 b	0.31 b
1947	1.12 b	0.99 b	1.33 b	0.28 b	2.02 b	0.35 b	1.24 b	3.14 b	2.18 b	1.27 b	0.99 b	1.42 b
1948	0.84 b	1.37 b	1.82 b	0.91 b	1.40 b	2.06 b	1.37 b	1.98 b	1.76 b	1.56 b	0.79 b	2.17 b
1949	3.09 b	1.63 b	1.47 b	2.04 b	1.08 b	2.98 b	2.06 b	1.81 b	1.19 b	1.10 b	0.68 b	0.53 b
1950	1.58 b	0.93 b	1.41 b	0.70 b	0.39 b	0.86 b	1.53 b	1.14 b	1.76 b	0.28 b	0.67 b	1.64 b
1951	1.97 b	1.18 b	0.99 b	1.88 b	0.63 b	0.09 b	1.02 b	2.75 b	0.48 b	0.79 b	1.06 b	3.27 b
1952	2.16 b	0.79 b	0.98 b	1.91 b	0.68 b	0.76 b	1.31 b	1.81 b	1.36 b	0.07 b	3.03 b	1.08 b
1953	0.76 b	0.69 b	1.14 b	0.69 b	0.91 b	0.32 b	2.27 b	1.64 b	0.43 b	1.86 b	1.26 b	1.20 b
1954	0.79 b	0.42 b	2.85 b	0.10 b	2.46 b	0.55 b	1.58 b	1.91 b	1.52 b	0.82 b	0.49 b	0.64 b
1955	0.85 b	1.90 b	0.82 b	0.75 b	1.39 b	0.21 b	2.67 b	2.40 b	0.87 b	0.07 b	1.29 b	1.60 b
1956	1.57 b	1.31 b	0.70 b	0.58 b	0.56 b	0.21 b	1.52 b	1.48 b	0.39 b	0.81 b	0.35 b	0.10 b
1957	4.40 b	1.25 b	1.57 b	1.27 b	2.27 b	1.17 b	2.37 b	2.78 b	0.44 b	1.84 b	2.36 b	0.67 b
1958	2.44 b	2.22 b	2.26 b	2.62 b	0.74 b	0.18 b	1.46 b	1.73 b	1.26 b	1.01 b	0.57 b	0.35 b
1959	0.43 b	1.18 b	1.15 b	0.91 b	0.72 b	0.64 b	1.51 b	2.70 b	0.95 b	2.86 b	0.56 b	2.40 b
1960	1.37 b	1.50 b	1.68 b	1.17 b	1.00 b	0.38 b	1.55 b	1.27 b	0.82 b	2.28 b	0.89 b	2.03 b
1961	0.82 b	1.22 b	2.56 b	0.69 b	0.49 b	0.29 b	1.25 b	2.91 b	2.70 b	2.86 b	1.63 b	1.67 b
1962	1.01 b	2.27 b	1.16 b	0.54 b	0.39 b	0.17 b	1.86 b	1.19 b	2.82 b	0.86 b	2.99 b	0.47 b
1963	0.93 b	1.72 b	2.25 b	0.41 b	0.30 b	0.33 b	2.10 b	2.57 b	1.20 b	1.13 b	0.65 b	0.10 b
1964	0.83 b	1.00 b	1.36 b	1.09 b	1.06 b	0.23 b	2.08 b	3.19 b	2.20 b	0.07 b	1.68 b	3.20 b
1965	2.52 b	1.41 b	1.40 b	0.67 b	1.42 b	1.13 b	2.60 b	2.32 b	2.49 b	1.32 b	2.27 b	2.04 b
1966	0.63 b	0.76 b	1.11 b	0.56 b	0.61 b	1.01 b	2.07 b	1.77 b	0.74 b	0.10 b	0.59 b	3.51 b
1967	0.92 b	0.42 b	1.07 b	0.25 b	0.55 b	1.47 b	2.62 b	5.13 b	1.75 b	0.28 b	0.34 b	1.82 b
1968	0.92 b	2.06 b	1.49 b	0.95 b	1.54 b	0.45 b	1.62 b	3.25 b	0.41 b	0.69 b	1.25 b	0.75 b
1969	3.91 b	1.10 b	1.29 b	0.43 b	1.70 b	1.81 b	2.51 b	4.38 b	2.90 b	2.77 b	0.78 b	1.42 b
1970	0.47 b	0.42 b	1.99 b	1.03 b	0.45 b	0.88 b	2.13 b	2.57 b	2.23 b	1.40 b	0.93 b	0.52 b
1971	1.07 b	0.85 b	0.89 b	0.80 b	0.78 b	0.36 b	2.03 b	2.46 b	2.66 b	1.91 b	0.96 b	2.10 b
1972	0.51 b	0.72 b	0.82 b	0.20 b	0.79 b	1.33 b	1.32 b	1.63 b	2.42 b	4.55 b	1.74 b	1.92 b
1973	1.17 b	1.23 b	2.87 b	0.84 b	1.82 b	0.64 b	2.04 b	1.59 b	1.55 b	0.63 b	0.65 b	1.49 b
1974	1.99 b	0.58 b	1.75 b	0.55 b	0.30 b	0.75 b	1.55 b	2.34 b	0.86 b	2.57 b	1.12 b	0.99 b
1975	1.07 b	2.24 b	2.51 b	0.73 c	0.33 c	0.31 c	1.43 c	1.48 c	1.23 c	0.27 c	1.69 c	0.22 b
1976	0.11 c	0.36 c	0.23 c	0.42 c	1.00	0.25	2.04	1.85	2.58	0.41	0.78 c	0.00 c
1977	0.78	0.20	0.20	0.87	0.94	0.40	3.20	2.11	1.87	0.64	1.16	0.16
1978	2.09	1.99	2.35	0.55	2.87	0.78	0.70	0.91	1.04	1.57	2.19	4.94
1979	2.26	1.16	1.00	0.62	3.31	1.08	0.15	1.84	0.77	0.77	1.50	1.14
1980	3.38	2.46	2.10	0.74	1.08	0.00	1.41	1.97	1.86	1.11	0.73	0.27
1981	0.37	0.22	1.60	0.89	1.61	1.49	1.91	3.87	1.13	1.83	0.26	0.15
1982	2.14	2.38	1.87	0.05	2.11	0.00	4.07	6.76	2.42	1.14	1.75	1.52
1983	1.06	1.61	2.41	0.81	0.89	1.84	0.56	4.33	1.73	1.39	3.35	2.66
1984	0.72	0.28	1.57	0.96	0.29	1.07	1.38	1.52	1.91	4.93	0.44	1.22
1985	1.08	1.14	2.83	2.92	0.72	0.60	2.22	1.31	2.61	2.47	2.22	0.58
1986	0.32	1.96	1.08	2.86	1.47	1.80	3.05	3.10	3.75	2.77	3.07	0.90
1987	0.86	1.60	1.43	1.07	1.93	1.22	1.02	1.94	0.24	0.97	2.23	1.51
1988	1.67	1.53	0.17	1.66	0.67	2.19	1.58	3.57	1.44	0.32	1.17	0.42
1989	1.42	1.45	1.01	0.00	0.25	0.31	1.34	2.41	0.55	1.31	0.03	0.16
1990	0.84	0.79	1.62	2.05	1.39	0.73	3.00	3.04	2.37	1.92	1.55	3.20
1991	1.07 a	0.20 a	2.02 a	0.28 a	1.09 a	1.16 a	1.57 a	1.79 a	1.75 a	1.23 a	2.65 a	1.74 a
1992	0.58	0.90	3.05	0.56	3.75	0.42	2.67	3.17	0.65	0.38	1.74	2.56
1993	2.76	2.57	1.16	0.51	2.07	0.33	0.00	4.02	1.16	1.92	2.02	0.52
1994	0.53	2.60	1.83	2.49	2.74	0.98	1.58	2.17	2.55	1.42	2.90	0.55
1995	2.21	0.79	3.60	1.89	1.74	0.80	0.47	2.57	1.93	0.00	0.53	0.26
1996	0.97	1.20	1.14	0.27	0.00	1.56	2.65	2.38	1.45	1.40	2.61	0.71
1997	3.27	1.03	0.01	1.90	2.35	1.33	3.36	2.18	2.22	1.68	1.21	1.36
1998	0.79	1.28	1.60	1.07	0.37	0.03	2.37	2.60	1.06	3.56	2.03	0.20
1999	0.50	0.25	0.53	2.86	1.45	1.03	2.43	3.70	2.13	0.14	0.05	0.01
2000	1.51	0.50	2.53	0.36	0.26	1.17	1.12	0.90	0.28	2.47	1.54	0.41
2001	1.76	0.73	1.82	1.21	1.91	0.31	2.58	1.98	0.30	0.54	1.25	0.79
2002	0.59	0.17	0.59	0.38	0.00	0.09	1.91	1.58	4.74	1.83	1.39	1.00
2003	0.07	2.22	0.84	0.82	0.78	0.35	1.03	2.92	2.63	0.98	1.83	0.48
2004	0.98	1.84	0.12	1.97	0.00	0.18	0.95	0.61	1.23	1.37	0.46	0.64
2005	2.87	3.15	1.49	1.93	1.26	0.32	0.51	1.63	1.20	2.50	0.06	0.31
Average												
1935-2005	1.42	1.32	1.59	1.12	1.17	0.78	1.78	2.37	1.70	1.42	1.28	1.31
1975-2005	1.31	1.32	1.49	1.15	1.31	0.78	1.75	2.46	1.70	1.46	1.50	0.99

Sources -- Rio Grande Compact Commission reports, except as noted below:

a - USBR URGWOM data (from SJCP water accounting reports);
b - Computed from El Vado Dam precipitation using monthly correlations;
c - USBR URGWOM data (from SJCP Chama operations office records);
d - Assumed equivalent to Tierra Amarilla precipitation from NOAA records.

Table F-7. El Vado Dam Monthly Average Temperature
(Units: Degrees F)

Year	Jan	Feb	Mar	Nov	Dec
1935					
1936				33.2	23.1
1937	7.8	20.2	31.6	34.2	25.1
1938	20.2	24.8	33.4	33.8	31.2
1939	23.0	21.0	37.7	40.6	32.1
1940	22.0	27.0	40.2	35.4	31.6
1941	28.6	33.6	37.8	39.2	31.6
1942	21.2	22.5	32.0	38.7	32.4
1943	29.8	33.1	39.0	35.3	23.8
1944	21.6	27.4	32.9	36.1	29.6
1945	23.0	31.6	33.8	35.9	21.8
1946	18.1	24.8	36.1	35.0	31.5
1947	18.4	31.6	35.9	29.2	23.9
1948	22.0	25.1	29.7	29.1	24.3 a
1949	17.3	14.9	33.2	36.2	21.1
1950	23.5	32.5	35.4	37.0	
1951			33.7	30.0	25.4 a
1952					
1953				37.0	
1954				37.1	
1955	20.1 a	19.1	33.5	34.1	25.4
1956	30.1	23.2	35.8	29.7 a	22.8 a
1957	27.5	33.6	35.1	29.4	25.5
1958	23.6	28.8	30.2	34.9	29.5
1959	23.7	27.4 a	33.5	34.0	28.1
1960	15.8	20.2	35.3	34.4	25.0
1961	20.5	28.5	34.9	32.6	18.1
1962	17.5	29.7	28.8	37.7	29.2
1963	17.0	30.9	33.4	35.8 a	24.0
1964	17.8	20.0	29.4	33.0	22.3
1965	23.4	27.3	32.4	38.7	28.4
1966	19.5	21.9	36.1	37.3	25.8
1967	18.0	29.1	38.7	36.4	21.3
1968	18.8	30.0	35.9	32.8 b	20.3
1969	27.1	27.6	31.3	33.9	26.8
1970	21.6	32.2	32.1	35.7 a	24.9
1971	19.7	28.1	33.7	33.9	22.6
1972	19.9	29.9	40.2	31.4	23.1
1973	16.6	25.1	32.8	35.8	25.9
1974	19.7	20.1	37.5	35.9	23.7
1975	17.6	23.7	33.1	32.7	26.2
1976	20.3	33.8	35.4	33.0	22.4
1977	16.9	27.5	31.8	35.7	28.4
1978	26.0	26.1	38.1	38.4	20.5
1979	17.4	21.8	32.7 b	29.4	29.6
1980	29.2	32.0	34.6	35.9	34.1
1981	28.8	29.6	35.4	37.4	28.3
1982	20.9	23.3	35.1	34.0	25.8
1983	23.2	28.5	33.8	34.6	26.5 a
1984	18.8	25.6	35.0	34.5	29.6
1985	25.9	25.4	36.7	34.3	27.2
1986	29.5 a	31.1	38.1	34.6	27.9
1987	24.2	29.5	33.1	35.5	25.3
1988	18.0	28.9	36.7	34.3	25.5
1989	20.8	29.8	40.1	32.7	24.1
1990	22.0	29.7	37.9	37.9	20.7
1991	22.1	31.1	35.3	33.7	27.2
1992	21.3	30.9	37.8	31.3	21.9
1993	27.7	30.5	37.2	30.8	25.6
1994	24.5	25.5	38.9	33.5	31.5
1995	28.3	36.8	40.0	37.9	30.6
1996	25.9	34.3	36.7	36.8 a	27.5
1997	26.0	32.5	39.7	35.3	24.4
1998	29.1	30.9	37.3	38.2	29.8
1999	30.4	33.9	40.3 a	38.1	26.1
2000	28.3	34.4	37.0	29.4	28.9
2001	22.8	28.6	34.4	38.5	25.1
2002	25.0	26.5	34.8	34.9	25.0
2003	31.4	31.1	36.5	34.7	29.0
2004	26.2	26.6	41.3	37.2	28.4
2005	33.5	34.5	38.4	35.4	26.9 a
Average					
1935-2005	22.71	27.95	35.39	34.79	26.22
1975-2005	24.57	29.49	36.55	34.84	26.76

Sources -- NOAA (Weather Bureau) reports except as noted below:
a - NOAA reports plus missing days estimated from Tierra Amarilla
b - NOAA reports plus missing days estimated from Chama

Table F-8. Chama Monthly Average Temperature
(Units: Degrees F)

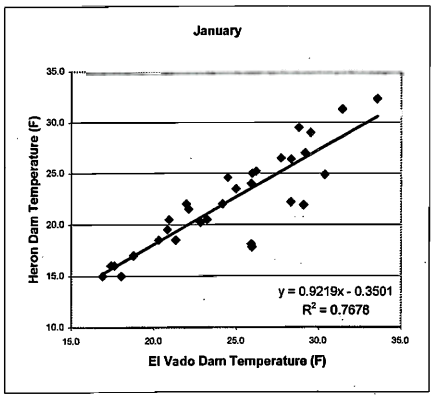
Year	Jan	Feb	Mar	Nov	Dec
1935	27.5	30.2	30.8	33.8	25.0
1936	22.0	24.1	32.9	36.8	25.7
1937	11.8	20.4	29.4	35.6	27.0
1938	23.3	25.8	32.8	27.7	25.3
1939	20.8	13.8	30.8	36.6	31.9
1940	22.5	22.5	32.4	33.2	28.6
1941	22.6	30.3	32.2	35.2	28.9
1942	22.3	22.1	26.0	36.4	25.9
1943	24.3	28.5	31.4	36.7	26.8
1944	23.2	27.0	27.8	33.4	25.8
1945	21.8	27.8	30.3	32.5	15.9
1946			34.8	31.0	29.8
1947	20.6	27.4	31.6	28.4	23.6
1948	23.8	24.8	24.6	28.7	22.1 a
1949	18.0 a		32.4		24.5 a
1950				36.9	30.2
1951	22.2	24.9	31.3	29.8	20.4
1952	23.1	21.8	26.3	28.9 a	20.0 a
1953				36.7	23.0
1954	25.2	31.6	31.7	37.7	28.0
1955	20.9 a	20.9	30.0	35.5	27.8
1956	28.3	26.0	33.3 a		
1957		31.7 a	31.6	27.6	26.1
1958	23.5	28.7	28.3	35.3	31.7
1959	25.9	24.7	31.7 a	34.8	30.2
1960	19.0	19.7	32.0	36.2	24.0
1961	24.7	26.2	31.9	31.2	20.5
1962	21.7	28.3	27.5	36.9	30.3
1963	16.3	28.2	31.5	36.4	25.6
1964	20.1	19.5	26.3	32.3	22.7
1965	23.9	24.4	27.4	37.6	29.0
1966	20.0	20.9		37.2	23.4
1967	20.8	27.2	37.4	36.9 a	21.1
1968	23.7	30.5	33.2	30.5	20.3
1969	25.8	25.0	28.0	31.3	27.0
1970	21.3	30.8 a	29.1 a	33.5	24.5
1971	20.5	23.1	31.3	31.5	21.3
1972	21.0	26.3	38.7	25.0	
1973		25.0 a	29.6 a	32.7	22.7
1974	20.6 a	19.7	34.7	32.9	20.4 a
1975	16.6 a	21.4	29.1	30.6	22.1
1976	18.9	27.7	28.4	31.7	23.5
1977	16.9 b	24.1	28.2	33.6	26.4 a
1978	21.8	23.2	34.9	33.4	17.6
1979	15.8	21.1	29.7	24.8	25.5
1980	24.3	25.8	26.9	33.1	31.0
1981	27.9	27.8	30.3	35.4	25.9
1982	18.8	20.8	29.3	31.3	21.3
1983	23.0	26.4	31.0	29.7	21.3
1984	17.5	22.6	28.8	31.6	25.9
1985	21.0	20.3	30.8	30.1	22.1
1986	26.3	28.1	35.4	32.1	24.1
1987	20.6	25.7	27.5	31.3	22.5
1988	16.9	24.0	29.5	29.9 a	22.2
1989	19.0	25.1	36.2	31.7	22.7
1990	19.9	24.9	34.1	32.9	17.7
1991	18.6	26.7	29.0	26.8	22.2
1992	18.7	27.6	33.3	23.9	20.0
1993	23.8	26.0	32.6	27.8	21.9
1994	22.3	22.7	34.9	27.9	26.5
1995	22.1	30.6	33.9	36.1	26.9
1996	21.9	29.2	32.1	32.4	20.4
1997	21.1	25.2	35.4	31.2	20.5
1998	21.8	24.7	31.3	34.5	27.0
1999	27.2	30.4	37.9	38.7	25.6
2000	25.4	32.2	35.6	25.4	23.2
2001	22.2	25.7	32.6	38.1 a	21.3 a
2002	23.7	23.8	32.8	32.6	25.0
2003	31.7	28.8	33.9	33.0	28.2
2004	23.0	24.6		35.5	28.1
2005	32.0	28.6	31.9	34.2	25.7
Average					
1935-2005	22.02	25.45	31.34	32.64	24.51
1975-2005	21.95	25.66	31.90	31.64	23.68

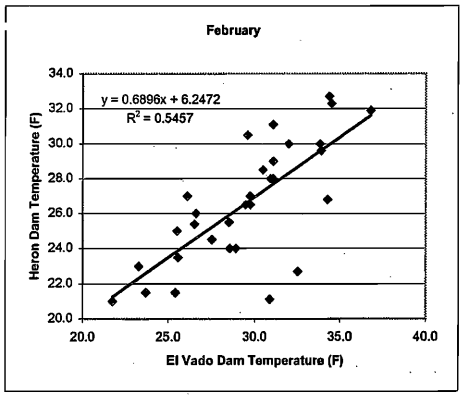
Sources -- NOAA (Weather Bureau) reports except as noted below:
a - NOAA reports plus missing days estimated from Tierra Amarilla
b - NOAA reports plus missing days estimated from El Vado Dam

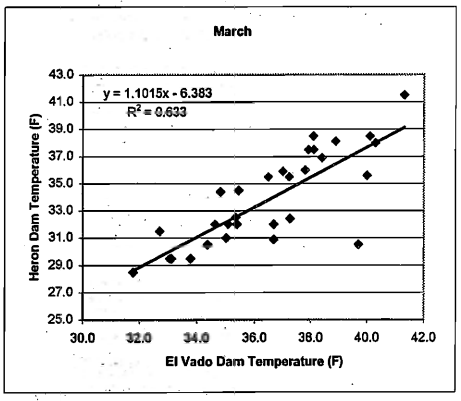
Table F-9. Heron Dam Temperature Monthly Correlations, 1975-2005
(Units: Degrees F)

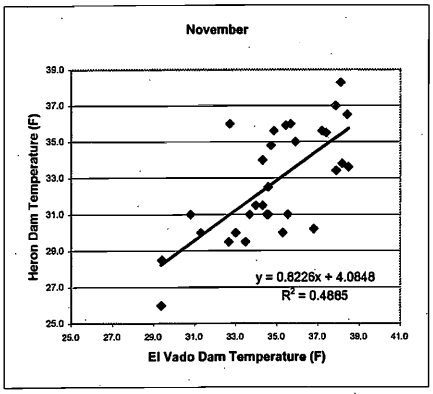
	January Temperature (F)			February Temperature (F)			March Temperature (F)			November Temperature (F)			December Temperature (F)		
Year	Heron Dam	El Vado Dam	Chama	Heron Dam	El Vado Dam	Chama	Heron Dam	El Vado Dam	Chama	Heron Dam	El Vado Dam	Chama	Heron Dam	El Vado Dam	Chama
1975	16.0	17.6	16.6	21.5	23.7	21.4	29.5	33.1	29.1	29.5	32.7	30.6	23.0	26.2	22.1
1976	18.5	20.3	18.9	30.0	33.8	27.7	32.0	35.4	28.4	30.0	33.0	31.7	20.5	22.4	23.5
1977	15.0	16.9	16.9	24.5	27.5	24.1	28.5	31.8	28.2	36.0	35.7	33.6	29.0	28.4	26.4
1978	25.0	26.0	21.8	27.0	26.1	23.2	38.5	38.1	34.9	36.5	38.4	33.4	19.5	20.5	17.6
1979	16.0	17.4	15.8	21.0	21.8	21.1	31.5	32.7	29.7	28.5	29.4	24.8	29.0	29.6	25.5
1980	27.0	29.2	24.3	30.0	32.0	25.8	32.0	34.6	26.9	35.0	35.9	33.1	34.0	34.1	31.0
1981	29.5	28.8	27.9	30.5	29.6	27.8	34.5	35.4	30.3	35.5	37.4	35.4	27.0	28.3	25.9
1982	20.5	20.9	18.8	23.0	23.3	20.8	32.0	35.1	29.3	31.5	34.0	31.3	22.0	25.8	21.3
1983	20.5	23.2	23.0	25.5	28.5	26.4	29.5	33.8	31.0	31.0	34.6	29.7	23.0	26.5	21.3
1984	17.0	18.8	17.5	23.5	25.6	22.6	31.0	35.0	28.8	31.0	34.5	31.6	26.5	29.6	25.9
1985	24.0	25.9	21.0	21.5	25.4	20.3	32.0	36.7	30.8	31.5	34.3	30.1	25.0	27.2	22.1
1986	29.0	29.5	26.3	29.0	31.1	28.1	37.5	38.1	35.4	32.5	34.6	32.1	26.0	27.9	24.1
1987	22.0	24.2	20.6	26.5	29.5	25.7	29.5	33.1	27.5	31.0	35.5	31.3	21.0	25.3	22.5
1988	15.0	18.0	16.9	24.0	28.9	24.0	32.0	36.7	29.5	34.0	34.3	29.9	26.0	25.5	22.2
1989	19.5	20.8	19.0	26.5	29.8	25.1	38.5	40.1	36.2	36.0	32.7	31.7	26.0	24.1	22.7
1990	22.0	22.0	19.9	27.0	29.7	24.9	37.5	37.9	34.1	37.0	37.9	32.9	20.5	20.7	17.7
1991	21.5	22.1	18.6	28.0	31.1	26.7	32.5	35.3	29.0	31.0	33.7	26.8	23.5	27.2	22.2
1992	18.5	21.3	18.7	28.0	30.9	27.6	36.0	37.8	33.3	30.0	31.3	23.9	21.0	21.9	20.0
1993	26.5	27.7	23.8	28.5	30.5	26.0	35.5	37.2	32.6	31.0	30.8	27.8	26.5	25.6	21.9
1994	24.6	24.5	22.3	25.0	25.5	22.7	38.1	38.9	34.9	29.5	33.5	27.9	27.3	31.5	26.5
1995	22.2	28.3	22.1	31.9	36.8	30.6	35.6	40.0	33.9	33.4	37.9	36.1	24.7	30.6	26.9
1996	18.1	25.9	21.9	26.8	34.3	29.2	30.9	36.7	32.1	30.2	36.8	32.4	17.8	27.5	20.4
1997	17.8	26.0	21.1	22.7	32.5	25.2	30.5	39.7	35.4	30.0	35.3	31.2	19.2	24.4	20.5
1998	21.9	29.1	21.8	21.1	30.9	24.7	32.4	37.3	31.3	33.8	38.2	34.5	25.9	29.8	27.0
1999	24.9	30.4	27.2	29.6	33.9	30.4	38.0	40.3	37.9	38.3	38.1	38.7	24.8	26.1	25.6
2000	26.4	28.3	25.4	32.7	34.4	32.2	35.9	37.0	35.6	26.0	29.4	25.4	25.4	28.9	23.2
2001	20.2	22.8	22.2	24.0	28.6	25.7	30.5	34.4	32.6	33.6	38.5	38.1	19.1	25.1	21.3
2002	23.5	25.0	23.7	25.4	26.5	23.8	34.4	34.8	32.8	35.6	34.9	32.6	24.7	25.0	25.0
2003	31.3	31.4	31.7	31.1	31.1	28.8	35.5	36.5	33.9	34.8	34.7	33.0	28.9	29.0	28.2
2004	25.2	26.2	23.0	26.0	26.6	24.6	41.5	41.3		35.6	37.2	35.5	28.2	28.4	28.1
2005	32.3	33.5	32.0	32.3	34.5	28.6	36.9	38.4	31.9	35.9	35.4	34.2	25.5	26.9	25.7

Table F-9(a). Monthly Correlations of Heron Dam Temperature to El Vado Dam Temperature









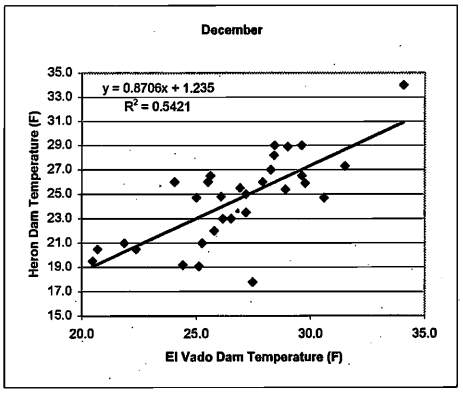
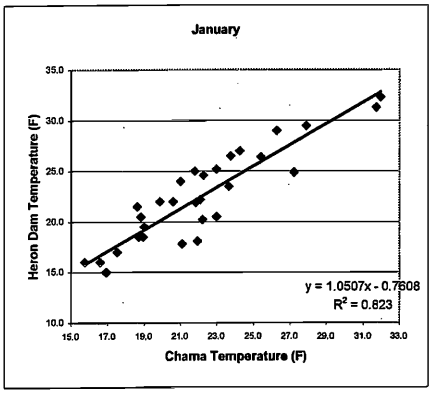
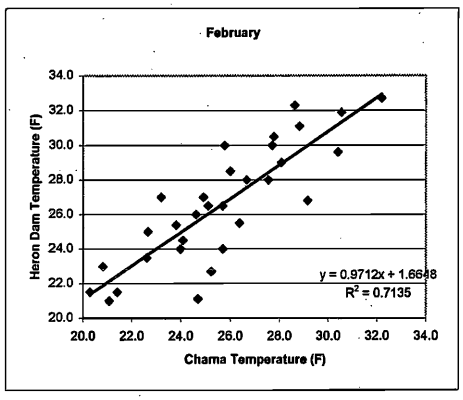
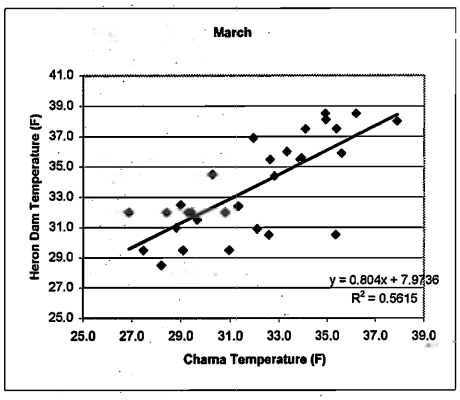
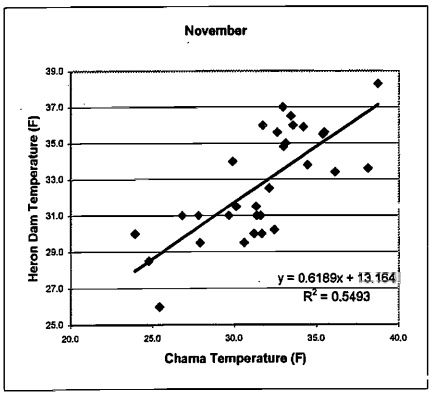


Table F-9(b). Monthly Correlations of Heron Dam Temperature to Chama Temperature









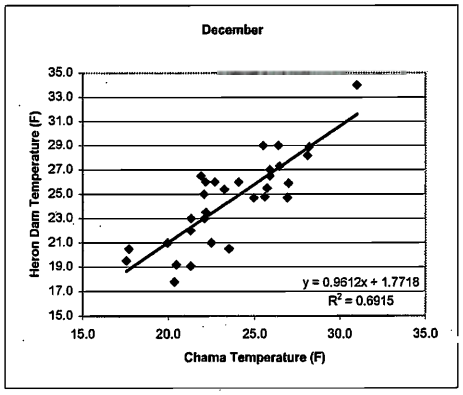


Table F-10. Heron Dam Monthly Average Temperature
(Units: Degrees F)

Year	Jan	Feb	Mar	Nov	Dec
1935	28.1 c	31.0 c	32.7 c	34.1 c	25.8 c
1936	22.4 c	25.1 c	34.4 c	35.9 c	26.5 c
1937	11.6 c	21.5 c	28.4 b	35.2 c	27.7 c
1938	23.7 c	26.7 c	30.4 b	30.3 c	26.1 c
1939	21.1 c	15.1 c	35.1 b	35.8 c	32.4 c
1940	22.9 c	23.5 c	37.9 b	33.7 c	29.3 c
1941	23.0 c	31.1 c	35.3 b	34.9 c	29.6 c
1942	22.7 c	23.1 c	28.9 b	35.7 c	26.7 c
1943	24.8 c	29.3 c	36.6 b	35.9 c	27.5 c
1944	23.6 c	27.9 c	29.9 b	33.8 c	26.6 c
1945	22.1 c	28.7 c	30.8 b	33.3 c	17.1 c
1946	16.3 b	23.3 b	33.4 b	32.3 c	30.4 c
1947	20.9 c	28.3 c	33.2 b	30.7 c	24.5 c
1948	24.2 c	25.8 c	26.3 b	30.9 c	23.0 c
1949	18.2 c	16.5 b	30.2 b	33.9 b	25.3 c
1950	21.4 b	28.7 b	32.6 b	36.0 c	30.8 c
1951	22.6 c	25.8 c	30.7 b	31.6 c	21.4 c
1952	23.5 c	22.8 c	29.1 c	31.1 c	21.0 c
1953	24.8 d	25.2 d	34.8 d	35.9 c	23.9 c
1954	25.7 c	32.3 c	33.5 c	36.5 c	28.7 c
1955	21.2 c	22.0 c	30.5 b	35.1 c	28.5 c
1956	28.9 c	26.9 c	33.0 b	28.5 b	21.1 b
1957	25.0 b	32.5 c	32.3 b	30.3 c	26.9 c
1958	23.9 c	29.5 c	26.9 b	35.0 c	32.2 c
1959	26.5 c	25.7 c	30.5 b	34.7 c	30.8 c
1960	19.2 c	20.8 c	32.5 b	35.5 c	24.9 c
1961	25.2 c	27.1 c	32.1 b	32.5 c	21.5 c
1962	22.0 c	29.1 c	25.3 b	36.0 c	30.9 c
1963	16.4 c	29.1 c	30.4 b	35.7 c	26.3 c
1964	20.3 c	20.6 c	26.0 b	33.2 c	23.6 c
1965	24.3 c	25.3 c	29.3 b	36.4 c	29.6 c
1966	20.3 c	22.0 c	33.3 b	36.2 c	24.3 c
1967	21.1 c	28.0 c	36.3 b	36.0 c	22.0 c
1968	24.1 c	31.3 c	33.2 b	32.0 c	21.3 c
1969	26.4 c	26.0 c	28.0 b	32.6 c	27.7 c
1970	21.6 c	31.6 c	29.0 b	33.9 c	25.3 c
1971	20.8 c	24.1 c	30.7 b	32.6 c	22.3 c
1972	21.3 c	27.2 c	37.9 b	28.6 c	21.3 b
1973	15.0 b	25.9 c	29.7 b	33.4 c	23.6 c
1974	20.9 c	20.8 c	35.0 b	33.5 c	21.4 c
1975	16.0 a	21.5 a	29.5 a	29.5 a	23.0 a
1976	18.5 a	30.0 a	32.0 a	30.0 a	20.5 a
1977	15.0 a	24.5 a	28.5 a	36.0 a	29.0 a
1978	25.0 a	27.0 a	38.5 a	36.5 a	19.5 a
1979	16.0 a	21.0 a	31.5 a	28.5 a	29.0 a
1980	27.0 a	30.0 a	32.0 a	35.0 a	34.0 a
1981	29.5 a	30.5 a	34.5 a	35.5 a	27.0 a
1982	20.5 a	23.0 a	32.0 a	31.5 a	22.0 a
1983	20.5 a	25.5 a	29.5 a	31.0 a	23.0 a
1984	17.0 a	23.5 a	31.0 a	31.0 a	26.5 a
1985	24.0 a	21.5 a	32.0 a	31.5 a	25.0 a
1986	29.0 a	29.0 a	37.5 a	32.5 a	26.0 a
1987	22.0 a	26.5 a	29.5 a	31.0 a	21.0 a
1988	15.0 a	24.0 a	32.0 a	34.0 a	26.0 a
1989	19.5 a	26.5 a	38.5 a	36.0 a	26.0 a
1990	22.0 a	27.0 a	37.5 a	37.0 a	20.5 a
1991	21.5 a	28.0 a	32.5 a	31.0 a	23.5 a
1992	18.5 a	28.0 a	36.0 a	30.0 a	21.0 a
1993	26.5 a	28.5 a	35.5 a	31.0 a	26.5 a
1994	24.6	25.0	38.1	29.5	27.3
1995	22.2	31.9	35.6	33.4	24.7
1996	18.1	26.8	30.9	30.2	17.8
1997	17.8	22.7	30.5	30.0	19.2
1998	21.9	21.1	32.4	33.8	25.9
1999	24.9	29.6	38.0	38.3	24.8
2000	26.4	32.7	35.9	26.0	25.4
2001	20.2	24.0	30.5	33.6	19.1
2002	23.5	25.4	34.4	35.6	24.7
2003	31.3	31.1	35.5	34.8	28.9
2004	25.2	26.0	41.5	35.6	28.2
2005	32.3	32.3	36.9	35.9	25.5
Average					
1935-2005	22.24	26.21	32.62	33.30	25.21
1975-2005	22.30	26.58	33.88	32.75	24.53

Sources – USBR SJCP accounting reports except as noted below:
a - USBR URGWOM data for Heron Dam;
b - Computed from El Vado Dam temp using monthly correlations;
c - Computed from Chama temperature using monthly correlations;
d - Assumed equivalent to Tierra Amarilla 6SSE temp from NOAA.

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
1971	Jan	6992.50	6992.15	47	—	—	20.8	0.0031	100	0.0000	0.0645	1.07	1.01	0.0844	-0.0844	-0.0199	-4	-1
	Feb	6997.50	6995.00	60	—	—	24.1	0.0037	100	0.0000	0.0892	0.85	0.81	0.0673	-0.0673	0.0219	-4	1
	Mar	7009.60	7003.55	110	—	—	30.7	0.0060	100	0.0000	0.1842	0.89	0.85	0.0705	-0.0705	0.1137	-8	13
	Apr	7039.00	7024.30	289	5.05	3.54	—	—	60	0.1178	0.2946	0.80	0.76	0.0633	0.0545	0.2313	16	67
	May	7059.10	7049.05	616	6.84	4.79	—	—	0	0.3990	0.3990	0.78	0.74	0.0618	0.3373	0.3373	208	208
	Jun	7074.50	7066.80	900	9.39	6.57	—	—	0	0.5478	0.5478	0.36	0.34	0.0285	0.5193	0.5193	467	467
	Jul	7073.40	7073.95	1035	8.98	6.29	—	—	0	0.5238	0.5238	2.03	1.87	0.1562	0.3676	0.3676	380	380
	Aug	7077.10	7075.25	1061	7.08	4.96	—	—	0	0.4130	0.4130	2.46	2.23	0.1856	0.2274	0.2274	241	241
	Sep	7074.70	7075.90	1074	6.56	4.59	—	—	0	0.3827	0.3827	2.66	2.39	0.1993	0.1834	0.1834	197	197
	Oct	7076.60	7075.65	1069	3.23	2.26	—	—	0	0.1884	0.1884	1.91	1.77	0.1474	0.0410	0.0410	44	44
	Nov	7078.70	7077.65	1109	—	—	32.6	0.0035	0	0.1141	0.1141	0.96	0.91	0.0760	0.0381	0.0381	42	42
	Dec	7079.30	7079.00	1136	—	—	22.3	0.0026	60	0.0232	0.0580	2.10	1.93	0.1610	-0.1378	-0.1030	-157	-117
	Annual									2.7098	3.2592			1.3013	1.4085	1.9579	1423	1543
1972	Jan	7079.40	7079.35	1143	—	—	21.3	0.0031	100	0.0000	0.0660	0.51	0.48	0.0404	-0.0404	0.0257	-46	29
	Feb	7080.00	7079.70	1150	—	—	27.2	0.0037	100	0.0000	0.1006	0.72	0.68	0.0570	-0.0570	0.0436	-66	50
	Mar	7083.20	7081.60	1198	—	—	37.9	0.0060	100	0.0000	0.2274	0.82	0.78	0.0649	-0.0649	0.1625	-78	195
	Apr	7089.60	7086.40	1326	5.39	3.77	—	—	57	0.1352	0.3144	0.20	0.19	0.0158	0.1194	0.2986	158	396
	May	7093.80	7091.70	1475	9.21	6.45	—	—	0	0.5373	0.5373	0.79	0.75	0.0625	0.4747	0.4747	700	700
	Jun	7094.90	7094.35	1558	8.80	6.16	—	—	0	0.5133	0.5133	1.33	1.25	0.1039	0.4094	0.4094	638	638
	Jul	7088.50	7091.70	1475	10.05	7.04	—	—	0	0.5863	0.5863	1.32	1.24	0.1032	0.4831	0.4831	713	713
	Aug	7084.90	7086.70	1334	7.84	5.49	—	—	0	0.4573	0.4573	1.63	1.52	0.1264	0.3309	0.3309	441	441
	Sep	7084.90	7084.90	1286	5.98	4.19	—	—	0	0.3488	0.3488	2.42	2.19	0.1829	0.1660	0.1660	213	213
	Oct	7096.30	7090.60	1440	3.03	2.12	—	—	0	0.1768	0.1768	4.55	3.57	0.2973	-0.1205	-0.1205	-174	-174
	Nov	7098.30	7097.30	1652	—	—	28.6	0.0035	0	0.1001	0.1001	1.74	1.62	0.1347	-0.0346	-0.0346	-57	-57
	Dec	7088.20	7093.25	1524	—	—	21.3	0.0026	49	0.0282	0.0554	1.92	1.78	0.1482	-0.1199	-0.0928	-183	-141
	Annual									2.8833	3.4837			1.3372	1.5461	2.1466	2261	3003
1973	Jan	7089.36	7088.78	1389	—	—	15.0	0.0031	100	0.0000	0.0465	1.17	1.10	0.0919	-0.0919	-0.0454	-128	-63
	Feb	7090.27	7089.82	1416	—	—	25.9	0.0037	100	0.0000	0.0958	1.23	1.16	0.0964	-0.0964	-0.0006	-137	-1
	Mar	7091.37	7090.82	1447	—	—	29.7	0.0060	100	0.0000	0.1782	2.87	2.56	0.2136	-0.2136	-0.0354	-309	-51
	Apr	7098.55	7094.96	1578	3.94	2.76	—	—	57	0.0988	0.2298	0.84	0.80	0.0665	0.0323	0.1633	51	258
	May	7120.69	7109.62	2188	6.48	4.54	—	—	0	0.3780	0.3780	1.82	1.69	0.1407	0.2373	0.2373	519	519
	Jun	7137.49	7129.09	3141	7.97	5.58	—	—	0	0.4649	0.4649	0.64	0.61	0.0507	0.4143	0.4143	1301	1301
	Jul	7144.53	7141.01	3752	7.96	5.57	—	—	0	0.4643	0.4643	2.04	1.88	0.1569	0.3074	0.3074	1153	1153
	Aug	7144.60	7144.57	3922	7.52	5.26	—	—	0	0.4387	0.4387	1.59	1.48	0.1234	0.3153	0.3153	1236	1236
	Sep	7144.81	7144.71	3928	6.48	4.54	—	—	0	0.3780	0.3780	1.55	1.45	0.1204	0.2576	0.2576	1012	1012
	Oct	7144.75	7144.78	3932	3.95	2.77	—	—	0	0.2304	0.2304	0.63	0.60	0.0499	0.1805	0.1805	710	710
	Nov	7143.92	7144.34	3911	—	—	33.4	0.0035	0	0.1169	0.1169	0.65	0.62	0.0515	0.0654	0.0654	256	256
	Dec	7133.05	7138.49	3624	—	—	23.6	0.0026	6	0.0577	0.0614	1.49	1.39	0.1159	-0.0582	-0.0546	-211	-198
	Annual									2.6277	3.0830			1.2778	1.3500	1.8052	5455	6133
1974	Jan	7133.24	7133.15	3348	—	—	20.9	0.0031	97	0.0019	0.0648	1.99	1.84	0.1534	-0.1515	-0.0886	-507	-297
	Feb	7133.24	7133.24	3353	—	—	20.8	0.0037	100	0.0000	0.0770	0.58	0.55	0.0459	-0.0459	0.0310	-154	104
	Mar	7133.31	7133.28	3354	—	—	35.0	0.0060	92	0.0168	0.2100	1.75	1.63	0.1354	-0.1186	0.0746	-398	250
	Apr	7135.34	7134.33	3409	5.15	3.61	—	—	0	0.3004	0.3004	0.55	0.52	0.0435	0.2569	0.2569	876	876
	May	7141.02	7138.18	3609	8.73	6.11	—	—	0	0.5093	0.5093	0.30	0.29	0.0238	0.4855	0.4855	1752	1752
	Jun	7142.79	7141.91	3794	8.75	6.13	—	—	0	0.5104	0.5104	0.75	0.71	0.0594	0.4510	0.4510	1711	1711
	Jul	7142.78	7142.79	3836	8.35	5.85	—	—	0	0.4871	0.4871	1.55	1.45	0.1204	0.3667	0.3667	1407	1407
	Aug	7143.07	7142.93	3843	7.29	5.10	—	—	0	0.4253	0.4253	2.34	2.13	0.1774	0.2479	0.2479	952	952
	Sep	7142.70	7142.89	3841	6.58	4.61	—	—	0	0.3838	0.3838	0.86	0.82	0.0681	0.3158	0.3158	1213	1213
	Oct	7142.61	7142.66	3830	3.29	2.30	—	—	0	0.1919	0.1919	2.57	2.32	0.1931	-0.0012	-0.0012	-5	-5
	Nov	7142.41	7142.51	3824	—	—	33.5	0.0035	0	0.1173	0.1173	1.12	1.06	0.0882	0.0291	0.0291	111	111
	Dec	7131.19	7136.80	3537	—	—	21.4	0.0026	5	0.0529	0.0556	0.99	0.94	0.0784	-0.0255	-0.0227	-90	-80
	Annual									2.9970	3.3328			1.1870	1.8100	2.1458	6868	7995
1975	Jan	7131.30	7131.25	3249	—	—	16.0	0.0031	95	0.0025	0.0496	1.07	1.01	0.0844	-0.0819	-0.0348	-266	-113
	Feb	7131.47	7131.39	3256	—	—	21.5	0.0037	95	0.0040	0.0796	2.24	2.05	0.1706	-0.1666	-0.0910	-542	-296
	Mar	7131.66	7131.57	3266	—	—	29.5	0.0060	90	0.0177	0.1770	2.51	2.27	0.1890	-0.1713	-0.0120	-560	-39
	Apr	7123.36	7127.51	3065	4.49	3.14	—	—	67	0.0864	0.2619	0.73	0.69	0.0578	0.0286	0.2041	88	626
	May	7136.24	7129.80	3175	6.83	4.78	—	—	0	0.3984	0.3984	0.33	0.31	0.0261	0.3723	0.3723	1182	1182
	Jun	7149.68	7142.96	3845	8.68	6.08	—	—	0	0.5063	0.5063	0.31	0.29	0.0245	0.4818	0.4818	1852	1852
	Jul	7156.85	7153.27	4337	6.66	4.66	—	—	0	0.3885	0.3885	1.43	1.34	0.1114	0.2771	0.2771	1202	1202
	Aug	7157.44	7157.15	4523	7.37	5.16	—	—	0	0.4299	0.4299	1.48	1.38	0.1152	0.3148	0.3148	1424	1424
	Sep	7157.35	7157.40	4535	4.92	3.44	—	—	0	0.2870	0.2870	1.23	1.16	0.0964	0.1906	0.1906	864	864
	Oct	7156.88	7157.12	4521	4.80	3.36	—	—	0	0.2800	0.2800	0.27	0.26	0.0214	0.2586	0.2586	1169	1169
	Nov	7156.72	7156.80	4507	—	—	29.5	0.0035	0	0.1033	0.1033	1.69	1.57	0.1309	-0.0277	-0.0277	-125	-125
	Dec	7140.00	7148.36	4103	—	—	23.0	0.0026	0	0.0598	0.0598	0.22	0.21	0.0174	0.0424	0.0424	174	174
	Annual									2.5638	3.0213			1.0452	1.5186	1.9761	6462	7920
1976	Jan	7135.43	7137.72	3584	—	—	18.5	0.0031	92	0.0046	0.0574	0.11	0.10	0.0087	-0.0041	0.0486	-15	174
	Feb	7135.60	7135.52	3470	—	—	30.0	0.0037	93	0.0078	0.1110	0.36	0.34	0.0285	-0.0207	0.0825	-72	286
	Mar	7135.22	7135.41	3465	—	—	32.0	0.0060	59	0.0787	0.1920	0.23	0.22	0.0182	0.0605	0.1738	210	602
	Apr	7130.39	7132.81	3330	5.33	3.73	—	—	0	0.3109	0.3109	0.42	0.40	0.0333	0.2777	0.2777	925	925
	May	7139.91	7135.15	3452	6.54	4.58	—	—	0	0.3815	0.3815	1.00	0.95	0.0792	0.3023	0.3023	1044	1044
	Jun	7146.42	7143.17	3855	10.77	7.54	—	—	0	0.6283	0.6283	0.25	0.24	0.0198	0.6085	0.6085	2346	2346
	Jul	7146.79	7146.61	4019	10.19	7.13	—	—	0	0.5944	0.5944	2.04	1.88	0.1569	0.4375	0.4375	1758	1758
	Aug	7146.48	7146.64	4021	7.79	5.45	—	—	0	0.4544	0.4544	1.85	1.72	0.1429	0.3115	0.3115	1253	1253
	Sep	7146.57	7146.53	4015	5.08	3.56	—	—	0	0.2963	0.2963	2.58	2.33	0.1938	0.1025	0.1025	412	412
	Oct	7146.29	7146.43	4011	4.08	2.86	—	—	0	0.2380	0.2380	0.41	0.39	0.0325	0.2055	0.2055	824	824
	Nov	7145.97	7146.13	3997	—	—	30.0	0.0035	0	0.1050	0.1050	0.78	0.74	0.0618	0.0433	0.0433	173	173
	Dec	7134.23	7140.10	3708	—	—	20.5	0.0026	0	0.0533	0.0533	0.00	0.00	0.0000	0.0533	0.0533	198	198
	Annual									3.1532	3.4225			0.7755	2.3778	2.6470	9054	9994

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
1977	Jan	7134.32	7134.28	3406	—	—	15.0	0.0031	87	0.0060	0.0465	0.78	0.74	0.0618	-0.0557	-0.0153	-190	-52
	Feb	7134.34	7134.33	3409	—	—	24.5	0.0037	100	0.0000	0.0907	0.20	0.19	0.0158	-0.0158	0.0748	-54	255
	Mar	7134.08	7134.21	3403	—	—	28.5	0.0060	94	0.0103	0.1710	0.20	0.19	0.0158	-0.0056	0.1552	-19	528
	Apr	7134.94	7134.51	3419	4.31	3.02	—	—	0	0.2514	0.2514	0.87	0.83	0.0689	0.1825	0.1825	624	624
	May	7135.52	7135.23	3456	7.34	5.14	—	—	0	0.4282	0.4282	0.94	0.89	0.0744	0.3538	0.3538	1223	1223
	Jun	7132.57	7134.05	3394	8.23	5.76	—	—	0	0.4801	0.4801	0.40	0.38	0.0317	0.4484	0.4484	1522	1522
	Jul	7129.13	7130.85	3229	7.89	5.52	—	—	0	0.4603	0.4603	3.20	2.80	0.2333	0.2269	0.2269	733	733
	Aug	7128.39	7128.76	3125	9.06	6.34	—	—	0	0.5285	0.5285	2.11	1.94	0.1617	0.3668	0.3668	1146	1146
	Sep	7125.98	7127.19	3050	7.41	5.19	—	—	0	0.4323	0.4323	1.87	1.73	0.1444	0.2878	0.2878	878	878
	Oct	7124.00	7124.99	2945	4.84	3.39	—	—	0	0.2823	0.2823	0.64	0.61	0.0507	0.2317	0.2317	682	682
	Nov	7123.77	7123.89	2891	—	—	36.0	0.0035	0	0.1260	0.1260	1.16	1.09	0.0912	0.0348	0.0348	101	101
	Dec	7118.95	7121.36	2770	—	—	29.0	0.0026	2	0.0739	0.0754	0.16	0.15	0.0127	0.0612	0.0627	170	174
	Annual									3.0792	3.3726			0.9623	2.1169	2.4102	6815	7813
1978	Jan	7119.12	7119.04	2657	—	—	25.0	0.0031	46	0.0419	0.0775	2.09	1.92	0.1603	-0.1185	-0.0828	-315	-220
	Feb	7119.27	7119.20	2665	—	—	27.0	0.0037	100	0.0000	0.0999	1.99	1.84	0.1534	-0.1534	-0.0535	-409	-143
	Mar	7119.70	7119.49	2679	—	—	38.5	0.0060	94	0.0139	0.2310	2.35	2.14	0.1781	-0.1642	0.0529	-440	142
	Apr	7125.10	7122.40	2820	6.17	4.32	—	—	0	0.3599	0.3599	0.55	0.52	0.0435	0.3164	0.3164	892	892
	May	7134.29	7129.70	3170	6.51	4.56	—	—	0	0.3798	0.3798	2.87	2.56	0.2136	0.1661	0.1661	527	527
	Jun	7141.55	7137.92	3595	9.63	6.74	—	—	0	0.5618	0.5618	0.78	0.74	0.0618	0.5000	0.5000	1797	1797
	Jul	7142.90	7142.23	3810	10.12	7.08	—	—	0	0.5903	0.5903	0.70	0.67	0.0554	0.5349	0.5349	2038	2038
	Aug	7142.38	7142.64	3829	8.70	6.09	—	—	0	0.5075	0.5075	0.91	0.86	0.0720	0.4355	0.4355	1667	1667
	Sep	7141.26	7141.82	3791	6.45	4.52	—	—	0	0.3763	0.3763	1.04	0.99	0.0822	0.2941	0.2941	1115	1115
	Oct	7141.00	7141.13	3758	4.49	3.14	—	—	0	0.2619	0.2619	1.57	1.46	0.1219	0.1400	0.1400	526	526
	Nov	7140.89	7140.95	3749	—	—	36.5	0.0035	0	0.1278	0.1278	2.19	2.01	0.1672	-0.0394	-0.0394	-148	-148
	Dec	7130.64	7135.77	3483	—	—	19.5	0.0026	8	0.0466	0.0507	4.94	3.74	0.3119	-0.2653	-0.2612	-924	-910
	Annual									3.2675	3.6243			1.6213	1.6462	2.0029	6327	7284
1979	Jan	7130.97	7130.81	3226	—	—	16.0	0.0031	99	0.0005	0.0496	2.26	2.06	0.1719	-0.1714	-0.1223	-553	-395
	Feb	7131.30	7131.14	3244	—	—	21.0	0.0037	100	0.0000	0.0777	1.16	1.09	0.0912	-0.0912	-0.0135	-296	-44
	Mar	7130.97	7131.14	3244	—	—	31.5	0.0060	100	0.0000	0.1890	1.00	0.95	0.0792	-0.0792	0.1098	-257	356
	Apr	7135.79	7133.38	3360	4.59	3.21	—	—	51	0.1312	0.2678	0.62	0.59	0.0491	0.0821	0.2187	276	735
	May	7148.34	7142.07	3802	5.92	4.14	—	—	0	0.3453	0.3453	3.31	2.87	0.2393	0.1060	0.1060	403	403
	Jun	7161.19	7154.77	4409	8.51	5.96	—	—	0	0.4964	0.4964	1.08	1.02	0.0852	0.4113	0.4113	1813	1813
	Jul	7167.17	7164.18	4847	8.79	6.15	—	—	0	0.5128	0.5128	0.15	0.14	0.0119	0.5009	0.5009	2428	2428
	Aug	7167.80	7167.49	4995	7.77	5.44	—	—	0	0.4533	0.4533	1.84	1.71	0.1422	0.3111	0.3111	1554	1554
	Sep	7167.23	7167.52	4996	6.50	4.55	—	—	0	0.3792	0.3792	0.77	0.73	0.0610	0.3182	0.3182	1590	1590
	Oct	7166.64	7166.94	4970	4.89	3.42	—	—	0	0.2853	0.2853	0.77	0.73	0.0610	0.2243	0.2243	1115	1115
	Nov	7166.28	7166.46	4949	—	—	28.5	0.0035	0	0.0998	0.0998	1.50	1.40	0.1167	-0.0169	-0.0169	-84	-84
	Dec	7155.56	7160.92	4700	—	—	29.0	0.0026	0	0.0754	0.0754	1.14	1.08	0.0897	-0.0143	-0.0143	-67	-67
	Annual									2.7790	3.2314			1.1981	1.5809	2.0333	7922	9404
1980	Jan	7155.83	7155.70	4454	—	—	27.0	0.0031	0	0.0837	0.0837	3.38	2.92	0.2431	-0.1594	-0.1594	-710	-710
	Feb	7155.67	7155.75	4456	—	—	30.0	0.0037	0	0.1110	0.1110	2.46	2.23	0.1856	-0.0746	-0.0746	-332	-332
	Mar	7154.76	7155.22	4431	—	—	32.0	0.0060	0	0.1920	0.1920	2.10	1.93	0.1610	0.0310	0.0310	137	137
	Apr	7158.48	7156.62	4498	4.25	2.98	—	—	0	0.2479	0.2479	0.74	0.70	0.0586	0.1893	0.1893	852	852
	May	7167.53	7163.01	4794	6.87	4.81	—	—	0	0.4008	0.4008	1.08	1.02	0.0852	0.3156	0.3156	1513	1513
	Jun	7178.17	7172.85	5250	9.77	6.84	—	—	0	0.5699	0.5699	0.00	0.00	0.0000	0.5699	0.5699	2992	2992
	Jul	7178.14	7178.16	5512	9.66	6.76	—	—	0	0.5635	0.5635	1.41	1.32	0.1099	0.4536	0.4536	2500	2500
	Aug	7176.58	7177.36	5473	7.98	5.59	—	—	0	0.4655	0.4655	1.97	1.82	0.1519	0.3136	0.3136	1716	1716
	Sep	7176.37	7176.48	5429	6.24	4.37	—	—	0	0.3640	0.3640	1.86	1.72	0.1437	0.2203	0.2203	1196	1196
	Oct	7175.85	7176.11	5411	3.67	2.57	—	—	0	0.2141	0.2141	1.11	1.05	0.0874	0.1267	0.1267	685	685
	Nov	7175.65	7175.75	5393	—	—	35.0	0.0035	0	0.1225	0.1225	0.73	0.69	0.0578	0.0647	0.0647	349	349
	Dec	7170.98	7173.32	5272	—	—	34.0	0.0026	0	0.0884	0.0884	0.27	0.26	0.0214	0.0670	0.0670	353	353
	Annual									3.4233	3.4233			1.3055	2.1178	2.1178	11252	11252
1981	Jan	7169.81	7170.40	5128	—	—	29.5	0.0031	0	0.0915	0.0915	0.37	0.35	0.0293	0.0622	0.0622	319	319
	Feb	7169.67	7169.74	5097	—	—	30.5	0.0037	0	0.1129	0.1129	0.22	0.21	0.0174	0.0954	0.0954	486	486
	Mar	7169.49	7169.58	5090	—	—	34.5	0.0060	0	0.2070	0.2070	1.60	1.49	0.1242	0.0828	0.0828	422	422
	Apr	7171.24	7170.37	5126	5.70	3.99	—	—	0	0.3325	0.3325	0.89	0.85	0.0705	0.2620	0.2620	1343	1343
	May	7174.01	7172.63	5238	6.58	4.61	—	—	0	0.3838	0.3838	1.61	1.50	0.1249	0.2589	0.2589	1356	1356
	Jun	7177.00	7175.51	5381	10.39	7.27	—	—	0	0.6061	0.6061	1.49	1.39	0.1159	0.4902	0.4902	2638	2638
	Jul	7174.93	7175.97	5404	8.53	5.97	—	—	0	0.4976	0.4976	1.91	1.77	0.1474	0.3502	0.3502	1892	1892
	Aug	7172.78	7173.86	5299	8.55	5.99	—	—	0	0.4988	0.4988	3.87	3.24	0.2696	0.2291	0.2291	1214	1214
	Sep	7172.30	7172.54	5234	5.28	3.70	—	—	0	0.3080	0.3080	1.13	1.07	0.0889	0.2191	0.2191	1147	1147
	Oct	7171.87	7172.09	5211	3.34	2.34	—	—	0	0.1948	0.1948	1.83	1.70	0.1414	0.0534	0.0534	278	278
	Nov	7171.45	7171.66	5191	—	—	35.5	0.0035	0	0.1243	0.1243	0.26	0.25	0.0206	0.1037	0.1037	538	538
	Dec	7166.34	7168.90	5059	—	—	27.0	0.0026	0	0.0702	0.0702	0.15	0.14	0.0119	0.0583	0.0583	295	295
	Annual									3.4273	3.4273			1.1620	2.2653	2.2653	11928	11928
1982	Jan	7166.24	7166.29	4942	—	—	20.5	0.0031	6	0.0597	0.0636	2.14	1.96	0.1637	-0.1040	-0.1002	-514	-495
	Feb	7166.48	7166.36	4945	—	—	23.0	0.0037	98	0.0017	0.0851	2.38	2.16	0.1801	-0.1784	-0.0950	-882	-470
	Mar	7166.57	7166.53	4952	—	—	32.0	0.0060	93	0.0134	0.1920	1.87	1.73	0.1444	-0.1310	0.0476	-649	236
	Apr	7169.47	7168.02	5019	5.67	3.97	—	—	0	0.3308	0.3308	0.05	0.05	0.0040	0.3268	0.3268	1640	1640
	May	7177.64	7173.56	5284	6.55	4.59	—	—	0	0.3821	0.3821	2.11	1.94	0.1617	0.2204	0.2204	1165	1165
	Jun	7185.99	7181.82	5693	8.17	5.72	—	—	0	0.4766	0.4766	0.00	0.00	0.0000	0.4766	0.4766	2713	2713
	Jul	7185.99	7185.99	5900	8.44	5.91	—	—	0	0.4923	0.4923	4.07	3.35	0.2793	0.2130	0.2130	1257	1257
	Aug	7186.07	7186.03	5902	6.01	4.21	—	—	0	0.3506	0.3506	6.76	4.06	0.3382	0.0124	0.0124	73	73
	Sep	7185.90	7185.99	5900	3.72	2.60	—	—	0	0.2170	0.2170	2.42	2.19	0.1829	0.0341	0.0341	201	201
	Oct	7186.00	7185.95	5898	3.26	2.28	—	—	0	0.1902	0.1902	1.14	1.08	0.0897	0.1005	0.1005	593	593
	Nov	7185.80	7185.90	5896	—	—	31.5	0.0035	0	0.1103	0.1103	1.75	1.63	0.1354	-0.0252	-0.0252	-148	-148
	Dec	7171.62	7178.71	5540	—	—	22.0	0.0026	1	0.0566	0.0572	1.52	1.42	0.1182	-0.0615	-0.0610	-341	-338
	Annual									2.6813	2.9476			1.7975	0.8838	1.1501	5108	6427

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
1983	Jan	7171.63	7171.63	5189	—	—	20.5	0.0031	12	0.0559	0.0636	1.06	1.00	0.0837	-0.0277	-0.0201	-144	-104
	Feb	7171.74	7171.69	5192	—	—	25.5	0.0037	22	0.0736	0.0944	1.61	1.50	0.1249	-0.0513	-0.0306	-266	-159
	Mar	7171.60	7171.67	5191	—	—	29.5	0.0060	13	0.1540	0.1770	2.41	2.19	0.1822	-0.0282	-0.0052	-146	-27
	Apr	7173.11	7172.36	5225	4.37	3.06	—	—	0	0.2549	0.2549	0.81	0.77	0.0641	0.1908	0.1908	997	997
	May	7179.24	7176.18	5414	6.84	4.79	—	—	0	0.3990	0.3990	0.89	0.85	0.0705	0.3285	0.3285	1779	1779
	Jun	7185.94	7182.59	5732	6.94	4.86	—	—	0	0.4048	0.4048	1.84	1.71	0.1422	0.2627	0.2627	1506	1506
	Jul	7185.95	7185.95	5898	7.38	5.17	—	—	0	0.4305	0.4305	0.56	0.53	0.0443	0.3862	0.3862	2278	2278
	Aug	7186.00	7185.98	5899	6.26	4.38	—	—	0	0.3652	0.3652	4.33	3.47	0.2890	0.0761	0.0761	449	449
	Sep	7185.68	7185.84	5893	5.08	3.56	—	—	0	0.2963	0.2963	1.73	1.61	0.1339	0.1624	0.1624	957	957
	Oct	7185.26	7185.47	5875	2.55	1.79	—	—	0	0.1488	0.1488	1.39	1.30	0.1084	0.0403	0.0403	237	237
	Nov	7184.10	7184.68	5835	—	—	31.0	0.0035	0	0.1085	0.1085	3.35	2.90	0.2415	-0.1330	-0.1330	-776	-776
	Dec	7180.32	7182.21	5713	—	—	23.0	0.0026	0	0.0598	0.0598	2.66	2.39	0.1993	-0.1395	-0.1395	-797	-797
	Annual									2.7513	2.8027			1.6840	1.0674	1.1188	6073	6339
1984	Jan	7177.69	7179.01	5554	—	—	17.0	0.0031	22	0.0411	0.0527	0.72	0.68	0.0570	-0.0159	-0.0043	-88	-24
	Feb	7174.18	7175.94	5402	—	—	23.5	0.0037	76	0.0209	0.0870	0.28	0.27	0.0222	-0.0013	0.0648	-7	350
	Mar	7170.77	7172.48	5231	—	—	31.0	0.0060	51	0.0911	0.1860	1.57	1.46	0.1219	-0.0308	0.0641	-161	335
	Apr	7172.90	7171.84	5199	4.22	2.95	—	—	0	0.2462	0.2462	0.96	0.91	0.0760	0.1702	0.1702	885	885
	May	7181.34	7177.12	5461	8.17	5.72	—	—	0	0.4766	0.4766	0.29	0.28	0.0230	0.4536	0.4536	2477	2477
	Jun	7185.98	7183.66	5785	7.04	4.93	—	—	0	0.4107	0.4107	1.07	1.01	0.0844	0.3263	0.3263	1887	1887
	Jul	7185.99	7185.99	5900	7.83	5.48	—	—	0	0.4568	0.4568	1.38	1.29	0.1077	0.3491	0.3491	2060	2060
	Aug	7186.01	7186.00	5901	6.63	4.64	—	—	0	0.3868	0.3868	1.52	1.42	0.1182	0.2686	0.2686	1585	1585
	Sep	7183.40	7184.71	5836	5.90	4.13	—	—	0	0.3442	0.3442	1.91	1.77	0.1474	0.1968	0.1968	1148	1148
	Oct	7183.47	7183.44	5774	1.92	1.34	—	—	0	0.1120	0.1120	4.93	3.74	0.3115	-0.1995	-0.1995	-1152	-1152
	Nov	7181.58	7182.53	5728	—	—	31.0	0.0035	0	0.1085	0.1085	0.44	0.42	0.0348	0.0737	0.0737	422	422
	Dec	7179.36	7180.47	5626	—	—	26.5	0.0026	0	0.0689	0.0689	1.22	1.15	0.0957	-0.0268	-0.0268	-151	-151
	Annual									2.7636	2.9361			1.1998	1.5638	1.7364	8905	9823
1985	Jan	7176.57	7177.97	5503	—	—	24.0	0.0031	0	0.0744	0.0744	1.08	1.02	0.0852	-0.0108	-0.0108	-59	-59
	Feb	7174.07	7175.32	5372	—	—	21.5	0.0037	87	0.0103	0.0796	1.14	1.08	0.0897	-0.0793	-0.0101	-426	-54
	Mar	7171.03	7172.55	5234	—	—	32.0	0.0060	77	0.0442	0.1920	2.83	2.53	0.2109	-0.1667	-0.0189	-873	-99
	Apr	7178.02	7174.53	5332	3.99	2.79	—	—	0	0.2328	0.2328	2.92	2.60	0.2170	0.0157	0.0157	84	84
	May	7185.29	7181.66	5685	5.32	3.72	—	—	0	0.3103	0.3103	0.72	0.68	0.0570	0.2533	0.2533	1440	1440
	Jun	7185.96	7185.63	5882	7.35	5.15	—	—	0	0.4288	0.4288	0.60	0.57	0.0475	0.3813	0.3813	2243	2243
	Jul	7186.10	7186.03	5902	7.27	5.09	—	—	0	0.4241	0.4241	2.22	2.03	0.1692	0.2549	0.2549	1504	1504
	Aug	7185.69	7185.90	5895	6.70	4.69	—	—	0	0.3908	0.3908	1.31	1.23	0.1024	0.2884	0.2884	1700	1700
	Sep	7185.46	7185.58	5880	4.39	3.07	—	—	0	0.2561	0.2561	2.61	2.35	0.1959	0.0602	0.0602	354	354
	Oct	7185.41	7185.44	5873	2.83	1.98	—	—	0	0.1651	0.1651	2.47	2.24	0.1863	-0.0212	-0.0212	-125	-125
	Nov	7185.23	7185.32	5867	—	—	31.5	0.0035	0	0.1103	0.1103	2.22	2.03	0.1692	-0.0590	-0.0590	-346	-346
	Dec	7185.00	7185.12	5857	—	—	25.0	0.0026	0	0.0650	0.0650	0.58	0.55	0.0459	0.0191	0.0191	112	112
	Annual									2.5121	2.7291			1.5761	0.9360	1.1530	5609	6754
1986	Jan	7184.32	7184.66	5834	—	—	29.0	0.0031	0	0.0899	0.0899	0.32	0.30	0.0253	0.0646	0.0646	377	377
	Feb	7180.89	7182.61	5732	—	—	29.0	0.0037	0	0.1073	0.1073	1.96	1.81	0.1512	-0.0439	-0.0439	-251	-251
	Mar	7177.51	7179.20	5564	—	—	37.5	0.0060	0	0.2250	0.2250	1.08	1.02	0.0852	0.1398	0.1398	778	778
	Apr	7174.49	7176.00	5406	3.89	2.72	—	—	0	0.2269	0.2269	2.86	2.56	0.2129	0.0140	0.0140	76	76
	May	7180.39	7177.44	5477	6.27	4.39	—	—	0	0.3658	0.3658	1.47	1.37	0.1144	0.2513	0.2513	1377	1377
	Jun	7185.98	7183.19	5761	6.01	4.21	—	—	0	0.3506	0.3506	1.80	1.67	0.1392	0.2114	0.2114	1218	1218
	Jul	7185.87	7185.93	5897	6.93	4.85	—	—	0	0.4043	0.4043	3.05	2.70	0.2252	0.1790	0.1790	1056	1056
	Aug	7186.07	7185.97	5899	6.52	4.56	—	—	0	0.3803	0.3803	3.10	2.74	0.2279	0.1524	0.1524	899	899
	Sep	7185.91	7185.99	5900	3.97	2.78	—	—	0	0.2316	0.2316	3.75	3.16	0.2631	-0.0315	-0.0315	-186	-186
	Oct	7185.79	7185.85	5893	2.76	1.93	—	—	0	0.1610	0.1610	2.77	2.48	0.2068	-0.0458	-0.0458	-270	-270
	Nov	7185.84	7185.82	5891	—	—	32.5	0.0035	0	0.1138	0.1138	3.07	2.72	0.2263	-0.1125	-0.1125	-663	-663
	Dec	7183.61	7184.73	5837	—	—	26.0	0.0026	0	0.0676	0.0676	0.90	0.86	0.0713	-0.0037	-0.0037	-21	-21
	Annual									2.7240	2.7240			1.9488	0.7752	0.7752	4388	4388
1987	Jan	7180.31	7181.96	5701	—	—	22.0	0.0031	0	0.0682	0.0682	0.86	0.82	0.0681	0.0001	0.0001	1	1
	Feb	7178.14	7179.23	5565	—	—	26.5	0.0037	0	0.0981	0.0981	1.60	1.49	0.1242	-0.0261	-0.0261	-145	-145
	Mar	7176.38	7177.26	5468	—	—	29.5	0.0060	0	0.1770	0.1770	1.43	1.34	0.1114	0.0656	0.0656	359	359
	Apr	7174.65	7175.52	5381	4.52	3.16	—	—	0	0.2637	0.2637	1.07	1.01	0.0844	0.1793	0.1793	965	965
	May	7178.81	7176.73	5442	4.75	3.33	—	—	0	0.2771	0.2771	1.93	1.79	0.1489	0.1282	0.1282	697	697
	Jun	7185.85	7182.33	5719	7.04	4.93	—	—	0	0.4107	0.4107	1.22	1.15	0.0957	0.3150	0.3150	1801	1801
	Jul	7185.63	7185.74	5888	8.14	5.70	—	—	0	0.4748	0.4748	1.02	0.97	0.0807	0.3942	0.3942	2321	2321
	Aug	7185.43	7185.53	5878	5.95	4.17	—	—	0	0.3471	0.3471	1.94	1.80	0.1497	0.1974	0.1974	1160	1160
	Sep	7185.07	7185.25	5864	5.34	3.74	—	—	0	0.3115	0.3115	0.24	0.23	0.0190	0.2925	0.2925	1715	1715
	Oct	7184.77	7184.92	5847	3.82	2.67	—	—	0	0.2228	0.2228	0.97	0.92	0.0768	0.1460	0.1460	854	854
	Nov	7184.75	7184.76	5839	—	—	31.0	0.0035	0	0.1085	0.1085	2.23	2.04	0.1699	-0.0614	-0.0614	-358	-358
	Dec	7184.68	7184.72	5837	—	—	21.0	0.0026	0	0.0546	0.0546	1.51	1.41	0.1174	-0.0628	-0.0628	-367	-367
	Annual									2.8140	2.8140			1.2461	1.5679	1.5679	9003	9003
1988	Jan	7184.76	7184.72	5837	—	—	15.0	0.0031	0	0.0465	0.0465	1.67	1.55	0.1294	-0.0829	-0.0829	-484	-484
	Feb	7184.33	7184.55	5829	—	—	24.0	0.0037	67	0.0293	0.0888	1.53	1.43	0.1189	-0.0896	-0.0301	-522	-176
	Mar	7183.40	7183.87	5795	—	—	32.0	0.0060	60	0.0768	0.1920	0.17	0.16	0.0135	0.0633	0.1785	367	1035
	Apr	7176.38	7179.89	5598	4.50	3.15	—	—	0	0.2625	0.2625	1.66	1.54	0.1287	0.1338	0.1338	749	749
	May	7180.07	7178.23	5516	6.10	4.27	—	—	0	0.3558	0.3558	0.67	0.64	0.0530	0.3028	0.3028	1670	1670
	Jun	7184.08	7182.08	5706	6.77	4.74	—	—	0	0.3949	0.3949	2.19	2.01	0.1672	0.2278	0.2278	1300	1300
	Jul	7184.60	7184.34	5819	7.72	5.40	—	—	0	0.4503	0.4503	1.58	1.47	0.1227	0.3277	0.3277	1907	1907
	Aug	7185.21	7184.91	5846	5.86	4.10	—	—	0	0.3418	0.3418	3.57	3.04	0.2534	0.0885	0.0885	517	517
	Sep	7184.98	7185.10	5856	4.90	3.43	—	—	0	0.2858	0.2858	1.44	1.35	0.1122	0.1737	0.1737	1017	1017
	Oct	7184.67	7184.83	5842	3.67	2.57	—	—	0	0.2141	0.2141	0.32	0.30	0.0253	0.1888	0.1888	1103	1103
	Nov	7181.90	7183.29	5766	—	—	34.0	0.0035	0	0.1190	0.1190	1.17	1.10	0.0919	0.0271	0.0271	156	156
	Dec	7180.56	7181.23	5665	—	—	26.0	0.0026	0	0.0676	0.0676	0.42	0.40	0.0333	0.0344	0.0344	195	195
	Annual									2.6445	2.8192			1.2494	1.3952	1.5699	7974	8988

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
1989	Jan	7180.10	7180.33	5620	—	—	19.5	0.0031	42	0.0351	0.0605	1.42	1.33	0.1107	-0.0756	-0.0502	-425	-282
	Feb	7180.18	7180.14	5611	—	—	26.5	0.0037	86	0.0137	0.0981	1.45	1.36	0.1129	-0.0992	-0.0149	-557	-83
	Mar	7179.88	7180.03	5605	—	—	38.5	0.0060	44	0.1294	0.2310	1.01	0.96	0.0799	0.0494	0.1511	277	847
	Apr	7180.50	7180.19	5613	5.74	4.02	—	—	0	0.3348	0.3348	0.00	0.00	0.0000	0.3348	0.3348	1879	1879
	May	7183.74	7182.12	5709	7.91	5.54	—	—	0	0.4614	0.4614	0.25	0.24	0.0198	0.4416	0.4416	2521	2521
	Jun	7185.27	7184.51	5827	8.52	5.96	—	—	0	0.4970	0.4970	0.31	0.29	0.0245	0.4725	0.4725	2753	2753
	Jul	7185.34	7185.31	5866	8.13	5.69	—	—	0	0.4743	0.4743	1.34	1.26	0.1047	0.3696	0.3696	2168	2168
	Aug	7184.49	7184.92	5847	6.89	4.82	—	—	0	0.4019	0.4019	2.41	2.19	0.1822	0.2197	0.2197	1285	1285
	Sep	7181.43	7182.96	5750	5.95	4.17	—	—	0	0.3471	0.3471	0.55	0.52	0.0435	0.3035	0.3035	1745	1745
	Oct	7181.33	7181.38	5672	3.63	2.54	—	—	0	0.2118	0.2118	1.31	1.23	0.1024	0.1093	0.1093	620	620
	Nov	7181.00	7181.17	5661	—	—	36.0	0.0035	0	0.1260	0.1260	0.03	0.03	0.0024	0.1236	0.1236	700	700
	Dec	7180.75	7180.88	5647	—	—	26.0	0.0026	2	0.0662	0.0676	0.16	0.15	0.0127	0.0536	0.0549	303	310
	Annual									3.0986	3.3114			0.7957	2.3030	2.5157	13270	14463
1990	Jan	7180.67	7180.71	5639	—	—	22.0	0.0031	18	0.0559	0.0682	0.84	0.80	0.0665	-0.0106	0.0017	-60	10
	Feb	7179.49	7180.08	5608	—	—	27.0	0.0037	29	0.0709	0.0999	0.79	0.75	0.0625	0.0084	0.0374	47	210
	Mar	7174.00	7176.75	5442	—	—	37.5	0.0060	9	0.2048	0.2250	1.62	1.51	0.1257	0.0791	0.0993	430	541
	Apr	7172.50	7173.25	5269	4.06	2.84	—	—	0	0.2368	0.2368	2.05	1.89	0.1576	0.0793	0.0793	418	418
	May	7176.67	7174.59	5335	6.84	4.79	—	—	0	0.3990	0.3990	1.39	1.30	0.1084	0.2906	0.2906	1550	1550
	Jun	7180.60	7178.64	5536	9.31	6.52	—	—	0	0.5431	0.5431	0.73	0.69	0.0578	0.4853	0.4853	2687	2687
	Jul	7181.13	7180.87	5646	6.77	4.74	—	—	0	0.3949	0.3949	3.00	2.67	0.2225	0.1724	0.1724	973	973
	Aug	7181.51	7181.32	5669	6.04	4.23	—	—	0	0.3523	0.3523	3.04	2.70	0.2247	0.1277	0.1277	724	724
	Sep	7182.02	7181.77	5691	4.96	3.47	—	—	0	0.2893	0.2893	2.37	2.15	0.1795	0.1099	0.1099	625	625
	Oct	7182.76	7182.39	5722	2.98	2.09	—	—	0	0.1738	0.1738	1.92	1.78	0.1482	0.0257	0.0257	147	147
	Nov	7182.76	7182.76	5740	—	—	37.0	0.0035	0	0.1295	0.1295	1.55	1.45	0.1204	0.0091	0.0091	52	52
	Dec	7182.50	7182.63	5734	—	—	20.5	0.0026	1	0.0528	0.0533	3.20	2.80	0.2333	-0.1806	-0.1800	-1035	-1032
	Annual									2.9032	2.9652			1.7070	1.1962	1.2582	6558	6903
1991	Jan	7181.74	7182.12	5709	—	—	21.5	0.0031	13	0.0580	0.0667	1.07	1.01	0.0844	-0.0264	-0.0178	-151	-101
	Feb	7180.28	7181.01	5654	—	—	28.0	0.0037	48	0.0539	0.1036	0.20	0.19	0.0158	0.0380	0.0878	215	496
	Mar	7176.21	7178.25	5517	—	—	32.5	0.0060	7	0.1814	0.1950	2.02	1.87	0.1555	0.0258	0.0395	142	218
	Apr	7171.55	7173.88	5301	4.87	3.41	—	—	0	0.2841	0.2841	0.28	0.27	0.0222	0.2619	0.2619	1388	1388
	May	7179.33	7175.44	5378	7.27	5.09	—	—	0	0.4241	0.4241	1.09	1.03	0.0859	0.3382	0.3382	1819	1819
	Jun	7185.46	7182.40	5722	6.84	4.79	—	—	0	0.3990	0.3990	1.16	1.09	0.0912	0.3078	0.3078	1761	1761
	Jul	7186.05	7185.76	5888	7.25	5.08	—	—	0	0.4229	0.4229	1.57	1.46	0.1219	0.3010	0.3010	1772	1772
	Aug	7185.84	7185.95	5898	6.78	4.75	—	—	0	0.3955	0.3955	1.79	1.66	0.1384	0.2571	0.2571	1516	1516
	Sep	7185.87	7185.86	5893	4.56	3.19	—	—	0	0.2660	0.2660	1.75	1.63	0.1354	0.1306	0.1306	770	770
	Oct	7185.59	7185.73	5887	3.90	2.73	—	—	0	0.2275	0.2275	1.23	1.16	0.0964	0.1311	0.1311	772	772
	Nov	7185.38	7185.49	5875	—	—	31.0	0.0035	0	0.1085	0.1085	2.65	2.38	0.1986	-0.0901	-0.0901	-529	-529
	Dec	7184.91	7185.15	5858	—	—	23.5	0.0026	0	0.0611	0.0611	1.74	1.62	0.1347	-0.0736	-0.0736	-431	-431
	Annual									2.8819	2.9539			1.2805	1.6014	1.6735	9045	9451
1992	Jan	7184.82	7184.87	5844	—	—	18.5	0.0031	21	0.0453	0.0574	0.58	0.55	0.0459	-0.0006	0.0114	-4	67
	Feb	7184.90	7184.86	5844	—	—	28.0	0.0037	34	0.0684	0.1036	0.90	0.86	0.0713	-0.0029	0.0324	-17	189
	Mar	7183.41	7184.16	5809	—	—	36.0	0.0060	15	0.1836	0.2160	3.05	2.70	0.2252	-0.0416	-0.0092	-242	-53
	Apr	7177.08	7180.25	5616	4.64	3.25	—	—	0	0.2707	0.2707	0.56	0.53	0.0443	0.2263	0.2263	1271	1271
	May	7185.16	7181.12	5659	5.47	3.83	—	—	0	0.3191	0.3191	3.75	3.16	0.2631	0.0560	0.0560	317	317
	Jun	7185.99	7185.58	5880	6.94	4.86	—	—	0	0.4048	0.4048	0.42	0.40	0.0333	0.3716	0.3716	2185	2185
	Jul	7185.90	7185.95	5898	7.44	5.21	—	—	0	0.4340	0.4340	2.67	2.40	0.2000	0.2341	0.2341	1380	1380
	Aug	7185.69	7185.80	5890	5.81	4.07	—	—	0	0.3389	0.3389	3.17	2.78	0.2317	0.1072	0.1072	631	631
	Sep	7182.91	7184.30	5816	5.16	3.61	—	—	0	0.3010	0.3010	0.65	0.62	0.0515	0.2495	0.2495	1451	1451
	Oct	7182.57	7182.74	5739	3.50	2.45	—	—	0	0.2042	0.2042	0.38	0.36	0.0301	0.1741	0.1741	999	999
	Nov	7182.27	7182.42	5724	—	—	30.0	0.0035	0	0.1050	0.1050	1.74	1.62	0.1347	-0.0297	-0.0297	-170	-170
	Dec	7182.23	7182.25	5715	—	—	21.0	0.0026	8	0.0502	0.0546	2.56	2.31	0.1924	-0.1422	-0.1378	-813	-788
	Annual									2.7252	2.8092			1.5234	1.2018	1.2858	6990	7480
1993	Jan	7182.41	7182.32	5719	—	—	26.5	0.0031	15	0.0698	0.0822	2.76	2.47	0.2061	-0.1363	-0.1240	-779	-709
	Feb	7182.60	7182.51	5727	—	—	28.5	0.0037	15	0.0896	0.1055	2.57	2.32	0.1931	-0.1035	-0.0877	-593	-502
	Mar	7174.65	7178.63	5535	—	—	35.5	0.0060	5	0.2024	0.2130	1.16	1.09	0.0912	0.1112	0.1218	615	674
	Apr	7171.17	7172.91	5253	4.65	3.26	—	—	0	0.2713	0.2713	0.51	0.48	0.0404	0.2309	0.2309	1213	1213
	May	7179.92	7175.55	5383	5.34	3.74	—	—	0	0.3115	0.3115	2.07	1.91	0.1590	0.1526	0.1526	821	821
	Jun	7185.94	7182.93	5749	7.43	5.20	—	—	0	0.4334	0.4334	0.33	0.31	0.0261	0.4073	0.4073	2342	2342
	Jul	7185.40	7185.67	5884	9.31	6.52	—	—	0	0.5431	0.5431	0.00	0.00	0.0000	0.5431	0.5431	3196	3196
	Aug	7184.65	7185.03	5852	6.21	4.35	—	—	0	0.3623	0.3623	4.02	3.33	0.2774	0.0848	0.0848	496	496
	Sep	7184.19	7184.42	5823	5.20	3.64	—	—	0	0.3033	0.3033	1.16	1.09	0.0912	0.2122	0.2122	1235	1235
	Oct	7183.99	7184.09	5806	3.12	2.18	—	—	0	0.1820	0.1820	1.92	1.78	0.1482	0.0338	0.0338	196	196
	Nov	7183.93	7183.96	5800	—	—	31.0	0.0035	0	0.1085	0.1085	2.02	1.87	0.1555	-0.0470	-0.0470	-273	-273
	Dec	7183.79	7183.86	5795	—	—	26.5	0.0026	9	0.0627	0.0689	0.52	0.49	0.0412	0.0215	0.0277	125	161
	Annual									2.9398	2.9848			1.4293	1.5106	1.5556	8595	8851
1994	Jan	7182.49	7183.14	5759	—	—	24.6	0.0031	14	0.0656	0.0763	0.53	0.50	0.0420	0.0236	0.0343	136	198
	Feb	7180.54	7181.52	5678	—	—	25.0	0.0037	38	0.0574	0.0925	2.60	2.34	0.1952	-0.1378	-0.1027	-783	-583
	Mar	7178.07	7179.31	5569	—	—	38.1	0.0060	16	0.1920	0.2286	1.83	1.70	0.1414	0.0506	0.0872	282	486
	Apr	7176.04	7177.06	5458	3.74	2.62	—	—	0	0.2182	0.2182	2.49	2.25	0.1877	0.0305	0.0305	167	167
	May	7184.70	7180.37	5622	5.53	3.87	—	—	0	0.3226	0.3226	2.74	2.46	0.2047	0.1179	0.1179	663	663
	Jun	7185.80	7185.25	5864	7.93	5.55	—	—	0	0.4626	0.4626	0.98	0.93	0.0776	0.3850	0.3850	2258	2258
	Jul	7185.54	7185.67	5884	8.76	6.13	—	—	0	0.5110	0.5110	1.58	1.47	0.1227	0.3883	0.3883	2285	2285
	Aug	7185.28	7185.41	5872	6.65	4.66	—	—	0	0.3879	0.3879	2.17	1.99	0.1658	0.2221	0.2221	1304	1304
	Sep	7184.90	7185.09	5856	4.39	3.07	—	—	0	0.2561	0.2561	2.55	2.30	0.1918	0.0643	0.0643	377	377
	Oct	7184.62	7184.76	5839	2.71	1.90	—	—	0	0.1581	0.1581	1.42	1.33	0.1107	0.0474	0.0474	277	277
	Nov	7184.60	7184.61	5832	—	—	29.5	0.0035	0	0.1033	0.1033	2.90	2.59	0.2157	-0.1124	-0.1124	-656	-656
	Dec	7184.09	7184.35	5819	—	—	27.3	0.0026	0	0.0710	0.0710	0.55	0.52	0.0435	0.0274	0.0274	160	160
	Annual									2.8056	2.8880			1.6986	1.1070	1.1894	6469	6934

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
1995	Jan	7184.21	7184.15	5809	—	—	22.2	0.0031	10	0.0619	0.0688	2.21	2.02	0.1685	-0.1066	-0.0997	-619	-579
	Feb	7185.10	7184.66	5834	—	—	31.9	0.0037	12	0.1039	0.1180	0.79	0.75	0.0625	0.0413	0.0555	241	324
	Mar	7177.33	7181.22	5664	—	—	35.6	0.0060	2	0.2093	0.2136	3.60	3.06	0.2550	-0.0457	-0.0414	-259	-234
	Apr	7172.45	7174.89	5350	3.63	2.54	—	—	0	0.2118	0.2118	1.89	1.75	0.1459	0.0658	0.0658	352	352
	May	7179.06	7175.76	5393	5.04	3.53	—	—	0	0.2940	0.2940	1.74	1.62	0.1347	0.1593	0.1593	859	859
	Jun	7185.66	7182.36	5721	7.42	5.19	—	—	0	0.4328	0.4328	0.80	0.76	0.0633	0.3695	0.3695	2114	2114
	Jul	7185.70	7185.68	5885	7.53	5.27	—	—	0	0.4393	0.4393	0.47	0.45	0.0372	0.4020	0.4020	2366	2366
	Aug	7184.85	7185.28	5865	6.74	4.72	—	—	0	0.3932	0.3932	2.57	2.32	0.1931	0.2001	0.2001	1173	1173
	Sep	7183.95	7184.40	5822	4.68	3.28	—	—	0	0.2730	0.2730	1.93	1.79	0.1489	0.1241	0.1241	722	722
	Oct	7183.51	7183.73	5788	3.49	2.44	—	—	0	0.2036	0.2036	0.00	0.00	0.0000	0.2036	0.2036	1178	1178
	Nov	7182.00	7182.76	5740	—	—	33.4	0.0035	0	0.1169	0.1169	0.53	0.50	0.0420	0.0749	0.0749	430	430
	Dec	7181.85	7181.93	5699	—	—	24.7	0.0026	0	0.0642	0.0642	0.26	0.25	0.0206	0.0436	0.0436	249	249
	Annual									2.8038	2.8292			1.2718	1.5321	1.5574	8808	8954
1996	Jan	7181.35	7181.60	5683	—	—	18.1	0.0031	11	0.0499	0.0561	0.97	0.92	0.0768	-0.0269	-0.0207	-153	-118
	Feb	7181.34	7181.35	5670	—	—	26.8	0.0037	9	0.0902	0.0992	1.20	1.13	0.0942	-0.0039	0.0050	-22	28
	Mar	7179.38	7180.36	5621	—	—	30.9	0.0060	0	0.1854	0.1854	1.14	1.08	0.0897	0.0957	0.0957	538	538
	Apr	7174.68	7177.03	5457	5.21	3.65	—	—	0	0.3039	0.3039	0.27	0.26	0.0214	0.2825	0.2825	1542	1542
	May	7179.97	7177.33	5471	8.45	5.92	—	—	0	0.4929	0.4929	0.00	0.00	0.0000	0.4929	0.4929	2697	2697
	Jun	7179.58	7179.78	5592	8.16	5.71	—	—	0	0.4760	0.4760	1.56	1.45	0.1212	0.3548	0.3548	1984	1984
	Jul	7176.52	7178.05	5507	7.70	5.39	—	—	0	0.4492	0.4492	2.65	2.38	0.1986	0.2506	0.2506	1380	1380
	Aug	7175.72	7176.12	5412	6.72	4.70	—	—	0	0.3920	0.3920	2.38	2.16	0.1801	0.2119	0.2119	1147	1147
	Sep	7174.31	7175.02	5357	4.92	3.44	—	—	0	0.2870	0.2870	1.45	1.36	0.1129	0.1741	0.1741	933	933
	Oct	7171.67	7172.99	5256	3.26	2.28	—	—	0	0.1902	0.1902	1.40	1.31	0.1092	0.0810	0.0810	426	426
	Nov	7170.40	7171.04	5159	—	—	30.2	0.0035	0	0.1057	0.1057	2.61	2.35	0.1959	-0.0902	-0.0902	-465	-465
	Dec	7168.67	7169.54	5087	—	—	17.8	0.0026	2	0.0454	0.0463	0.71	0.67	0.0562	-0.0109	-0.0099	-55	-51
	Annual									3.0678	3.0838			1.2560	1.8118	1.8278	9951	10041
1997	Jan	7167.43	7168.05	5021	—	—	17.8	0.0031	51	0.0270	0.0552	3.27	2.85	0.2371	-0.2101	-0.1819	-1055	-914
	Feb	7166.15	7166.79	4964	—	—	22.7	0.0037	41	0.0496	0.0840	1.03	0.98	0.0814	-0.0319	0.0026	-158	13
	Mar	7165.49	7165.82	4921	—	—	30.5	0.0060	3	0.1775	0.1830	0.01	0.01	0.0008	0.1767	0.1822	870	897
	Apr	7161.16	7163.33	4808	4.01	2.81	—	—	0	0.2339	0.2339	1.90	1.76	0.1467	0.0873	0.0873	419	419
	May	7170.01	7165.59	4910	6.01	4.21	—	—	0	0.3506	0.3506	2.35	2.14	0.1781	0.1725	0.1725	847	847
	Jun	7178.94	7174.48	5330	7.74	5.42	—	—	0	0.4515	0.4515	1.33	1.25	0.1039	0.3476	0.3476	1853	1853
	Jul	7179.58	7179.26	5567	8.64	6.05	—	—	0	0.5040	0.5040	3.36	2.90	0.2420	0.2620	0.2620	1459	1459
	Aug	7179.05	7179.32	5570	5.93	4.15	—	—	0	0.3459	0.3459	2.18	2.00	0.1665	0.1795	0.1795	1000	1000
	Sep	7178.23	7178.64	5536	5.03	3.52	—	—	0	0.2934	0.2934	2.22	2.03	0.1692	0.1242	0.1242	688	688
	Oct	7178.36	7178.30	5519	3.66	2.56	—	—	0	0.2135	0.2135	1.68	1.56	0.1302	0.0833	0.0833	460	460
	Nov	7177.65	7178.01	5505	—	—	30.0	0.0035	0	0.1050	0.1050	1.21	1.14	0.0949	0.0101	0.0101	56	56
	Dec	7176.93	7177.29	5469	—	—	19.2	0.0026	8	0.0459	0.0499	1.36	1.27	0.1062	-0.0602	-0.0562	-329	-308
	Annual									2.7979	2.8699			1.6569	1.1409	1.2130	6107	6469
1998	Jan	7176.24	7176.59	5434	—	—	21.9	0.0031	13	0.0591	0.0679	0.79	0.75	0.0625	-0.0035	0.0053	-19	29
	Feb	7175.68	7175.96	5404	—	—	21.1	0.0037	20	0.0625	0.0781	1.28	1.20	0.1002	-0.0377	-0.0221	-204	-119
	Mar	7172.81	7174.25	5318	—	—	32.4	0.0060	0	0.1944	0.1944	1.60	1.49	0.1242	0.0702	0.0702	374	374
	Apr	7169.57	7171.19	5167	4.22	2.95	—	—	0	0.2462	0.2462	1.07	1.01	0.0844	0.1618	0.1618	836	836
	May	7176.24	7172.91	5252	6.68	4.68	—	—	0	0.3897	0.3897	0.37	0.35	0.0293	0.3604	0.3604	1893	1893
	Jun	7180.94	7178.59	5534	8.98	6.29	—	—	0	0.5238	0.5238	0.03	0.03	0.0024	0.5215	0.5215	2886	2886
	Jul	7181.26	7181.10	5658	7.36	5.15	—	—	0	0.4293	0.4293	2.37	2.15	0.1795	0.2499	0.2499	1414	1414
	Aug	7180.60	7180.93	5650	6.49	4.54	—	—	0	0.3786	0.3786	2.60	2.34	0.1952	0.1834	0.1834	1036	1036
	Sep	7177.88	7179.24	5566	5.69	3.98	—	—	0	0.3319	0.3319	1.06	1.00	0.0837	0.2483	0.2483	1382	1382
	Oct	7175.67	7176.78	5444	3.64	2.55	—	—	0	0.2123	0.2123	3.56	3.03	0.2528	-0.0405	-0.0405	-220	-220
	Nov	7172.77	7174.22	5317	—	—	33.8	0.0035	0	0.1183	0.1183	2.03	1.87	0.1562	-0.0379	-0.0379	-202	-202
	Dec	7169.17	7170.97	5156	—	—	25.9	0.0026	0	0.0673	0.0673	0.20	0.19	0.0158	0.0515	0.0515	266	266
	Annual									3.0134	3.0378			1.2861	1.7273	1.7517	9440	9573
1999	Jan	7167.18	7168.18	5026	—	—	24.9	0.0031	0	0.0772	0.0772	0.50	0.48	0.0396	0.0376	0.0376	189	189
	Feb	7165.37	7166.28	4941	—	—	29.6	0.0037	0	0.1095	0.1095	0.25	0.24	0.0198	0.0897	0.0897	443	443
	Mar	7164.85	7165.11	4889	—	—	38.0	0.0060	0	0.2280	0.2280	0.53	0.50	0.0420	0.1860	0.1860	910	910
	Apr	7167.42	7166.14	4934	4.76	3.33	—	—	0	0.2777	0.2777	2.86	2.56	0.2129	0.0647	0.0647	319	319
	May	7173.69	7170.56	5136	6.98	4.89	—	—	0	0.4072	0.4072	1.45	1.36	0.1129	0.2943	0.2943	1511	1511
	Jun	7180.79	7177.24	5467	8.74	6.12	—	—	0	0.5098	0.5098	1.03	0.98	0.0814	0.4284	0.4284	2342	2342
	Jul	7182.97	7181.88	5697	6.94	4.86	—	—	0	0.4048	0.4048	2.43	2.20	0.1836	0.2213	0.2213	1261	1261
	Aug	7185.05	7184.01	5802	5.95	4.17	—	—	0	0.3471	0.3471	3.70	3.13	0.2604	0.0867	0.0867	503	503
	Sep	7185.27	7185.16	5859	5.12	3.58	—	—	0	0.2987	0.2987	2.13	1.96	0.1631	0.1356	0.1356	795	795
	Oct	7184.78	7185.03	5852	4.48	3.14	—	—	0	0.2613	0.2613	0.14	0.13	0.0111	0.2503	0.2503	1464	1464
	Nov	7183.51	7184.15	5809	—	—	38.3	0.0035	0	0.1341	0.1341	0.05	0.05	0.0040	0.1301	0.1301	756	756
	Dec	7182.42	7182.97	5750	—	—	24.8	0.0026	0	0.0645	0.0645	0.01	0.01	0.0008	0.0637	0.0637	366	366
	Annual									3.1198	3.1198			1.1315	1.9884	1.9884	10859	10859
2000	Jan	7181.80	7182.11	5708	—	—	26.4	0.0031	5	0.0777	0.0818	1.51	1.41	0.1174	-0.0397	-0.0356	-226	-203
	Feb	7181.19	7181.50	5677	—	—	32.7	0.0037	3	0.1174	0.1210	0.50	0.48	0.0396	0.0778	0.0814	442	462
	Mar	7176.64	7178.92	5550	—	—	35.9	0.0060	0	0.2154	0.2154	2.53	2.28	0.1904	0.0250	0.0250	139	139
	Apr	7174.85	7175.75	5393	5.94	4.16	—	—	0	0.3465	0.3465	0.36	0.34	0.0285	0.3180	0.3180	1715	1715
	May	7176.58	7175.72	5391	8.63	6.04	—	—	0	0.5034	0.5034	0.26	0.25	0.0206	0.4828	0.4828	2603	2603
	Jun	7174.21	7175.40	5375	9.96	6.97	—	—	0	0.5810	0.5810	1.17	1.10	0.0919	0.4891	0.4891	2629	2629
	Jul	7173.26	7173.74	5293	9.87	6.91	—	—	0	0.5758	0.5758	1.12	1.06	0.0882	0.4876	0.4876	2581	2581
	Aug	7170.53	7171.90	5202	8.41	5.89	—	—	0	0.4906	0.4906	0.90	0.86	0.0713	0.4193	0.4193	2181	2181
	Sep	7164.72	7167.63	5001	7.56	5.29	—	—	0	0.4410	0.4410	0.28	0.27	0.0222	0.4188	0.4188	2095	2095
	Oct	7163.55	7164.14	4845	3.22	2.25	—	—	0	0.1878	0.1878	2.47	2.24	0.1863	0.0015	0.0015	8	8
	Nov	7161.97	7162.76	4783	—	—	26.0	0.0035	0	0.0910	0.0910	1.54	1.44	0.1197	-0.0287	-0.0287	-137	-137
	Dec	7160.76	7161.37	4720	—	—	25.4	0.0026	0	0.0660	0.0660	0.41	0.39	0.0325	0.0336	0.0336	159	159
	Annual									3.6936	3.7014			1.0084	2.6853	2.6930	14186	14230

Table F-11. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part A. Heron Reservoir Net Evaporation Loss

Year	Month	EOM Reservoir Elevation (feet) (1)	Average Reservoir Elevation (feet) (2)	Average Reservoir Surface Acres (3)	Evaporation Rate: Pan Evap (inches) (4)	Evaporation Rate: Lake Evap (inches) (5)	Average Temp (F) (6)	K Factor (feet/F) (7)	Average Lake Ice Cover (percent) (8)	Gross Lake Evap Rate (feet): With Ice Cover (9)	Gross Lake Evap Rate (feet): Without Ice Cover (10)	Precipitation Rate: Recorded (inches) (11)	Precipitation Rate: Effective (inches) (12)	Effective (feet) (13)	Net Lake Evap Rate (feet): With Ice Cover (14)	Net Lake Evap Rate (feet): Without Ice Cover (15)	Net Lake Evap (acre-feet): With Ice Cover (16)	Net Lake Evap (acre-feet): Without Ice Cover (17)
2001	Jan	7160.60	7160.68	4690	—	—	20.2	0.0031	14	0.0539	0.0626	1.76	1.63	0.1362	-0.0823	-0.0735	-386	-345
	Feb	7159.80	7160.20	4668	—	—	24.0	0.0037	35	0.0577	0.0888	0.73	0.69	0.0578	-0.0001	0.0310	0	145
	Mar	7159.87	7159.84	4652	—	—	30.5	0.0060	14	0.1574	0.1830	1.82	1.69	0.1407	0.0167	0.0423	78	197
	Apr	7159.50	7159.69	4644	5.04	3.53	—	—	0	0.2940	0.2940	1.21	1.14	0.0949	0.1991	0.1991	925	925
	May	7169.23	7164.37	4855	8.09	5.66	—	—	0	0.4719	0.4719	1.91	1.77	0.1474	0.3245	0.3245	1575	1575
	Jun	7174.43	7171.83	5199	9.81	6.87	—	—	0	0.5723	0.5723	0.31	0.29	0.0245	0.5477	0.5477	2848	2848
	Jul	7175.12	7174.78	5345	8.32	5.82	—	—	0	0.4853	0.4853	2.58	2.33	0.1938	0.2915	0.2915	1558	1558
	Aug	7175.65	7175.39	5375	6.86	4.80	—	—	0	0.4002	0.4002	1.98	1.83	0.1527	0.2475	0.2475	1330	1330
	Sep	7175.28	7175.47	5379	7.22	5.05	—	—	0	0.4212	0.4212	0.30	0.29	0.0238	0.3974	0.3974	2138	2138
	Oct	7174.62	7174.95	5354	4.60	3.22	—	—	0	0.2683	0.2683	0.54	0.51	0.0428	0.2256	0.2256	1208	1208
	Nov	7170.00	7172.31	5222	—	—	33.6	0.0035	0	0.1176	0.1176	1.25	1.18	0.0979	0.0197	0.0197	103	103
	Dec	7165.76	7167.88	5013	—	—	19.1	0.0026	0	0.0497	0.0497	0.79	0.75	0.0625	-0.0129	-0.0129	-65	-65
	Annual									3.3494	3.4148			1.1749	2.1745	2.2399	11311	11617
2002	Jan	7163.38	7164.57	4864	—	—	23.5	0.0031	0	0.0729	0.0729	0.59	0.56	0.0467	0.0261	0.0261	127	127
	Feb	7161.05	7162.22	4758	—	—	25.4	0.0037	17	0.0780	0.0940	0.17	0.16	0.0135	0.0645	0.0805	307	383
	Mar	7158.57	7159.81	4650	—	—	34.4	0.0060	8	0.1899	0.2064	0.59	0.56	0.0467	0.1432	0.1597	666	743
	Apr	7156.48	7157.53	4541	6.41	4.49	—	—	0	0.3739	0.3739	0.38	0.36	0.0301	0.3438	0.3438	1561	1561
	May	7156.05	7156.27	4481	9.82	6.87	—	—	0	0.5728	0.5728	0.00	0.00	0.0000	0.5728	0.5728	2567	2567
	Jun	7148.47	7152.26	4290	11.37	7.96	—	—	0	0.6633	0.6633	0.09	0.09	0.0071	0.6561	0.6561	2815	2815
	Jul	7140.82	7144.65	3925	9.65	6.76	—	—	0	0.5629	0.5629	1.91	1.77	0.1474	0.4155	0.4155	1631	1631
	Aug	7136.99	7138.91	3646	9.36	6.55	—	—	0	0.5460	0.5460	1.58	1.47	0.1227	0.4233	0.4233	1543	1543
	Sep	7136.52	7136.76	3535	6.03	4.22	—	—	0	0.3518	0.3518	4.74	3.65	0.3044	0.0473	0.0473	167	167
	Oct	7135.70	7136.11	3501	3.50	2.45	—	—	0	0.2042	0.2042	1.83	1.70	0.1414	0.0628	0.0628	220	220
	Nov	7135.05	7135.38	3463	—	—	35.6	0.0035	0	0.1246	0.1246	1.39	1.30	0.1084	0.0162	0.0162	56	56
	Dec	7134.54	7134.80	3433	—	—	24.7	0.0026	2	0.0629	0.0642	1.00	0.95	0.0792	-0.0162	-0.0149	-56	-51
	Annual									3.8031	3.8369			1.0476	2.7555	2.7893	11605	11762
2003	Jan	7134.25	7134.40	3412	—	—	31.3	0.0031	10	0.0873	0.0970	0.07	0.07	0.0055	0.0818	0.0915	279	312
	Feb	7134.25	7134.25	3405	—	—	31.1	0.0037	5	0.1093	0.1151	2.22	2.03	0.1692	-0.0599	-0.0541	-204	-184
	Mar	7133.61	7133.93	3389	—	—	35.5	0.0060	0	0.2130	0.2130	0.84	0.80	0.0665	0.1465	0.1465	496	496
	Apr	7134.68	7134.15	3399	5.85	4.10	—	—	0	0.3413	0.3413	0.82	0.78	0.0649	0.2763	0.2763	939	939
	May	7140.94	7137.81	3589	7.74	5.42	—	—	0	0.4515	0.4515	0.78	0.74	0.0618	0.3898	0.3898	1399	1399
	Jun	7142.78	7141.86	3793	10.14	7.10	—	—	0	0.5915	0.5915	0.35	0.33	0.0277	0.5638	0.5638	2138	2138
	Jul	7133.53	7138.16	3607	10.94	7.66	—	—	0	0.6382	0.6382	1.03	0.98	0.0814	0.5568	0.5568	2008	2008
	Aug	7127.49	7130.51	3211	7.69	5.38	—	—	0	0.4486	0.4486	2.92	2.60	0.2170	0.2316	0.2316	744	744
	Sep	7127.39	7127.44	3062	6.01	4.21	—	—	0	0.3506	0.3506	2.63	2.37	0.1972	0.1534	0.1534	470	470
	Oct	7125.92	7126.66	3024	4.23	2.96	—	—	0	0.2468	0.2468	0.98	0.93	0.0776	0.1692	0.1692	512	512
	Nov	7123.86	7124.89	2939	—	—	34.8	0.0035	0	0.1218	0.1218	1.83	1.70	0.1414	-0.0196	-0.0196	-58	-58
	Dec	7122.50	7123.18	2858	—	—	28.9	0.0026	0	0.0751	0.0751	0.48	0.46	0.0380	0.0371	0.0371	106	106
	Annual									3.6749	3.6904			1.1483	2.5266	2.5421	8830	8882
2004	Jan	7118.05	7120.28	2718	—	—	25.2	0.0031	42	0.0453	0.0781	0.98	0.93	0.0776	-0.0323	0.0005	-88	1
	Feb	7112.54	7115.30	2470	—	—	26.0	0.0037	90	0.0096	0.0962	1.84	1.71	0.1422	-0.1325	-0.0460	-327	-114
	Mar	7111.20	7111.87	2299	—	—	41.5	0.0060	55	0.1121	0.2490	0.12	0.11	0.0095	0.1026	0.2395	236	551
	Apr	7106.79	7109.00	2159	4.74	3.32	—	—	0	0.2765	0.2765	1.97	1.82	0.1519	0.1246	0.1246	269	269
	May	7114.72	7110.76	2243	8.97	6.28	—	—	0	0.5233	0.5233	0.00	0.00	0.0000	0.5233	0.5233	1174	1174
	Jun	7122.04	7118.38	2624	9.87	6.91	—	—	0	0.5758	0.5758	0.18	0.17	0.0143	0.5615	0.5615	1473	1473
	Jul	7121.11	7121.58	2780	9.11	6.38	—	—	0	0.5314	0.5314	0.95	0.90	0.0752	0.4562	0.4562	1268	1268
	Aug	7120.17	7120.64	2735	8.73	6.11	—	—	0	0.5093	0.5093	0.61	0.58	0.0483	0.4610	0.4610	1261	1261
	Sep	7118.66	7119.42	2676	6.39	4.47	—	—	0	0.3728	0.3728	1.23	1.16	0.0964	0.2763	0.2763	739	739
	Oct	7118.82	7118.74	2642	3.44	2.41	—	—	0	0.2007	0.2007	1.37	1.28	0.1069	0.0938	0.0938	248	248
	Nov	7118.53	7118.68	2639	—	—	35.6	0.0035	0	0.1246	0.1246	0.46	0.44	0.0364	0.0882	0.0882	233	233
	Dec	7118.00	7118.27	2618	—	—	28.2	0.0026	2	0.0719	0.0733	0.64	0.61	0.0507	0.0212	0.0227	55	59
	Annual									3.3530	3.6108			0.8093	2.5437	2.8015	6541	7163
2005	Jan	7118.08	7118.04	2607	—	—	32.3	0.0031	13	0.0871	0.1001	2.87	2.56	0.2136	-0.1265	-0.1135	-330	-296
	Feb	7116.59	7117.34	2572	—	—	32.3	0.0037	12	0.1052	0.1195	3.15	2.77	0.2306	-0.1255	-0.1111	-323	-286
	Mar	7117.38	7116.99	2554	—	—	36.9	0.0060	0	0.2214	0.2214	1.49	1.39	0.1159	0.1055	0.1055	269	269
	Apr	7127.14	7122.26	2813	5.28	3.70	—	—	0	0.3080	0.3080	1.93	1.79	0.1489	0.1591	0.1591	448	448
	May	7139.88	7133.51	3367	7.47	5.23	—	—	0	0.4358	0.4358	1.26	1.18	0.0987	0.3371	0.3371	1135	1135
	Jun	7152.15	7146.02	3991	8.77	6.14	—	—	0	0.5116	0.5116	0.32	0.30	0.0253	0.4863	0.4863	1941	1941
	Jul	7153.06	7152.61	4306	10.98	7.69	—	—	0	0.6405	0.6405	0.51	0.48	0.0404	0.6001	0.6001	2584	2584
	Aug	7151.94	7152.50	4301	8.27	5.79	—	—	0	0.4824	0.4824	1.63	1.52	0.1264	0.3560	0.3560	1531	1531
	Sep	7152.05	7152.00	4277	6.42	4.49	—	—	0	0.3745	0.3745	1.20	1.13	0.0942	0.2803	0.2803	1199	1199
	Oct	7152.75	7152.40	4296	3.46	2.42	—	—	0	0.2018	0.2018	2.50	2.26	0.1883	0.0135	0.0135	58	58
	Nov	7148.97	7150.86	4223	—	—	35.9	0.0035	0	0.1257	0.1257	0.06	0.06	0.0048	0.1209	0.1209	511	511
	Dec	7144.85	7146.91	4034	—	—	25.5	0.0026	0	0.0663	0.0663	0.31	0.29	0.0245	0.0418	0.0418	168	168
	Annual									3.5602	3.5876			1.3117	2.2486	2.2759	9191	9262

Notes (from procedures applied in USBR's 2005 Water Accounting Report to the Rio Grande Compact Commission Engineer Advisors dated March 2006):

(1) USBR Heron Reservoir water surface stage data.
(2) Monthly average from (1).
(3) Monthly average from (2) and 1986 Heron Reservoir area-capacity table.
(4) USBR Heron Dam weather station data. Missing data filled by regression or field data as per Table F-3.
(5) (4) times a pan coefficient of 0.7.
(6) USBR Heron Dam weather station data. Missing data filled by regression or field data as per Table F-10.
(7) USBR lake surface evaporation factors derived for Heron Reservoir relating evaporation to average monthly temperature.
(8) From USBR Heron Reservoir ice cover observations. January 1971-April 1972 based on succeeding year.
(9) (6)x(7)x[100-(8)]/100 for November-March, and [(5)/12]x[100-(8)]/100 for April-October. Gross lake evaporation is reduced for any ice cover.
(10) (6)x(7) for November-March, and (5)/12 for April-October. Gross lake evaporation is not reduced for ice cover.
(11) USBR Heron Dam weather station data. Missing data filled by regression or field data as per Table F-6.
(12) From (11) and USBR effective precipitation formula (Manual Volume IV, 4.1.12B).
(13) (12)/12.
(14) (9)-(13).
(15) (10)-(13).
(16) (3)x(14).
(17) (3)x(15).

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage										
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
1971	Jan	0	0	20	20	49	521	570	517	-4	521	0	570	0	0	0	0	0	0	570	0	570	6992.50
	Feb	0	0	270	270	664	0	664	-378	-4	0	0	664	0	0	0	0	0	374	1234	-374	860	6997.50
	Mar	615	1	1503	889	1067	0	1067	-359	-8	0	0	1067	614	0	0	0	0	351	2301	-111	2190	7009.60
	Apr	10927	22	10788	-117	0	0	0	-109	16	0	0	0	10905	1790	1790	1790	0	125	511	10669	11180	7039.00
	May	13192	26	13282	116	286	0	286	-544	208	0	0	286	13166	230	230	230	0	752	568	23082	23650	7059.10
	Jun	20956	42	21293	379	455	0	455	-586	467	0	3	455	20914	6552	6555	455	6100	1054	567	36843	37410	7074.50
	Jul	4199	8	4691	500	600	0	600	266	380	0	13	600	4191	5804	5817	357	5460	115	811	35459	36270	7073.40
	Aug	3471	7	3931	467	560	316	876	557	241	316	14	876	3464	416	430	430	0	0	1257	38923	40180	7077.10
	Sep	928	2	1261	335	824	0	824	-74	197	0	15	824	926	4024	4039	219	3820	271	1862	35758	37620	7074.70
	Oct	2571	5	2934	368	442	0	442	-113	44	0	15	442	2566	816	831	831	0	157	1473	38167	39640	7076.60
	Nov	2469	5	2717	253	622	0	622	-593	42	0	17	622	2464	124	141	141	0	635	1953	39997	41950	7078.70
	Dec	654	1	729	76	188	0	188	-173	-157	0	19	188	653	125	144	144	0	16	1997	40633	42630	7079.30
	Annual	59982	120	63419	3557	5758	837	6594	-1589	1423	837	96	6594	59862		19977	4597	15380	3849				
	Adjust.																		-350	-350 (A)			
	Total																		3499	1647	40983	42630	
	Reset																			2370	40260		
1972	Jan	284	1	307	24	58	0	58	-130	-46	0	20	58	283	118	138	138	0	84	2290	40460	42750	7079.40
	Feb	303	1	3322	3020	3624	25	3649	-40	-66	25	20	3649	302	3251	3271	3271	0	0	2668	40762	43430	7080.00
	Mar	5572	11	6502	941	1129	0	1129	-618	-78	0	23	1129	5561	2297	2320	2320	0	541	1478	45782	47260	7083.20
	Apr	9118	18	9199	99	244	0	244	-526	158	0	29	244	9100	131	160	160	0	664	1562	54198	55760	7089.60
	May	10513	21	10907	415	498	0	498	497	700	0	36	498	10492	4541	4577	1307	3270	203	753	61217	61970	7093.80
	Jun	8572	17	8913	358	881	0	881	-146	838	0	39	881	8555	6903	6942	1022	5920	784	612	63068	63680	7094.90
	Jul	471	1	621	151	371	0	371	-419	713	0	36	371	470	9144	9180	330	8850	1132	653	53557	54210	7086.50
	Aug	46	0	90	44	108	0	108	-288	441	0	29	108	46	4206	4235	55	4180	729	707	48693	49400	7084.90
	Sep	506	1	890	385	462	27	489	233	213	20	27	489	505	960	987	987	0	7	209	49191	49400	7084.90
	Oct	16703	33	16352	-318	0	1364	1364	1190	-174	1364	34	1364	16670	1479	1513	1683	-170	0	-111	66031	65920	7096.30
	Nov	3892	8	4750	866	1039	0	1039	-739	-57	0	43	1039	3884	908	951	921	30	862	7	69203	69210	7098.30
	Dec	2091	4	2132	45	111	133	244	-50	-163	133	38	244	2087	17703	17741	81	17660	0	170	53630	53800	7088.20
	Annual	58071	116	63985	6030	8526	1549	10075	-1035	2261	1542	374	10075	57955		52015	12275	39740	4845				
	Adjust.																		-350	-350 (A)			
	Total																		4495	-180	53980	53800	
	Reset																			1620	52180		
1973	Jan	1559	3	1559	3	8	259	259	132	-128	259	32	259	1556	171	203	203	0	-8	1676	53744	55420	7089.36
	Feb	1180	2	1392	214	527	194	722	58	-137	194	33	722	1178	576	609	609	0	0	1789	54921	56710	7090.27
	Mar	1742	3	4838	3099	3719	1824	5543	1515	-309	1824	35	5543	1739	5647	5662	5672	10	0	1660	56650	58310	7091.37
	Apr	11845	24	23165	11344	13612	606	14219	657	51	606	40	14219	11821	14680	14720	14720	0	0	1159	68471	69630	7098.55
	May	47328	95	49996	2763	3315	314	3629	833	519	314	59	3629	47233	2043	2102	2092	10	0	2696	115694	118390	7120.69
	Jun	53560	107	53650	197	485	0	485	368	1301	0	85	485	53453	0	85	85	0	933	3096	168214	171310	7137.49
	Jul	28652	57	28792	197	485	0	485	457	1153	0	101	485	28595	1913	2014	2004	10	697	1577	196103	197680	7144.53
	Aug	4310	9	4762	461	553	0	553	-323	1236	0	105	553	4301	2910	3015	2995	20	1559	-865	198625	197960	7144.60
	Sep	2061	4	2256	199	490	0	490	-489	1012	0	105	490	2057	121	226	206	20	1500	-582	199362	198780	7144.81
	Oct	1040	2	1073	35	86	105	105	-533	710	0	105	105	1038	16	121	101	20	1262	-576	199118	198540	7144.75
	Nov	26	0	26	0	0	105	105	-662	256	0	105	105	26	2243	2348	108	2240	1023	-581	195861	195300	7143.92
	Dec	20	0	12	-8	0	97	97	-937	-211	0	97	97	20	38537	38634	104	38530	623	-588	156548	155960	7133.05
	Annual	153323	307	171521	18505	23281	3505	26693	1077	5455	3198	903	26693	153016		69760	28900	40860	7789				
	Adjust.																		-350	-350 (A)			
	Total																		7439	-938	156898	155960	
	Reset																			1990	153970		
1974	Jan	0	0	11	11	27	693	693	186	-507	693	90	693	0	0	90	90	0	-27	2593	153997	156590	7133.24
	Feb	0	0	12	12	30	90	90	-97	-154	57	90	90	0	56	146	86	60	4	2597	153933	156530	7133.24
	Mar	3144	6	5134	1996	2396	732	3128	334	-398	732	90	3128	3138	5875	5965	5925	40	0	-201	157031	156830	7133.31
	Apr	8515	17	9140	642	770	0	770	-108	876	0	92	770	8498	1273	1365	935	430	984	-365	164115	163750	7135.34
	May	22078	44	22072	38	94	97	97	407	1752	0	97	97	22034	196	293	293	0	1348	-561	184801	184240	7141.02
	Jun	8987	18	9404	435	522	0	522	413	1711	0	102	522	8969	1391	1493	1253	240	1298	-1292	192232	190940	7142.79
	Jul	1704	3	1934	233	574	0	574	-378	1407	0	103	574	1701	427	530	360	170	1785	-1078	191978	190900	7142.78
	Aug	2190	4	2595	409	491	0	491	689	952	0	103	491	2186	1190	1293	1293	0	264	-1879	193899	192020	7143.07
	Sep	28	0	64	36	89	103	103	-58	1213	0	103	103	28	163	266	106	160	1285	-1882	192482	190600	7142.70
	Oct	192	0	306	114	281	0	281	-441	-5	0	103	281	192	274	377	107	270	436	-1708	191968	190260	7142.61
	Nov	356	1	402	47	115	0	115	-692	111	0	103	115	355	334	437	437	0	804	-2029	191519	189490	7142.41
	Dec	34	0	36	2	5	95	95	-1355	-90	0	95	95	34	36339	36434	204	36230	1355	-2138	151968	149830	7131.19
	Annual	47228	94	51110	3976	5394	1810	6960	-1101	6868	1482	1170	6960	47134		50668	11068	39600	9535				
	Adjust.																		-350	-350 (A)			
	Total																		9185	-2488	152318	149830	
	Reset																			-1300	151130		
1975	Jan	42	0	87	45	111	285	396	19	-266	285	88	396	42	0	88	88	0	0	-992	151172	150180	7131.30
	Feb	47	0	53	6	15	586	586	44	-542	586	88	586	47	0	88	88	0	-15	-494	151234	150740	7131.47
	Mar	88	0	1123	1035	1242	1974	3216	1415	-560	1974	88	3216	88	2596	2684	2684	0	0	38	151322	151360	7131.66
	Apr	10039	20	21214	11195	13434	809	14243	897	88	809	83	14243	10019	49639	49722	14502	35220	0	-221	126121	125900	7123.36
	May	42312	85	44508	2281	2737	0	2737	325	1162	0	86	2737	42227	3031	3117	3117	0	857	-601	167491	166890	7136.24
	Jun	53789	108	54907	1226	1471	0	1471	102	1852	0	103	1471	53681	1699	1802	1802	0	1750	-932	219422	218490	7149.68
	Jul	33374	67	33620	313	769	0	769	-193	1202	0	117	769	33307	1605	1722	962	760	1395	-1124	250574	249450	7156.85
	Aug	4535	9	4700	174	428	0	428	-267	1424	0	122	428	4526	492	614	214	400	1690	-910	253010	252100	7157.44
	Sep	649	1	1075	427	513	0	513	-404	864	0	122	513	648	180	302	232	70	1268	-629	252319	251690	7157.35
	Oct	98	0	73	-25	0	122	122	-552	1169	0	122	122	98	365	487	117	370	1843	-624	250204	249580	7156.88
	Nov	47	0	24	-23	0	121	121	-760	-125	0	121	121	47	0	121	121	0	757	-624	249494	248870	7156.72
	Dec	52	0	36	-16	0	110	110	-684	174	0	110	110	52	67514	67624	114	67510	968	-628	181068	180440	7140.00
	Annual	145072	290	161420	16638	20720	4007	24712	-60	6462	3654	1249	24712	144782		128370	24040	104330	10514				
	Adjust.																		-350	-350 (A)			
	Total																		10164	-978	181418	180440	
	Reset																			-160	180600		
1976	Jan	52	0	34	-18	0	96	96	-196	-15	0	96	96	52	16154	16250	100	16150	278	-164	164224	164060	7135.43
	Feb	31	0	182	151	372	281	652	209	-72	281	93	652	31	0	93	93	0	0	395	164255	164650	7135.60
	Mar	252	1	1758	1507	1808	0	1808	147	210	0	93	1808	251	3213	3306	96	3210	63	2107	161233	163340	7135.22
	Apr	14864	30	15138	304	747	0	747	99	925	0	90	747	14834	30756	30846	3076	27770	826	-222	147472	147250	7130.39
	May	34277	69	34205	-3	0	93	93	-212	1044	0	93	93	34208	0	93	93	0	1348	-222	180332	180110	7139.91
	Jun	28316	57	28368	129	316	0	316	690	2346	0	103	316	28259	1767	1870	1000	870	1655	-906	206066	205160	7146.42
	Jul	3797	8	4268	479	574	0	574	343	1758	0	108	574	3789	1350	1458	848	610	1416	-1179	207829	206650	7146.79
	Aug	1165	2	1204	41	102	108	108	241	1253	0	108	108	1163	1395	1503	353	1150	1018	-1424	206824	205400	7146.48
	Sep	1449	3	1442	-4	0	108	108	216	412	0	108	108	1446	783	891	111	780	303	-1427	207187	205760	7146.57
	Oct	905	2	963	60	147	0	147	-637	824	0	108	147	903	401	509	109	400	1662	-1389	206029	204640	7146.29
	Nov	54	0	27	-27	0	107	107	-718	173	0	107	107	54	336	443	103	340	998	-1385	204745	203360	7145.97
	Dec	52	0	18	-34	0	99	99	-454	198	0	99	99	52	42721	42820	210	42610	751	-1496	161436	159940	7134.23
	Annual	85214	170	87827	2583	4066	892	4857	-473	9054	281	1207	4857	85044		100083	6193	93890	10318				
	Adjust.																		-350	-350 (A)			
	Total																		9968	-1846	161786	159940	
	Reset																			-370	160310		

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage										
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
1977	Jan	61	0	25	-36	0	341	341	151	-190	341	92	341	61	0	92	92	0	0	-121	160371	160250	7134.32
	Feb	67	0	61	-6	0	95	95	41	-54	95	92	95	87	0	92	92	0	0	-118	160438	160320	7134.34
	Mar	53	0	138	85	209	0	209	-284	-19	0	92	209	53	796	888	88	800	265	4	159426	159430	7134.08
	Apr	4538	9	4505	-24	0	92	92	-78	624	0	92	92	4529	795	887	237	650	794	-141	162511	162370	7134.94
	May	4184	8	4223	47	117	0	117	457	1223	0	93	117	4176	1434	1527	657	870	765	-681	165051	164370	7135.52
	Jun	2727	5	2711	-11	0	91	91	111	1522	0	91	91	2722	11229	11320	460	10860	1503	-1050	155410	154360	7132.57
	Jul	1217	2	1337	122	301	0	301	585	733	0	87	301	1215	12391	12478	1028	11450	148	-1777	145027	143250	7129.13
	Aug	3671	7	4053	389	467	0	467	514	1146	0	84	467	3684	5734	5818	688	5130	632	-1999	142929	140930	7126.39
	Sep	1873	4	1980	111	272	0	272	-67	878	0	82	272	1869	8464	8546	126	8420	945	-1853	135433	133580	7125.98
	Oct	876	2	945	71	174	0	174	-342	682	0	80	174	874	5765	5865	375	5490	1024	-2053	129793	127740	7124.00
	Nov	65	0	34	-31	0	78	78	-217	101	0	78	78	65	329	407	207	200	396	-2182	129262	127080	7123.77
	Dec	61	0	22	-39	0	75	75	-267	170	0	75	75	61	12940	13015	75	12940	511	-2182	115672	113690	7118.95
	Annual	19393	39	20034	680	1541	772	2313	605	6815	436	1038	2313	19354		60935	4125	56810	6982				
	Adjust.																		-350	-350 (A)			
	Total																		6632	-2532	116222	113690	
	Reset																			-420	114110		
1978	Jan	92	0	25	-67	0	430	430	115	-315	430	72	430	92	0	72	72	0	0	-62	114202	114140	7119.12
	Feb	55	0	44	-11	0	417	417	8	-409	417	72	417	55	0	72	72	0	0	283	114257	114540	7119.27
	Mar	1967	4	5414	3451	4141	3088	7229	2648	-440	3088	72	7229	1963	7960	8032	7562	470	0	-50	115750	115700	7119.70
	Apr	19351	39	19449	137	336	630	966	1522	892	630	76	966	19312	4942	5018	1848	3170	0	-932	131892	130960	7125.10
	May	30786	62	30062	-662	0	86	86	265	527	0	86	86	30724	1187	1273	1273	0	347	-2119	162269	160150	7134.29
	Jun	44680	89	44615	24	60	96	96	443	1797	0	96	96	44591	17120	17216	1076	16140	1391	-3099	189329	186230	7141.55
	Jul	7002	14	7216	228	561	0	561	81	2038	0	102	561	6988	360	462	402	60	1957	-2940	194300	191360	7142.90
	Aug	77	0	104	27	67	103	103	-184	1687	0	103	103	77	380	483	273	210	1867	-3110	192300	189190	7142.38
	Sep	40	0	78	38	94	102	102	-202	1115	0	102	102	40	2765	2867	197	2670	1325	-3205	188345	185140	7141.26
	Oct	26	0	64	38	94	101	101	-393	526	0	101	101	26	80	181	111	70	926	-3215	187375	184160	7141.00
	Nov	58	0	56	-2	0	100	100	-217	-148	0	100	100	58	298	398	98	300	170	-3213	186963	183750	7140.69
	Dec	17	0	13	-4	0	596	596	-328	-924	596	94	595	17	36219	36313	93	36220	0	-2710	150760	148050	7130.64
	Annual	104151	208	107140	3197	5352	5748	10786	3779	6327	5160	1075	10786	103943		72386	13076	59310	7982				
	Adjust.																		-350	-350 (A)			
	Total																		7632	-3060	151110	148050	
	Reset																			-420	148470		
1979	Jan	20	0	51	31	76	1051	1051	498	-553	1051	87	1051	20	0	87	87	0	-76	544	148566	149110	7130.97
	Feb	24	0	325	301	741	393	1134	97	-296	393	88	1134	24	0	88	88	0	0	1590	148590	150180	7131.30
	Mar	448	1	3312	2865	3438	3295	6732	3038	-257	3295	88	6732	447	8162	8250	8250	0	0	73	149037	149110	7130.97
	Apr	20265	41	30653	10429	12514	3264	15778	3540	276	3264	91	15778	20224	19712	19803	15883	3920	0	-32	165342	165310	7135.79
	May	48540	97	49720	1277	1532	641	2173	1044	403	641	102	2173	48443	2874	2976	2976	0	0	-835	213785	212950	7148.34
	Jun	57906	116	58101	311	765	0	765	324	1813	0	119	765	57790	467	586	586	0	1489	-656	270086	269430	7161.19
	Jul	31419	63	31542	186	457	0	457	16	2428	0	131	457	31356	341	472	412	60	2411	-611	298971	298360	7167.17
	Aug	5391	11	5530	150	368	0	368	-529	1554	0	135	368	5380	391	526	136	390	2082	-378	301878	301500	7167.80
	Sep	81	0	62	-19	0	135	135	-168	1590	0	135	135	81	1038	1173	443	730	1893	-686	299336	298650	7167.23
	Oct	19	0	23	4	10	135	135	-886	1115	0	135	135	19	814	949	139	810	2125	-690	296420	295730	7166.64
	Nov	12	0	11	-1	0	134	134	-776	-84	0	134	134	12	966	1100	130	970	826	-686	294636	293950	7166.28
	Dec	5	0	8	3	7	864	864	797	-67	864	127	864	5	51000	51127	727	50400	-7	-549	244249	243700	7155.56
	Annual	164130	328	179338	15536	19909	9911	29726	6996	7922	9507	1370	29726	163802		87135	29855	57280	10743				
	Adjust.																		-350	-350 (A)			
	Total																		10393	-899	244599	243700	
	Reset																			-110	243810		
1980	Jan	0	0	14	14	34	1285	1285	575	-710	1285	120	1285	0	0	120	120	0	-34	1056	243844	244900	7155.83
	Feb	0	0	108	108	266	1570	1836	1238	-332	1570	120	1836	0	2426	2546	2546	0	0	346	243844	244190	7155.67
	Mar	0	0	1333	1333	1600	2164	3763	2301	137	2164	119	3763	0	7644	7763	4483	3280	0	-374	240564	240190	7154.76
	Apr	17465	35	32045	14615	17538	3278	20816	4130	852	3278	121	20816	17430	21485	21606	21346	260	0	-905	257735	256830	7158.48
	May	44966	90	46850	1974	2369	0	2369	1292	1513	0	129	2369	44876	3574	3703	3703	0	221	-2239	302389	300150	7167.53
	Jun	59689	119	59315	-255	0	142	142	1554	2992	0	142	142	59570	2099	2241	2241	0	1581	-4338	360378	356040	7178.17
	Jul	17465	35	17669	239	586	0	586	27	2500	0	149	586	17430	15565	15714	784	14930	2474	-4535	360405	355870	7178.14
	Aug	2274	5	2701	432	518	0	518	-1110	1716	0	148	518	2269	8343	8491	151	8340	2826	-4168	351508	347340	7176.58
	Sep	1692	3	1795	106	262	0	262	-600	1196	0	147	262	1689	1167	1314	884	430	1796	-4790	350970	346180	7176.37
	Oct	44	0	60	16	40	147	147	-855	685	0	147	147	44	1196	1343	773	570	1648	-5416	346796	343380	7175.85
	Nov	14	0	11	-3	0	146	146	-599	349	0	146	146	14	0	146	146	0	1094	-5416	347716	342300	7175.65
	Dec	10	0	11	1	3	294	294	648	353	294	143	294	10	24614	24957	427	24530	-3	-5549	323199	317650	7170.98
	Annual	143619	287	161912	18580	23216	9027	32166	6599	11252	8592	1632	32166	143332		89945	37605	52340	11603				
	Adjust.																		-350	-350 (A)			
	Total																		11253	-5899	323549	317650	
	Resel																			0	317650		
1981	Jan	9	0	8	-1	0	139	139	-368	319	0	139	139	9	5183	5322	142	5180	826	-3	311653	311650	7169.81
	Feb	8	0	12	4	10	138	138	248	466	0	138	138	8	351	489	139	350	367	-4	310944	310940	7169.67
	Mar	9	0	55	46	113	138	138	467	422	46	138	138	9	950	1088	808	280	-21	-674	310694	310020	7169.49
	Apr	11012	22	10847	-143	0	139	139	422	1343	0	139	139	10990	950	1089	649	440	1060	-1184	320184	319000	7171.24
	May	17617	35	17699	117	288	0	288	322	1356	0	142	288	17582	2174	2316	1026	1290	1034	-1922	335442	333520	7174.01
	Jun	19494	39	19440	-15	0	146	146	1213	2638	0	146	146	19455	1785	1931	661	1270	1570	-2437	352057	349620	7177.00
	Jul	3637	8	3903	74	181	0	181	1474	1892	0	146	181	3629	14636	14782	1982	12800	418	-4238	342668	338430	7174.93
	Aug	943	2	1258	317	780	0	780	923	1214	0	144	780	941	12686	12830	1470	11360	291	-4928	331958	327030	7172.78
	Sep	961	2	1113	154	379	0	379	-580	1147	0	142	379	959	1989	2131	141	1990	1727	-4690	329200	324510	7172.30
	Oct	5	0	80	75	185	0	185	-898	278	0	141	185	5	1012	1153	143	1010	1276	-4649	326919	322270	7171.87
	Nov	1	0	14	13	32	141	141	-457	538	0	141	141	1	1077	1218	208	1010	1104	-4716	324606	320090	7171.45
	Dec	1	0	9	8	20	137	137	-49	295	0	137	137	1	25338	25476	376	25100	462	-4955	299245	294290	7166.34
	Annual	53697	108	54438	649	1987	978	2790	2618	11928	46	1693	2790	53789		69825	7745	62080	10114				
	Adjust.																		-350	-350 (A)			
	Total																		9764	-5305	299595	294290	
	Reset																			-390	294680		
1982	Jan	1	0	4	3	7	261	261	-253	-514	261	134	261	1	676	810	130	680	-7	-258	294008	293750	7166.24
	Feb	1	0	8	7	17	1306	1306	423	-882	1306	134	1306	1	0	134	134	0	-17	913	294027	294940	7166.48
	Mar	1	0	2920	2919	3503	3786	7289	3138	-649	3786	134	7289	1	6716	6850	6850	0	0	1352	294028	295380	7166.57
	Apr	21117	42	28223	7148	8578	996	9574	2637	1640	996	136	9574	21075	15973	16109	11969	4140	0	-1042	310962	309920	7169.47
	May	45559	91	45388	-80	0	143	143	702	1165	0	143	143	45468	1652	1795	1795	0	606	-2694	355824	353130	7177.64
	Jun	51418	103	51553	238	585	0	585	1185	2713	0	154	585	51315	2688	2842	2442	400	1528	-4551	405211	400660	7185.99
	Jul	5537	11	5913	387	464	0	464	643	1257	0	160	464	5526	5217	5377	1637	3740	614	-5723	406363	400660	7185.99
	Aug	1675	3	1855	183	451	160	611	119	73	46	160	611	1672	1529	1689	1289	400	114	-6401	407541	401140	7186.07
	Sep	1784	4	2261	481	577	0	577	-1397	201	0	160	577	1780	1599	1759	609	1150	1599	-6433	406573	400140	7185.90
	Oct	3868	8	3945	85	208	0	208	-1633	593	0	160	208	3860	1103	1263	523	740	2226	-6747	407467	400720	7186.00
	Nov	86	0	165	79	195	0	195	-906	-148	0	159	195	86	534	693	383	310	757	-6936	406486	399550	7185.80
	Dec	0	0	50	50	123	759	759	418	-341	759	150	759	0	79312	79462	1102	78360	-123	-7279	326249	320970	7171.62
	Annual	131047	262	142285	11500	14709	7411	21973	5076	5108	7154	1783	21973	130785		118782	28862	89920	7296				
	Adjust.																		-350	-350 (A)			
	Total																		6946	-7629	328599	320970	
	Reset																			-410	321380		

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage											
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
1983	Jan	0	0	17	17	42	149	149	5	-144	149	141	149	0	0	141	141	0	-42	-402	321422	321020	7171.63
	Feb	0	0	119	119	293	617	910	351	-266	617	141	910	0	199	340	260	80	0	246	321342	321590	7171.74
	Mar	0	0	4346	4346	5215	3296	8511	3149	-146	3296	141	8511	0	9090	9231	8801	430	0	-42	320912	320870	7171.60
	Apr	10973	22	16461	5510	6612	2166	8778	3163	997	2166	142	8778	10951	11697	11839	9809	2030	0	-1073	329833	328760	7173.11
	May	34440	69	34148	-223	0	799	799	2577	1779	799	147	799	34371	1803	1950	1950	0	0	-2224	364204	361980	7179.24
	Jun	52487	105	52156	-226	0	155	155	399	1506	0	155	155	52382	12730	12885	1445	11440	1262	-3514	403884	400370	7185.94
	Jul	27079	54	27882	857	1029	0	1029	370	2278	0	160	1029	27025	25926	26086	1746	24340	1908	-4231	404661	400430	7185.95
	Aug	5299	11	6583	1295	1554	0	1554	-1264	449	0	160	1554	5288	4679	4839	1289	3550	1713	-3966	404686	400720	7186.00
	Sep	26	0	52	26	64	159	159	-854	957	0	159	159	26	0	159	159	0	1906	-3968	402806	398840	7185.68
	Oct	14	0	106	92	226	0	226	-1531	237	0	159	226	14	774	933	523	410	1767	-4262	400642	396380	7185.26
	Nov	3	0	29	26	64	158	158	-1046	-776	0	158	158	3	6409	6567	827	5740	364	-4931	394541	389610	7184.10
	Dec	0	0	78	78	192	2040	2232	1243	-797	2040	155	2232	0	23667	23822	1882	21940	0	-4581	372601	368020	7180.32
	Annual	130321	261	141977	11917	15290	9538	24658	6562	6073	9065	1615	24658	130060		98789	28829	69960	8879				
	Adjust.																		-350	-350 (A)			
	Total																		8529	-4931	372951	368020	
	Reset																			0	368020		
1984	Jan	0	0	218	218	536	150	687	-44	-88	44	150	687	0	15040	15190	620	14570	106	66	353344	353410	7177.69
	Feb	0	0	215	215	529	967	1496	960	-7	967	146	1496	0	20340	20486	1426	19060	0	136	334284	334420	7174.18
	Mar	0	0	5772	5772	6926	3855	10782	3694	-161	3855	142	10782	0	28480	28622	10092	18530	0	826	315754	316580	7170.77
	Apr	15061	30	19706	4675	5610	0	5610	155	685	0	141	5610	15031	8700	8841	6811	2030	730	-375	328025	327650	7172.90
	May	47213	94	48104	985	1183	0	1183	748	2477	0	148	1183	47119	294	442	442	0	1729	366	373414	373780	7181.34
	Jun	38922	78	38851	7	17	157	157	823	1687	0	157	157	38844	10810	10967	157	10810	1204	366	400244	400610	7185.98
	Jul	5308	11	5615	318	781	0	781	-610	2060	0	160	781	5297	3190	3350	1210	2140	2669	-62	400732	400670	7185.99
	Aug	5248	10	5496	258	636	0	636	391	1585	0	160	636	5238	4410	4570	500	4070	1194	74	400706	400780	7186.01
	Sep	1847	4	1855	12	29	158	158	-346	1148	0	158	158	1843	15440	15598	958	14640	1623	-726	386286	385560	7183.40
	Oct	20	0	600	580	696	1179	1875	27	-1152	1179	156	1875	20	1329	1485	1335	150	0	-186	386156	385970	7183.47
	Nov	0	0	145	145	357	0	357	-573	422	0	155	357	0	10037	10192	1772	8420	995	-1601	376741	375140	7181.58
	Dec	0	0	183	183	450	509	959	359	-151	509	152	959	0	13297	13449	599	12850	0	-1241	363891	362650	7179.36
	Annual	113619	227	126760	13368	17750	6976	24680	5585	6905	6555	1625	24680	113392		133192	25922	107270	10251				
	Adjust.																		-350	-350 (A)			
	Total																		9901	-1591	364241	362650	
	Reset																			0	362650		
1985	Jan	0	0	178	178	438	788	1226	729	-59	788	149	1226	0	16447	16596	806	15790	0	420	346860	347280	7176.57
	Feb	0	0	643	643	772	1929	2701	1503	-426	1929	146	2701	0	15995	16141	2931	13210	0	190	333650	333840	7174.07
	Mar	0	0	12343	12343	14812	5732	20544	4860	-873	5732	142	20544	0	36332	36474	21534	14940	0	-800	318710	317910	7171.03
	Apr	37694	75	44732	7113	8538	2977	11513	3061	84	2977	145	11513	37619	11677	11822	8922	2900	0	1791	353429	355220	7178.02
	May	45031	90	47160	2239	2687	0	2687	-342	1440	0	154	2687	44941	4362	4516	4516	0	1782	-38	396588	396550	7185.29
	Jun	6407	13	6438	44	108	159	159	427	2243	0	159	159	6394	587	746	746	0	1867	-625	401115	400490	7185.96
	Jul	2613	5	2736	128	315	0	315	513	1504	0	160	315	2608	942	1102	1102	0	992	-1411	402731	401320	7186.10
	Aug	35	0	156	121	298	0	298	-371	1700	0	159	298	35	522	681	681	0	2071	-1794	400694	398900	7185.69
	Sep	0	0	70	70	172	0	172	-1009	354	0	159	172	0	0	159	159	0	1363	-1781	399331	397550	7185.46
	Oct		0	231	231	568	0	568	-205	-125	0	159	568	0	619	778	208	570	80	-1421	398661	397260	7185.41
	Nov		0	128	128	315	0	315	-678	-346	0	159	315	0	864	1043	1043	0	332	-2149	398349	396200	7185.23
	Dec		0	103	103	253	0	253	-472	112	0	158	253	0	861	1019	359	660	584	-2255	397105	394850	7185.00
	Annual	91780	184	114938	23342	29274	11585	40751	8014	5609	11426	1848	40751	91596		91076	43006	48070	9072				
	Adjust.																		-350	-350 (A)			
	Total																		8722	-2605	397455	394850	
	Reset																			-410	395260		
1986	Jan	0	0	176	176	433	0	433	44	377	0	156	433	0	3992	4050	160	3890	333	-137	391037	390900	7184.32
	Feb	0	0	1390	1390	1666	3393	5061	3142	-251	3393	155	5061	0	24566	24721	4951	19770	0	-27	371287	371240	7180.89
	Mar	1482	3	6077	4618	5542	2061	7603	2839	778	2061	151	7603	1459	27721	27872	8372	19500	0	-796	353226	352430	7177.51
	Apr	17768	36	22989	5257	6308	3012	9320	3088	76	3012	146	9320	17732	43226	43372	9712	33660	0	-1168	337298	336110	7174.49
	May	33368	67	34555	1254	1504	0	1504	-971	1377	0	148	1504	33301	0	148	148	0	2347	168	368252	368420	7180.39
	Jun	33509	67	35096	1654	1985	0	1985	-649	1218	0	156	1985	33442	1194	1350	1350	0	1867	803	399827	400630	7185.98
	Jul	1362	3	1734	375	450	0	450	-235	1056	0	159	450	1359	1009	1168	1168	0	1290	84	399896	399980	7185.87
	Aug	1696	3	1711	18	45	160	160	501	899	0	160	160	1693	0	160	160	0	513	84	401076	401160	7186.07
	Sep	12	0	423	411	493	225	719	39	-186	225	160	719	12	1521	1681	1681	0	0	-878	401088	400210	7185.91
	Oct	0	0	1272	1272	1528	1107	2633	837	-270	1107	159	2633	0	3184	3343	3153	190	0	-1398	400898	399500	7185.79
	Nov	0	0	2513	2513	3016	1002	4017	339	-663	1002	159	4017	0	3558	3717	3717	0	0	-1098	400898	399800	7185.84
	Dec	0	0	422	422	506	288	794	266	-21	288	158	794	0	13656	13814	1084	12730	0	-1388	388168	386780	7183.61
	Annual	89177	178	108356	19359	23476	11247	34678	9240	4388	11088	1869	34678	88999		125396	35858	89740	6351				
	Adjust.																		-350	-350 (A)			
	Total																		6001	-1738	388518	386780	
	Reset																			-410	387190		
1987	Jan	0	0	124	124	305	1197	1502	1198	1	1197	154	1502	0	20158	20312	1112	19200	0	-20	367990	367970	7180.31
	Feb	0	0	1122	1122	1346	2231	3578	2086	-145	2231	151	3578	0	15507	15658	3568	12090	0	-10	355900	355890	7178.14
	Mar	0	0	5103	5103	6124	3960	10083	4318	359	3960	148	10083	0	19555	19703	10553	9150	0	-480	346750	346270	7176.38
	Apr	16849	34	23891	7076	8491	2850	11341	3814	965	2850	146	11341	16815	37320	37466	12916	24550	0	-2055	339015	336960	7174.65
	May	22679	45	23376	742	891	0	891	432	697	0	147	891	22634	472	619	619	0	265	-1784	361384	359600	7178.61
	Jun	41951	84	43220	1353	1623	0	1623	-1274	1801	0	155	1623	41867	0	155	155	0	3076	-315	400175	399860	7185.85
	Jul	1566	3	1700	135	332	0	332	402	2321	0	159	332	1565	1119	1278	1278	0	1919	-1261	399821	398560	7185.63
	Aug	0	0	72	72	177	0	177	-28	1160	0	159	177	0	0	159	159	0	1188	-1243	398633	397390	7185.43
	Sep	0	0	15	15	37	159	159	-273	1715	0	159	159	0	0	159	159	0	2110	-1243	396523	395280	7185.07
	Oct	0	0	10	10	25	158	158	-773	854	0	158	158	0	0	158	158	0	1760	-1243	394763	393520	7184.77
	Nov	0	0	60	60	146	158	158	-458	-358	0	158	158	0	0	158	158	0	110	-1243	394653	393410	7184.75
	Dec	0	0	26	26	64	158	158	-683	-367	0	158	158	0	0	158	158	0	410	-1243	394243	393000	7184.68
	Annual	83047	166	98719	15838	19563	10870	30160	8762	9003	10238	1852	30160	82881		95983	30993	64990	10838				
	Adjust.																		-350	-350 (A)			
	Total																		10488	-1593	394593	393000	
	Reset																			-550	393550		
1988	Jan	0	0	46	46	113	505	505	21	-484	505	158	505	0	0	158	158	0	-113	-203	393663	393460	7184.76
	Feb	0	0	119	119	293	1118	1411	596	-522	1118	158	1411	0	3753	3911	961	2950	0	247	390713	390960	7184.33
	Mar	0	0	2305	2305	2766	1232	3998	1599	367	1232	157	3998	0	9231	9388	4788	4600	0	-543	386113	385570	7183.40
	Apr	8269	17	10229	1977	2372	330	2702	1079	749	330	152	2702	8252	50103	50255	2035	48220	0	124	346146	346270	7176.38
	May	21999	44	21963	8	20	149	149	707	1670	0	149	149	21955	512	661	661	0	1093	-388	367008	366620	7180.07
	Jun	23875	48	23671	-156	0	154	154	507	1300	0	154	154	23827	0	154	154	0	947	-388	389888	389500	7184.08
	Jul	4647	9	4659	21	52	157	157	664	1907	0	157	157	4638	280	417	217	200	1348	-448	392978	392530	7184.60
	Aug	3374	7	4079	712	854	506	1360	1023	517	506	158	1360	3367	999	1157	1137	20	0	-225	396325	396100	7185.21
	Sep	1363	3	1641	281	691	0	691	-1584	1017	0	158	691	1360	641	799	789	10	2801	-324	395074	394750	7184.98
	Oct	36	0	21	-15	0	158	158	-575	1103	0	158	158	36	10	168	158	10	1836	-324	393264	392940	7184.67
	Nov	0	0	15	15	37	156	156	-1094	156	0	156	156	0	14601	14757	157	14600	1369	-325	377295	376970	7181.90
	Dec	0	0	12	12	30	153	153	-1040	195	0	153	153	0	6232	6385	155	6230	1358	-327	369707	369380	7180.56
	Annual	63563	127	68760	5324	7227	4619	11594	1902	7974	3690	1869	11594	63436		88211	11371	76840	10439				
	Adjust.																		-350	-350 (A)			
	Total																		10089	-677	370057	369380	
	Reset																			-410	369790		

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage										
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
1989	Jan	0	0	7	7	17	152	152	-524	-425	0	152	152	0	2356	2508	148	2360	234	-406	367196	366790	7180.10
	Feb	0	0	36	36	89	795	795	239	-557	795	152	795	0	282	434	434	0	-89	-45	367285	367240	7180.18
	Mar	0	0	3782	3782	4538	461	5000	738	277	461	152	5000	0	6528	6680	4680	2000	0	275	365285	365560	7179.88
	Apr	11745	23	13107	1385	1663	0	1663	-1141	1879	0	152	1663	11722	6732	6884	2184	4700	3020	-246	369286	369040	7180.50
	May	20763	42	20767	26	63	154	154	361	2521	0	154	154	20741	0	154	154	0	2251	-246	367776	367530	7183.74
	Jun	11201	22	11211	32	60	158	158	572	2753	0	158	158	11179	0	158	158	0	2259	-246	396696	396450	7185.27
	Jul	2174	4	2301	131	323	0	323	270	2168	0	159	323	2170	26	185	165	20	1898	-87	396947	396860	7185.34
	Aug	2593	5	2752	164	404	0	404	330	1285	0	158	404	2588	6849	7007	597	6410	955	-281	392171	391890	7184.49
	Sep	41	0	29	-12	0	156	156	890	1745	0	156	156	41	16630	16786	156	16630	1011	-281	374571	374290	7181.43
	Oct	1589	3	1682	96	237	0	237	-1601	620	0	154	237	1586	8	162	152	10	2221	-196	373926	373730	7181.33
	Nov	0	0	24	24	59	153	153	-1076	700	0	153	153	0	0	153	153	0	1870	-196	372056	371860	7181.00
	Dec	0	0	3	3	7	153	153	-962	303	0	153	153	0	0	153	153	0	1410	-196	370646	370450	7180.75
	Annual	50126	100	55701	5675	7479	2183	9347	-1902	13270	1257	1852	9347	50026		41263	9133	32130	17040				
	Adjust.																		-350	-350 (A)			
	Total																		16690	-546	370996	370450	
	Reset																			-530	370980		
1990	Jan	0	0	1	1	2	153	153	-359	-60	0	153	153	0	0	153	153	0	450	-530	370530	370000	7180.67
	Feb	0	0	3	3	7	152	152	164	47	117	152	152	0	6593	6745	145	6600	27	-523	363903	363380	7179.49
	Mar	0	0	89	89	219	1657	1876	2088	430	1657	147	1876	0	31609	31756	426	31330	0	927	332573	333500	7174.00
	Apr	9861	20	10521	660	792	530	1322	947	418	530	143	1322	9861	18940	19083	2243	16640	0	6	325594	325600	7172.50
	May	25157	50	25728	621	746	0	746	-955	1550	0	145	746	25107	962	1107	727	380	2506	25	347815	347840	7176.67
	Jun	23790	48	23840	98	240	0	240	614	2687	0	150	240	23742	0	150	150	0	2073	115	369485	369600	7180.60
	Jul	4257	9	4804	356	875	0	875	-386	973	0	153	875	4248	621	774	724	50	1359	266	372324	372590	7181.13
	Aug	2369	5	2604	240	590	0	590	115	724	0	153	590	2364	32	185	165	20	609	690	374060	374750	7181.51
	Sep	4662	9	4840	187	461	0	461	-680	625	0	154	461	4653	754	908	898	10	1305	253	377397	377650	7182.02
	Oct	5349	11	5768	430	516	0	516	-1322	147	0	155	516	5338	0	155	145	10	1469	624	381256	381880	7182.76
	Nov	710	1	707	-2	0	155	155	-322	52	0	155	155	709	179	334	154	180	530	625	381255	381880	7182.76
	Dec	0	0	13	13	32	155	155	-1190	-1035	0	155	155	0	1212	1367	157	1210	278	623	379767	380390	7182.50
	Annual	76175	152	78718	2695	4479	2802	7239	-1286	6558	2305	1815	7239	76023		62717	6087	56630	10605				
	Adjust.																		-350	-350 (A)			
	Total																		10255	273	380117	380390	
	Reset																			-200	380590		
1991	Jan	0	0	36	36	89	300	300	149	-151	300	154	300*	0	4564	4718	218	4500	-89	-119	376179	376060	7181.74
	Feb	0	0	191	191	470	476	946	691	215	476	153	946	0	9053	9206	296	8910	0	531	367269	367800	7180.28
	Mar	250	1	4346	4097	4916	2810	7726	2953	142	2810	149	7726	250	30276	30425	5645	24780	0	2612	342738	345350	7176.21
	Apr	27021	54	31736	4769	5723	1247	6970	2635	1388	1247	144	6970	26967	58493	58637	9137	49500	0	445	320205	320650	7171.55
	May	42647	85	41874	-688	0	146	146	1544	1819	0	146	146	42562	301	447	447	0	421	144	362346	362490	7179.33
	Jun	35645	71	35350	-224	0	155	155	1413	1761	0	155	155	35574	0	155	155	0	504	144	397416	397560	7185.46
	Jul	5699	11	6351	663	796	0	796	-84	1772	0	159	796	5688	988	1147	1147	0	1856	-207	401247	401040	7186.05
	Aug	1031	2	1303	274	674	0	674	125	1516	0	160	674	1029	1392	1552	822	730	1392	-355	400155	399800	7185.84
	Sep	1076	2	1659	585	702	0	702	-667	770	0	159	702	1074	0	159	159	0	1437	188	399792	399980	7185.87
	Oct	20	0	71	51	126	159	159	-865	772	0	159	159	20	0	159	159	0	1670	188	398142	398330	7185.59
	Nov	0	0	79	79	194	159	353	-488	-529	42	159	353	0	1307	1466	206	1260	117	336	396764	397100	7185.36
	Dec	0	0	33	33	81	278	278	-153	-431	278	158	278	0	2961	3119	239	2880	-81	374	393966	394340	7184.91
	Annual	113389	227	123029	9867	13771	5730	19205	7253	9045	5153	1856	19205	113162		111191	18631	92560	7227				
	Adjust.																		-350	-350 (A)			
	Total																		6877	24	394316	394340	
	Reset																			10	394330		
1992	Jan	0	0	31	31	76	158	158	-442	-4	0	158	158	0	0	158	158	0	520	10	393810	393820	7184.82
	Feb	0	0	116	116	285	333	618	316	-17	333	158	618	0	0	158	158	0	0	470	393810	394280	7184.90
	Mar	820	2	7420	6602	7922	1612	9534	1370	-242	1612	157	9534	818	18845	19002	8922	10080	0	1082	384548	385630	7183.41
	Apr	27880	56	31361	3537	4244	1215	5459	2486	1271	1215	152	5459	27824	68681	68833	5973	62860	0	567	349513	350080	7177.08
	May	44702	89	43030	-1583	0	1791	1791	2107	317	1791	153	1791	44613	530	663	663	0	0	1675	394125	395800	7185.16
	Jun	9334	19	9908	593	711	0	711	-480	2185	0	159	711	9315	2323	2482	2482	0	2665	-96	400776	400680	7185.99
	Jul	2870	6	2874	10	24	160	160	-2	1380	0	160	160	2864	1876	2036	266	1770	1518	-202	400352	400150	7185.90
	Aug	1311	3	1622	314	772	0	772	-476	631	0	159	772	1308	2041	2200	390	1810	1110	179	398741	398920	7185.69
	Sep	147	0	240	93	230	0	230	-946	1451	0	157	230	147	13992	14149	459	13690	2397	-51	382801	382750	7182.91
	Oct	0	0	39	39	96	155	155	-892	999	0	155	155	0	0	155	155	0	1950	-51	380851	380800	7182.57
	Nov	0	0	31	31	76	155	155	-1277	-170	0	155	155	0	534	689	169	520	1186	-65	379145	379080	7182.27
	Dec	0	0	8	8	20	439	439	-374	-813	439	155	439	0	534	689	159	530	-20	216	378634	378850	7182.23
	Annual	87064	174	96680	9790	14456	6017	20180	1389	6990	5389	1879	20180	86890		111235	19975	91260	11326				
	Adjust.																		-350	-350 (A)			
	Total																		10976	-134	378984	378850	
	Reset																			-110	378960		
1993	Jan	0	0	107	107	263	922	1185	142	-779	922	155	1185	0	0	155	155	0	0	920	378960	379880	7182.41
	Feb	0	0	343	343	844	1718	2562	1126	-593	1718	155	2562	0	1317	1472	1472	0	0	2010	378960	380970	7182.60
	Mar	0	0	11260	11260	13512	6822	20334	7437	615	6822	150	20334	0	64194	64344	18504	45840	0	3840	333120	336960	7174.65
	Apr	7432	15	17582	10165	12198	874	13072	2087	1213	874	142	13072	7417	38627	38769	18019	20750	0	-1107	319787	318680	7171.17
	May	46174	92	45069	-1013	0	1164	1164	1985	821	1164	146	1164	46082	0	146	146	0	0	-89	365689	365780	7179.92
	Jun	37050	74	36241	-735	0	156	156	131	2342	0	156	156	36976	0	156	156	0	2366	-89	400479	400390	7185.94
	Jul	3051	6	2985	-60	0	159	159	557	3196	0	159	159	3045	3427	3586	166	3420	2798	-96	397306	397210	7185.40
	Aug	3430	7	3236	-187	0	945	945	1442	496	945	158	945	3423	8600	8758	158	8600	0	691	392129	392820	7184.65
	Sep	1670	3	1870	203	500	0	500	-990	1235	0	158	500	1667	2464	2622	1132	1490	2225	60	390080	390140	7184.19
	Oct	6	0	6	0	0	157	157	-613	196	0	157	157	6	0	157	157	0	1166	60	388920	388980	7183.99
	Nov	0	0	75	75	185	0	185	-640	-273	0	157	185	0	0	157	157	0	368	87	388553	388640	7183.93
	Dec	0	0	24	24	59	157	157	-597	125	0	157	157	0	0	157	157	0	820	67	387733	387820	7183.79
	Annual	98813	198	118798	20183	27561	13074	40576	11887	8595	12445	1849	40576	98615		120478	40378	80100	9743				
	Adjust.																		-350	-350 (A)			
	Total																		9393	-263	388083	387820	
	Reset																			-220	388040		
1994	Jan	0	0	16	16	39	165	165	302	136	165	156	165	0	7529	7685	165	7520	-39	-219	380559	380340	7182.49
	Feb	0	0	28	28	69	2094	2094	1311	-783	2094	154	2094	0	13089	13243	153	13090	-69	1722	367538	369260	7180.54
	Mar	0	0	9780	9780	11736	2428	14164	2710	282	2428	151	14164	0	27763	27914	15484	12430	0	402	355108	355510	7178.07
	Apr	21061	42	24056	3037	3645	3134	6779	3301	167	3134	148	6779	21019	38730	38878	4148	34730	0	3033	341397	344430	7176.04
	May	46046	96	45670	-2280	0	882	882	1545	663	882	152	882	47950	0	152	152	0	0	3763	369347	393110	7184.70
	Jun	12310	25	11909	-376	0	159	159	459	2258	0	159	159	12285	3878	4037	4037	0	1957	-115	399675	399560	7185.60
	Jul	777	2	835	60	147	159	159	-8	2285	0	159	159	775	0	159	159	0	2305	-115	398145	398030	7185.54
	Aug	0	0	60	60	148	159	159	6	1304	0	159	159	0	210	369	369	0	1310	-325	396835	396510	7185.28
	Sep	0	0	40	40	98	158	158	-920	377	0	158	158	0	873	1031	131	900	1357	-298	394578	394280	7184.90
	Oct	0	0	43	43	106	158	158	-1041	277	0	158	158	0	260	418	158	260	1370	-298	392948	392650	7184.62
	Nov	0	0	143	143	352	0	352	-970	-656	0	158	352	0	0	158	158	0	314	-104	392634	392530	7184.60
	Dec	0	0	99	99	244	274	517	434	160	274	157	517	0	3330	3487	157	3330	0	256	389304	389560	7184.09
	Annual	82194	164	92679	10649	16582	9771	25746	7127	6469	8978	1868	25746	82030		97530	25270	72260	8506				
	Adjust.																		-350	-350 (A)			
	Total																		8156	-94	389654	389560	
	Reset																			-430	389990		

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage										
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
1995	Jan	0	0	14	14	34	823	823	204	-619	823	157	823	0	0	157	157	0	-34	236	390024	390260	7184.21
	Feb	0	0	3466	3466	4159	1189	5348	1430	241	1189	158	5348	0	0	158	158	0	0	5426	390024	395450	7185.10
	Mar	0	0	10046	10046	12055	7544	19599	7285	-259	7544	153	19599	0	63456	63609	18359	45250	0	6666	344774	351440	7177.33
	Apr	10009	20	14045	4056	4867	999	5866	1351	352	999	145	5866	9989	41820	41965	13545	28420	0	-1013	326343	325330	7172.45
	May	36096	72	36149	125	308	1896	2204	2756	859	1896	146	2204	36024	2432	2576	2576	0	0	-1387	362367	360980	7179.06
	Jun	37205	74	38635	1504	1805	0	1805	1093	2114	0	155	1805	37131	0	155	155	0	1021	263	398477	398740	7185.66
	Jul	1900	4	2530	634	761	0	761	108	2366	0	159	761	1896	0	159	159	0	2258	865	398115	398980	7185.70
	Aug	1059	2	1413	356	876	0	876	-180	1173	0	159	876	1057	5411	5570	1270	4300	1353	471	393519	393990	7184.85
	Sep	0	0	38	38	93	157	157	-1380	722	0	157	157	0	3074	3231	191	3040	2166	437	388313	388750	7183.95
	Oct	0	0	44	44	108	157	157	-1323	1176	0	157	157	0	0	157	157	0	2550	437	385763	386200	7183.51
	Nov	0	0	30	30	74	155	155	-77	430	0	155	155	0	8071	8226	446	7780	589	146	377394	377540	7182.00
	Dec	0	0	12	12	30	154	154	-487	249	0	154	154	0	0	154	154	0	860	146	376534	376680	7181.65
	Annual	86269	173	106422	20326	25171	13074	37906	10760	8608	12451	1856	37906	86096		126120	37330	88790	10763				
	Adjust.																		-350	-350 (A)			
	Total																		10413	-204	376884	376680	
	Reset																			-190	376870		
1996	Jan	0	0	7	7	17	154	154	-1261	-153	0	154	154	0	1595	1749	229	1520	1245	-265	374105	373840	7181.35
	Feb	0	0	91	91	224	0	224	-36	-22	0	153	224	0	117	270	200	70	13	-242	374022	373780	7181.34
	Mar	1396	3	1570	177	435	0	435	366	538	0	152	435	1393	12514	12666	146	12520	172	47	362723	362770	7179.38
	Apr	16372	33	16638	299	735	0	735	-627	1542	0	148	735	16339	40408	40556	486	40070	2168	296	336824	337120	7174.68
	May	30764	62	30887	185	454	0	454	629	2697	0	146	454	30702	0	148	148	0	2068	602	365458	366060	7179.97
	Jun	5818	12	6101	295	725	151	876	1997	1984	13	151	876	5806	8573	8724	1454	7270	138	24	363856	363880	7179.58
	Jul	2614	5	3137	528	634	1207	1840	2586	1360	1207	149	1840	2609	21150	21299	1839	19460	0	25	347005	347030	7176.52
	Aug	66	0	205	139	342	0	342	-325	1147	0	147	342	66	3120	3267	307	2960	1472	61	342639	342700	7175.72
	Sep	206	0	336	130	321	0	321	-156	933	0	145	321	206	6643	6988	388	6600	1088	-7	335157	335150	7174.31
	Oct	271	1	278	8	19	143	143	311	426	0	143	143	270	13912	14055	145	13910	238	-9	321279	321270	7171.67
	Nov	989	2	827	-160	0	1626	1626	1161	-465	1626	140	1626	987	9023	9163	1593	7570	0	24	314696	314720	7170.40
	Dec	32	0	33	1	3	1207	1207	1152	-55	1207	138	1207	32	9904	10042	1152	8890	-3	80	305840	305920	7166.67
	Annual	58528	117	60110	1699	3908	4488	8357	5799	9951	4053	1768	8357	58411		126927	8087	120840	8601				
	Adjust.																		-350	-350 (A)			
	Total																		8251	-270	306190	305920	
	Reset																			-280	306200		
1997	Jan	346	1	307	-38	0	2785	2785	1730	-1055	2785	138	2785	345	9223	9358	2506	6854	0	0	299691	299691	7167.43
	Feb	76	0	303	227	559	1477	2036	1319	-158	1477	134	2036	76	8331	8465	2022	6443	0	13	293324	293337	7166.15
	Mar	9301	19	15096	5814	6976	3417	10394	4287	870	3417	133	10394	9282	22790	22923	10369	12554	0	37	290053	290090	7165.49
	Apr	13886	28	16047	2187	2624	938	3563	1358	419	938	130	3563	13860	38113	38243	3489	34754	0	111	269159	269270	7161.16
	May	43716	87	42094	-1535	0	1223	1223	2070	847	1223	133	1223	43629	1269	1402	1402	0	0	-67	312787	312720	7170.01
	Jun	48431	97	46561	-1773	0	144	144	1261	1853	0	144	144	48334	0	144	144	0	736	-67	360385	360318	7178.94
	Jul	11633	23	11175	-435	0	970	970	2429	1459	970	151	970	11610	8666	9017	898	8119	0	5	363876	363881	7179.58
	Aug	9108	18	9549	459	551	0	551	440	1000	0	151	551	9090	11883	12034	545	11489	559	11	360918	360929	7179.05
	Sep	3406	7	3374	-25	0	150	150	-65	688	0	150	150	3399	7037	7187	150	7037	902	11	356378	356389	7178.23
	Oct	2350	5	2122	-223	0	149	149	-948	460	0	149	149	2345	71	220	149	71	1557	11	357095	357106	7178.36
	Nov	0	0	0	0	0	149	149	-133	56	0	149	149	0	3570	3719	149	3570	338	11	353187	353198	7177.65
	Dec	0	0	0	0	0	148	148	-430	-329	0	148	148	0	3689	3837	148	3689	249	11	349249	349260	7176.93
	Annual	142255	285	146628	4658	10710	11552	22262	13317	6107	10811	1709	22262	141970		116551	21971	94580	4342				
	Adjust.																		-350	-350 (A)			
	Total																		3992	-339	349599	349260	
	Reset																			-346	349606		
1998	Jan	0	0	0	0	0	147	147	67	-19	86	147	147	0	3689	3836	147	3689	61	-346	345856	345510	7176.24
	Feb	0	0	0	0	0	452	452	249	-204	452	146	452	0	3332	3478	146	3332	0	-40	342524	342484	7175.68
	Mar	2329	5	5006	2662	3218	2361	5579	2734	374	2361	144	5579	2324	23024	23168	5531	17637	0	8	327211	327219	7172.81
	Apr	11516	23	12256	763	916	2824	3739	3659	836	2824	140	3739	11493	31833	31973	3004	28969	0	743	309735	310478	7169.57
	May	41822	84	38008	-3730	0	698	698	2591	1893	698	142	698	41738	7262	7404	999	6405	0	441	345069	345510	7176.24
	Jun	26598	57	26277	-2264	0	150	150	635	2866	0	150	150	26541	131	281	281	0	2401	310	371209	371519	7180.94
	Jul	8846	18	8420	-408	0	2685	2685	4099	1414	2685	153	2685	8828	9549	9702	2986	6716	0	9	373321	373330	7181.26
	Aug	1668	3	1375	-290	0	153	153	467	1036	0	153	153	1665	4671	4824	156	4668	723	6	369595	369601	7180.60
	Sep	153	0	147	-6	0	151	151	-2424	1382	0	151	151	153	11336	11487	542	10945	3957	-385	354846	354461	7177.88
	Oct	200	0	647	447	537	0	537	-608	-220	0	147	537	200	12232	12379	152	12227	368	-1	342431	342430	7175.67
	Nov	1188	2	1156	-30	0	3532	3532	3331	-202	3532	144	3532	1186	19994	20138	4110	16028	0	-578	327588	327010	7172.77
	Dec	381	1	403	23	56	1651	1651	1916	266	1651	140	1651	380	20511	20651	1065	19586	-56	8	308438	308446	7169.17
	Annual	96701	193	93695	-2813	4727	14803	19474	16715	9440	14289	1758	19474	96508		149322	19120	130202	7473				
	Adjust.																		-350	-350 (A)			
	Total																		7123	-342	308788	308446	
	Reset																			-337	308783		
1999	Jan	0	0	0	0	0	280	280	469	189	280	138	280	0	10146	10282	145	10137	0	-202	298646	298444	7167.18
	Feb	0	0	0	0	0	355	355	798	443	355	134	355	0	9164	9298	142	9156	0	11	289490	289501	7165.37
	Mar	4151	8	4784	641	770	297	1066	1206	910	297	132	1066	4143	7619	7751	1112	6639	0	-35	289994	289959	7164.85
	Apr	12516	25	13230	739	887	0	887	35	319	0	134	887	12491	278	412	412	0	284	441	299200	299641	7167.42
	May	32807	66	30421	-2320	0	214	214	1725	1511	214	139	214	32741	601	740	740	0	0	-86	331942	331856	7173.69
	Jun	39662	79	36377	-3206	0	148	148	2121	2342	0	148	148	39583	397	545	545	0	370	-483	371155	370672	7180.79
	Jul	12734	25	12329	-380	0	154	154	1125	1261	0	154	154	12709	0	154	154	0	290	-483	383574	383091	7182.97
	Aug	13020	26	13662	668	802	0	802	-1057	503	0	157	802	12994	0	157	157	0	1570	162	394998	395160	7185.05
	Sep	4015	8	3969	-38	0	158	158	-377	795	0	158	158	4007	1388	1546	236	1310	1330	84	396365	396449	7185.27
	Oct	0	0	0	0	0	158	158	-563	1464	0	158	158	0	682	840	158	682	2166	84	393497	393581	7184.78
	Nov	0	0	0	0	0	157	157	-513	756	0	157	157	0	5951	6108	252	5856	1426	-11	386215	386204	7183.51
	Dec	0	0	0	0	0	156	156	-1142	366	0	156	156	0	4604	4760	360	4400	1664	-215	380151	379936	7182.42
	Annual	118905	238	114772	-3695	2458	2077	4536	3818	10859	1146	1764	4536	118667		42594	4414	38180	9119				
	Adjust.																		-350	-350 (A)			
	Total																		8769	-565	380501	379936	
	Reset																			-375	380311		
2000	Jan	0	0	0	0	0	154	154	-537	-226	0	154	154	0	3074	3228	159	3069	465	-380	376777	376397	7181.80
	Feb	0	0	0	0	0	154	154	7	442	0	154	154	0	2876	3030	159	2871	588	-385	373318	372933	7181.19
	Mar	536	1	728	193	475	4335	4810	4474	139	4335	150	4810	535	30447	30597	143	30454	0	4282	343399	347681	7176.64
	Apr	15864	32	17401	1569	1882	347	2230	2062	1715	347	146	2230	15832	27569	27715	7815	19900	0	-1303	339331	338028	7174.85
	May	20989	42	20926	-21	0	146	146	1755	2603	0	146	146	20947	10626	10772	347	10425	994	-1504	349859	347355	7176.58
	Jun	5017	10	5148	141	347	0	347	710	2629	0	146	347	5007	16029	16175	147	16028	1919	-1304	335919	334615	7174.21
	Jul	106	0	109	3	8	143	143	470	2581	0	143	143	106	2888	3031	142	2889	2247	-1303	330889	329586	7173.26
	Aug	228	0	127	-101	0	141	141	1797	2161	0	141	141	228	13904	14045	138	13907	526	-1300	316684	315384	7170.53
	Sep	0	0	0	0	0	135	135	1082	2095	0	135	135	0	27910	28045	146	27899	1148	-1311	267637	266326	7164.72
	Oct	0	0	0	0	0	131	131	-1798	8	0	131	131	0	3733	3864	135	3729	1936	-1315	281972	280657	7163.55
	Nov	0	0	117	117	288	1202	1490	1065	-137	1202	129	1490	0	8918	9047	129	8918	0	46	273054	273100	7161.97
	Dec	0	0	115	115	283	337	620	496	159	337	127	620	0	6204	6331	123	6208	0	543	266846	267389	7160.76
	Annual	42740	85	44671	2016	3283	7228	10503	11583	14186	6222	1704	10503	42655		155882	9585	146297	9823				
	Adjust.																		-350	-350 (A)			
	Total																		9473	193	267196	267389	
	Reset																			208	267181		

Table F-12. Monthly Water Accounting and Administration for Historic Operation of Heron Reservoir Based on Current San Juan-Chama Project Water Accounting Procedures

Part B. Heron Reservoir Apparent Inflow, Gains, Releases and Storage
(Units: Acre-Feet)

		Table 1. Apparent Inflow to Heron Reservoir							Table 2. San Juan-Chama Gains in Excess of Losses on Heron Reservoir				Table 3. Heron Reservoir Monthly Water Storage										
													Reservoir Inflow			Reservoir Outflow				End-of-Month Content			
Year	Month	Azotea Tunnel Outlet 1(1)	Computed Channel Loss 1(2)	Willow Creek above Heron Reservoir 1(3)	Tributary Inflow above Heron Reservoir 1(4)	Computed Inflow to Heron Reservoir 1(5)	Tributary Inflow within Heron Reservoir 1(6)	Computed Natural Flow at Heron Reservoir 1(7)	EOM Gain on Reservoir 2(1)	Net Evap on Reservoir 2(2)	Net EOM Gain on Reservoir 2(3)	EOM Seepage on Reservoir 2(4)	Rio Grande 3(1)	San Juan-Chama 3(2)	Willow Creek below Heron Reservoir 3(A)	Total 3(B)	Rio Grande 3(3)	San Juan-Chama 3(4)	San Juan-Chama Loss 3(5)	Rio Grande 3(6)	San Juan-Chama 3(7)	Total 3(8)	EOM Elevation (feet) 3(9)
2001	Jan	0	0	0	0	0	688	688	302	-386	688	126	688	0	1313	1439	127	1312	0	769	265869	266638	7160.60
	Feb	0	0	0	0	0	1947	1947	1946	0	1947	126	1947	0	5554	5680	126	5554	0	2590	260315	262905	7159.80
	Mar	1515	3	6808	5296	6355	3216	9571	3294	78	3216	125	9571	1512	10632	10757	4608	6149	0	7553	255678	263231	7159.67
	Apr	19290	39	23584	4333	5199	1786	6985	2710	925	1786	125	6985	19251	27830	27955	11825	16130	0	2713	258799	261512	7159.50
	May	51079	102	48661	-2316	0	131	131	1411	1575	0	131	131	50977	3443	3574	2991	583	296	-147	308897	308750	7169.23
	Jun	29278	59	28326	-893	0	141	141	805	2848	0	141	141	29219	0	141	141	0	2183	-147	335933	335786	7174.43
	Jul	4644	9	4534	-101	0	145	145	755	1558	0	145	145	4635	0	145	145	0	948	-147	339620	339473	7175.12
	Aug	4457	9	4305	-143	0	146	146	-123	1330	0	146	146	4448	0	146	146	0	1599	-147	342469	342322	7175.65
	Sep	313	1	241	-71	0	146	146	-19	2138	0	146	146	312	0	146	146	0	2302	-147	340479	340332	7175.28
	Oct	0	0	0	0	0	145	145	-212	1208	0	145	145	0	1968	2113	145	1968	1565	-147	336946	336799	7174.82
	Nov	0	0	0	0	0	142	142	-84	103	0	142	142	0	23802	23944	142	23802	328	-147	312816	312669	7170.00
	Dec	0	0	0	0	0	491	491	426	-65	491	136	491	0	21608	21744	135	21609	0	209	291207	291416	7165.76
	Annual	110576	221	116459	6104	11554	9123	20677	11212	11311	8127	1633	20677	110355		97783	20676	77107	9221				
	Adjust.																		-350	-350 (A)			
	Total																		8871	-141	291557	291416	
	Reset																			-135	291551		
2002	Jan	0	0	0	0	0	131	131	57	127	0	131	131	0	11375	11506	141	11365	202	-145	279984	279839	7163.38
	Feb	0	0	0	0	0	128	128	366	307	59	128	128	0	11018	11146	128	11018	69	-145	268897	268752	7161.05
	Mar	745	1	580	-164	0	150	150	815	666	150	125	150	744	12298	12423	124	12299	0	-120	257342	257222	7158.57
	Apr	4495	9	4114	-372	0	122	122	942	1561	0	122	122	4486	13236	13358	122	13236	742	-120	247850	247730	7156.48
	May	862	2	662	-198	0	121	121	583	2567	0	121	121	860	682	803	121	682	2104	-120	245924	245804	7156.05
	Jun	205	0	187	-18	0	115	115	-219	2815	0	115	115	205	29572	29667	116	29571	3149	-121	213409	213288	7148.47
	Jul	0	0	0	0	0	105	105	450	1631	0	105	105	0	28745	28850	106	28744	1286	-122	183379	183257	7140.82
	Aug	0	0	0	0	0	98	98	335	1543	0	98	98	0	12657	12755	98	12657	1306	-122	169416	169294	7138.99
	Sep	0	0	0	0	0	369	369	536	167	369	95	369	0	1936	2031	412	1619	0	-165	167797	167632	7136.52
	Oct	0	0	0	0	0	94	94	-97	220	0	94	94	0	2460	2554	95	2459	411	-166	164927	164761	7135.70
	Nov	0	0	0	0	0	222	222	278	56	222	93	222	0	2380	2473	93	2380	0	-37	162547	162510	7135.05
	Dec	0	0	0	0	0	92	92	-24	-56	31	92	92	0	1690	1782	93	1689	61	-38	160797	160759	7134.54
	Annual	6307	13	5543	-751	0	1748	1748	4023	11605	832	1321	1748	6294		129370	1651	127719	9330				
	Adjust.																		-350	-350 (A)			
	Total																		8980	-388	161147	160759	
	Reset																			-382	161141		
2003	Jan	0	0	0	0	0	92	92	303	279	24	92	92	0	922	1014	92	922	88	-382	160151	159769	7134.25
	Feb	0	0	0	0	0	925	925	721	-204	925	92	925	0	833	925	92	833	0	451	159318	159769	7134.25
	Mar	1167	2	3134	1969	2363	1485	3849	1982	496	1485	91	3849	1165	7091	7182	4291	2891	0	8	157592	157600	7133.61
	Apr	11363	23	12696	1358	1627	0	1627	-368	939	0	92	1627	11340	7930	8022	1757	6265	1308	-121	161359	161238	7134.88
	May	26615	53	26216	-346	0	96	96	456	1399	0	96	96	26562	3055	3151	97	3054	1039	-122	183828	183706	7140.94
	Jun	18817	38	18855	76	186	0	186	804	2138	0	102	186	18779	10550	10652	103	10549	1335	-39	190724	190685	7142.78
	Jul	673	1	641	-31	0	97	97	53	2008	0	97	97	672	31974	32071	100	31971	2052	-42	157373	157331	7133.53
	Aug	487	1	469	-17	0	87	87	474	744	0	87	87	486	19539	19626	87	19539	356	-42	137964	137922	7127.49
	Sep	3339	7	3430	98	240	837	1077	1307	470	837	83	1077	3332	4633	4716	1503	3213	0	-467	138083	137616	7127.39
	Oct	247	0	222	-25	0	82	82	-33	512	0	82	82	247	4066	4148	81	4067	627	-466	133636	133170	7125.92
	Nov	0	0	0	0	0	668	668	611	-58	668	79	668	0	6645	6724	251	6473	0	-49	127163	127114	7123.86
	Dec	0	0	0	0	0	1001	1001	1107	106	1001	77	1001	0	4810	4887	586	4301	0	366	122862	123228	7122.50
	Annual	62708	125	65663	3080	4416	5370	9787	7416	8830	4941	1069	9787	62583		103117	9039	94078	6783				
	Adjust.																		-350	-350 (A)			
	Total																		6433	16	123212	123228	
	Reset																			5	123223		
2004	Jan	0	0	0	0	0	73	73	-47	-88	40	73	73	0	12060	12133	74	12059	33	4	111131	111135	7116.05
	Feb	0	0	0	0	0	452	452	124	-327	452	67	452	0	13996	14063	453	13610	0	3	97521	97524	7112.54
	Mar	11506	23	14386	2883	3460	0	3460	24	236	0	62	3460	11483	17750	17812	3460	14352	211	2	94441	94443	7111.20
	Apr	15424	31	16183	790	948	0	948	-155	269	0	59	948	15393	25361	25440	943	24497	424	8	84912	84920	7106.79
	May	30161	60	29235	-866	0	61	61	-464	1174	0	61	61	30101	10594	10655	61	10594	1699	8	102720	102728	7114.72
	Jun	20390	41	20868	519	623	0	623	-223	1473	0	71	623	20349	0	71	71	0	1696	559	121374	121933	7122.04
	Jul	2136	4	2477	343	844	0	844	113	1268	0	75	844	2134	4334	4409	1396	3013	1155	8	119339	119347	7121.11
	Aug	236	0	237	1	4	74	74	47	1261	0	74	74	236	1523	1597	73	1524	1284	9	116767	116776	7120.17
	Sep	1970	4	1960	-6	0	72	72	-435	739	0	72	72	1966	4760	4832	72	4760	1247	9	112726	112735	7118.66
	Oct	1823	4	1732	-87	0	71	71	-52	248	0	71	71	1819	1025	1096	71	1025	371	9	113149	113158	7118.82
	Nov	1217	2	1117	-98	0	71	71	-109	233	0	71	71	1215	1567	1638	71	1567	413	9	112384	112393	7118.53
	Dec	12	0	4	-8	0	71	71	69	55	14	71	71	12	1343	1414	71	1343	57	9	110996	111005	7118.00
	Annual	84877	170	88179	3472	5878	945	6820	-1107	6541	506	827	6820	84707		95160	6816	88344	8590				
	Adjust.																		-350	-350 (A)			
	Total																		8240	-341	111346	111005	
	Reset																			-361	111366		
2005	Jan	0	0	0	0	0	1791	1791	1462	-330	1791	70	1791	0	1513	1583	156	1427	0	1274	109939	111213	7118.08
	Feb	93	0	253	160	394	3643	4037	3320	-323	3643	69	4037	93	7892	7961	5311	2650	0	-1	107362	107361	7116.59
	Mar	1928	4	3247	1323	1587	1322	2910	1592	269	1322	69	2910	1924	2747	2816	2615	201	0	294	109105	109399	7117.36
	Apr	31720	63	36131	4474	5369	280	5649	728	448	280	76	5649	31657	9777	9853	3422	6431	0	2521	134331	136852	7127.14
	May	45142	90	46582	1530	1836	1551	3387	2686	1135	1551	91	3387	45052	5439	5530	5530	0	0	379	179382	179761	7139.68
	Jun	50208	100	47967	-2141	0	107	107	910	1941	0	107	107	50108	0	107	107	0	1138	379	228352	228731	7152.15
	Jul	13347	27	13710	390	468	0	468	600	2584	0	116	468	13320	7769	7885	916	6969	1984	-69	232719	232650	7153.06
	Aug	3779	8	4956	1185	1421	0	1421	-628	1531	0	116	1421	3771	7736	7852	916	6936	2159	436	227396	227832	7151.94
	Sep	3419	7	3241	-171	0	115	115	-74	1199	0	115	115	3412	1553	1668	115	1553	1388	436	227867	228303	7152.05
	Oct	4873	10	4812	-51	0	115	115	114	58	56	115	115	4863	1797	1912	115	1797	59	436	230874	231310	7152.75
	Nov	735	1	843	-91	0	113	113	-1196	511	0	113	113	734	14876	14989	113	14876	1820	436	214912	215348	7148.97
	Dec	0	0	0	0	0	108	108	-970	168	0	108	108	0	15372	15480	108	15372	1247	436	198293	198729	7144.85
	Annual	155244	310	161542	6608	11076	9146	20223	6543	9191	8643	1166	20223	154934		77637	19425	58212	9795				
	Adjust.																		-350	-350 (A)			
	Total																		9445	86	198843	198729	
	Reset																			-380	199109		

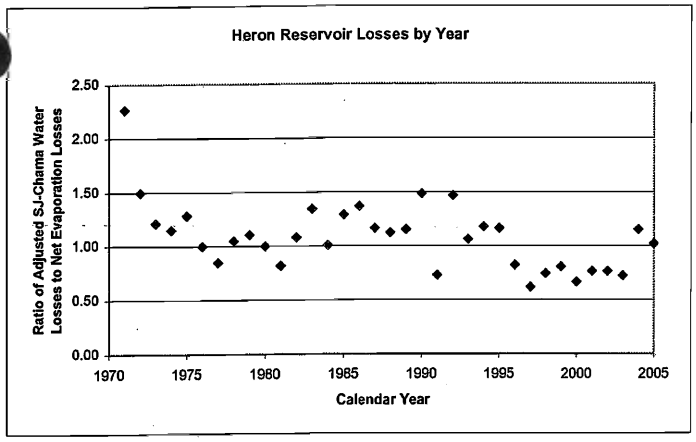
Notes (from procedures applied in USBR's 2005 Water Accounting Report to the Rio Grande Compact Commission Engineer Advisors dated March 2006):

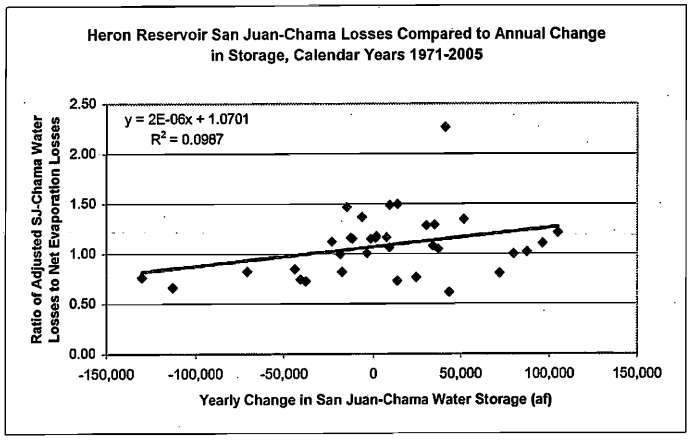
1(1) USBR measured flow at the Azotea Tunnel outlet.
1(2) 1(1)x0.002. This calculation assumes an average 0.2 percent conveyance channel loss on imported San Juan River water between the Azotea Tunnel outlet and Heron Reservoir.
1(3) USGS flow data for the Willow Creek above Heron Reservoir gage.
1(4) 1(3)-[1(1)-1(2)]. This calculation estimates natural flow at the Willow Creek gage.
1(5) 1(4)x1.2 if 1(4) exceeds 360 af for the month, or 1(4)x2.46 if 1(4) does not exceed 360 af for the month (based on regression of pre-dam flows at gages on Willow Creek above Heron Reservoir and near Parkview at Heron Dam).
If the computed inflow does not exceed the seepage, this flow is not bypassed. Flows above seepage are bypassed. Computed inflow to the reservoir is set to zero if tributary inflow is negative.
1(6) This column reports the seepage 2(4) as the base natural flow, or the net gain on the reservoir 2(3), whichever is greater; or zero when the net gain on the reservoir 2(3) is zero and the computed inflow 1(5) is more than seepage 2(4).
1(7) This column reports the sum of 1(5) plus 1(6) if 1(5) exceeds the seepage 2(4) to prevent double counting of the base natural flow or seepage, or 1(6) if 1(5) does not exceed seepage 2(4).
2(1) Current EOM total content 3(8)-[previous EOM total content 3(8)+3(2)+1(5)-3(3)-3(4)-2(2)]. This column represents unmeasured Rio Grande inflow to Heron Reservoir.
2(2) From Heron Reservoir Evaporation Loss spreadsheet, column 16.
2(3) 2(1)-2(2), or zero if 2(1)-2(2) is less than zero.
2(4) [(average of current and previous 3(9)-7100.)x0.02134+0.76]x1.9835xdays/month. The formula for computing seepage in cfs as a function of reservoir elevation is given in the URGWOM documentation.
3(1) From 1(7).
3(2) 1(1)-1(2).
3(A) USGS flow data for the Willow Creek below Heron Reservoir gage. This column is the total measured release from Heron Dam, and is not explicitly shown in USBR Annual Water Accounting reports.
3(B) 3(A)+2(4). This column represents total Heron Reservoir releases including seepage 2(4), and is not explicitly shown in USBR Annual Water Accounting reports.
3(3) 3(B)-3(4). This column represents actual Rio Grande water releases from Heron Reservoir including seepage 2(4).
3(4) USBR data. Actual USBR scheduled San Juan-Chama Project releases.
3(5) Previous EOM San Juan-Chama content 3(7)+3(2)-3(3)-3(4)-current EOM San Juan-Chama content 3(7).
3(6) Previous EOM Rio Grande content 3(6)+3(1)-3(3).
3(7) 3(8)-3(6).
3(8) From 3(9) and 1986 Heron Reservoir area-capacity table.
3(9) USBR data for actual EOM reservoir water surface elevation.
(A) About 350 to 353 acre-feet are used annually per water rights File Nos. 1545 and 1699 (about 3 acre-feet is used for Heron Lake recreation and the remainder is used to replace evaporation losses).
Reset End-of-year Rio Grande and San Juan-Chama contents are reset to match USBR annual San Juan-Chama Project water accounting report results for purposes of making loss computations the following year that reflect current accounting procedures.

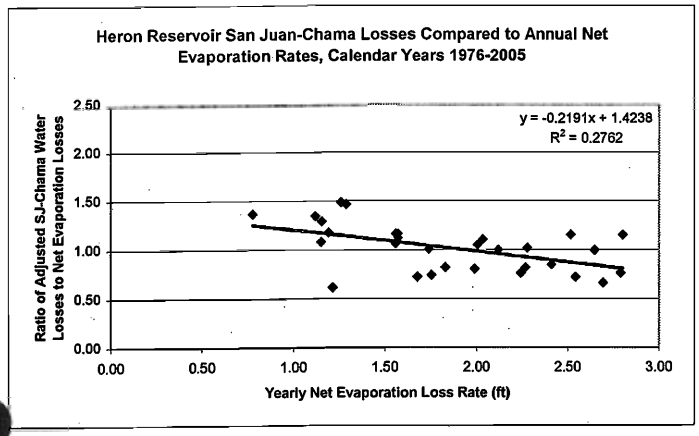
Table F-13. Comparison of Total San Juan-Chama Project Water Losses from Heron Reservoir to Heron Reservoir Net Evaporation Losses
(Units: Acre-feet)

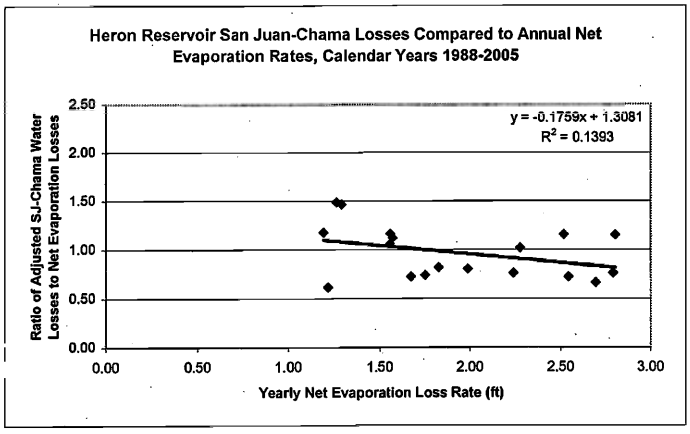
Calendar Year	Historic Heron Reservoir Evaporation Losses: Evap Computed by USBR: SJCP Accounting Reports	Evap Computed by USBR: 1986 Yield Study (Net Evap w/o Ice)	Net Evap Computed by New Mexico: With Ice Cover	Net Evap Computed by New Mexico: Without Ice Cover	Historic Heron Reservoir San Juan-Chama Water Losses: Losses Computed by USBR: SJCP Accounting Reports (Unadjusted)	Losses Computed by USBR: 1986 Yield Study (1986 SJCP Accounting Proc., Unadjusted)	Computed by NM Using Current San Juan-Chama Accounting Procedures: Unadjusted	Computed by NM Using Current San Juan-Chama Accounting Procedures: Adjusted for RG Rights Offset	Ratio of USBR SJ-C Loss Historically Reported (Minus 350 af RG Rights) to NM Calc. Heron Res. Net Evap (w/o Ice)	USBR 1986 Yield Study Ratio of SJ-C Loss with 1986 Acctg. Proc. (Unadjusted) to USBR Heron Res. Net Evap (w/o Ice)	Ratio of NM SJ-C Loss with Current Acctg. Proc. (Minus 350 af RG Rights) to NM Calc. Heron Res. Net Evap (w/o Ice)
1971		1742	1423	1543	4260	2920	3849	3499	2.53	1.68	2.27
1972		3628	2261	3003	6290	4320	4845	4495	1.98	1.19	1.50
1973		7259	5455	6133	10390	9020	7789	7439	1.64	1.24	1.21
1974	9260	9532	6868	7995	11780	11470	9535	9185	1.43	1.20	1.15
1975	8870	9216	6462	7920	11270	10360	10514	10164	1.38	1.12	1.28
1976	9120	10084	9054	9994	11700	11060	10318	9968	1.14	1.10	1.00
1977	6400	7890	6815	7813	8950	8420	6982	6632	1.10	1.07	0.85
1978	8450	7263	6327	7284	9900	9500	7982	7632	1.31	1.31	1.05
1979	8680	9397	7922	9404	11490	10970	10743	10393	1.18	1.17	1.11
1980	13030	11243	11252	11252	17250	16680	11603	11253	1.50	1.48	1.00
1981	12150	11869	11928	11928	14910	14220	10114	9764	1.22	1.20	0.82
1982	11170	6569	5108	6427	14410	13950	7296	6946	2.19	2.12	1.08
1983	8170	6391	6073	6339	13350	11390	8879	8529	2.05	1.78	1.35
1984	10800	10047	8905	9823	11860	11860	10251	9901	1.17	1.18	1.01
1985	8360		5609	6754	11280		9072	8722	1.62		1.29
1986	7680		4388	4388	7690		6351	6001	1.67		1.37
1987	9883		9003	9003	11890		10838	10488	1.28		1.16
1988	8530		7974	8988	10710		10439	10089	1.15		1.12
1989	14500		13270	14463	17060		17040	16690	1.16		1.15
1990	6900		6558	6903	10140		10605	10255	1.42		1.49
1991	9320		9045	9451	7230		7227	6877	0.73		0.73
1992	7480		6990	7480	11340		11326	10976	1.47		1.47
1993	8970		8595	8851	9780		9743	9393	1.07		1.06
1994	7030		6469	6934	8220		8506	8156	1.14		1.18
1995	9080		8808	8954	10770		10763	10413	1.16		1.16
1996	10040		9951	10041	8600		8601	8251	0.82		0.82
1997	6563		6107	6469	4355		4342	3992	0.62		0.62
1998	9517		9440	9573	7490		7473	7123	0.75		0.74
1999	10857		10859	10859	9306		9119	8769	0.82		0.81
2000	14221		14186	14230	9840		9823	9473	0.67		0.67
2001	11503		11311	11617	9237		9221	8871	0.77		0.76
2002	11379		11605	11762	9343		9330	8980	0.76		0.76
2003	8768		8830	8882	6776		6783	6433	0.72		0.72
2004	6974		6541	7163	8242		8590	8240	1.10		1.15
2005	9176		9191	9262	9285		9795	9445	0.96		1.02
Average											
1971-1984	---	8009	6847	7633	11272	10439	8621	8271	1.43	1.30	1.08
1971-2005	---	---	8017	8540	10183	---	9020	8670	1.15	---	1.02
1976-2005	9490	---	8604	9076	10413	---	9305	8955	1.11	---	0.99
1988-2005	9489	---	9207	9549	9318	---	9374	9024	0.94	---	0.94

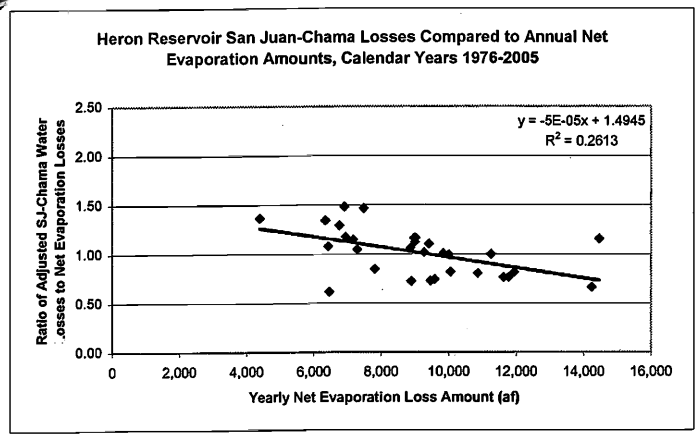
Table F-14. Heron Reservoir Loss Relationships

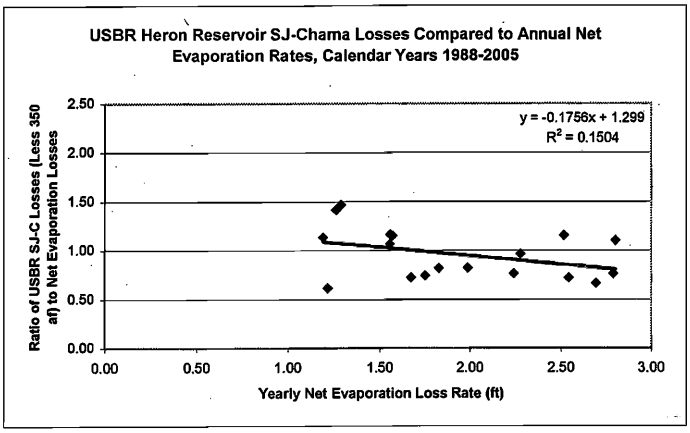


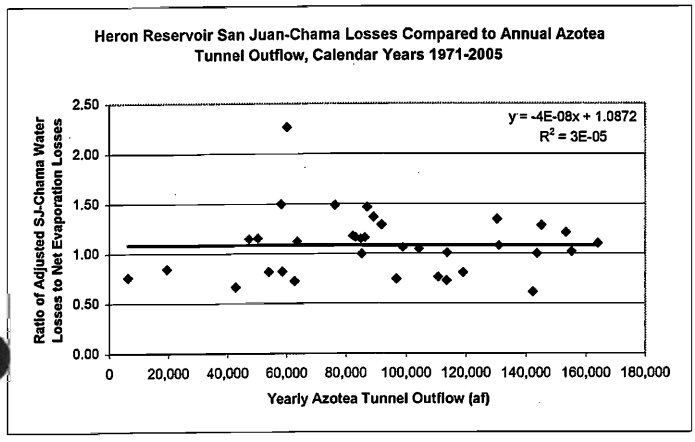












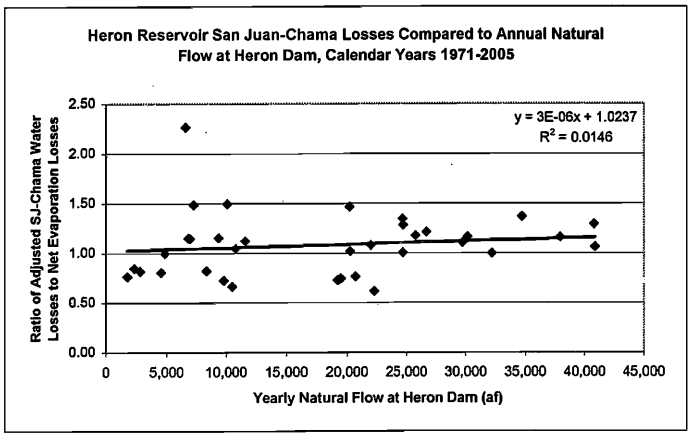


Table F-15. Monthly Heron Reservoir Gross Evaporation Loss Rates
(Units: Inches)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	2.58	1.43	0.81	0.83	1.11	2.48	3.40	4.90	6.02	6.00	5.55	4.18	39.29
1937	2.41	1.51	0.83	0.43	0.95	2.05	3.75	5.36	5.69	6.06	6.40	4.73	40.17
1938	2.96	1.48	0.86	0.88	1.19	2.19	3.41	4.25	5.56	5.91	5.94	3.75	38.37
1939	2.96	1.27	0.81	0.78	0.67	2.53	3.54	6.15	9.25	7.28	5.42	4.01	44.69
1940	3.19	1.50	1.01	0.85	1.04	2.73	3.29	5.10	6.01	6.88	5.77	3.96	41.34
1941	3.13	1.42	0.91	0.86	1.38	2.54	3.24	4.73	4.45	5.89	5.34	4.17	38.05
1942	2.42	1.47	0.92	0.84	1.03	2.08	4.06	5.96	6.92	6.56	5.88	4.90	43.04
1943	3.58	1.50	0.83	0.92	1.30	2.63	3.81	5.58	6.45	6.67	5.37	4.82	43.48
1944	2.86	1.51	0.86	0.88	1.24	2.15	3.54	5.06	5.99	5.59	5.63	4.61	39.92
1945	2.61	1.42	0.83	0.82	1.27	2.22	3.65	5.40	6.50	5.76	5.18	5.08	40.75
1946	2.46	1.40	0.53	0.61	1.04	2.40	3.56	4.86	7.60	6.16	4.15	4.24	39.00
1947	2.64	1.36	0.95	0.78	1.26	2.39	3.40	4.90	7.93	5.92	4.65	4.24	40.41
1948	3.06	1.29	0.76	0.90	1.14	1.89	3.40	4.85	6.02	5.92	5.48	4.50	39.21
1949	2.99	1.30	0.72	0.68	0.73	2.18	3.37	4.57	5.25	5.43	5.95	4.33	37.49
1950	2.53	1.42	0.79	0.79	1.27	2.35	3.40	4.90	7.29	5.60	5.82	4.00	40.16
1951	2.58	1.51	0.96	0.84	1.15	2.21	3.40	4.90	7.30	7.40	5.06	4.00	41.32
1952	2.58	1.33	0.67	0.87	1.01	2.10	3.59	4.63	6.17	5.88	5.54	4.37	38.74
1953	3.26	1.30	0.66	0.92	1.12	2.51	3.40	4.90	6.02	5.92	5.06	5.00	40.06
1954	3.38	1.51	0.74	0.96	1.43	2.41	3.40	4.90	6.61	5.48	4.87	3.94	39.62
1955	2.58	1.53	0.89	0.79	0.98	2.19	3.40	4.90	6.59	5.80	4.67	4.61	38.94
1956	2.58	1.47	0.89	1.08	1.19	2.38	3.40	4.90	6.55	6.48	5.68	5.60	42.20
1957	2.58	1.20	0.66	0.93	1.44	2.33	2.84	3.03	5.12	4.83	4.13	4.43	33.52
1958	2.13	1.27	0.84	0.89	1.31	1.94	3.53	4.75	6.30	6.48	5.19	4.02	38.64
1959	2.65	1.47	1.01	0.98	1.14	2.19	3.63	5.32	5.99	6.53	4.70	5.00	40.61
1960	2.73	1.46	0.96	0.71	0.92	2.34	3.73	4.65	5.92	6.55	6.61	4.51	41.09
1961	2.80	1.49	0.78	0.94	1.20	2.31	2.75	4.52	4.96	5.22	3.48	2.62	33.06
1962	2.06	1.36	0.67	0.82	1.29	1.82	3.24	5.01	5.89	5.56	5.27	2.83	35.83
1963	2.43	1.51	0.96	0.61	1.29	2.19	3.52	5.28	5.66	6.08	4.26	3.54	37.34
1964	2.48	1.50	0.82	0.76	0.92	1.87	3.32	5.43	6.41	5.30	4.78	3.28	36.87
1965	2.63	1.39	0.74	0.90	1.12	2.11	3.05	4.58	4.85	5.11	4.74	2.96	34.19
1966	2.37	1.53	0.92	0.75	0.98	2.40	3.84	4.87	5.20	5.12	4.37	3.37	35.72
1967	2.59	1.52	0.76	0.78	1.25	2.61	3.54	4.98	4.52	4.94	3.87	3.16	34.52
1968	2.19	1.51	0.69	0.90	1.39	2.39	3.08	4.68	5.29	4.80	4.46	3.16	34.53
1969	2.23	1.35	0.66	0.98	1.15	2.02	3.11	4.13	4.89	6.29	4.00	3.03	33.85
1970	2.09	1.37	0.87	0.80	1.40	2.09	3.40	5.13	5.31	5.83	5.58	4.20	38.08
1971	2.23	1.42	0.79	0.77	1.07	2.21	3.54	4.79	6.57	6.28	4.95	4.59	39.22
1972	2.26	1.37	0.69	0.79	1.21	2.73	3.77	6.44	6.16	7.03	5.49	4.19	42.15
1973	2.12	1.20	0.67	0.56	1.15	2.14	2.76	4.53	5.58	5.57	5.27	4.53	36.08
1974	2.77	1.40	0.73	0.78	0.92	2.52	3.61	6.11	6.12	5.85	5.10	4.60	40.52
1975	2.30	1.41	0.67	0.60	0.95	2.12	3.14	4.78	6.08	4.66	5.16	3.44	35.32
1976	3.36	1.24	0.72	0.69	1.33	2.30	3.73	4.58	7.54	7.13	5.45	3.56	41.63
1977	2.86	1.26	0.64	0.56	1.09	2.05	3.02	5.14	5.76	5.52	6.34	5.19	39.42
1978	3.39	1.51	0.90	0.93	1.20	2.77	4.32	4.56	6.74	7.08	6.09	4.52	44.01
1979	3.14	1.53	0.61	0.60	0.93	2.27	3.21	4.14	5.96	6.15	5.44	4.55	38.54
1980	3.42	1.20	0.90	1.00	1.33	2.30	2.98	4.81	6.84	6.76	5.59	4.37	41.50
1981	2.57	1.47	1.06	1.10	1.35	2.48	3.99	4.61	7.27	5.97	5.99	3.70	41.56
1982	2.34	1.49	0.84	0.76	1.02	2.30	3.97	4.59	5.72	5.91	4.21	2.60	35.75
1983	2.28	1.32	0.69	0.76	1.13	2.12	3.06	4.79	4.86	5.17	4.38	3.56	34.12
1984	1.79	1.30	0.72	0.63	1.04	2.23	2.95	5.72	4.93	5.48	4.64	4.13	35.57
1985	1.34	1.30	0.83	0.89	0.95	2.30	2.79	3.72	5.15	5.09	4.69	3.07	32.14
1986	1.98	1.32	0.78	1.08	1.29	2.70	2.72	4.39	4.21	4.85	4.56	2.78	32.66
1987	1.93	1.37	0.81	0.82	1.18	2.12	3.16	3.33	4.93	5.70	4.17	3.74	33.25
1988	2.67	1.30	0.66	0.56	1.07	2.30	3.15	4.27	4.74	5.40	4.10	3.43	33.65
1989	2.57	1.43	0.81	0.73	1.18	2.77	4.02	5.54	5.96	5.69	4.82	4.17	39.68
1990	2.54	1.51	0.81	0.82	1.20	2.70	2.84	4.79	6.52	4.74	4.23	3.47	36.17
1991	2.09	1.55	0.64	0.80	1.24	2.34	3.41	5.09	4.79	5.08	4.75	3.19	34.96
1992	2.73	1.30	0.73	0.69	1.24	2.59	3.25	3.83	4.86	5.21	4.07	3.61	34.11
1993	2.45	1.26	0.66	0.99	1.27	2.56	3.26	3.74	5.20	6.52	4.35	3.64	35.87
1994	2.18	1.30	0.83	0.92	1.11	2.74	2.62	3.87	5.55	6.13	4.66	3.07	34.98
1995	1.90	1.24	0.85	0.83	1.42	2.56	2.54	3.53	5.19	5.27	4.72	3.28	33.32
1996	2.44	1.40	0.77	0.67	1.19	2.22	3.65	5.92	5.71	5.39	4.70	3.44	37.52
1997	2.28	1.27	0.56	0.66	1.01	2.20	2.81	4.21	5.42	6.05	4.15	3.52	34.12
1998	2.56	1.26	0.60	0.81	0.94	2.33	2.95	4.68	6.29	5.15	4.54	3.98	36.10
1999	2.55	1.42	0.81	0.93	1.31	2.74	3.33	4.89	6.12	4.86	4.17	3.58	36.70
2000	3.14	1.61	0.77	0.98	1.45	2.58	4.16	6.04	6.97	6.91	5.89	5.29	45.80
2001	2.25	1.09	0.79	0.75	1.07	2.20	3.53	5.66	6.87	5.82	4.80	5.05	39.89
2002	3.22	1.41	0.60	0.87	1.13	2.48	4.49	6.87	7.96	6.76	6.55	4.22	46.55
2003	2.45	1.50	0.77	1.16	1.38	2.56	4.10	5.42	7.10	7.66	5.38	4.21	43.68
2004	2.96	1.46	0.90	0.94	1.15	2.99	3.32	6.28	6.91	6.38	6.11	4.47	43.87
2005	2.41	1.50	0.88	1.20	1.43	2.66	3.70	5.23	6.14	7.69	5.79	4.49	43.11
Average	2.58	1.40	0.79	0.82	1.16	2.35	3.40	4.90	6.02	5.92	5.06	4.01	38.39

Table F-16. Monthly Heron Reservoir Effective Precipitation Rates
(Units: Inches)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	1.21	0.86	0.47	1.04	2.01	0.58	1.89	0.95	0.48	1.93	2.50	3.24	17.16
1937	1.54	0.57	1.63	2.14	2.56	2.10	0.43	1.31	0.37	1.39	1.60	2.43	18.07
1938	0.98	0.35	1.85	1.88	2.72	2.03	1.31	1.02	1.42	1.35	1.32	2.10	18.33
1939	0.74	0.68	0.76	2.29	1.40	1.59	0.61	0.31	0.08	2.00	1.69	1.90	14.04
1940	1.38	1.24	1.15	2.66	2.10	1.83	0.38	1.14	1.24	1.65	1.77	1.54	18.07
1941	1.13	2.52	2.91	2.16	1.30	2.45	2.69	1.50	2.45	1.18	1.52	3.02	24.85
1942	3.06	0.67	2.05	0.47	1.16	1.93	3.16	0.51	0.59	1.17	1.59	0.76	17.11
1943	0.89	0.26	1.09	1.07	0.83	1.81	0.39	1.17	1.47	1.10	2.66	1.13	13.88
1944	1.16	0.99	3.17	1.55	0.99	1.54	0.90	0.73	0.16	2.12	1.60	1.16	16.08
1945	1.33	1.47	2.43	1.06	0.76	2.45	1.76	0.50	0.18	1.98	2.57	0.74	17.20
1946	1.02	0.33	1.47	0.72	0.46	1.57	1.44	0.52	0.10	1.57	2.76	1.36	13.32
1947	1.70	0.99	0.29	1.06	0.94	1.25	0.27	1.87	0.33	1.17	2.76	2.00	14.64
1948	1.19	0.94	1.33	0.80	1.28	1.69	0.86	1.31	1.90	1.28	1.83	1.63	16.04
1949	1.45	0.75	1.99	2.73	1.52	1.37	1.88	1.02	2.65	1.90	1.67	1.12	20.07
1950	1.04	0.65	0.51	1.47	0.88	1.32	0.66	0.37	0.82	1.43	1.07	1.64	11.85
1951	0.27	0.64	1.53	1.82	1.11	0.94	1.75	0.60	0.08	0.97	2.46	0.46	12.62
1952	0.75	1.00	2.84	1.98	0.75	0.93	1.76	0.65	0.73	1.23	1.68	1.28	15.59
1953	0.07	2.69	1.02	0.72	0.65	1.08	0.65	0.86	0.30	2.07	1.53	0.41	12.05
1954	1.72	1.18	1.13	0.75	0.40	2.55	0.10	2.22	0.52	1.47	1.77	1.42	15.24
1955	0.78	0.47	0.60	0.81	1.76	0.78	0.71	1.31	0.20	2.40	2.18	0.82	12.81
1956	0.07	1.21	1.49	1.46	1.22	0.66	0.55	0.53	0.20	1.42	1.38	0.37	10.58
1957	0.77	0.33	0.10	3.50	1.18	1.47	1.19	2.07	1.10	2.15	2.49	0.42	16.77
1958	1.70	2.15	0.63	2.21	2.03	2.07	2.36	0.71	0.17	1.37	1.61	1.18	18.18
1959	0.96	0.54	0.34	0.41	1.11	1.08	0.86	0.68	0.60	1.41	2.42	0.90	11.32
1960	2.55	0.53	2.17	1.29	1.40	1.56	1.10	0.95	0.36	1.44	1.19	0.78	15.33
1961	2.08	0.85	1.87	0.77	1.15	2.31	0.65	0.46	0.28	1.18	2.60	2.43	16.62
1962	2.55	1.52	1.55	0.96	2.07	1.09	0.51	0.37	0.16	1.73	1.12	2.52	16.16
1963	0.82	2.66	0.45	0.88	1.60	2.05	0.39	0.28	0.32	1.93	2.31	1.13	14.83
1964	1.07	0.62	0.10	0.79	0.95	1.27	1.03	1.00	0.22	1.91	2.79	2.01	13.77
1965	0.07	1.57	2.80	2.27	1.32	1.31	0.63	1.33	1.06	2.35	2.11	2.25	19.07
1966	1.24	2.07	1.88	0.60	0.72	1.05	0.53	0.58	0.96	1.90	1.65	0.70	13.90
1967	0.10	0.56	3.00	0.87	0.40	1.02	0.24	0.52	1.37	2.36	3.80	1.62	15.86
1968	0.27	0.32	1.69	0.87	1.90	1.39	0.90	1.44	0.42	1.51	2.83	0.39	13.94
1969	0.66	1.17	0.72	3.26	1.04	1.21	0.41	1.58	1.68	2.27	3.49	2.58	20.07
1970	2.48	0.74	1.33	0.45	0.40	1.84	0.98	0.43	0.83	1.95	2.32	2.04	15.80
1971	1.31	0.88	0.49	1.01	0.81	0.85	0.76	0.74	0.34	1.87	2.23	2.39	13.68
1972	1.77	0.91	1.93	0.48	0.69	0.78	0.19	0.75	1.25	1.24	1.52	2.19	13.70
1973	3.57	1.62	1.78	1.10	1.16	2.56	0.80	1.69	0.61	1.88	1.48	1.45	19.70
1974	0.60	0.62	1.39	1.84	0.56	1.63	0.52	0.28	0.71	1.45	2.13	0.82	12.54
1975	2.31	1.05	0.94	1.01	2.05	2.27	0.69	0.31	0.29	1.34	1.38	1.16	14.81
1976	0.26	1.57	0.21	0.10	0.34	0.22	0.40	0.95	0.24	1.88	1.72	2.33	10.21
1977	0.39	0.74	0.00	0.74	0.19	0.19	0.83	0.89	0.38	2.80	1.94	1.73	10.82
1978	0.61	1.09	0.15	1.92	1.84	2.14	0.52	2.56	0.74	0.67	0.86	0.99	14.10
1979	1.46	2.01	3.74	2.06	1.09	0.95	0.59	2.87	1.02	0.14	1.71	0.73	18.38
1980	0.73	1.40	1.08	2.92	2.23	1.93	0.70	1.02	0.00	1.32	1.82	1.72	16.87
1981	1.05	0.69	0.26	0.35	0.21	1.49	0.85	1.50	1.39	1.77	3.24	1.07	13.86
1982	1.70	0.25	0.14	1.96	2.16	1.73	0.05	1.94	0.00	3.35	4.06	2.19	19.54
1983	1.08	1.63	1.42	1.00	1.50	2.19	0.77	0.85	1.71	0.53	3.47	1.61	17.74
1984	1.30	2.90	2.39	0.68	0.27	1.46	0.91	0.28	1.01	1.29	1.42	1.77	15.68
1985	3.74	0.42	1.15	1.02	1.08	2.53	2.60	0.68	0.57	2.03	1.23	2.35	19.40
1986	2.24	2.03	0.55	0.30	1.81	1.02	2.56	1.37	1.67	2.70	2.74	3.16	22.15
1987	2.48	2.72	0.86	0.82	1.49	1.34	1.01	1.79	1.15	0.97	1.80	0.23	16.64
1988	0.92	2.04	1.41	1.55	1.43	0.16	1.54	0.64	2.01	1.47	3.04	1.35	17.56
1989	0.30	1.10	0.40	1.33	1.36	0.96	0.00	0.24	0.29	1.26	2.19	0.52	9.94
1990	1.23	0.03	0.15	0.80	0.75	1.51	1.89	1.30	0.69	2.67	2.70	2.15	15.87
1991	1.78	1.45	2.80	1.01	0.19	1.87	0.27	1.03	1.09	1.46	1.66	1.63	16.23
1992	1.16	2.38	1.62	0.55	0.86	2.70	0.53	3.16	0.40	2.40	2.78	0.62	19.15
1993	0.36	1.62	2.31	2.47	2.32	1.09	0.48	1.91	0.31	0.00	3.33	1.09	17.30
1994	1.78	1.87	0.49	0.50	2.34	1.70	2.25	2.46	0.93	1.47	1.99	2.30	20.08
1995	1.33	2.59	0.52	2.02	0.75	3.06	1.75	1.62	0.76	0.45	2.32	1.79	18.95
1996	0.00	0.50	0.25	0.92	1.13	1.08	0.26	0.00	1.45	2.38	2.16	1.36	11.49
1997	1.31	2.35	0.67	2.85	0.98	0.01	1.76	2.14	1.25	2.90	2.00	2.03	20.24
1998	1.56	1.14	1.27	0.75	1.20	1.49	1.01	0.35	0.03	2.15	2.34	1.00	14.31
1999	3.03	1.87	0.19	0.48	0.24	0.50	2.56	1.36	0.98	2.20	3.13	1.96	18.49
2000	0.13	0.05	0.01	1.41	0.48	2.28	0.34	0.25	1.10	1.06	0.86	0.27	8.23
2001	2.24	1.44	0.39	1.63	0.69	1.69	1.14	1.77	0.29	2.33	1.83	0.29	15.72
2002	0.51	1.18	0.75	0.56	0.16	0.56	0.36	0.00	0.09	1.77	1.47	3.65	11.06
2003	1.70	1.30	0.95	0.07	2.03	0.80	0.78	0.74	0.33	0.98	2.60	2.37	14.64
2004	0.93	1.70	0.46	0.93	1.71	0.11	1.82	0.00	0.17	0.90	0.58	1.16	10.47
2005	1.28	0.44	0.61	2.56	2.77	1.39	1.79	1.18	0.30	0.48	1.52	1.13	15.46
Average	1.27	1.20	1.20	1.31	1.21	1.45	1.02	1.05	0.73	1.63	2.08	1.51	15.66

Table F-17. Monthly Heron Reservoir Net Evaporation Loss Rates
(Units: Inches)

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Annual
1936	1.37	0.57	0.34	-0.21	-0.89	1.90	1.50	3.95	5.54	4.08	3.05	0.94	22.13
1937	0.87	0.94	-0.81	-1.71	-1.60	-0.05	3.32	4.05	5.32	4.67	4.80	2.30	22.10
1938	1.98	1.13	-0.98	-1.00	-1.53	0.16	2.09	3.23	4.14	4.56	4.62	1.65	20.04
1939	2.22	0.59	0.06	-1.51	-0.73	0.94	2.92	5.84	9.17	5.29	3.73	2.12	30.65
1940	1.81	0.26	-0.14	-1.81	-1.06	0.90	2.92	3.97	4.77	5.23	4.00	2.42	23.27
1941	1.99	-1.11	-2.00	-1.31	0.08	0.09	0.55	3.23	2.00	4.71	3.81	1.15	13.21
1942	-0.64	0.80	-1.13	0.37	-0.13	0.15	0.90	5.45	6.33	5.39	4.30	4.14	25.93
1943	2.69	1.24	-0.26	-0.15	0.47	0.83	3.43	4.41	4.97	5.56	2.71	3.69	29.60
1944	1.70	0.51	-2.31	-0.68	0.25	0.61	2.64	4.33	5.83	3.47	4.03	3.44	23.84
1945	1.28	-0.04	-1.60	-0.24	0.51	-0.23	1.89	4.91	6.32	3.79	2.61	4.34	23.55
1946	1.44	1.07	-0.94	-0.11	0.58	0.83	2.12	4.34	7.50	4.58	1.39	2.88	25.68
1947	0.94	0.36	0.65	-0.28	0.32	1.14	3.13	3.03	7.60	4.75	1.89	2.24	25.77
1948	1.86	0.35	-0.56	0.11	-0.14	0.20	2.53	3.54	4.12	4.63	3.65	2.87	23.17
1949	1.54	0.55	-1.27	-2.05	-0.79	0.80	1.49	3.55	2.60	3.53	4.27	3.20	17.41
1950	1.49	0.77	0.28	-0.68	0.39	1.03	2.73	4.53	6.47	4.17	4.75	2.37	28.31
1951	2.31	0.87	-0.57	-0.98	0.04	1.27	1.65	4.30	7.22	6.43	2.60	3.55	28.70
1952	1.83	0.32	-2.18	-1.11	0.27	1.17	1.82	3.98	5.44	4.64	3.86	3.10	23.16
1953	3.20	-1.39	-0.37	0.20	0.47	1.43	2.74	4.04	5.72	3.85	3.53	4.59	28.01
1954	1.65	0.32	-0.38	0.20	1.04	-0.14	3.30	2.68	6.08	4.01	3.10	2.52	24.38
1955	1.80	1.07	0.29	-0.02	-0.78	1.42	2.68	3.59	6.39	3.41	2.49	3.79	26.13
1956	2.52	0.26	-0.60	-0.39	-0.03	1.72	2.84	4.37	6.35	5.05	4.29	5.23	31.62
1957	1.81	0.87	0.56	-2.57	0.26	0.86	1.65	0.96	4.01	2.67	1.64	4.01	16.75
1958	0.43	-0.88	0.21	-1.32	-0.72	-0.13	1.17	4.04	6.13	5.11	3.58	2.83	20.46
1959	1.69	0.93	0.67	0.58	0.03	1.11	2.77	4.64	5.38	5.12	2.28	4.09	29.28
1960	0.18	0.93	-1.21	-0.57	-0.47	0.78	2.63	3.70	5.56	5.10	5.42	3.72	25.77
1961	0.72	0.64	-1.10	0.16	0.06	0.00	2.09	4.06	4.68	4.04	0.88	0.20	16.44
1962	-0.49	-0.15	-0.88	-0.14	-0.78	0.73	2.73	4.64	5.73	3.84	4.15	0.31	19.67
1963	1.61	-1.15	0.51	-0.27	-0.31	0.14	3.14	5.00	5.35	4.15	1.94	2.41	22.51
1964	1.41	0.88	0.72	-0.03	-0.04	0.60	2.28	4.43	6.19	3.39	1.99	1.26	23.10
1965	2.56	-0.17	-2.06	-1.37	-0.19	0.79	2.42	3.26	3.78	2.77	2.63	0.71	15.12
1966	1.13	-0.55	-0.96	0.15	0.25	1.35	3.31	4.29	4.23	3.21	2.72	2.66	21.82
1967	2.50	0.96	-2.24	-0.09	0.85	1.60	3.31	4.46	3.15	2.59	0.07	1.53	18.66
1968	1.92	1.19	-1.00	0.03	-0.51	1.00	2.18	3.24	4.86	3.29	1.63	2.76	20.59
1969	1.57	0.17	-0.05	-2.28	0.11	0.81	2.71	2.55	3.21	4.02	0.51	0.44	13.77
1970	-0.39	0.62	-0.46	0.35	1.00	0.25	2.42	4.70	4.48	3.88	3.26	2.16	22.29
1971	0.92	0.54	0.30	-0.24	0.26	1.36	2.77	4.05	6.23	4.41	2.72	2.20	25.54
1972	0.49	0.46	-1.24	0.31	0.52	1.95	3.59	5.70	4.91	5.80	3.97	2.00	28.45
1973	-1.44	-0.41	-1.12	-0.55	0.00	-0.42	1.96	2.84	4.97	3.69	3.79	3.09	16.38
1974	2.17	0.79	-0.66	-1.06	0.37	0.89	3.08	5.83	5.41	4.40	2.98	3.79	27.98
1975	-0.01	0.35	-0.27	-0.41	-1.09	-0.14	2.45	4.47	5.78	3.33	3.78	2.29	20.50
1976	3.10	-0.33	0.51	0.58	0.99	2.09	3.33	3.63	7.30	5.25	3.74	1.23	31.42
1977	2.47	0.52	0.64	-0.18	0.90	1.86	2.19	4.25	5.38	2.72	4.40	3.45	28.60
1978	2.78	0.42	0.75	-0.99	-0.64	0.64	3.80	1.99	6.00	6.42	5.23	3.53	29.91
1979	1.68	-0.47	-3.13	-1.47	-0.16	1.32	2.62	1.27	4.94	6.01	3.73	3.82	20.15
1980	2.69	-0.20	-0.17	-1.91	-0.90	0.37	2.27	3.79	6.84	5.44	3.76	2.64	24.63
1981	1.52	0.78	0.80	0.75	1.15	0.99	3.14	3.11	5.88	4.20	2.75	2.63	27.70
1982	0.64	1.24	0.70	-1.20	-1.14	0.57	3.92	2.64	5.72	2.56	0.15	0.41	16.21
1983	1.21	-0.30	-0.73	-0.24	-0.37	-0.06	2.29	3.94	3.15	4.63	0.91	1.95	16.38
1984	0.48	-1.60	-1.67	-0.05	0.78	0.77	2.04	5.44	3.92	4.19	3.22	2.36	19.88
1985	-2.39	0.88	-0.32	-0.13	-0.12	-0.23	0.19	3.04	4.58	3.06	3.46	0.72	12.74
1986	-0.25	-0.71	0.23	0.77	-0.53	1.68	0.17	3.02	2.54	2.15	1.83	-0.38	10.51
1987	-0.55	-1.35	-0.04	0.00	-0.31	0.79	2.15	1.54	3.78	4.73	2.37	3.51	16.61
1988	1.75	-0.74	-0.75	-1.00	-0.36	2.14	1.61	3.63	2.73	3.93	1.06	2.08	16.10
1989	2.27	0.33	0.41	-0.60	-0.18	1.81	4.02	5.30	5.67	4.44	2.64	3.64	29.74
1990	1.31	1.48	0.66	0.02	0.45	1.19	0.95	3.49	5.82	2.07	1.53	1.32	20.30
1991	0.31	0.11	-2.16	-0.21	1.05	0.47	3.14	4.06	3.69	3.61	3.09	1.57	18.73
1992	1.57	-1.08	-0.88	0.14	0.39	-0.11	2.72	0.67	4.46	2.81	1.29	2.99	14.96
1993	2.09	-0.36	-1.65	-1.49	-1.05	1.46	2.77	1.83	4.89	6.52	1.02	2.55	18.57
1994	0.41	-0.56	0.33	0.41	-1.23	1.05	0.37	1.41	4.62	4.66	2.67	0.77	14.90
1995	0.57	-1.35	0.33	-1.20	0.67	-0.50	0.79	1.91	4.43	4.82	2.40	1.49	14.37
1996	2.44	0.90	0.52	-0.25	0.06	1.15	3.39	5.92	4.26	3.01	2.54	2.09	26.03
1997	0.97	-1.08	-0.12	-2.18	0.03	2.19	1.05	2.07	4.17	3.14	2.15	1.49	13.88
1998	1.00	0.12	-0.67	0.06	-0.27	0.84	1.94	4.32	6.26	3.00	2.20	2.98	21.79
1999	-0.49	-0.46	0.62	0.45	1.08	2.23	0.78	3.53	5.14	2.66	1.04	1.63	18.21
2000	3.00	1.56	0.76	-0.43	0.98	0.30	3.82	5.79	5.87	5.85	5.03	5.03	37.57
2001	0.02	-0.34	0.40	-0.88	0.37	0.51	2.39	3.89	6.57	3.50	2.97	4.77	24.17
2002	2.71	0.24	-0.15	0.31	0.97	1.92	4.13	6.87	7.87	4.99	5.08	0.57	35.49
2003	0.75	0.19	-0.18	1.10	-0.65	1.76	3.32	4.68	6.77	6.68	2.78	1.84	29.03
2004	2.03	-0.24	0.45	0.01	-0.55	2.87	1.50	6.28	6.74	5.47	5.53	3.32	33.40
2005	1.13	1.06	0.27	-1.36	-1.33	1.27	1.91	4.05	5.84	7.20	4.27	3.36	27.65
Average	1.31	0.20	-0.41	-0.48	-0.05	0.90	2.38	3.85	5.28	4.29	2.98	2.49	22.73

APPENDIX G

Heron Reservoir Operations Studies
for Water Years 1936-2005

Table G-1(a). Theoretical San Juan-Chama Project Monthly Contract Release Demands at Heron Dam
(Units: Acre-Feet)

Contractor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Albuquerque	4,017	4,017	4,017	4,017	4,017	4,017	4,017	4,017	4,017	4,017	4,017	4,017	48,200
MRGCD	0	0	0	0	0	0	0	0	0	0	0	20,900	20,900
Jicarilla Apache	0	0	0	929	929	929	929	929	929	929	0	0	6,500
Santa Fe	467	467	467	467	467	467	467	467	467	467	467	467	5,605
Taos Settlement	249	249	249	249	249	249	249	249	249	249	249	249	2,990
San Juan Pueblo	167	167	167	167	167	167	167	167	167	167	167	167	2,000
Los Alamos	100	100	100	100	100	100	100	100	100	100	100	100	1,200
PVID	0	0	343	343	343	0	0	0	0	0	0	0	1,030
Espanola	83	83	83	83	83	83	83	83	83	83	83	83	1,000
Belen	42	42	42	42	42	42	42	42	42	42	42	42	500
Bernalillo	33	33	33	33	33	33	33	33	33	33	33	33	400
Los Lunas	33	33	33	33	33	33	33	33	33	33	33	33	400
Taos	33	33	33	33	33	33	33	33	33	33	33	33	400
Red River	5	5	5	5	5	5	5	5	5	5	5	5	60
Twining WSD	1	1	1	1	1	1	1	1	1	1	1	1	15
Cochiti Lake	0	2,500	2,500	0	0	0	0	0	0	0	0	0	5,000
Total	5,231	7,731	8,074	6,503	6,503	6,159	6,159	6,159	6,159	6,159	5,231	26,131	96,200
Percent	5.44	8.04	8.39	6.76	6.76	6.40	6.40	6.40	6.40	6.40	5.44	27.16	100.00

Table G-1(b). Historic Releases of San Juan-Chama Water from Heron Reservoir to Meet Contract Demands
(Units: Acre-Feet)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1972	0	0	0	0	3,270	5,890	8,235	3,505	0	0	0	0	20,900
1973	0	0	0	0	0	0	0	0	0	0	0	20,900	20,900
1974	0	56	44	424	0	242	172	0	158	273	0	38,228	39,597
1975	0	0	0	35,218	0	0	759	403	73	366	0	67,512	104,331
1976	16,150	0	3,213	27,773	0	869	605	1,151	783	400	336	42,606	93,686
1977	0	0	795	655	867	10,859	11,452	5,130	8,419	5,486	199	12,944	56,806
1978	0	0	470	3,172	0	16,138	62	209	2,672	74	297	36,219	59,313
1979	0	0	0	3,921	0	0	57	389	734	814	965	50,399	57,279
1980	0	0	3,276	257	0	0	14,933	8,343	431	569	0	24,526	52,335
1981	5,182	351	281	437	1,290	1,265	12,801	11,365	1,989	1,011	1,008	25,100	62,080
1982	676	0	0	4,135	0	402	3,740	402	1,150	743	314	78,360	89,922
1983	0	80	430	2,025	0	11,443	24,340	3,548	0	414	5,739	21,939	69,958
1984	14,573	19,060	18,529	2,033	0	10,807	2,141	4,073	14,636	150	8,424	12,848	107,274
1985	15,789	13,213	14,936	2,900	0	0	0	0	0	568	0	660	48,066
1986	3,891	19,774	19,504	33,662	0	0	0	0	0	187	0	12,726	89,744
1987	19,200	12,091	9,153	24,550	0	0	0	0	0	0	0	0	64,994
1988	0	2,954	4,595	48,215	0	0	202	15	10	9	14,605	6,234	76,839
1989	2,357	0	1,999	4,702	0	0	23	6,411	16,631	8	0	0	32,131
1990	0	6,594	31,334	16,843	380	0	51	18	12	10	178	1,209	56,629
1991	4,502	8,907	24,781	49,502	0	0	0	725	0	0	1,261	2,883	92,561
1992	0	0	10,081	62,863	0	0	1,772	1,813	13,687	0	518	532	91,266
1993	0	0	45,836	20,748	0	0	3,415	8,602	1,492	0	0	0	80,093
1994	7,521	13,088	12,429	34,729	0	0	0	0	903	255	0	3,331	72,256
1995	0	0	45,252	28,423	0	0	0	4,304	3,034	0	7,778	0	88,791
1996	1,525	67	12,517	40,067	0	7,271	19,458	2,962	6,602	13,908	7,576	8,886	120,839
1997	6,854	6,443	12,554	34,754	0	0	8,119	11,489	7,037	71	3,570	3,669	94,580
1998	3,689	3,332	17,637	28,969	6,405	0	6,716	4,668	10,945	12,227	16,028	19,586	130,202
1999	10,137	9,156	6,639	0	0	0	0	0	1,310	682	5,856	4,400	38,180
2000	3,069	2,871	30,454	19,900	10,425	16,028	2,889	13,907	27,899	3,729	8,918	6,208	146,297
2001	1,312	5,554	6,149	16,130	583	0	0	0	0	1,968	23,802	21,609	77,107
2002	11,365	11,018	12,299	13,236	682	29,571	28,744	12,657	1,619	2,459	2,380	1,689	127,719
2003	922	833	2,891	6,265	3,054	10,549	31,971	19,539	3,213	4,067	6,473	4,301	94,078
2004	12,059	13,610	14,352	24,497	10,594	0	3,013	1,524	4,760	1,025	1,567	1,343	88,344
2005	1,427	2,650	201	6,431	0	0	6,969	6,936	1,553	1,797	14,876	15,372	58,212
Average:													
1972-2005	4,182	4,462	10,666	17,572	1,104	3,569	5,666	3,944	3,875	1,567	3,902	16,066	76,574
1986-2005	4,492	5,947	16,033	25,724	1,606	3,171	5,667	4,779	5,035	2,120	5,769	5,700	86,043
1996-2005	5,236	5,553	11,569	19,025	3,174	6,342	10,788	7,368	6,494	4,193	9,105	8,708	97,556
Percent:													
1972-2005	5.46	5.83	13.93	22.95	1.44	4.66	7.40	5.15	5.06	2.05	5.10	20.98	100.00
1986-2005	5.22	6.91	18.63	29.90	1.87	3.69	6.59	5.55	5.85	2.46	6.71	6.62	100.00
1996-2005	5.37	5.69	11.86	19.50	3.25	6.50	11.06	7.55	6.66	4.30	9.33	8.93	100.00

Table G-1(c). Monthly San Juan-Chama Project Demands at Heron Dam for Heron Reservoir Operations Studies

Percent by Month	5.0	6.0	12.0	20.0	3.0	6.0	11.0	8.0	7.0	4.0	9.0	9.0	100.00
Demand (af)	4,810	5,772	11,544	19,240	2,886	5,772	10,582	7,696	6,734	3,848	8,658	8,658	96,200

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1936	Oct	2,438	0	2,433	0.11	3,083	352	3,848	0	3,848	0	138,233	0	2,438
	Nov	339	0	339	0.05	3,001	142	8,658	0	8,658	0	129,772	0	339
	Dec	0	0	0	0.03	2,860	81	8,658	0	8,658	0	121,033	0	0
	Jan	29	0	29	-0.02	2,746	-48	4,810	0	4,810	0	116,299	0	29
	Feb	0	0	0	-0.07	2,652	-197	5,772	0	5,772	0	110,724	0	0
	Mar	5,042	0	5,032	0.16	2,531	401	11,544	0	11,544	0	103,812	0	5,042
	Apr	39,972	0	39,892	0.13	2,652	332	19,240	0	19,240	0	124,132	0	39,972
	May	56,339	0	56,227	0.33	3,244	1,068	2,886	0	2,886	0	176,405	0	56,339
	Jun	31,223	0	31,160	0.46	3,800	1,753	5,772	0	5,772	0	200,040	0	31,223
	Jul	7,534	0	7,519	0.34	3,925	1,333	10,582	0	10,582	0	195,644	0	7,534
	Aug	7,462	0	7,447	0.25	3,890	990	7,696	0	7,696	0	194,405	0	7,462
	Sep	4,561	0	4,552	0.08	3,867	302	6,734	0	6,734	0	191,921	0	4,561
	Annual	154,940	0	154,630	1.84		6,508	96,200	0	96,200	0		0	154,940
1937	Oct	2,060	0	2,056	0.07	3,839	277	3,848	0	3,848	0	189,852	0	2,060
	Nov	2,811	0	2,805	0.08	3,787	295	8,658	0	8,658	0	183,704	0	2,811
	Dec	619	0	617	-0.07	3,695	-249	8,658	0	8,658	0	175,912	0	619
	Jan	111	0	111	-0.14	3,612	-514	4,810	0	4,810	0	171,728	0	111
	Feb	116	0	116	-0.13	3,545	-473	5,772	0	5,772	0	166,545	0	116
	Mar	999	0	997	0.00	3,427	-15	11,544	0	11,544	0	156,013	0	999
	Apr	30,582	0	30,521	0.28	3,426	948	19,240	0	19,240	0	166,346	0	30,582
	May	52,023	0	51,918	0.34	3,811	1,285	2,886	0	2,886	0	214,094	0	52,023
	Jun	39,087	0	39,009	0.44	4,293	1,904	5,772	0	5,772	0	245,427	0	39,087
	Jul	9,996	0	9,976	0.39	4,455	1,734	10,582	0	10,582	0	243,086	0	9,996
	Aug	1,518	0	1,515	0.40	4,399	1,760	7,696	0	7,696	0	235,145	0	1,518
	Sep	518	0	517	0.19	4,316	827	6,734	0	6,734	0	228,101	0	518
	Annual	140,441	0	140,160	1.84		7,780	96,200	0	96,200	0		0	140,441
1938	Oct	465	0	464	0.16	4,254	701	3,848	0	3,848	0	224,016	0	465
	Nov	46	0	46	0.09	4,180	392	8,658	0	8,658	0	215,011	0	46
	Dec	0	0	0	-0.08	4,080	-334	8,658	0	8,658	0	206,687	0	0
	Jan	0	0	0	-0.08	4,005	-333	4,810	0	4,810	0	202,210	0	0
	Feb	0	0	0	-0.13	3,946	-504	5,772	0	5,772	0	196,942	0	0
	Mar	2,109	0	2,105	0.01	3,855	52	11,544	0	11,544	0	187,451	0	2,109
	Apr	26,499	0	26,446	0.17	3,836	668	19,240	0	19,240	0	193,989	0	26,499
	May	40,280	0	40,199	0.27	4,089	1,101	2,886	0	2,886	0	230,201	0	40,280
	Jun	52,815	0	52,709	0.35	4,535	1,566	5,772	0	5,772	0	275,572	0	52,815
	Jul	12,021	0	11,997	0.38	4,768	1,811	10,582	0	10,582	0	275,177	0	12,021
	Aug	2,498	0	2,493	0.38	4,734	1,822	7,696	0	7,696	0	268,152	0	2,498
	Sep	5,115	0	5,105	0.14	4,689	643	6,734	0	6,734	0	265,880	0	5,115
	Annual	141,848	0	141,565	1.67		7,585	96,200	0	96,200	0		0	141,848
1939	Oct	3,148	0	3,142	0.19	4,671	864	3,848	0	3,848	0	264,310	0	3,148
	Nov	495	0	494	0.05	4,620	229	8,658	0	8,658	0	255,918	0	495
	Dec	0	0	0	0.00	4,531	21	8,658	0	8,658	0	247,239	0	0
	Jan	0	0	0	-0.13	4,463	-560	4,810	0	4,810	0	242,989	0	0
	Feb	0	0	0	-0.06	4,411	-267	5,772	0	5,772	0	237,484	0	0
	Mar	4,784	0	4,774	0.08	4,342	338	11,544	0	11,544	0	230,376	0	4,784
	Apr	20,601	0	20,560	0.24	4,304	1,048	19,240	0	19,240	0	230,648	0	20,601
	May	36,278	0	36,206	0.49	4,471	2,177	2,886	0	2,886	0	261,790	0	36,278
	Jun	14,399	0	14,370	0.76	4,663	3,565	5,772	0	5,772	0	266,823	0	14,399
	Jul	743	0	742	0.44	4,627	2,039	10,582	0	10,582	0	254,944	0	743
	Aug	374	0	373	0.31	4,521	1,406	7,696	0	7,696	0	246,216	0	374
	Sep	2,402	0	2,398	0.18	4,447	785	6,734	0	6,734	0	241,094	0	2,402
	Annual	83,224	0	83,058	2.55		11,644	96,200	0	96,200	0		0	83,224
1940	Oct	151	0	151	0.15	4,396	664	3,848	0	3,848	0	236,734	0	151
	Nov	79	0	79	0.02	4,324	93	8,658	0	8,658	0	228,061	0	79
	Dec	0	0	0	-0.01	4,228	-50	8,658	0	8,658	0	219,453	0	0
	Jan	0	0	0	-0.15	4,155	-625	4,810	0	4,810	0	215,268	0	0
	Feb	0	0	0	-0.09	4,099	-361	5,772	0	5,772	0	209,857	0	0
	Mar	3,514	0	3,507	0.07	4,018	300	11,544	0	11,544	0	201,519	0	3,514
	Apr	16,412	0	16,379	0.24	3,946	959	19,240	0	19,240	0	197,699	0	16,412
	May	32,702	0	32,636	0.33	4,089	1,352	2,886	0	2,886	0	226,098	0	32,702
	Jun	13,046	0	13,020	0.40	4,286	1,703	5,772	0	5,772	0	231,642	0	13,046
	Jul	1,097	0	1,095	0.44	4,253	1,853	10,582	0	10,582	0	220,302	0	1,097
	Aug	1,046	0	1,044	0.33	4,143	1,383	7,696	0	7,696	0	212,267	0	1,046
	Sep	1,310	0	1,307	0.20	4,060	818	6,734	0	6,734	0	206,023	0	1,310
	Annual	69,357	0	69,218	1.94		8,090	96,200	0	96,200	0		0	69,357

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1941	Oct	2,929	0	2,923	0.17	4,014	667	3,848	0	3,848	0	204,431	0	2,929
	Nov	358	0	357	-0.09	3,956	-365	8,658	0	8,658	0	196,495	0	358
	Dec	328	0	328	-0.17	3,860	-643	8,658	0	8,658	0	188,808	0	328
	Jan	94	0	94	-0.11	3,786	-412	4,810	0	4,810	0	184,504	0	94
	Feb	57	0	57	0.01	3,721	24	5,772	0	5,772	0	178,766	0	57
	Mar	1,501	0	1,498	0.01	3,611	27	11,544	0	11,544	0	168,692	0	1,501
	Apr	10,581	0	10,560	0.05	3,472	160	19,240	0	19,240	0	159,853	0	10,581
	May	54,190	0	54,081	0.27	3,738	1,006	2,886	0	2,886	0	210,041	0	54,190
	Jun	55,965	0	55,853	0.17	4,342	724	5,772	0	5,772	0	259,398	0	55,965
	Jul	40,854	0	40,773	0.39	4,749	1,863	10,582	0	10,582	0	287,726	0	40,854
	Aug	8,527	0	8,510	0.32	4,880	1,551	7,696	0	7,696	0	286,989	0	8,527
	Sep	4,844	0	4,834	0.10	4,866	467	6,734	0	6,734	0	284,622	0	4,844
	Annual	180,229	0	179,869	1.10		5,069	96,200	0	96,200	0		0	180,229
1942	Oct	23,335	0	23,288	-0.05	4,945	-264	3,848	0	3,848	0	304,327	0	23,335
	Nov	7,425	0	7,410	0.07	5,027	335	8,658	0	8,658	0	302,744	0	7,425
	Dec	3,107	0	3,101	-0.09	4,997	-471	8,658	0	8,658	0	297,659	0	3,107
	Jan	1,656	0	1,653	0.03	4,959	154	4,810	0	4,810	0	294,348	0	1,656
	Feb	886	0	884	-0.01	4,922	-53	5,772	0	5,772	0	289,513	0	886
	Mar	3,022	0	3,016	0.01	4,861	61	11,544	0	11,544	0	280,924	0	3,022
	Apr	36,787	0	36,713	0.07	4,900	366	19,240	0	19,240	0	298,031	0	36,787
	May	41,562	0	41,479	0.45	5,146	2,337	2,886	0	2,886	0	334,287	0	41,562
	Jun	49,328	0	49,230	0.53	5,496	2,899	5,772	0	5,772	0	374,845	0	49,328
	Jul	11,167	0	11,144	0.45	5,670	2,549	10,582	0	10,582	0	372,859	0	11,167
	Aug	2,018	0	2,014	0.36	5,628	2,016	7,696	0	7,696	0	365,161	0	2,018
	Sep	806	0	804	0.35	5,559	1,918	6,734	0	6,734	0	357,314	0	806
	Annual	181,099	0	180,737	2.16		11,845	96,200	0	96,200	0		0	181,099
1943	Oct	228	0	228	0.22	5,502	1,234	3,848	0	3,848	0	352,459	0	228
	Nov	29	0	29	0.10	5,439	563	8,658	0	8,658	0	343,267	0	29
	Dec	0	0	0	-0.02	5,357	-114	8,658	0	8,658	0	334,723	0	0
	Jan	0	0	0	-0.01	5,295	-66	4,810	0	4,810	0	329,979	0	0
	Feb	0	0	0	0.04	5,245	206	5,772	0	5,772	0	324,002	0	0
	Mar	2,175	0	2,171	0.07	5,171	356	11,544	0	11,544	0	314,273	0	2,175
	Apr	32,011	0	31,947	0.29	5,178	1,479	19,240	0	19,240	0	325,501	0	32,011
	May	30,301	0	30,241	0.37	5,349	1,966	2,886	0	2,886	0	350,890	0	30,301
	Jun	24,207	0	24,159	0.41	5,538	2,296	5,772	0	5,772	0	366,981	0	24,207
	Jul	5,645	0	5,634	0.46	5,577	2,586	10,582	0	10,582	0	359,447	0	5,645
	Aug	2,298	0	2,293	0.23	5,513	1,245	7,696	0	7,696	0	352,799	0	2,298
	Sep	484	0	483	0.31	5,447	1,676	6,734	0	6,734	0	344,872	0	484
	Annual	97,379	0	97,184	2.47		13,426	96,200	0	96,200	0		0	97,379
1944	Oct	197	0	197	0.14	5,391	764	3,848	0	3,848	0	340,457	0	197
	Nov	65	0	65	0.04	5,330	228	8,658	0	8,658	0	331,636	0	65
	Dec	0	0	0	-0.19	5,253	-1,013	8,658	0	8,658	0	323,991	0	0
	Jan	0	0	0	-0.06	5,196	-293	4,810	0	4,810	0	319,473	0	0
	Feb	0	0	0	0.02	5,145	108	5,772	0	5,772	0	313,593	0	0
	Mar	143	0	143	0.05	5,065	259	11,544	0	11,544	0	301,933	0	143
	Apr	11,798	0	11,774	0.22	4,974	1,095	19,240	0	19,240	0	293,372	0	11,798
	May	45,284	0	45,193	0.36	5,122	1,850	2,886	0	2,886	0	333,830	0	45,284
	Jun	53,312	0	53,205	0.49	5,510	2,676	5,772	0	5,772	0	378,587	0	53,312
	Jul	16,151	0	16,118	0.29	5,728	1,657	10,582	0	10,582	0	382,466	0	16,151
	Aug	1,663	0	1,659	0.34	5,710	1,919	7,696	0	7,696	0	374,511	0	1,663
	Sep	162	0	161	0.29	5,640	1,619	6,734	0	6,734	0	366,319	0	162
	Annual	128,773	0	128,515	1.99		10,869	96,200	0	96,200	0		0	128,773
1945	Oct	778	0	777	0.11	5,587	596	3,848	0	3,848	0	362,651	0	778
	Nov	238	0	237	0.00	5,534	-20	8,658	0	8,658	0	354,251	0	238
	Dec	0	0	0	-0.13	5,460	-728	8,658	0	8,658	0	346,321	0	0
	Jan	30	0	30	-0.02	5,403	-107	4,810	0	4,810	0	341,648	0	30
	Feb	97	0	97	0.04	5,355	229	5,772	0	5,772	0	335,744	0	97
	Mar	1,019	0	1,017	-0.02	5,278	-99	11,544	0	11,544	0	325,317	0	1,019
	Apr	18,494	0	18,457	0.16	5,221	824	19,240	0	19,240	0	323,709	0	18,494
	May	52,312	0	52,207	0.41	5,429	2,220	2,886	0	2,886	0	370,810	0	52,312
	Jun	43,964	0	43,876	0.53	5,775	3,043	5,772	0	5,772	4,542	401,330	4,551	39,413
	Jul	9,213	0	9,195	0.32	5,892	1,860	10,582	0	10,582	0	398,083	0	9,213
	Aug	2,278	0	2,273	0.22	5,850	1,272	7,696	0	7,696	0	391,388	0	2,278
	Sep	78	0	77	0.36	5,784	2,093	6,734	0	6,734	0	382,638	0	78
	Annual	128,500	0	128,243	1.96		11,182	96,200	0	96,200	4,542		4,551	123,949

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1946	Oct	247	0	247	0.12	5,728	690	3,848	0	3,848	0	378,347	0	247
	Nov	0	0	0	0.09	5,670	504	8,658	0	8,658	0	369,185	0	0
	Dec	0	0	0	-0.08	5,593	-439	8,658	0	8,658	0	360,966	0	0
	Jan	0	0	0	-0.01	5,536	-52	4,810	0	4,810	0	356,208	0	0
	Feb	0	0	0	0.05	5,487	264	5,772	0	5,772	0	350,172	0	0
	Mar	1,026	0	1,023	0.07	5,410	376	11,544	0	11,544	0	339,276	0	1,026
	Apr	14,955	0	14,925	0.18	5,336	944	19,240	0	19,240	0	334,017	0	14,955
	May	12,222	0	12,197	0.36	5,345	1,933	2,886	0	2,886	0	341,395	0	12,222
	Jun	14,738	0	14,709	0.62	5,404	3,377	5,772	0	5,772	0	346,955	0	14,738
	Jul	1,159	0	1,157	0.38	5,377	2,054	10,582	0	10,582	0	335,475	0	1,159
	Aug	1,277	0	1,275	0.12	5,292	611	7,696	0	7,696	0	328,443	0	1,277
	Sep	1,207	0	1,204	0.24	5,227	1,256	6,734	0	6,734	0	321,657	0	1,207
	Annual	46,830	0	46,736	2.14		11,517	96,200	0	96,200	0		0	46,830
1947	Oct	1,291	0	1,288	0.08	5,181	405	3,848	0	3,848	0	318,692	0	1,291
	Nov	875	0	873	0.03	5,128	156	8,658	0	8,658	0	310,752	0	875
	Dec	261	0	260	0.05	5,052	276	8,658	0	8,658	0	302,079	0	261
	Jan	0	0	0	-0.02	4,993	-118	4,810	0	4,810	0	297,387	0	0
	Feb	61	0	60	0.03	4,946	130	5,772	0	5,772	0	291,545	0	61
	Mar	2,306	0	2,301	0.10	4,874	464	11,544	0	11,544	0	281,839	0	2,306
	Apr	10,606	0	10,585	0.26	4,783	1,247	19,240	0	19,240	0	271,937	0	10,606
	May	31,623	0	31,560	0.25	4,863	1,230	2,886	0	2,886	0	299,382	0	31,623
	Jun	23,815	0	23,768	0.63	5,057	3,203	5,772	0	5,772	0	314,175	0	23,815
	Jul	4,260	0	4,252	0.40	5,086	2,012	10,582	0	10,582	0	305,833	0	4,260
	Aug	4,433	0	4,424	0.16	5,030	792	7,696	0	7,696	0	301,769	0	4,433
	Sep	2,764	0	2,759	0.19	4,989	932	6,734	0	6,734	0	296,862	0	2,764
	Annual	82,294	0	82,130	2.15		10,725	96,200	0	96,200	0		0	82,294
1948	Oct	3,198	0	3,191	0.16	4,961	770	3,848	0	3,848	0	295,435	0	3,198
	Nov	756	0	755	0.03	4,918	142	8,658	0	8,658	0	287,390	0	756
	Dec	102	0	102	-0.05	4,842	-228	8,658	0	8,658	0	279,062	0	102
	Jan	0	0	0	0.01	4,781	42	4,810	0	4,810	0	274,210	0	0
	Feb	0	0	0	-0.01	4,731	-55	5,772	0	5,772	0	268,492	0	0
	Mar	565	0	564	0.02	4,649	79	11,544	0	11,544	0	257,433	0	565
	Apr	22,787	0	22,742	0.21	4,606	973	19,240	0	19,240	0	259,962	0	22,787
	May	45,070	0	44,980	0.30	4,810	1,419	2,886	0	2,886	0	300,637	0	45,070
	Jun	41,393	0	41,310	0.34	5,158	1,773	5,772	0	5,772	0	334,402	0	41,393
	Jul	8,010	0	7,994	0.39	5,293	2,043	10,582	0	10,582	0	329,771	0	8,010
	Aug	2,123	0	2,119	0.30	5,237	1,594	7,696	0	7,696	0	322,600	0	2,123
	Sep	187	0	187	0.24	5,166	1,234	6,734	0	6,734	0	314,819	0	187
	Annual	124,192	0	123,944	1.93		9,787	96,200	0	96,200	0		0	124,192
1949	Oct	97	0	97	0.13	5,109	655	3,848	0	3,848	0	310,412	0	97
	Nov	82	0	82	0.05	5,049	230	8,658	0	8,658	0	301,606	0	82
	Dec	0	0	0	-0.11	4,973	-528	8,658	0	8,658	0	293,477	0	0
	Jan	0	0	0	-0.17	4,918	-840	4,810	0	4,810	0	289,507	0	0
	Feb	0	0	0	-0.07	4,875	-319	5,772	0	5,772	0	284,055	0	0
	Mar	858	0	856	0.07	4,798	321	11,544	0	11,544	0	273,046	0	858
	Apr	20,282	0	20,242	0.12	4,749	588	19,240	0	19,240	0	273,460	0	20,282
	May	40,873	0	40,791	0.30	4,917	1,456	2,886	0	2,886	0	309,909	0	40,873
	Jun	50,619	0	50,517	0.22	5,287	1,145	5,772	0	5,772	0	353,509	0	50,619
	Jul	22,545	0	22,500	0.29	5,536	1,627	10,582	0	10,582	0	363,800	0	22,545
	Aug	3,600	0	3,593	0.36	5,555	1,978	7,696	0	7,696	0	357,719	0	3,600
	Sep	665	0	663	0.27	5,494	1,467	6,734	0	6,734	0	350,182	0	665
	Annual	139,620	0	139,341	1.45		7,778	96,200	0	96,200	0		0	139,620
1950	Oct	255	0	254	0.12	5,440	676	3,848	0	3,848	0	345,912	0	255
	Nov	237	0	237	0.06	5,380	347	8,658	0	8,658	0	337,144	0	237
	Dec	0	0	0	0.02	5,299	125	8,658	0	8,658	0	328,361	0	0
	Jan	0	0	0	-0.06	5,237	-296	4,810	0	4,810	0	323,846	0	0
	Feb	0	0	0	0.03	5,186	170	5,772	0	5,772	0	317,905	0	0
	Mar	1,433	0	1,431	0.09	5,110	437	11,544	0	11,544	0	307,354	0	1,433
	Apr	22,447	0	22,402	0.23	5,070	1,154	19,240	0	19,240	0	309,362	0	22,447
	May	21,610	0	21,566	0.38	5,158	1,946	2,886	0	2,886	0	326,097	0	21,610
	Jun	17,252	0	17,217	0.54	5,277	2,847	5,772	0	5,772	0	334,695	0	17,252
	Jul	2,829	0	2,823	0.35	5,272	1,833	10,582	0	10,582	0	325,103	0	2,829
	Aug	438	0	437	0.40	5,183	2,050	7,696	0	7,696	0	315,794	0	438
	Sep	347	0	346	0.20	5,105	1,007	6,734	0	6,734	0	308,399	0	347
	Annual	66,848	0	66,714	2.36		12,297	96,200	0	96,200	0		0	66,848

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1951	Oct	213	0	213	0.19	5,050	974	3,848	0	3,848	0	303,790	0	213
	Nov	0	0	0	0.07	4,988	364	8,658	0	8,658	0	294,768	0	0
	Dec	0	0	0	-0.05	4,909	-232	8,658	0	8,658	0	286,342	0	0
	Jan	0	0	0	-0.08	4,851	-396	4,810	0	4,810	0	281,928	0	0
	Feb	0	0	0	0.00	4,803	15	5,772	0	5,772	0	276,142	0	0
	Mar	383	0	382	0.11	4,721	500	11,544	0	11,544	0	264,480	0	383
	Apr	6,484	0	6,471	0.14	4,596	632	19,240	0	19,240	0	251,080	0	6,484
	May	20,752	0	20,711	0.36	4,610	1,651	2,886	0	2,886	0	267,253	0	20,752
	Jun	17,686	0	17,651	0.60	4,735	2,850	5,772	0	5,772	0	276,282	0	17,686
	Jul	960	0	958	0.54	4,719	2,531	10,582	0	10,582	0	264,128	0	960
	Aug	1,355	0	1,352	0.22	4,624	1,001	7,696	0	7,696	0	256,782	0	1,355
	Sep	361	0	360	0.30	4,545	1,343	6,734	0	6,734	0	249,065	0	361
	Annual	48,195	0	48,098	2.39		11,232	96,200	0	96,200	0		0	48,195
1952	Oct	117	0	117	0.15	4,482	685	3,848	0	3,848	0	244,649	0	117
	Nov	5	0	5	0.03	4,411	119	8,658	0	8,658	0	235,877	0	5
	Dec	0	0	0	-0.18	4,319	-784	8,658	0	8,658	0	228,003	0	0
	Jan	0	0	0	-0.09	4,252	-393	4,810	0	4,810	0	223,586	0	0
	Feb	0	0	0	0.02	4,194	93	5,772	0	5,772	0	217,721	0	0
	Mar	421	0	420	0.10	4,093	398	11,544	0	11,544	0	206,199	0	421
	Apr	27,532	0	27,477	0.15	4,070	617	19,240	0	19,240	0	213,819	0	27,532
	May	52,331	0	52,226	0.33	4,376	1,453	2,886	0	2,886	0	261,706	0	52,331
	Jun	53,698	0	53,591	0.45	4,850	2,200	5,772	0	5,772	0	307,325	0	53,698
	Jul	18,300	0	18,264	0.39	5,087	1,969	10,582	0	10,582	0	313,038	0	18,300
	Aug	5,171	0	5,161	0.32	5,094	1,640	7,696	0	7,696	0	308,863	0	5,171
	Sep	925	0	923	0.26	5,043	1,302	6,734	0	6,734	0	301,749	0	925
	Annual	158,500	0	158,183	1.93		9,299	96,200	0	96,200	0		0	158,500
1953	Oct	151	0	151	0.27	4,988	1,329	3,848	0	3,848	0	296,723	0	151
	Nov	27	0	27	-0.12	4,929	-569	8,658	0	8,658	0	288,661	0	27
	Dec	0	0	0	-0.03	4,853	-148	8,658	0	8,658	0	280,151	0	0
	Jan	0	0	0	0.02	4,791	81	4,810	0	4,810	0	275,261	0	0
	Feb	0	0	0	0.04	4,739	184	5,772	0	5,772	0	269,304	0	0
	Mar	2,550	0	2,545	0.12	4,664	556	11,544	0	11,544	0	259,750	0	2,550
	Apr	14,800	0	14,770	0.23	4,588	1,049	19,240	0	19,240	0	254,232	0	14,800
	May	19,424	0	19,385	0.34	4,635	1,560	2,886	0	2,886	0	269,171	0	19,424
	Jun	30,189	0	30,129	0.48	4,813	2,294	5,772	0	5,772	0	291,234	0	30,189
	Jul	3,469	0	3,462	0.32	4,876	1,563	10,582	0	10,582	0	282,551	0	3,469
	Aug	981	0	979	0.29	4,798	1,412	7,696	0	7,696	0	274,422	0	981
	Sep	0	0	0	0.38	4,719	1,806	6,734	0	6,734	0	265,883	0	0
	Annual	71,592	0	71,449	2.33		11,115	96,200	0	96,200	0		0	71,592
1954	Oct	314	0	313	0.14	4,658	641	3,848	0	3,848	0	261,707	0	314
	Nov	118	0	118	0.03	4,593	124	8,658	0	8,658	0	253,043	0	118
	Dec	0	0	0	-0.03	4,502	-144	8,658	0	8,658	0	244,529	0	0
	Jan	0	0	0	0.02	4,430	75	4,810	0	4,810	0	239,644	0	0
	Feb	0	0	0	0.09	4,370	377	5,772	0	5,772	0	233,495	0	0
	Mar	254	0	253	-0.01	4,274	-49	11,544	0	11,544	0	222,253	0	254
	Apr	18,059	0	18,023	0.27	4,197	1,153	19,240	0	19,240	0	219,883	0	18,059
	May	25,262	0	25,211	0.22	4,303	960	2,886	0	2,886	0	241,249	0	25,262
	Jun	9,660	0	9,641	0.51	4,431	2,246	5,772	0	5,772	0	242,871	0	9,660
	Jul	2,222	0	2,217	0.33	4,385	1,466	10,582	0	10,582	0	233,041	0	2,222
	Aug	1,826	0	1,823	0.26	4,293	1,109	7,696	0	7,696	0	226,058	0	1,826
	Sep	643	0	642	0.21	4,215	885	6,734	0	6,734	0	219,082	0	643
	Annual	58,358	0	58,241	2.03		8,842	96,200	0	96,200	0		0	58,358
1955	Oct	600	0	599	0.15	4,153	624	3,848	0	3,848	0	215,208	0	600
	Nov	7	0	7	0.09	4,078	362	8,658	0	8,658	0	206,195	0	7
	Dec	0	0	0	0.02	3,973	96	8,658	0	8,658	0	197,441	0	0
	Jan	0	0	0	0.00	3,890	-6	4,810	0	4,810	0	192,637	0	0
	Feb	0	0	0	-0.07	3,826	-250	5,772	0	5,772	0	187,115	0	0
	Mar	256	0	256	0.12	3,713	439	11,544	0	11,544	0	175,389	0	256
	Apr	7,157	0	7,143	0.22	3,540	792	19,240	0	19,240	0	162,500	0	7,157
	May	21,648	0	21,604	0.30	3,574	1,071	2,886	0	2,886	0	180,148	0	21,648
	Jun	22,982	0	22,936	0.53	3,797	2,022	5,772	0	5,772	0	195,290	0	22,982
	Jul	2,370	0	2,365	0.28	3,835	1,089	10,582	0	10,582	0	185,985	0	2,370
	Aug	2,948	0	2,943	0.21	3,742	777	7,696	0	7,696	0	180,454	0	2,948
	Sep	356	0	355	0.32	3,653	1,153	6,734	0	6,734	0	172,923	0	356
	Annual	58,325	0	58,208	2.18		8,167	96,200	0	96,200	0		0	58,325

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1956	Oct	32	0	32	0.21	3,566	748	3,848	0	3,848	0	168,359	0	32
	Nov	2	0	2	0.02	3,468	75	8,658	0	8,658	0	159,628	0	2
	Dec	0	0	0	-0.05	3,337	-166	8,658	0	8,658	0	151,136	0	0
	Jan	0	0	0	-0.03	3,233	-104	4,810	0	4,810	0	146,430	0	0
	Feb	0	0	0	0.00	3,151	-8	5,772	0	5,772	0	140,666	0	0
	Mar	4,695	0	4,686	0.14	3,049	437	11,544	0	11,544	0	133,372	0	4,695
	Apr	14,242	0	14,214	0.24	2,945	697	19,240	0	19,240	0	127,648	0	14,242
	May	31,271	0	31,209	0.36	3,114	1,134	2,886	0	2,886	0	154,836	0	31,271
	Jun	21,580	0	21,536	0.53	3,434	1,817	5,772	0	5,772	0	168,784	0	21,580
	Jul	1,031	0	1,029	0.42	3,457	1,456	10,582	0	10,582	0	157,774	0	1,031
	Aug	373	0	372	0.36	3,308	1,184	7,696	0	7,696	0	149,266	0	373
	Sep	0	0	0	0.44	3,178	1,386	6,734	0	6,734	0	141,146	0	0
	Annual	73,226	0	73,079	2.64		8,656	96,200	0	96,200	0		0	73,226
1957	Oct	67	0	67	0.15	3,081	466	3,848	0	3,848	0	136,899	0	67
	Nov	0	0	0	0.07	2,977	215	8,658	0	8,658	0	128,026	0	0
	Dec	0	0	0	0.05	2,831	132	8,658	0	8,658	0	119,236	0	0
	Jan	0	0	0	-0.21	2,719	-582	4,810	0	4,810	0	115,008	0	0
	Feb	0	0	0	0.02	2,626	57	5,772	0	5,772	0	109,179	0	0
	Mar	804	0	803	0.07	2,459	176	11,544	0	11,544	0	98,261	0	804
	Apr	12,375	0	12,351	0.14	2,270	312	19,240	0	19,240	0	91,060	0	12,375
	May	24,397	0	24,348	0.08	2,411	194	2,886	0	2,886	0	112,328	0	24,397
	Jun	56,225	0	56,112	0.33	3,032	1,014	5,772	0	5,772	0	161,654	0	56,225
	Jul	40,230	0	40,150	0.22	3,634	809	10,582	0	10,582	0	190,412	0	40,230
	Aug	15,164	0	15,134	0.14	3,876	529	7,696	0	7,696	0	197,321	0	15,164
	Sep	3,560	0	3,553	0.33	3,891	1,301	6,734	0	6,734	0	192,839	0	3,560
	Annual	152,822	0	152,516	1.40		4,624	96,200	0	96,200	0		0	152,822
1958	Oct	2,314	0	2,310	0.04	3,853	138	3,848	0	3,848	0	191,162	0	2,314
	Nov	2,930	0	2,924	-0.07	3,808	-278	8,658	0	8,658	0	185,706	0	2,930
	Dec	1,057	0	1,055	0.02	3,723	64	8,658	0	8,658	0	178,039	0	1,057
	Jan	572	0	571	-0.11	3,645	-400	4,810	0	4,810	0	174,201	0	572
	Feb	324	0	323	-0.06	3,580	-214	5,772	0	5,772	0	168,966	0	324
	Mar	1,639	0	1,635	-0.01	3,468	-37	11,544	0	11,544	0	159,094	0	1,639
	Apr	17,306	0	17,272	0.10	3,378	328	19,240	0	19,240	0	156,798	0	17,306
	May	52,315	0	52,211	0.34	3,685	1,240	2,886	0	2,886	0	204,882	0	52,315
	Jun	40,475	0	40,395	0.51	4,195	2,143	5,772	0	5,772	0	237,361	0	40,475
	Jul	4,408	0	4,399	0.43	4,336	1,845	10,582	0	10,582	0	229,333	0	4,408
	Aug	1,712	0	1,709	0.30	4,250	1,269	7,696	0	7,696	0	222,076	0	1,712
	Sep	2,548	0	2,542	0.24	4,180	986	6,734	0	6,734	0	216,899	0	2,548
	Annual	127,600	0	127,345	1.70		7,085	96,200	0	96,200	0		0	127,600
1959	Oct	464	0	463	0.14	4,127	581	3,848	0	3,848	0	212,933	0	464
	Nov	8	0	8	0.08	4,052	314	8,658	0	8,658	0	203,970	0	8
	Dec	0	0	0	0.06	3,945	220	8,658	0	8,658	0	195,092	0	0
	Jan	0	0	0	0.05	3,860	186	4,810	0	4,810	0	190,096	0	0
	Feb	0	0	0	0.00	3,793	9	5,772	0	5,772	0	184,315	0	0
	Mar	215	0	215	0.09	3,675	340	11,544	0	11,544	0	172,646	0	215
	Apr	8,692	0	8,675	0.23	3,511	811	19,240	0	19,240	0	161,269	0	8,692
	May	15,714	0	15,683	0.39	3,512	1,357	2,886	0	2,886	0	172,709	0	15,714
	Jun	16,677	0	16,643	0.45	3,661	1,642	5,772	0	5,772	0	181,938	0	16,677
	Jul	414	0	413	0.43	3,643	1,555	10,582	0	10,582	0	170,214	0	414
	Aug	2,061	0	2,057	0.19	3,514	667	7,696	0	7,696	0	163,909	0	2,061
	Sep	178	0	177	0.34	3,409	1,162	6,734	0	6,734	0	156,189	0	178
	Annual	44,423	0	44,334	2.44		8,843	96,200	0	96,200	0		0	44,423
1960	Oct	5,119	0	5,109	0.01	3,360	49	3,848	0	3,848	0	157,401	0	5,119
	Nov	3,052	0	3,046	0.08	3,323	256	8,658	0	8,658	0	151,532	0	3,052
	Dec	119	0	119	-0.10	3,213	-325	8,658	0	8,658	0	143,318	0	119
	Jan	0	0	0	-0.05	3,112	-149	4,810	0	4,810	0	138,656	0	0
	Feb	40	0	40	-0.04	3,032	-119	5,772	0	5,772	0	133,044	0	40
	Mar	4,213	0	4,204	0.06	2,925	190	11,544	0	11,544	0	125,514	0	4,213
	Apr	37,347	0	37,272	0.22	3,002	657	19,240	0	19,240	0	142,889	0	37,347
	May	32,839	0	32,773	0.31	3,362	1,037	2,886	0	2,886	0	171,739	0	32,839
	Jun	42,375	0	42,290	0.46	3,805	1,764	5,772	0	5,772	0	206,494	0	42,375
	Jul	6,210	0	6,197	0.43	3,992	1,698	10,582	0	10,582	0	200,410	0	6,210
	Aug	513	0	512	0.45	3,901	1,763	7,696	0	7,696	0	191,463	0	513
	Sep	94	0	94	0.31	3,797	1,179	6,734	0	6,734	0	183,645	0	94
	Annual	131,920	0	131,656	2.15		8,001	96,200	0	96,200	0		0	131,920

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1961	Oct	37	0	37	0.06	3,721	224	3,848	0	3,848	0	179,610	0	37
	Nov	5	0	5	0.05	3,631	195	8,658	0	8,658	0	170,762	0	5
	Dec	0	0	0	-0.09	3,507	-320	8,658	0	8,658	0	162,424	0	0
	Jan	0	0	0	0.01	3,408	46	4,810	0	4,810	0	157,568	0	0
	Feb	0	0	0	0.00	3,326	16	5,772	0	5,772	0	151,780	0	0
	Mar	807	0	806	0.00	3,197	0	11,544	0	11,544	0	141,042	0	807
	Apr	17,554	0	17,518	0.17	3,095	540	19,240	0	19,240	0	138,780	0	17,554
	May	35,771	0	35,700	0.34	3,320	1,123	2,886	0	2,886	0	170,471	0	35,771
	Jun	19,251	0	19,212	0.39	3,648	1,423	5,772	0	5,772	0	182,488	0	19,251
	Jul	1,964	0	1,960	0.34	3,664	1,234	10,582	0	10,582	0	172,632	0	1,964
	Aug	3,002	0	2,996	0.07	3,559	261	7,696	0	7,696	0	167,670	0	3,002
	Sep	3,132	0	3,126	0.02	3,496	58	6,734	0	6,734	0	164,004	0	3,132
	Annual	81,522	0	81,359	1.37		4,799	96,200	0	96,200	0		0	81,522
1962	Oct	2,259	0	2,255	-0.04	3,458	-141	3,848	0	3,848	0	162,553	0	2,259
	Nov	1,121	0	1,119	-0.01	3,390	-43	8,658	0	8,658	0	155,056	0	1,121
	Dec	96	0	96	-0.07	3,267	-241	8,658	0	8,658	0	146,735	0	96
	Jan	116	0	116	-0.01	3,165	-37	4,810	0	4,810	0	142,078	0	116
	Feb	757	0	756	-0.06	3,092	-200	5,772	0	5,772	0	137,262	0	757
	Mar	1,341	0	1,338	0.06	2,970	181	11,544	0	11,544	0	126,875	0	1,341
	Apr	33,132	0	33,066	0.23	2,992	680	19,240	0	19,240	0	140,022	0	33,132
	May	38,856	0	38,778	0.39	3,361	1,299	2,886	0	2,886	0	174,615	0	38,856
	Jun	35,370	0	35,300	0.48	3,802	1,814	5,772	0	5,772	0	202,329	0	35,370
	Jul	7,230	0	7,215	0.32	3,951	1,263	10,582	0	10,582	0	197,700	0	7,230
	Aug	750	0	748	0.35	3,872	1,339	7,696	0	7,696	0	189,413	0	750
	Sep	401	0	400	0.03	3,780	97	6,734	0	6,734	0	182,983	0	401
	Annual	121,431	0	121,188	1.64		6,010	96,200	0	96,200	0		0	121,431
1963	Oct	755	0	753	0.13	3,715	500	3,848	0	3,848	0	179,388	0	755
	Nov	173	0	173	-0.10	3,633	-347	8,658	0	8,658	0	171,250	0	173
	Dec	0	0	0	0.04	3,511	151	8,658	0	8,658	0	162,442	0	0
	Jan	0	0	0	-0.02	3,410	-78	4,810	0	4,810	0	157,710	0	0
	Feb	0	0	0	-0.03	3,330	-86	5,772	0	5,772	0	152,024	0	0
	Mar	4,094	0	4,086	0.01	3,226	37	11,544	0	11,544	0	144,529	0	4,094
	Apr	16,509	0	16,476	0.26	3,139	821	19,240	0	19,240	0	140,945	0	16,509
	May	28,360	0	28,303	0.42	3,297	1,373	2,886	0	2,886	0	164,989	0	28,360
	Jun	6,595	0	6,582	0.45	3,478	1,549	5,772	0	5,772	0	164,250	0	6,595
	Jul	824	0	823	0.35	3,389	1,171	10,582	0	10,582	0	153,319	0	824
	Aug	550	0	549	0.16	3,244	525	7,696	0	7,696	0	145,647	0	550
	Sep	620	0	619	0.20	3,131	629	6,734	0	6,734	0	138,904	0	620
	Annual	58,480	0	58,363	1.88		6,243	96,200	0	96,200	0		0	58,480
1964	Oct	142	0	142	0.12	3,048	359	3,848	0	3,848	0	134,838	0	142
	Nov	18	0	18	0.07	2,944	217	8,658	0	8,658	0	125,982	0	18
	Dec	0	0	0	0.06	2,795	169	8,658	0	8,658	0	117,155	0	0
	Jan	0	0	0	0.00	2,675	-6	4,810	0	4,810	0	112,352	0	0
	Feb	0	0	0	0.00	2,575	-8	5,772	0	5,772	0	106,587	0	0
	Mar	95	0	95	0.05	2,398	120	11,544	0	11,544	0	95,018	0	95
	Apr	7,083	0	7,068	0.19	2,138	407	19,240	0	19,240	0	82,440	0	7,083
	May	31,611	0	31,548	0.37	2,294	847	2,886	0	2,886	0	110,255	0	31,611
	Jun	12,481	0	12,456	0.52	2,641	1,362	5,772	0	5,772	0	115,577	0	12,481
	Jul	2,580	0	2,575	0.28	2,608	737	10,582	0	10,582	0	106,833	0	2,580
	Aug	6,898	0	6,884	0.17	2,512	416	7,696	0	7,696	0	105,606	0	6,898
	Sep	671	0	669	0.11	2,435	257	6,734	0	6,734	0	99,284	0	671
	Annual	61,578	0	61,455	1.92		4,874	96,200	0	96,200	0		0	61,578
1965	Oct	157	0	157	0.21	2,325	496	3,848	0	3,848	0	95,098	0	157
	Nov	12	0	12	-0.01	2,186	-32	8,658	0	8,658	0	86,483	0	12
	Dec	0	0	0	-0.17	1,993	-342	8,658	0	8,658	0	78,167	0	0
	Jan	0	0	0	-0.11	1,836	-209	4,810	0	4,810	0	73,566	0	0
	Feb	0	0	0	-0.02	1,718	-27	5,772	0	5,772	0	67,822	0	0
	Mar	271	0	270	0.07	1,542	102	11,544	0	11,544	0	56,446	0	271
	Apr	18,000	0	17,964	0.20	1,410	284	19,240	0	19,240	0	54,887	0	18,000
	May	40,606	0	40,525	0.27	1,804	489	2,886	0	2,886	0	92,036	0	40,606
	Jun	51,940	0	51,836	0.32	2,633	830	5,772	0	5,772	0	137,270	0	51,940
	Jul	30,494	0	30,434	0.23	3,204	739	10,582	0	10,582	0	156,383	0	30,494
	Aug	5,857	0	5,845	0.22	3,333	731	7,696	0	7,696	0	153,801	0	5,857
	Sep	5,450	0	5,439	0.06	3,302	195	6,734	0	6,734	0	152,311	0	5,450
	Annual	152,788	0	152,482	1.26		3,255	96,200	0	96,200	0		0	152,788

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1966	Oct	5,399	0	5,388	0.09	3,299	311	3,848	0	3,848	0	153,541	0	5,399
	Nov	1,901	0	1,898	-0.05	3,257	-148	8,658	0	8,658	0	146,929	0	1,901
	Dec	1,047	0	1,045	-0.08	3,147	-251	8,658	0	8,658	0	139,567	0	1,047
	Jan	827	0	826	0.01	3,059	39	4,810	0	4,810	0	135,543	0	827
	Feb	255	0	254	0.02	2,982	62	5,772	0	5,772	0	129,963	0	255
	Mar	5,329	0	5,318	0.11	2,882	324	11,544	0	11,544	0	123,413	0	5,329
	Apr	26,944	0	26,890	0.28	2,885	796	19,240	0	19,240	0	130,267	0	26,944
	May	46,721	0	46,627	0.36	3,270	1,170	2,886	0	2,886	0	172,839	0	46,721
	Jun	24,588	0	24,539	0.35	3,715	1,310	5,772	0	5,772	0	190,295	0	24,588
	Jul	4,374	0	4,365	0.27	3,786	1,014	10,582	0	10,582	0	183,064	0	4,374
	Aug	1,625	0	1,622	0.23	3,693	838	7,696	0	7,696	0	176,152	0	1,625
	Sep	188	0	188	0.22	3,593	798	6,734	0	6,734	0	168,808	0	188
	Annual	119,198	0	118,960	1.82		6,263	96,200	0	96,200	0		0	119,198
1967	Oct	176	0	175	0.21	3,507	729	3,848	0	3,848	0	164,406	0	176
	Nov	4	0	4	0.08	3,407	272	8,658	0	8,658	0	155,481	0	4
	Dec	852	0	850	-0.19	3,282	-613	8,658	0	8,658	0	148,286	0	852
	Jan	0	0	0	-0.01	3,188	-24	4,810	0	4,810	0	143,500	0	0
	Feb	0	0	0	0.07	3,104	219	5,772	0	5,772	0	137,509	0	0
	Mar	3,183	0	3,176	0.13	2,987	398	11,544	0	11,544	0	128,744	0	3,183
	Apr	11,120	0	11,098	0.28	2,842	783	19,240	0	19,240	0	119,819	0	11,120
	May	23,085	0	23,039	0.37	2,923	1,086	2,886	0	2,886	0	138,886	0	23,085
	Jun	25,706	0	25,654	0.26	3,228	848	5,772	0	5,772	0	157,921	0	25,706
	Jul	7,728	0	7,712	0.22	3,349	722	10,582	0	10,582	0	154,330	0	7,728
	Aug	9,653	0	9,634	0.01	3,336	18	7,696	0	7,696	0	156,249	0	9,653
	Sep	3,407	0	3,400	0.13	3,322	425	6,734	0	6,734	0	152,491	0	3,407
	Annual	84,912	0	84,743	1.56		4,861	96,200	0	96,200	0		0	84,912
1968	Oct	601	0	600	0.16	3,262	522	3,848	0	3,848	0	148,720	0	601
	Nov	112	0	112	0.10	3,164	314	8,658	0	8,658	0	139,860	0	112
	Dec	0	0	0	-0.08	3,027	-252	8,658	0	8,658	0	131,454	0	0
	Jan	0	0	0	0.00	2,922	6	4,810	0	4,810	0	126,638	0	0
	Feb	0	0	0	-0.04	2,835	-121	5,772	0	5,772	0	120,987	0	0
	Mar	1,610	0	1,606	0.08	2,694	224	11,544	0	11,544	0	110,825	0	1,610
	Apr	8,004	0	7,988	0.18	2,484	451	19,240	0	19,240	0	99,122	0	8,004
	May	27,078	0	27,024	0.27	2,590	700	2,886	0	2,886	0	122,560	0	27,078
	Jun	39,763	0	39,684	0.41	3,074	1,246	5,772	0	5,772	0	155,226	0	39,763
	Jul	7,963	0	7,947	0.27	3,308	906	10,582	0	10,582	0	151,685	0	7,963
	Aug	12,126	0	12,101	0.14	3,311	449	7,696	0	7,696	0	155,641	0	12,126
	Sep	636	0	634	0.23	3,287	757	6,734	0	6,734	0	148,784	0	636
	Annual	97,892	0	97,696	1.72		5,202	96,200	0	96,200	0		0	97,892
1969	Oct	301	0	300	0.13	3,202	420	3,848	0	3,848	0	144,817	0	301
	Nov	13	0	13	0.01	3,103	44	8,658	0	8,658	0	136,128	0	13
	Dec	0	0	0	0.00	2,966	-13	8,658	0	8,658	0	127,483	0	0
	Jan	0	0	0	-0.19	2,861	-543	4,810	0	4,810	0	123,216	0	0
	Feb	0	0	0	0.01	2,775	25	5,772	0	5,772	0	117,418	0	0
	Mar	598	0	597	0.07	2,619	176	11,544	0	11,544	0	106,295	0	598
	Apr	23,405	0	23,358	0.23	2,548	575	19,240	0	19,240	0	109,838	0	23,405
	May	41,751	0	41,667	0.21	2,902	617	2,886	0	2,886	0	148,002	0	41,751
	Jun	32,529	0	32,464	0.27	3,417	914	5,772	0	5,772	0	173,780	0	32,529
	Jul	13,287	0	13,261	0.34	3,623	1,214	10,582	0	10,582	0	175,245	0	13,287
	Aug	4,740	0	4,730	0.04	3,611	152	7,696	0	7,696	0	172,127	0	4,740
	Sep	3,332	0	3,326	0.04	3,563	132	6,734	0	6,734	0	168,587	0	3,332
	Annual	119,956	0	119,716	1.15		3,714	96,200	0	96,200	0		0	119,956
1970	Oct	4,276	0	4,267	-0.03	3,540	-114	3,848	0	3,848	0	169,120	0	4,276
	Nov	2,464	0	2,459	0.05	3,497	182	8,658	0	8,658	0	162,739	0	2,464
	Dec	393	0	393	-0.04	3,388	-130	8,658	0	8,658	0	154,604	0	393
	Jan	0	0	0	0.03	3,287	97	4,810	0	4,810	0	149,697	0	0
	Feb	0	0	0	0.08	3,201	268	5,772	0	5,772	0	143,657	0	0
	Mar	259	0	258	0.02	3,064	63	11,544	0	11,544	0	132,309	0	259
	Apr	6,451	0	6,438	0.20	2,863	577	19,240	0	19,240	0	118,929	0	6,451
	May	35,058	0	34,987	0.39	3,001	1,176	2,886	0	2,886	0	149,854	0	35,058
	Jun	24,176	0	24,128	0.37	3,382	1,263	5,772	0	5,772	0	166,947	0	24,176
	Jul	7,128	0	7,114	0.32	3,478	1,125	10,582	0	10,582	0	162,355	0	7,128
	Aug	1,902	0	1,898	0.27	3,392	922	7,696	0	7,696	0	155,634	0	1,902
	Sep	15,026	0	14,996	0.18	3,400	612	6,734	0	6,734	0	163,284	0	15,026
	Annual	97,131	0	96,937	1.86		6,040	96,200	0	96,200	0		0	97,131

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1971	Oct	2,840	0	2,834	0.08	3,449	265	3,848	0	3,848	0	162,006	0	2,840
	Nov	1,543	0	1,540	0.05	3,383	153	8,658	0	8,658	0	154,735	0	1,543
	Dec	315	0	315	0.02	3,260	81	8,658	0	8,658	0	146,311	0	315
	Jan	381	0	380	-0.02	3,160	-62	4,810	0	4,810	0	141,943	0	381
	Feb	540	0	539	0.02	3,085	67	5,772	0	5,772	0	136,643	0	540
	Mar	3,311	0	3,304	0.11	2,975	338	11,544	0	11,544	0	128,065	0	3,311
	Apr	12,865	0	12,839	0.23	2,846	658	19,240	0	19,240	0	121,007	0	12,865
	May	13,292	0	13,265	0.34	2,866	966	2,886	0	2,886	0	130,420	0	13,292
	Jun	20,991	0	20,949	0.52	3,052	1,584	5,772	0	5,772	0	144,012	0	20,991
	Jul	4,199	0	4,191	0.37	3,099	1,139	10,582	0	10,582	0	136,481	0	4,199
	Aug	3,471	0	3,464	0.23	3,002	682	7,696	0	7,696	0	131,568	0	3,471
	Sep	982	0	980	0.18	2,912	534	6,734	0	6,734	0	125,279	0	982
	Annual	64,730	0	64,601	2.13		6,405	96,200	0	96,200	0		0	64,730
1972	Oct	3,033	0	3,026	0.04	2,852	117	3,848	0	3,848	0	124,341	0	3,033
	Nov	2,469	0	2,464	0.04	2,790	107	8,658	0	8,658	0	118,040	0	2,469
	Dec	849	0	847	-0.10	2,665	-275	8,658	0	8,658	0	110,504	0	849
	Jan	609	0	608	0.03	2,554	66	4,810	0	4,810	0	106,236	0	609
	Feb	326	0	325	0.04	2,456	106	5,772	0	5,772	0	100,683	0	326
	Mar	5,572	0	5,561	0.16	2,331	379	11,544	0	11,544	0	94,322	0	5,572
	Apr	9,303	0	9,284	0.30	2,146	641	19,240	0	19,240	0	83,724	0	9,303
	May	10,603	0	10,582	0.47	2,103	998	2,886	0	2,886	0	90,422	0	10,603
	Jun	8,698	0	8,680	0.41	2,199	899	5,772	0	5,772	0	92,431	0	8,698
	Jul	471	0	470	0.48	2,096	1,012	10,582	0	10,582	0	81,307	0	471
	Aug	57	0	57	0.33	1,868	618	7,696	0	7,696	0	73,050	0	57
	Sep	430	0	429	0.17	1,698	282	6,734	0	6,734	0	66,462	0	430
	Annual	42,420	0	42,335	2.37		4,952	96,200	0	96,200	0		0	42,420
1973	Oct	16,703	0	16,670	-0.12	1,780	-214	3,848	0	3,848	0	79,498	0	16,703
	Nov	4,200	0	4,192	-0.03	1,872	-64	8,658	0	8,658	0	75,096	0	4,200
	Dec	2,091	0	2,086	-0.09	1,746	-162	8,658	0	8,658	0	68,687	0	2,091
	Jan	1,559	0	1,556	-0.05	1,644	-75	4,810	0	4,810	0	65,507	0	1,559
	Feb	1,180	0	1,178	0.00	1,567	-1	5,772	0	5,772	0	60,914	0	1,180
	Mar	1,926	0	1,922	-0.04	1,424	-50	11,544	0	11,544	0	51,342	0	1,926
	Apr	11,845	0	11,822	0.16	1,245	203	19,240	0	19,240	0	43,721	0	11,845
	May	48,778	0	48,680	0.24	1,657	392	2,886	0	2,886	0	89,122	0	48,778
	Jun	56,247	0	56,135	0.41	2,611	1,080	5,772	0	5,772	0	138,405	0	56,247
	Jul	30,367	0	30,307	0.31	3,219	989	10,582	0	10,582	0	157,140	0	30,367
	Aug	4,397	0	4,388	0.32	3,331	1,051	7,696	0	7,696	0	152,781	0	4,397
	Sep	2,061	0	2,057	0.26	3,253	836	6,734	0	6,734	0	147,267	0	2,061
	Annual	181,354	0	180,991	1.37		3,986	96,200	0	96,200	0		0	181,354
1974	Oct	1,046	0	1,044	0.18	3,183	576	3,848	0	3,848	0	143,888	0	1,046
	Nov	89	0	89	0.07	3,088	203	8,658	0	8,658	0	135,116	0	89
	Dec	20	0	20	-0.05	2,951	-162	8,658	0	8,658	0	126,641	0	20
	Jan	0	0	0	-0.09	2,844	-252	4,810	0	4,810	0	122,083	0	0
	Feb	0	0	0	0.03	2,754	84	5,772	0	5,772	0	116,227	0	0
	Mar	3,246	0	3,240	0.07	2,622	194	11,544	0	11,544	0	107,728	0	3,246
	Apr	8,552	0	8,535	0.26	2,425	623	19,240	0	19,240	0	96,401	0	8,552
	May	23,900	0	23,852	0.49	2,505	1,217	2,886	0	2,886	0	116,150	0	23,900
	Jun	9,513	0	9,494	0.45	2,724	1,229	5,772	0	5,772	0	118,643	0	9,513
	Jul	2,288	0	2,284	0.37	2,659	975	10,582	0	10,582	0	109,369	0	2,288
	Aug	2,270	0	2,265	0.25	2,513	623	7,696	0	7,696	0	103,315	0	2,270
	Sep	43	0	43	0.32	2,376	750	6,734	0	6,734	0	95,874	0	43
	Annual	50,969	0	50,867	2.33		6,059	96,200	0	96,200	0		0	50,969
1975	Oct	555	0	554	0.00	2,261	-2	3,848	0	3,848	0	92,583	0	555
	Nov	683	0	681	0.03	2,136	63	8,658	0	8,658	0	84,543	0	683
	Dec	34	0	34	-0.02	1,944	-44	8,658	0	8,658	0	75,964	0	34
	Jan	42	0	42	-0.03	1,781	-62	4,810	0	4,810	0	71,258	0	42
	Feb	0	0	0	-0.09	1,669	-152	5,772	0	5,772	0	65,638	0	0
	Mar	186	0	185	-0.01	1,500	-18	11,544	0	11,544	0	54,297	0	186
	Apr	10,451	0	10,430	0.20	1,291	264	19,240	0	19,240	0	45,224	0	10,451
	May	42,312	0	42,227	0.37	1,616	601	2,886	0	2,886	0	83,964	0	42,312
	Jun	54,547	0	54,438	0.48	2,497	1,203	5,772	0	5,772	0	131,427	0	54,547
	Jul	35,184	0	35,113	0.28	3,147	872	10,582	0	10,582	0	155,086	0	35,184
	Aug	4,736	0	4,726	0.31	3,302	1,039	7,696	0	7,696	0	151,077	0	4,736
	Sep	1,709	0	1,706	0.19	3,225	615	6,734	0	6,734	0	145,434	0	1,709
	Annual	150,439	0	150,138	1.71		4,379	96,200	0	96,200	0		0	150,439

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1976	Oct	260	0	259	0.26	3,146	814	3,848	0	3,848	0	141,032	0	260
	Nov	103	0	103	-0.03	3,046	-84	8,658	0	8,658	0	132,561	0	103
	Dec	52	0	52	0.04	2,907	123	8,658	0	8,658	0	123,831	0	52
	Jan	52	0	52	0.05	2,793	136	4,810	0	4,810	0	118,937	0	52
	Feb	137	0	137	0.08	2,698	223	5,772	0	5,772	0	113,079	0	137
	Mar	2,462	0	2,457	0.17	2,551	443	11,544	0	11,544	0	103,549	0	2,462
	Apr	14,864	0	14,835	0.28	2,406	668	19,240	0	19,240	0	98,475	0	14,864
	May	34,277	0	34,208	0.30	2,637	797	2,886	0	2,886	0	129,000	0	34,277
	Jun	28,818	0	28,760	0.61	3,087	1,879	5,772	0	5,772	0	150,110	0	28,818
	Jul	3,999	0	3,991	0.44	3,192	1,396	10,582	0	10,582	0	142,123	0	3,999
	Aug	1,177	0	1,175	0.31	3,071	957	7,696	0	7,696	0	134,645	0	1,177
	Sep	1,897	0	1,893	0.10	2,971	305	6,734	0	6,734	0	129,500	0	1,897
	Annual	88,097	0	87,921	2.62		7,656	96,200	0	96,200	0		0	88,097
1977	Oct	982	0	980	0.21	2,900	596	3,848	0	3,848	0	126,036	0	982
	Nov	5	0	5	0.04	2,797	121	8,658	0	8,658	0	117,262	0	5
	Dec	52	0	52	0.05	2,639	141	8,658	0	8,658	0	108,515	0	52
	Jan	61	0	61	-0.02	2,510	-38	4,810	0	4,810	0	103,804	0	61
	Feb	0	0	0	0.07	2,402	180	5,772	0	5,772	0	97,853	0	0
	Mar	410	0	409	0.16	2,214	344	11,544	0	11,544	0	86,374	0	410
	Apr	4,866	0	4,856	0.18	1,909	348	19,240	0	19,240	0	71,642	0	4,866
	May	4,529	0	4,520	0.35	1,741	616	2,886	0	2,886	0	72,660	0	4,529
	Jun	2,811	0	2,805	0.45	1,716	769	5,772	0	5,772	0	68,923	0	2,811
	Jul	1,777	0	1,773	0.23	1,588	360	10,582	0	10,582	0	59,754	0	1,777
	Aug	4,276	0	4,268	0.37	1,455	534	7,696	0	7,696	0	55,792	0	4,276
	Sep	2,014	0	2,010	0.29	1,363	392	6,734	0	6,734	0	50,676	0	2,014
	Annual	21,782	0	21,738	2.38		4,363	96,200	0	96,200	0		0	21,782
1978	Oct	876	0	875	0.23	1,279	296	3,848	0	3,848	0	47,406	0	876
	Nov	130	0	130	0.03	1,160	40	8,658	0	8,658	0	38,837	0	130
	Dec	0	0	0	0.06	990	62	8,658	0	8,658	0	30,117	0	0
	Jan	0	0	0	-0.08	857	-71	4,810	0	4,810	0	25,378	0	0
	Feb	55	0	55	-0.05	748	-40	5,772	0	5,772	0	19,701	0	55
	Mar	2,257	0	2,253	0.05	582	31	11,544	0	11,544	0	10,379	0	2,257
	Apr	19,351	0	19,312	0.32	473	150	19,240	0	19,240	0	10,302	0	19,351
	May	31,754	0	31,691	0.17	774	129	2,886	0	2,886	0	38,978	0	31,754
	Jun	45,907	0	45,815	0.50	1,487	744	5,772	0	5,772	0	78,278	0	45,907
	Jul	7,002	0	6,988	0.53	1,839	984	10,582	0	10,582	0	73,700	0	7,002
	Aug	163	0	162	0.44	1,697	739	7,696	0	7,696	0	65,427	0	163
	Sep	93	0	93	0.29	1,539	453	6,734	0	6,734	0	58,333	0	93
	Annual	107,589	0	107,373	2.49		3,515	96,200	0	96,200	0		0	107,589
1979	Oct	283	0	283	0.14	1,428	200	3,848	0	3,848	0	54,568	0	283
	Nov	235	0	235	-0.04	1,304	-51	8,658	0	8,658	0	46,197	0	235
	Dec	34	0	34	-0.26	1,138	-297	8,658	0	8,658	0	37,870	0	34
	Jan	230	0	230	-0.12	1,012	-124	4,810	0	4,810	0	33,413	0	230
	Feb	45	0	45	-0.01	913	-12	5,772	0	5,772	0	27,698	0	45
	Mar	751	0	750	0.11	740	81	11,544	0	11,544	0	16,823	0	751
	Apr	20,824	0	20,782	0.22	639	140	19,240	0	19,240	0	18,225	0	20,824
	May	48,540	0	48,443	0.11	1,116	118	2,886	0	2,886	0	63,664	0	48,540
	Jun	57,906	0	57,790	0.41	2,127	875	5,772	0	5,772	0	114,808	0	57,906
	Jul	31,556	0	31,493	0.50	2,842	1,423	10,582	0	10,582	0	134,295	0	31,556
	Aug	5,391	0	5,380	0.31	2,981	927	7,696	0	7,696	0	131,052	0	5,391
	Sep	141	0	141	0.32	2,893	920	6,734	0	6,734	0	123,539	0	141
	Annual	165,938	0	165,606	1.68		4,201	96,200	0	96,200	0		0	165,938
1980	Oct	161	0	161	0.22	2,793	626	3,848	0	3,848	0	119,225	0	161
	Nov	192	0	191	-0.02	2,679	-45	8,658	0	8,658	0	110,804	0	192
	Dec	5	0	5	-0.01	2,516	-36	8,658	0	8,658	0	102,186	0	5
	Jan	149	0	148	-0.16	2,386	-380	4,810	0	4,810	0	97,905	0	149
	Feb	0	0	0	-0.07	2,280	-170	5,772	0	5,772	0	92,303	0	0
	Mar	111	0	111	0.03	2,089	65	11,544	0	11,544	0	80,805	0	111
	Apr	17,830	0	17,794	0.19	1,937	367	19,240	0	19,240	0	78,992	0	17,830
	May	44,966	0	44,876	0.32	2,344	740	2,886	0	2,886	0	120,243	0	44,966
	Jun	59,689	0	59,570	0.57	3,182	1,813	5,772	0	5,772	0	172,227	0	59,689
	Jul	17,628	0	17,593	0.45	3,628	1,646	10,582	0	10,582	0	177,592	0	17,628
	Aug	2,742	0	2,737	0.31	3,623	1,136	7,696	0	7,696	0	171,497	0	2,742
	Sep	2,499	0	2,494	0.22	3,543	781	6,734	0	6,734	0	166,477	0	2,499
	Annual	145,972	0	145,680	2.05		6,542	96,200	0	96,200	0		0	145,972

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1981	Oct	329	0	328	0.13	3,476	440	3,848	0	3,848	0	162,517	0	329
	Nov	385	0	384	0.06	3,382	219	8,658	0	8,658	0	154,024	0	385
	Dec	42	0	42	0.07	3,246	218	8,658	0	8,658	0	145,191	0	42
	Jan	9	0	9	0.06	3,138	195	4,810	0	4,810	0	140,194	0	9
	Feb	8	0	8	0.10	3,052	291	5,772	0	5,772	0	134,139	0	8
	Mar	103	0	103	0.08	2,909	241	11,544	0	11,544	0	122,457	0	103
	Apr	11,453	0	11,430	0.26	2,737	717	19,240	0	19,240	0	113,930	0	11,453
	May	18,171	0	18,134	0.26	2,786	721	2,886	0	2,886	0	128,457	0	18,171
	Jun	19,878	0	19,839	0.49	3,012	1,477	5,772	0	5,772	0	141,047	0	19,878
	Jul	3,837	0	3,830	0.35	3,052	1,069	10,582	0	10,582	0	133,226	0	3,837
	Aug	944	0	942	0.23	2,929	671	7,696	0	7,696	0	125,801	0	944
	Sep	1,039	0	1,037	0.22	2,814	617	6,734	0	6,734	0	119,487	0	1,039
	Annual	56,198	0	56,086	2.31		6,876	96,200	0	96,200	0		0	56,198
1982	Oct	7,195	0	7,180	0.05	2,788	149	3,848	0	3,848	0	122,670	0	7,195
	Nov	818	0	817	0.10	2,744	284	8,658	0	8,658	0	114,545	0	818
	Dec	32	0	32	0.06	2,587	151	8,658	0	8,658	0	105,767	0	32
	Jan	1	0	1	-0.10	2,456	-246	4,810	0	4,810	0	101,204	0	1
	Feb	1	0	1	-0.10	2,351	-223	5,772	0	5,772	0	95,657	0	1
	Mar	1,312	0	1,309	0.05	2,178	104	11,544	0	11,544	0	85,318	0	1,312
	Apr	23,320	0	23,274	0.33	2,102	687	19,240	0	19,240	0	88,665	0	23,320
	May	45,559	0	45,468	0.22	2,544	561	2,886	0	2,886	0	130,687	0	45,559
	Jun	52,379	0	52,274	0.48	3,294	1,570	5,772	0	5,772	0	175,619	0	52,379
	Jul	19,962	0	19,922	0.21	3,696	787	10,582	0	10,582	0	184,171	0	19,962
	Aug	9,938	0	9,918	0.01	3,768	47	7,696	0	7,696	0	186,347	0	9,938
	Sep	14,228	0	14,200	0.03	3,828	131	6,734	0	6,734	0	193,682	0	14,228
	Annual	174,745	0	174,395	1.35		4,000	96,200	0	96,200	0		0	174,745
1983	Oct	5,189	0	5,178	0.10	3,879	390	3,848	0	3,848	0	194,622	0	5,189
	Nov	2,485	0	2,480	-0.03	3,847	-97	8,658	0	8,658	0	188,542	0	2,485
	Dec	1,518	0	1,515	-0.06	3,766	-230	8,658	0	8,658	0	181,628	0	1,518
	Jan	1,001	0	999	-0.02	3,696	-74	4,810	0	4,810	0	177,892	0	1,001
	Feb	739	0	737	-0.03	3,635	-111	5,772	0	5,772	0	172,968	0	739
	Mar	3,335	0	3,328	-0.01	3,540	18	11,544	0	11,544	0	164,771	0	3,335
	Apr	11,983	0	11,959	0.19	3,420	653	19,240	0	19,240	0	156,837	0	11,983
	May	34,551	0	34,482	0.33	3,577	1,175	2,886	0	2,886	0	187,258	0	34,551
	Jun	55,827	0	55,716	0.26	4,080	1,072	5,772	0	5,772	0	236,130	0	55,827
	Jul	29,006	0	28,948	0.39	4,455	1,720	10,582	0	10,582	0	252,775	0	29,006
	Aug	6,337	0	6,324	0.08	4,535	345	7,696	0	7,696	0	251,058	0	6,337
	Sep	1,677	0	1,674	0.16	4,496	730	6,734	0	6,734	0	245,268	0	1,677
	Annual	153,648	0	153,341	1.37		5,554	96,200	0	96,200	0		0	153,648
1984	Oct	4,640	0	4,630	0.04	4,468	180	3,848	0	3,848	0	245,871	0	4,640
	Nov	480	0	479	-0.13	4,431	-589	8,658	0	8,658	0	238,281	0	480
	Dec	301	0	300	-0.14	4,347	-606	8,658	0	8,658	0	230,530	0	301
	Jan	447	0	446	0.00	4,280	-18	4,810	0	4,810	0	226,184	0	447
	Feb	648	0	646	0.06	4,226	274	5,772	0	5,772	0	220,785	0	648
	Mar	3,257	0	3,250	0.06	4,146	266	11,544	0	11,544	0	212,225	0	3,257
	Apr	19,742	0	19,702	0.17	4,095	697	19,240	0	19,240	0	211,991	0	19,742
	May	47,213	0	47,119	0.45	4,326	1,963	2,886	0	2,886	0	254,261	0	47,213
	Jun	41,963	0	41,879	0.33	4,727	1,542	5,772	0	5,772	0	288,826	0	41,963
	Jul	9,897	0	9,877	0.35	4,883	1,705	10,582	0	10,582	0	286,417	0	9,897
	Aug	6,165	0	6,153	0.27	4,858	1,305	7,696	0	7,696	0	283,568	0	6,165
	Sep	2,167	0	2,163	0.20	4,819	948	6,734	0	6,734	0	278,049	0	2,167
	Annual	136,919	0	136,646	1.66		7,665	96,200	0	96,200	0		0	136,919
1985	Oct	7,925	0	7,909	-0.20	4,817	-961	3,848	0	3,848	0	283,071	0	7,925
	Nov	4,065	0	4,056	0.07	4,818	355	8,658	0	8,658	0	278,115	0	4,065
	Dec	1,703	0	1,699	-0.03	4,763	-127	8,658	0	8,658	0	271,283	0	1,703
	Jan	1,436	0	1,433	-0.01	4,715	-51	4,810	0	4,810	0	267,957	0	1,436
	Feb	718	0	717	-0.01	4,675	-47	5,772	0	5,772	0	262,949	0	718
	Mar	6,729	0	6,715	-0.02	4,626	-87	11,544	0	11,544	0	258,208	0	6,729
	Apr	39,255	0	39,176	0.02	4,698	74	19,240	0	19,240	0	278,070	0	39,255
	May	53,168	0	53,061	0.25	5,020	1,272	2,886	0	2,886	0	326,974	0	53,168
	Jun	54,758	0	54,648	0.38	5,458	2,081	5,772	0	5,772	0	373,770	0	54,758
	Jul	22,411	0	22,367	0.25	5,715	1,457	10,582	0	10,582	0	384,098	0	22,411
	Aug	5,139	0	5,129	0.29	5,741	1,656	7,696	0	7,696	0	379,875	0	5,139
	Sep	6,088	0	6,076	0.06	5,719	344	6,734	0	6,734	0	378,872	0	6,088
	Annual	203,394	0	202,987	1.06		5,964	96,200	0	96,200	0		0	203,394

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1986	Oct	9,054	0	9,036	-0.02	5,737	-122	3,848	0	3,848	0	384,182	0	9,054
	Nov	2,354	0	2,349	-0.06	5,734	-338	8,658	0	8,658	0	378,211	0	2,354
	Dec	1,355	0	1,352	0.02	5,676	108	8,658	0	8,658	0	370,797	0	1,355
	Jan	1,273	0	1,270	0.06	5,626	363	4,810	0	4,810	0	366,894	0	1,273
	Feb	1,202	0	1,200	-0.04	5,590	-245	5,772	0	5,772	0	362,567	0	1,202
	Mar	11,633	0	11,609	0.14	5,568	779	11,544	0	11,544	0	361,853	0	11,633
	Apr	28,386	0	28,329	0.01	5,605	78	19,240	0	19,240	0	370,864	0	28,386
	May	45,210	0	45,120	0.25	5,775	1,451	2,886	0	2,886	10,317	401,330	10,337	34,873
	Jun	51,815	0	51,712	0.21	5,905	1,248	5,772	0	5,772	44,691	401,330	44,781	7,034
	Jul	20,496	0	20,455	0.18	5,905	1,057	10,582	0	10,582	8,815	401,330	8,833	11,663
	Aug	3,687	0	3,680	0.15	5,885	897	7,696	0	7,696	0	396,417	0	3,687
	Sep	7,236	0	7,222	-0.03	5,867	-185	6,734	0	6,734	0	397,090	0	7,236
	Annual	183,701	0	183,333	0.88		5,093	96,200	0	96,200	63,823		63,951	119,750
1987	Oct	16,336	0	16,303	-0.05	5,888	-270	3,848	0	3,848	8,484	401,330	8,502	7,834
	Nov	11,570	0	11,546	-0.11	5,905	-665	8,658	0	8,658	3,553	401,330	3,560	8,009
	Dec	3,241	0	3,235	0.00	5,883	-21	8,658	0	8,658	0	395,928	0	3,241
	Jan	1,171	0	1,169	0.00	5,845	1	4,810	0	4,810	0	392,286	0	1,171
	Feb	848	0	846	-0.03	5,809	-152	5,772	0	5,772	0	387,512	0	848
	Mar	3,562	0	3,555	0.07	5,753	377	11,544	0	11,544	0	379,145	0	3,562
	Apr	26,487	0	26,434	0.18	5,744	1,030	19,240	0	19,240	0	385,309	0	26,487
	May	39,985	0	39,905	0.13	5,838	748	2,886	0	2,886	20,250	401,330	20,291	19,694
	Jun	45,648	0	45,557	0.32	5,905	1,860	5,772	0	5,772	37,925	401,330	38,001	7,647
	Jul	7,951	597	7,339	0.39	5,882	2,318	10,582	0	10,582	0	395,769	0	7,354
	Aug	2,256	2,256	0	0.20	5,821	1,149	7,696	0	7,696	0	386,924	0	0
	Sep	171	171	0	0.29	5,747	1,681	6,734	0	6,734	0	378,509	0	0
	Annual	159,225	3,024	155,889	1.38		8,057	96,200	0	96,200	70,212		70,353	85,848
1988	Oct	833	0	831	0.15	5,694	832	3,848	0	3,848	0	374,661	0	833
	Nov	2,493	0	2,488	-0.06	5,652	-347	8,658	0	8,658	0	368,838	0	2,493
	Dec	188	0	188	-0.06	5,590	-351	8,658	0	8,658	0	360,719	0	188
	Jan	0	0	0	-0.08	5,536	-459	4,810	0	4,810	0	356,368	0	0
	Feb	189	0	189	-0.03	5,491	-165	5,772	0	5,772	0	350,950	0	189
	Mar	2,855	0	2,850	0.18	5,422	968	11,544	0	11,544	0	341,288	0	2,855
	Apr	14,711	0	14,681	0.13	5,354	717	19,240	0	19,240	0	336,012	0	14,711
	May	22,037	0	21,993	0.30	5,410	1,638	2,886	0	2,886	0	353,481	0	22,037
	Jun	23,937	0	23,889	0.23	5,565	1,267	5,772	0	5,772	0	370,331	0	23,937
	Jul	4,647	0	4,638	0.33	5,605	1,837	10,582	0	10,582	0	362,550	0	4,647
	Aug	3,374	0	3,367	0.09	5,549	491	7,696	0	7,696	0	357,731	0	3,374
	Sep	1,398	0	1,395	0.17	5,500	955	6,734	0	6,734	0	351,437	0	1,398
	Annual	76,663	0	76,509	1.34		7,382	96,200	0	96,200	0		0	76,663
1989	Oct	145	0	145	0.19	5,450	1,029	3,848	0	3,848	0	346,705	0	145
	Nov	96	0	96	0.03	5,388	146	8,658	0	8,658	0	337,997	0	96
	Dec	0	0	0	0.03	5,306	182	8,658	0	8,658	0	329,157	0	0
	Jan	0	0	0	-0.05	5,244	-263	4,810	0	4,810	0	324,610	0	0
	Feb	373	0	372	-0.01	5,198	-77	5,772	0	5,772	0	319,288	0	373
	Mar	12,034	0	12,010	0.15	5,171	781	11,544	0	11,544	0	318,972	0	12,034
	Apr	25,700	0	25,649	0.33	5,191	1,738	19,240	0	19,240	0	323,643	0	25,700
	May	20,823	0	20,781	0.44	5,286	2,334	2,886	0	2,886	0	339,204	0	20,823
	Jun	11,328	0	11,305	0.47	5,373	2,539	5,772	0	5,772	0	342,199	0	11,328
	Jul	2,484	0	2,479	0.37	5,340	1,974	10,582	0	10,582	0	332,122	0	2,484
	Aug	2,593	0	2,588	0.22	5,265	1,157	7,696	0	7,696	0	325,857	0	2,593
	Sep	601	0	600	0.30	5,198	1,578	6,734	0	6,734	0	318,145	0	601
	Annual	76,178	0	76,025	2.48		13,117	96,200	0	96,200	0		0	76,178
1990	Oct	2,309	0	2,305	0.11	5,151	563	3,848	0	3,848	0	316,039	0	2,309
	Nov	5	0	5	0.12	5,099	630	8,658	0	8,658	0	306,756	0	5
	Dec	0	0	0	0.05	5,016	276	8,658	0	8,658	0	297,822	0	0
	Jan	0	0	0	0.00	4,954	8	4,810	0	4,810	0	293,004	0	0
	Feb	0	0	0	0.04	4,905	183	5,772	0	5,772	0	287,048	0	0
	Mar	855	0	853	0.10	4,825	479	11,544	0	11,544	0	275,878	0	855
	Apr	10,206	0	10,186	0.08	4,729	375	19,240	0	19,240	0	266,449	0	10,206
	May	25,157	0	25,106	0.29	4,782	1,390	2,886	0	2,886	0	287,280	0	25,157
	Jun	24,156	0	24,108	0.49	4,952	2,403	5,772	0	5,772	0	303,213	0	24,156
	Jul	4,260	0	4,251	0.17	4,992	861	10,582	0	10,582	0	296,021	0	4,260
	Aug	2,371	0	2,366	0.13	4,933	630	7,696	0	7,696	0	290,061	0	2,371
	Sep	4,708	0	4,698	0.11	4,893	538	6,734	0	6,734	0	287,488	0	4,708
	Annual	74,027	0	73,879	1.69		8,336	96,200	0	96,200	0		0	74,027

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1991	Oct	6,510	0	6,497	0.03	4,893	126	3,848	0	3,848	0	290,012	0	6,510
	Nov	3,250	0	3,244	0.01	4,880	44	8,658	0	8,658	0	284,554	0	3,250
	Dec	574	0	573	-0.18	4,820	-868	8,658	0	8,658	0	277,336	0	574
	Jan	285	0	285	-0.02	4,766	-85	4,810	0	4,810	0	272,896	0	285
	Feb	814	0	812	0.09	4,719	414	5,772	0	5,772	0	267,521	0	814
	Mar	2,156	0	2,152	0.04	4,646	183	11,544	0	11,544	0	257,946	0	2,156
	Apr	28,726	0	28,668	0.26	4,640	1,215	19,240	0	19,240	0	266,159	0	28,726
	May	44,452	0	44,363	0.34	4,865	1,645	2,886	0	2,886	0	305,991	0	44,452
	Jun	36,351	0	36,278	0.31	5,184	1,596	5,772	0	5,772	0	334,901	0	36,351
	Jul	6,632	0	6,619	0.30	5,293	1,593	10,582	0	10,582	0	329,345	0	6,632
	Aug	5,263	0	5,252	0.26	5,250	1,350	7,696	0	7,696	0	325,552	0	5,263
	Sep	3,832	0	3,825	0.13	5,215	681	6,734	0	6,734	0	321,961	0	3,832
	Annual	138,846	0	138,568	1.56		7,895	96,200	0	96,200	0		0	138,846
1992	Oct	243	0	242	0.13	5,177	679	3,848	0	3,848	0	317,677	0	243
	Nov	1,513	0	1,510	-0.09	5,125	-462	8,658	0	8,658	0	310,991	0	1,513
	Dec	712	0	710	-0.07	5,060	-372	8,658	0	8,658	0	303,416	0	712
	Jan	0	0	0	0.01	5,005	57	4,810	0	4,810	0	298,549	0	0
	Feb	60	0	60	0.03	4,956	160	5,772	0	5,772	0	292,676	0	60
	Mar	2,021	0	2,017	-0.01	4,886	-45	11,544	0	11,544	0	283,194	0	2,021
	Apr	27,985	0	27,929	0.23	4,877	1,104	19,240	0	19,240	0	290,780	0	27,985
	May	47,309	0	47,214	0.06	5,115	286	2,886	0	2,886	0	334,822	0	47,309
	Jun	33,649	0	33,582	0.37	5,436	2,020	5,772	0	5,772	0	360,612	0	33,649
	Jul	8,493	0	8,476	0.23	5,539	1,296	10,582	0	10,582	0	357,209	0	8,493
	Aug	6,724	0	6,711	0.11	5,516	591	7,696	0	7,696	0	355,632	0	6,724
	Sep	955	0	953	0.25	5,476	1,367	6,734	0	6,734	0	348,485	0	955
	Annual	129,664	0	129,405	1.25		6,681	96,200	0	96,200	0		0	129,664
1993	Oct	130	0	130	0.17	5,423	944	3,848	0	3,848	0	343,823	0	130
	Nov	346	0	346	-0.03	5,364	-159	8,658	0	8,658	0	335,669	0	346
	Dec	0	0	0	-0.14	5,289	-729	8,658	0	8,658	0	327,740	0	0
	Jan	8	0	8	-0.12	5,233	-649	4,810	0	4,810	0	323,587	0	8
	Feb	0	0	0	-0.09	5,188	-455	5,772	0	5,772	0	318,269	0	0
	Mar	5,537	0	5,526	0.12	5,130	625	11,544	0	11,544	0	311,626	0	5,537
	Apr	22,296	0	22,251	0.23	5,108	1,179	19,240	0	19,240	0	313,458	0	22,296
	May	46,985	0	46,892	0.15	5,317	811	2,886	0	2,886	0	356,653	0	46,985
	Jun	52,744	0	52,639	0.41	5,711	2,326	5,772	0	5,772	0	401,193	0	52,744
	Jul	17,062	0	17,028	0.54	5,905	3,207	10,582	0	10,582	3,103	401,330	3,109	13,953
	Aug	8,711	0	8,693	0.08	5,905	501	7,696	0	7,696	496	401,330	497	8,213
	Sep	4,614	0	4,604	0.21	5,891	1,250	6,734	0	6,734	0	397,951	0	4,614
	Annual	158,433	0	158,116	1.55		8,851	96,200	0	96,200	3,599		3,606	154,827
1994	Oct	2,269	0	2,264	0.03	5,869	199	3,848	0	3,848	0	396,168	0	2,269
	Nov	446	0	445	-0.05	5,829	-274	8,658	0	8,658	0	388,230	0	446
	Dec	0	0	0	0.03	5,757	160	8,658	0	8,658	0	379,412	0	0
	Jan	12	0	12	0.03	5,697	195	4,810	0	4,810	0	374,419	0	12
	Feb	0	0	0	-0.10	5,653	-580	5,772	0	5,772	0	369,227	0	0
	Mar	5,374	0	5,363	0.09	5,601	488	11,544	0	11,544	0	362,558	0	5,374
	Apr	23,789	0	23,741	0.03	5,590	171	19,240	0	19,240	0	366,889	0	23,789
	May	48,046	0	47,950	0.12	5,757	678	2,886	0	2,886	9,945	401,330	9,964	38,082
	Jun	44,688	0	44,598	0.39	5,905	2,273	5,772	0	5,772	36,553	401,330	36,626	8,062
	Jul	3,264	0	3,258	0.39	5,865	2,278	10,582	0	10,582	0	391,728	0	3,264
	Aug	841	0	839	0.22	5,790	1,286	7,696	0	7,696	0	383,585	0	841
	Sep	3,045	0	3,039	0.06	5,737	369	6,734	0	6,734	0	379,521	0	3,045
	Annual	131,774	0	131,511	1.24		7,243	96,200	0	96,200	46,497		46,590	85,184
1995	Oct	1,646	0	1,643	0.05	5,709	271	3,848	0	3,848	0	377,045	0	1,646
	Nov	1,288	0	1,285	-0.11	5,668	-637	8,658	0	8,658	0	370,309	0	1,288
	Dec	753	0	752	0.03	5,603	154	8,658	0	8,658	0	362,249	0	753
	Jan	466	0	465	-0.10	5,551	-553	4,810	0	4,810	0	358,458	0	466
	Feb	1,946	0	1,942	0.06	5,516	306	5,772	0	5,772	0	354,322	0	1,946
	Mar	9,553	0	9,534	-0.04	5,489	-227	11,544	0	11,544	0	352,539	0	9,553
	Apr	15,685	0	15,654	0.07	5,463	360	19,240	0	19,240	0	348,593	0	15,685
	May	36,096	0	36,024	0.16	5,588	890	2,886	0	2,886	0	380,840	0	36,096
	Jun	55,616	0	55,505	0.37	5,818	2,150	5,772	0	5,772	27,093	401,330	27,148	28,469
	Jul	39,138	0	39,060	0.40	5,905	2,374	10,582	0	10,582	26,104	401,330	26,156	12,982
	Aug	9,233	0	9,214	0.20	5,905	1,181	7,696	0	7,696	337	401,330	338	8,895
	Sep	1,964	0	1,960	0.12	5,882	730	6,734	0	6,734	0	395,826	0	1,964
	Annual	173,384	0	173,037	1.20		6,998	96,200	0	96,200	53,534		53,642	119,742

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1996	Oct	902	0	900	0.20	5,842	1,189	3,848	0	3,848	0	391,689	0	902
	Nov	341	0	340	0.07	5,787	434	8,658	0	8,658	0	382,937	0	341
	Dec	0	0	0	0.04	5,711	249	8,658	0	8,658	0	374,030	0	0
	Jan	0	0	0	-0.02	5,652	-117	4,810	0	4,810	0	369,337	0	0
	Feb	604	0	603	0.00	5,608	28	5,772	0	5,772	0	364,140	0	604
	Mar	2,069	0	2,065	0.10	5,541	530	11,544	0	11,544	0	354,130	0	2,069
	Apr	16,633	0	16,600	0.28	5,477	1,547	19,240	0	19,240	0	349,942	0	16,633
	May	30,764	0	30,703	0.49	5,569	2,745	2,886	0	2,886	0	375,014	0	30,764
	Jun	6,469	0	6,456	0.35	5,674	2,014	5,772	0	5,772	0	373,685	0	6,469
	Jul	2,690	0	2,685	0.25	5,628	1,410	10,582	0	10,582	0	364,377	0	2,690
	Aug	100	0	100	0.21	5,548	1,175	7,696	0	7,696	0	355,606	0	100
	Sep	538	0	537	0.17	5,476	953	6,734	0	6,734	0	348,455	0	538
	Annual	61,110	0	60,988	2.17		12,159	96,200	0	96,200	0		0	61,110
1997	Oct	280	0	280	0.08	5,426	440	3,848	0	3,848	0	344,447	0	280
	Nov	989	0	987	-0.09	5,374	-485	8,658	0	8,658	0	337,261	0	989
	Dec	32	0	32	-0.01	5,301	-53	8,658	0	8,658	0	328,687	0	32
	Jan	411	0	410	-0.18	5,245	-954	4,810	0	4,810	0	325,241	0	411
	Feb	208	0	208	0.00	5,202	13	5,772	0	5,772	0	319,663	0	208
	Mar	9,769	0	9,750	0.18	5,163	941	11,544	0	11,544	0	316,928	0	9,769
	Apr	14,178	0	14,150	0.09	5,124	447	19,240	0	19,240	0	311,391	0	14,178
	May	44,667	0	44,578	0.17	5,288	912	2,886	0	2,886	0	352,170	0	44,667
	Jun	48,431	0	48,334	0.35	5,656	1,966	5,772	0	5,772	0	392,767	0	48,431
	Jul	11,906	0	11,882	0.26	5,833	1,528	10,582	0	10,582	0	392,539	0	11,906
	Aug	9,170	0	9,152	0.18	5,833	1,047	7,696	0	7,696	0	392,948	0	9,170
	Sep	6,857	0	6,843	0.12	5,833	724	6,734	0	6,734	0	392,333	0	6,857
	Annual	146,898	0	146,604	1.16		6,526	96,200	0	96,200	0		0	146,898
1998	Oct	5,183	0	5,173	0.08	5,833	486	3,848	0	3,848	0	393,172	0	5,183
	Nov	1,744	0	1,741	0.01	5,806	59	8,658	0	8,658	0	386,196	0	1,744
	Dec	723	0	722	-0.06	5,744	-323	8,658	0	8,658	0	378,583	0	723
	Jan	588	0	587	0.01	5,693	30	4,810	0	4,810	0	374,329	0	588
	Feb	12	0	12	-0.02	5,650	-125	5,772	0	5,772	0	368,694	0	12
	Mar	4,604	0	4,595	0.07	5,592	393	11,544	0	11,544	0	361,352	0	4,604
	Apr	12,800	0	12,774	0.16	5,527	894	19,240	0	19,240	0	353,993	0	12,800
	May	42,288	0	42,203	0.36	5,658	2,039	2,886	0	2,886	0	391,271	0	42,288
	Jun	29,231	0	29,173	0.52	5,863	3,057	5,772	0	5,772	10,284	401,330	10,305	18,926
	Jul	8,925	0	8,908	0.25	5,892	1,472	10,582	0	10,582	0	398,183	0	8,925
	Aug	2,096	0	2,091	0.18	5,851	1,073	7,696	0	7,696	0	391,505	0	2,096
	Sep	366	0	366	0.25	5,789	1,437	6,734	0	6,734	0	383,700	0	366
	Annual	108,561	0	108,344	1.82		10,493	96,200	0	96,200	10,284		10,305	98,256
1999	Oct	3,569	0	3,562	-0.04	5,755	-233	3,848	0	3,848	0	383,647	0	3,569
	Nov	3,090	0	3,083	-0.04	5,732	-217	8,658	0	8,658	0	378,290	0	3,090
	Dec	982	0	980	0.05	5,674	292	8,658	0	8,658	0	370,319	0	982
	Jan	357	0	356	0.04	5,619	211	4,810	0	4,810	0	365,654	0	357
	Feb	424	0	424	0.09	5,572	500	5,772	0	5,772	0	359,805	0	424
	Mar	4,723	0	4,713	0.19	5,511	1,025	11,544	0	11,544	0	351,949	0	4,723
	Apr	13,031	0	13,005	0.06	5,446	353	19,240	0	19,240	0	345,361	0	13,031
	May	33,264	0	33,198	0.29	5,544	1,631	2,886	0	2,886	0	374,042	0	33,264
	Jun	39,772	0	39,692	0.43	5,789	2,480	5,772	0	5,772	4,152	401,330	4,161	35,611
	Jul	12,734	0	12,709	0.22	5,905	1,307	10,582	0	10,582	820	401,330	822	11,913
	Aug	13,250	0	13,224	0.09	5,905	512	7,696	0	7,696	5,016	401,330	5,026	8,224
	Sep	4,298	0	4,289	0.14	5,892	799	6,734	0	6,734	0	398,086	0	4,298
	Annual	129,493	0	129,234	1.52		8,660	96,200	0	96,200	9,988		10,008	119,485
2000	Oct	677	0	675	0.25	5,859	1,466	3,848	0	3,848	0	393,447	0	677
	Nov	23	0	23	0.13	5,799	754	8,658	0	8,658	0	384,058	0	23
	Dec	0	0	0	0.06	5,720	364	8,658	0	8,658	0	375,036	0	0
	Jan	0	0	0	-0.04	5,661	-201	4,810	0	4,810	0	370,427	0	0
	Feb	0	0	0	0.08	5,612	457	5,772	0	5,772	0	364,198	0	0
	Mar	796	0	794	0.03	5,536	139	11,544	0	11,544	0	353,310	0	796
	Apr	16,061	0	16,029	0.32	5,465	1,738	19,240	0	19,240	0	348,361	0	16,061
	May	21,265	0	21,222	0.48	5,513	2,662	2,886	0	2,886	0	364,035	0	21,265
	Jun	5,253	0	5,243	0.49	5,569	2,724	5,772	0	5,772	0	360,782	0	5,253
	Jul	103	0	102	0.49	5,496	2,680	10,582	0	10,582	0	347,623	0	103
	Aug	257	0	256	0.42	5,392	2,261	7,696	0	7,696	0	337,922	0	257
	Sep	0	0	0	0.42	5,306	2,222	6,734	0	6,734	0	328,966	0	0
	Annual	44,435	0	44,346	3.13		17,266	96,200	0	96,200	0		0	44,435

Table G-2. Heron Reservoir Monthly Operations Study - 1984 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
2001	Oct	925	0	923	0.00	5,250	8	3,848	0	3,848	0	326,033	0	925
	Nov	246	0	246	-0.03	5,197	-149	8,658	0	8,658	0	317,770	0	246
	Dec	0	0	0	0.03	5,116	172	8,658	0	8,658	0	308,940	0	0
	Jan	0	0	0	-0.07	5,056	-372	4,810	0	4,810	0	304,502	0	0
	Feb	0	0	0	0.03	5,010	155	5,772	0	5,772	0	298,575	0	0
	Mar	1,673	0	1,670	0.04	4,937	209	11,544	0	11,544	0	288,491	0	1,673
	Apr	19,625	0	19,585	0.20	4,888	973	19,240	0	19,240	0	287,864	0	19,625
	May	51,373	0	51,271	0.32	5,101	1,655	2,886	0	2,886	0	334,593	0	51,373
	Jun	29,570	0	29,511	0.55	5,412	2,964	5,772	0	5,772	0	355,368	0	29,570
	Jul	4,789	0	4,780	0.29	5,474	1,596	10,582	0	10,582	0	347,970	0	4,789
	Aug	4,982	0	4,972	0.25	5,422	1,342	7,696	0	7,696	0	343,904	0	4,982
	Sep	313	0	312	0.40	5,363	2,131	6,734	0	6,734	0	335,351	0	313
	Annual	113,496	0	113,269	2.01		10,685	96,200	0	96,200	0		0	113,496
2002	Oct	66	0	66	0.23	5,300	1,196	3,848	0	3,848	0	330,373	0	66
	Nov	25	0	25	0.02	5,236	103	8,658	0	8,658	0	321,637	0	25
	Dec	0	0	0	-0.01	5,154	-66	8,658	0	8,658	0	313,045	0	0
	Jan	0	0	0	0.03	5,090	133	4,810	0	4,810	0	308,102	0	0
	Feb	0	0	0	0.08	5,040	406	5,772	0	5,772	0	301,924	0	0
	Mar	897	0	896	0.16	4,961	792	11,544	0	11,544	0	290,484	0	897
	Apr	4,885	0	4,875	0.34	4,835	1,662	19,240	0	19,240	0	274,456	0	4,885
	May	932	0	930	0.57	4,738	2,714	2,886	0	2,886	0	269,787	0	932
	Jun	171	0	170	0.66	4,673	3,066	5,772	0	5,772	0	261,119	0	171
	Jul	0	0	0	0.42	4,566	1,897	10,582	0	10,582	0	248,639	0	0
	Aug	0	0	0	0.42	4,449	1,884	7,696	0	7,696	0	239,060	0	0
	Sep	200	0	200	0.05	4,361	206	6,734	0	6,734	0	232,319	0	200
	Annual	7,176	0	7,162	2.96		13,993	96,200	0	96,200	0		0	7,176
2003	Oct	189	0	189	0.06	4,303	270	3,848	0	3,848	0	228,390	0	189
	Nov	175	0	175	0.02	4,232	68	8,658	0	8,658	0	219,838	0	175
	Dec	0	0	0	-0.01	4,134	-62	8,658	0	8,658	0	211,242	0	0
	Jan	0	0	0	0.09	4,054	371	4,810	0	4,810	0	206,061	0	0
	Feb	0	0	0	-0.05	3,990	-216	5,772	0	5,772	0	200,505	0	0
	Mar	1,429	0	1,426	0.15	3,891	570	11,544	0	11,544	0	189,817	0	1,429
	Apr	11,657	0	11,634	0.28	3,771	1,042	19,240	0	19,240	0	181,169	0	11,657
	May	26,743	0	26,690	0.39	3,854	1,502	2,886	0	2,886	0	203,471	0	26,743
	Jun	18,996	0	18,958	0.56	4,056	2,287	5,772	0	5,772	0	214,370	0	18,996
	Jul	796	0	795	0.56	4,050	2,255	10,582	0	10,582	0	202,328	0	796
	Aug	667	0	666	0.23	3,930	910	7,696	0	7,696	0	194,388	0	667
	Sep	3,782	0	3,774	0.15	3,860	592	6,734	0	6,734	0	190,836	0	3,782
	Annual	64,435	0	64,306	2.42		9,589	96,200	0	96,200	0		0	64,435
2004	Oct	468	0	467	0.17	3,813	645	3,848	0	3,848	0	186,810	0	468
	Nov	646	0	645	-0.02	3,736	-73	8,658	0	8,658	0	178,870	0	646
	Dec	177	0	176	0.04	3,623	135	8,658	0	8,658	0	170,254	0	177
	Jan	0	0	0	0.00	3,526	2	4,810	0	4,810	0	165,442	0	0
	Feb	0	0	0	-0.05	3,448	-158	5,772	0	5,772	0	159,829	0	0
	Mar	11,506	0	11,483	0.24	3,400	814	11,544	0	11,544	0	158,954	0	11,506
	Apr	15,557	0	15,526	0.12	3,361	419	19,240	0	19,240	0	154,821	0	15,557
	May	30,242	0	30,182	0.52	3,517	1,840	2,886	0	2,886	0	180,277	0	30,242
	Jun	20,482	0	20,441	0.56	3,784	2,124	5,772	0	5,772	0	192,821	0	20,482
	Jul	2,240	0	2,236	0.46	3,799	1,733	10,582	0	10,582	0	182,742	0	2,240
	Aug	265	0	264	0.46	3,672	1,693	7,696	0	7,696	0	173,617	0	265
	Sep	4,364	0	4,356	0.28	3,585	991	6,734	0	6,734	0	170,248	0	4,364
	Annual	85,947	0	85,775	2.78		10,164	96,200	0	96,200	0		0	85,947
2005	Oct	2,985	0	2,979	0.09	3,552	333	3,848	0	3,848	0	169,046	0	2,985
	Nov	1,774	0	1,770	0.09	3,490	308	8,658	0	8,658	0	161,850	0	1,774
	Dec	295	0	295	0.02	3,372	76	8,658	0	8,658	0	153,410	0	295
	Jan	477	0	476	-0.11	3,276	-372	4,810	0	4,810	0	149,448	0	477
	Feb	508	0	507	-0.11	3,205	-356	5,772	0	5,772	0	144,539	0	508
	Mar	2,099	0	2,094	0.11	3,090	326	11,544	0	11,544	0	134,764	0	2,099
	Apr	31,720	0	31,657	0.16	3,107	494	19,240	0	19,240	0	146,686	0	31,720
	May	46,428	0	46,335	0.34	3,507	1,182	2,886	0	2,886	0	188,953	0	46,428
	Jun	50,208	0	50,108	0.49	4,064	1,976	5,772	0	5,772	0	231,313	0	50,208
	Jul	13,347	0	13,320	0.60	4,313	2,589	10,582	0	10,582	0	231,462	0	13,347
	Aug	4,439	0	4,430	0.36	4,287	1,526	7,696	0	7,696	0	226,670	0	4,439
	Sep	4,030	0	4,022	0.28	4,239	1,188	6,734	0	6,734	0	222,769	0	4,030
	Annual	158,309	0	157,992	2.30		9,271	96,200	0	96,200	0		0	158,309

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1936	Oct	2,438	0	2,433	0.11	3,083	352	3,848	0	3,848	0	138,233	0	2,438
	Nov	339	0	339	0.05	3,001	142	8,658	0	8,658	0	129,772	0	339
	Dec	0	0	0	0.03	2,860	81	8,658	0	8,658	0	121,033	0	0
	Jan	29	0	29	-0.02	2,746	-48	4,810	0	4,810	0	116,299	0	29
	Feb	0	0	0	-0.07	2,652	-197	5,772	0	5,772	0	110,724	0	0
	Mar	5,042	0	5,032	0.16	2,531	401	11,544	0	11,544	0	103,812	0	5,042
	Apr	39,972	0	39,892	0.13	2,652	332	19,240	0	19,240	0	124,132	0	39,972
	May	56,339	0	56,227	0.33	3,244	1,068	2,886	0	2,886	0	176,405	0	56,339
	Jun	31,223	0	31,160	0.46	3,800	1,753	5,772	0	5,772	0	200,040	0	31,223
	Jul	7,534	0	7,519	0.34	3,925	1,333	10,582	0	10,582	0	195,644	0	7,534
	Aug	7,462	0	7,447	0.25	3,890	990	7,696	0	7,696	0	194,405	0	7,462
	Sep	4,561	0	4,552	0.08	3,867	302	6,734	0	6,734	0	191,921	0	4,561
	Annual	154,940	0	154,630	1.84		6,508	96,200	0	96,200	0		0	154,940
1937	Oct	2,060	0	2,056	0.07	3,839	277	3,848	0	3,848	0	189,852	0	2,060
	Nov	2,811	0	2,805	0.08	3,787	295	8,658	0	8,658	0	183,704	0	2,811
	Dec	619	0	617	-0.07	3,695	-249	8,658	0	8,658	0	175,912	0	619
	Jan	111	0	111	-0.14	3,612	-514	4,810	0	4,810	0	171,728	0	111
	Feb	116	0	116	-0.13	3,545	-473	5,772	0	5,772	0	166,545	0	116
	Mar	999	0	997	0.00	3,427	-15	11,544	0	11,544	0	156,013	0	999
	Apr	30,582	0	30,521	0.28	3,426	948	19,240	0	19,240	0	166,346	0	30,582
	May	52,023	0	51,918	0.34	3,811	1,285	2,886	0	2,886	0	214,094	0	52,023
	Jun	39,087	0	39,009	0.44	4,293	1,904	5,772	0	5,772	0	245,427	0	39,087
	Jul	9,996	0	9,976	0.39	4,455	1,734	10,582	0	10,582	0	243,086	0	9,996
	Aug	1,518	0	1,515	0.40	4,399	1,760	7,696	0	7,696	0	235,145	0	1,518
	Sep	518	0	517	0.19	4,316	827	6,734	0	6,734	0	228,101	0	518
	Annual	140,441	0	140,160	1.84		7,780	96,200	0	96,200	0		0	140,441
1938	Oct	465	0	464	0.16	4,254	701	3,848	0	3,848	0	224,016	0	465
	Nov	46	0	46	0.09	4,180	392	8,658	0	8,658	0	215,011	0	46
	Dec	0	0	0	-0.08	4,080	-334	8,658	0	8,658	0	206,687	0	0
	Jan	0	0	0	-0.08	4,005	-333	4,810	0	4,810	0	202,210	0	0
	Feb	0	0	0	-0.13	3,946	-504	5,772	0	5,772	0	196,942	0	0
	Mar	2,109	0	2,105	0.01	3,855	52	11,544	0	11,544	0	187,451	0	2,109
	Apr	26,499	0	26,446	0.17	3,836	668	19,240	0	19,240	0	193,989	0	26,499
	May	40,280	0	40,199	0.27	4,089	1,101	2,886	0	2,886	0	230,201	0	40,280
	Jun	52,815	0	52,709	0.35	4,535	1,566	5,772	0	5,772	0	275,572	0	52,815
	Jul	12,021	0	11,997	0.38	4,768	1,811	10,582	0	10,582	0	275,177	0	12,021
	Aug	2,498	0	2,493	0.38	4,734	1,822	7,696	0	7,696	0	268,152	0	2,498
	Sep	5,115	0	5,105	0.14	4,689	643	6,734	0	6,734	0	265,880	0	5,115
	Annual	141,848	0	141,565	1.67		7,585	96,200	0	96,200	0		0	141,848
1939	Oct	3,148	0	3,142	0.19	4,671	864	3,848	0	3,848	0	264,310	0	3,148
	Nov	495	0	494	0.05	4,620	229	8,658	0	8,658	0	255,918	0	495
	Dec	0	0	0	0.00	4,531	21	8,658	0	8,658	0	247,239	0	0
	Jan	0	0	0	-0.13	4,463	-560	4,810	0	4,810	0	242,989	0	0
	Feb	0	0	0	-0.06	4,411	-267	5,772	0	5,772	0	237,484	0	0
	Mar	4,784	0	4,774	0.08	4,342	338	11,544	0	11,544	0	230,376	0	4,784
	Apr	20,601	0	20,560	0.24	4,304	1,048	19,240	0	19,240	0	230,648	0	20,601
	May	36,278	0	36,206	0.49	4,471	2,177	2,886	0	2,886	0	261,790	0	36,278
	Jun	14,399	0	14,370	0.76	4,663	3,565	5,772	0	5,772	0	266,823	0	14,399
	Jul	743	0	742	0.44	4,627	2,039	10,582	0	10,582	0	254,944	0	743
	Aug	374	0	373	0.31	4,521	1,406	7,696	0	7,696	0	246,216	0	374
	Sep	2,402	0	2,398	0.18	4,447	785	6,734	0	6,734	0	241,094	0	2,402
	Annual	83,224	0	83,058	2.55		11,644	96,200	0	96,200	0		0	83,224
1940	Oct	151	0	151	0.15	4,396	664	3,848	0	3,848	0	236,734	0	151
	Nov	79	0	79	0.02	4,324	93	8,658	0	8,658	0	228,061	0	79
	Dec	0	0	0	-0.01	4,228	-50	8,658	0	8,658	0	219,453	0	0
	Jan	0	0	0	-0.15	4,155	-625	4,810	0	4,810	0	215,268	0	0
	Feb	0	0	0	-0.09	4,099	-361	5,772	0	5,772	0	209,857	0	0
	Mar	3,514	0	3,507	0.07	4,018	300	11,544	0	11,544	0	201,519	0	3,514
	Apr	16,412	0	16,379	0.24	3,946	959	19,240	0	19,240	0	197,699	0	16,412
	May	32,702	0	32,636	0.33	4,089	1,352	2,886	0	2,886	0	226,098	0	32,702
	Jun	13,046	0	13,020	0.40	4,286	1,703	5,772	0	5,772	0	231,642	0	13,046
	Jul	1,097	0	1,095	0.44	4,253	1,853	10,582	0	10,582	0	220,302	0	1,097
	Aug	1,046	0	1,044	0.33	4,143	1,383	7,696	0	7,696	0	212,267	0	1,046
	Sep	1,310	0	1,307	0.20	4,060	818	6,734	0	6,734	0	206,023	0	1,310
	Annual	69,357	0	69,218	1.94		8,090	96,200	0	96,200	0		0	69,357

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1941	Oct	2,929	0	2,923	0.17	4,014	667	3,848	0	3,848	0	204,431	0	2,929
	Nov	358	0	357	-0.09	3,956	-365	8,658	0	8,658	0	196,495	0	358
	Dec	328	0	328	-0.17	3,860	-643	8,658	0	8,658	0	188,808	0	328
	Jan	94	0	94	-0.11	3,786	-412	4,810	0	4,810	0	184,504	0	94
	Feb	57	0	57	0.01	3,721	24	5,772	0	5,772	0	178,766	0	57
	Mar	1,501	0	1,498	0.01	3,611	27	11,544	0	11,544	0	168,692	0	1,501
	Apr	10,581	0	10,560	0.05	3,472	160	19,240	0	19,240	0	159,853	0	10,581
	May	54,190	0	54,081	0.27	3,738	1,006	2,886	0	2,886	0	210,041	0	54,190
	Jun	55,965	0	55,853	0.17	4,342	724	5,772	0	5,772	0	259,398	0	55,965
	Jul	40,854	0	40,773	0.39	4,749	1,863	10,582	0	10,582	0	287,726	0	40,854
	Aug	8,527	0	8,510	0.32	4,880	1,551	7,696	0	7,696	0	286,989	0	8,527
	Sep	4,844	0	4,834	0.10	4,866	467	6,734	0	6,734	0	284,622	0	4,844
	Annual	180,229	0	179,869	1.10		5,069	96,200	0	96,200	0		0	180,229
1942	Oct	23,335	0	23,288	-0.05	4,945	-264	3,848	0	3,848	0	304,327	0	23,335
	Nov	7,425	0	7,410	0.07	5,027	335	8,658	0	8,658	0	302,744	0	7,425
	Dec	3,107	0	3,101	-0.09	4,997	-471	8,658	0	8,658	0	297,659	0	3,107
	Jan	1,656	0	1,653	0.03	4,959	154	4,810	0	4,810	0	294,348	0	1,656
	Feb	886	0	884	-0.01	4,922	-53	5,772	0	5,772	0	289,513	0	886
	Mar	3,022	0	3,016	0.01	4,861	61	11,544	0	11,544	0	280,924	0	3,022
	Apr	36,787	0	36,713	0.07	4,900	366	19,240	0	19,240	0	298,031	0	36,787
	May	41,562	0	41,479	0.45	5,146	2,337	2,886	0	2,886	0	334,287	0	41,562
	Jun	49,328	0	49,230	0.53	5,496	2,899	5,772	0	5,772	0	374,845	0	49,328
	Jul	11,167	0	11,144	0.45	5,670	2,549	10,582	0	10,582	0	372,859	0	11,167
	Aug	2,018	0	2,014	0.36	5,628	2,016	7,696	0	7,696	0	365,161	0	2,018
	Sep	806	0	804	0.35	5,559	1,918	6,734	0	6,734	0	357,314	0	806
	Annual	181,099	0	180,737	2.16		11,845	96,200	0	96,200	0		0	181,099
1943	Oct	228	0	228	0.22	5,502	1,234	3,848	0	3,848	0	352,459	0	228
	Nov	29	0	29	0.10	5,439	563	8,658	0	8,658	0	343,267	0	29
	Dec	0	0	0	-0.02	5,357	-114	8,658	0	8,658	0	334,723	0	0
	Jan	0	0	0	-0.01	5,295	-66	4,810	0	4,810	0	329,979	0	0
	Feb	0	0	0	0.04	5,245	206	5,772	0	5,772	0	324,002	0	0
	Mar	2,175	0	2,171	0.07	5,171	356	11,544	0	11,544	0	314,273	0	2,175
	Apr	32,011	0	31,947	0.29	5,178	1,479	19,240	0	19,240	0	325,501	0	32,011
	May	30,301	0	30,241	0.37	5,349	1,966	2,886	0	2,886	0	350,890	0	30,301
	Jun	24,207	0	24,159	0.41	5,538	2,296	5,772	0	5,772	0	366,981	0	24,207
	Jul	5,645	0	5,634	0.46	5,577	2,586	10,582	0	10,582	0	359,447	0	5,645
	Aug	2,298	0	2,293	0.23	5,513	1,245	7,696	0	7,696	0	352,799	0	2,298
	Sep	484	0	483	0.31	5,447	1,676	6,734	0	6,734	0	344,872	0	484
	Annual	97,379	0	97,184	2.47		13,426	96,200	0	96,200	0		0	97,379
1944	Oct	197	0	197	0.14	5,391	764	3,848	0	3,848	0	340,457	0	197
	Nov	65	0	65	0.04	5,330	228	8,658	0	8,658	0	331,636	0	65
	Dec	0	0	0	-0.19	5,253	-1,013	8,658	0	8,658	0	323,991	0	0
	Jan	0	0	0	-0.06	5,196	-293	4,810	0	4,810	0	319,473	0	0
	Feb	0	0	0	0.02	5,145	108	5,772	0	5,772	0	313,593	0	0
	Mar	143	0	143	0.05	5,065	259	11,544	0	11,544	0	301,933	0	143
	Apr	11,798	0	11,774	0.22	4,974	1,095	19,240	0	19,240	0	293,372	0	11,798
	May	45,284	0	45,193	0.36	5,122	1,850	2,886	0	2,886	0	333,830	0	45,284
	Jun	53,312	0	53,205	0.49	5,510	2,676	5,772	0	5,772	0	378,587	0	53,312
	Jul	16,151	0	16,118	0.29	5,728	1,657	10,582	0	10,582	0	382,466	0	16,151
	Aug	1,663	0	1,659	0.34	5,710	1,919	7,696	0	7,696	0	374,511	0	1,663
	Sep	162	0	161	0.29	5,640	1,619	6,734	0	6,734	0	366,319	0	162
	Annual	128,773	0	128,515	1.99		10,869	96,200	0	96,200	0		0	128,773
1945	Oct	778	0	777	0.11	5,587	596	3,848	0	3,848	0	362,651	0	778
	Nov	238	0	237	0.00	5,534	-20	8,658	0	8,658	0	354,251	0	238
	Dec	0	0	0	-0.13	5,460	-728	8,658	0	8,658	0	346,321	0	0
	Jan	30	0	30	-0.02	5,403	-107	4,810	0	4,810	0	341,648	0	30
	Feb	97	0	97	0.04	5,355	229	5,772	0	5,772	0	335,744	0	97
	Mar	1,019	0	1,017	-0.02	5,278	-99	11,544	0	11,544	0	325,317	0	1,019
	Apr	18,494	0	18,457	0.16	5,221	824	19,240	0	19,240	0	323,709	0	18,494
	May	52,312	0	52,207	0.41	5,429	2,220	2,886	0	2,886	0	370,810	0	52,312
	Jun	43,964	0	43,876	0.53	5,730	3,019	5,772	0	5,772	15,165	390,730	15,196	28,768
	Jul	9,213	0	9,195	0.32	5,802	1,831	10,582	0	10,582	0	387,511	0	9,213
	Aug	2,278	0	2,273	0.22	5,760	1,253	7,696	0	7,696	0	380,836	0	2,278
	Sep	78	0	77	0.36	5,693	2,060	6,734	0	6,734	0	372,119	0	78
	Annual	128,500	0	128,243	1.96		11,077	96,200	0	96,200	15,165		15,196	113,304

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1946	Oct	247	0	247	0.12	5,637	679	3,848	0	3,848	0	367,839	0	247
	Nov	0	0	0	0.09	5,577	496	8,658	0	8,658	0	358,685	0	0
	Dec	0	0	0	-0.08	5,499	-432	8,658	0	8,658	0	350,459	0	0
	Jan	0	0	0	-0.01	5,440	-51	4,810	0	4,810	0	345,700	0	0
	Feb	0	0	0	0.05	5,391	259	5,772	0	5,772	0	339,669	0	0
	Mar	1,026	0	1,023	0.07	5,313	369	11,544	0	11,544	0	328,779	0	1,026
	Apr	14,955	0	14,925	0.18	5,237	926	19,240	0	19,240	0	323,538	0	14,955
	May	12,222	0	12,197	0.36	5,247	1,897	2,886	0	2,886	0	330,952	0	12,222
	Jun	14,738	0	14,709	0.62	5,309	3,317	5,772	0	5,772	0	336,571	0	14,738
	Jul	1,159	0	1,157	0.38	5,282	2,017	10,582	0	10,582	0	325,128	0	1,159
	Aug	1,277	0	1,275	0.12	5,194	600	7,696	0	7,696	0	318,107	0	1,277
	Sep	1,207	0	1,204	0.24	5,129	1,232	6,734	0	6,734	0	311,345	0	1,207
	Annual	46,830	0	46,736	2.14		11,310	96,200	0	96,200	0		0	46,830
1947	Oct	1,291	0	1,288	0.08	5,084	397	3,848	0	3,848	0	308,388	0	1,291
	Nov	875	0	873	0.03	5,035	153	8,658	0	8,658	0	300,450	0	875
	Dec	261	0	260	0.05	4,960	271	8,658	0	8,658	0	291,782	0	261
	Jan	0	0	0	-0.02	4,900	-116	4,810	0	4,810	0	287,088	0	0
	Feb	61	0	60	0.03	4,851	128	5,772	0	5,772	0	281,249	0	61
	Mar	2,306	0	2,301	0.10	4,779	455	11,544	0	11,544	0	271,552	0	2,306
	Apr	10,606	0	10,585	0.26	4,685	1,221	19,240	0	19,240	0	261,675	0	10,606
	May	31,623	0	31,560	0.25	4,767	1,205	2,886	0	2,886	0	289,144	0	31,623
	Jun	23,815	0	23,768	0.63	4,964	3,144	5,772	0	5,772	0	303,996	0	23,815
	Jul	4,260	0	4,252	0.40	4,994	1,975	10,582	0	10,582	0	295,690	0	4,260
	Aug	4,433	0	4,424	0.16	4,938	777	7,696	0	7,696	0	291,640	0	4,433
	Sep	2,764	0	2,759	0.19	4,898	914	6,734	0	6,734	0	286,751	0	2,764
	Annual	82,294	0	82,130	2.15		10,524	96,200	0	96,200	0		0	82,294
1948	Oct	3,198	0	3,191	0.16	4,869	756	3,848	0	3,848	0	285,338	0	3,198
	Nov	756	0	755	0.03	4,824	140	8,658	0	8,658	0	277,296	0	756
	Dec	102	0	102	-0.05	4,748	-223	8,658	0	8,658	0	268,963	0	102
	Jan	0	0	0	0.01	4,685	41	4,810	0	4,810	0	264,112	0	0
	Feb	0	0	0	-0.01	4,632	-53	5,772	0	5,772	0	258,393	0	0
	Mar	565	0	564	0.02	4,545	77	11,544	0	11,544	0	247,336	0	565
	Apr	22,787	0	22,742	0.21	4,501	951	19,240	0	19,240	0	249,887	0	22,787
	May	45,070	0	44,980	0.30	4,712	1,390	2,886	0	2,886	0	290,591	0	45,070
	Jun	41,393	0	41,310	0.34	5,065	1,741	5,772	0	5,772	0	324,388	0	41,393
	Jul	8,010	0	7,994	0.39	5,199	2,006	10,582	0	10,582	0	319,794	0	8,010
	Aug	2,123	0	2,119	0.30	5,143	1,566	7,696	0	7,696	0	312,651	0	2,123
	Sep	187	0	187	0.24	5,074	1,212	6,734	0	6,734	0	304,892	0	187
	Annual	124,192	0	123,944	1.93		9,602	96,200	0	96,200	0		0	124,192
1949	Oct	97	0	97	0.13	5,020	644	3,848	0	3,848	0	300,497	0	97
	Nov	82	0	82	0.05	4,960	226	8,658	0	8,658	0	291,695	0	82
	Dec	0	0	0	-0.11	4,882	-519	8,658	0	8,658	0	283,556	0	0
	Jan	0	0	0	-0.17	4,826	-825	4,810	0	4,810	0	279,571	0	0
	Feb	0	0	0	-0.07	4,783	-313	5,772	0	5,772	0	274,112	0	0
	Mar	858	0	856	0.07	4,705	314	11,544	0	11,544	0	263,110	0	858
	Apr	20,282	0	20,242	0.12	4,654	576	19,240	0	19,240	0	263,535	0	20,282
	May	40,873	0	40,791	0.30	4,826	1,429	2,886	0	2,886	0	300,011	0	40,873
	Jun	50,619	0	50,517	0.22	5,198	1,126	5,772	0	5,772	0	343,631	0	50,619
	Jul	22,545	0	22,500	0.29	5,447	1,601	10,582	0	10,582	0	353,949	0	22,545
	Aug	3,600	0	3,593	0.36	5,467	1,947	7,696	0	7,696	0	347,899	0	3,600
	Sep	665	0	663	0.27	5,404	1,443	6,734	0	6,734	0	340,385	0	665
	Annual	139,620	0	139,341	1.45		7,647	96,200	0	96,200	0		0	139,620
1950	Oct	255	0	254	0.12	5,351	665	3,848	0	3,848	0	336,127	0	255
	Nov	237	0	237	0.06	5,290	341	8,658	0	8,658	0	327,364	0	237
	Dec	0	0	0	0.02	5,207	123	8,658	0	8,658	0	318,583	0	0
	Jan	0	0	0	-0.06	5,143	-290	4,810	0	4,810	0	314,064	0	0
	Feb	0	0	0	0.03	5,095	167	5,772	0	5,772	0	308,125	0	0
	Mar	1,433	0	1,431	0.09	5,021	430	11,544	0	11,544	0	297,582	0	1,433
	Apr	22,447	0	22,402	0.23	4,983	1,135	19,240	0	19,240	0	299,610	0	22,447
	May	21,610	0	21,566	0.38	5,068	1,912	2,886	0	2,886	0	316,379	0	21,610
	Jun	17,252	0	17,217	0.54	5,185	2,798	5,772	0	5,772	0	325,026	0	17,252
	Jul	2,829	0	2,823	0.35	5,181	1,801	10,582	0	10,582	0	315,466	0	2,829
	Aug	438	0	437	0.40	5,093	2,015	7,696	0	7,696	0	306,192	0	438
	Sep	347	0	346	0.20	5,018	990	6,734	0	6,734	0	298,814	0	347
	Annual	66,848	0	66,714	2.36		12,085	96,200	0	96,200	0		0	66,848

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1951	Oct	213	0	213	0.19	4,964	957	3,848	0	3,848	0	294,222	0	213
	Nov	0	0	0	0.07	4,902	357	8,658	0	8,658	0	285,206	0	0
	Dec	0	0	0	-0.05	4,821	-228	8,658	0	8,658	0	276,776	0	0
	Jan	0	0	0	-0.08	4,761	-389	4,810	0	4,810	0	272,355	0	0
	Feb	0	0	0	0.00	4,713	14	5,772	0	5,772	0	266,569	0	0
	Mar	383	0	382	0.11	4,626	490	11,544	0	11,544	0	254,917	0	383
	Apr	6,484	0	6,471	0.14	4,496	618	19,240	0	19,240	0	241,530	0	6,484
	May	20,752	0	20,711	0.36	4,511	1,616	2,886	0	2,886	0	257,739	0	20,752
	Jun	17,686	0	17,651	0.60	4,642	2,794	5,772	0	5,772	0	266,824	0	17,686
	Jul	960	0	958	0.54	4,626	2,481	10,582	0	10,582	0	254,720	0	960
	Aug	1,355	0	1,352	0.22	4,527	980	7,696	0	7,696	0	247,396	0	1,355
	Sep	361	0	360	0.30	4,447	1,314	6,734	0	6,734	0	239,707	0	361
	Annual	48,195	0	48,098	2.39		11,005	96,200	0	96,200	0		0	48,195
1952	Oct	117	0	117	0.15	4,381	670	3,848	0	3,848	0	235,306	0	117
	Nov	5	0	5	0.03	4,308	116	8,658	0	8,658	0	226,538	0	5
	Dec	0	0	0	-0.18	4,215	-765	8,658	0	8,658	0	218,645	0	0
	Jan	0	0	0	-0.09	4,145	-383	4,810	0	4,810	0	214,218	0	0
	Feb	0	0	0	0.02	4,085	90	5,772	0	5,772	0	208,355	0	0
	Mar	421	0	420	0.10	3,981	387	11,544	0	11,544	0	196,844	0	421
	Apr	27,532	0	27,477	0.15	3,958	601	19,240	0	19,240	0	204,481	0	27,532
	May	52,331	0	52,226	0.33	4,273	1,419	2,886	0	2,886	0	252,402	0	52,331
	Jun	53,698	0	53,591	0.45	4,760	2,159	5,772	0	5,772	0	298,062	0	53,698
	Jul	18,300	0	18,264	0.39	5,004	1,937	10,582	0	10,582	0	303,807	0	18,300
	Aug	5,171	0	5,161	0.32	5,011	1,613	7,696	0	7,696	0	299,658	0	5,171
	Sep	925	0	923	0.26	4,960	1,281	6,734	0	6,734	0	292,566	0	925
	Annual	158,500	0	158,183	1.93		9,125	96,200	0	96,200	0		0	158,500
1953	Oct	151	0	151	0.27	4,905	1,307	3,848	0	3,848	0	287,562	0	151
	Nov	27	0	27	-0.12	4,845	-560	8,658	0	8,658	0	279,491	0	27
	Dec	0	0	0	-0.03	4,767	-146	8,658	0	8,658	0	270,978	0	0
	Jan	0	0	0	0.02	4,704	79	4,810	0	4,810	0	266,089	0	0
	Feb	0	0	0	0.04	4,651	181	5,772	0	5,772	0	260,136	0	0
	Mar	2,550	0	2,545	0.12	4,571	545	11,544	0	11,544	0	250,593	0	2,550
	Apr	14,800	0	14,770	0.23	4,492	1,027	19,240	0	19,240	0	245,096	0	14,800
	May	19,424	0	19,385	0.34	4,542	1,528	2,886	0	2,886	0	260,067	0	19,424
	Jun	30,189	0	30,129	0.48	4,726	2,252	5,772	0	5,772	0	282,172	0	30,189
	Jul	3,469	0	3,462	0.32	4,791	1,536	10,582	0	10,582	0	273,516	0	3,469
	Aug	981	0	979	0.29	4,712	1,387	7,696	0	7,696	0	265,412	0	981
	Sep	0	0	0	0.38	4,631	1,772	6,734	0	6,734	0	256,906	0	0
	Annual	71,592	0	71,449	2.33		10,909	96,200	0	96,200	0		0	71,592
1954	Oct	314	0	313	0.14	4,566	629	3,848	0	3,848	0	252,743	0	314
	Nov	118	0	118	0.03	4,498	121	8,658	0	8,658	0	244,082	0	118
	Dec	0	0	0	-0.03	4,406	-141	8,658	0	8,658	0	235,565	0	0
	Jan	0	0	0	0.02	4,333	73	4,810	0	4,810	0	230,681	0	0
	Feb	0	0	0	0.09	4,272	368	5,772	0	5,772	0	224,541	0	0
	Mar	254	0	253	-0.01	4,173	-48	11,544	0	11,544	0	213,298	0	254
	Apr	18,059	0	18,023	0.27	4,095	1,125	19,240	0	19,240	0	210,956	0	18,059
	May	25,262	0	25,211	0.22	4,203	937	2,886	0	2,886	0	232,344	0	25,262
	Jun	9,660	0	9,641	0.51	4,334	2,197	5,772	0	5,772	0	234,016	0	9,660
	Jul	2,222	0	2,217	0.33	4,288	1,433	10,582	0	10,582	0	224,218	0	2,222
	Aug	1,826	0	1,823	0.26	4,194	1,084	7,696	0	7,696	0	217,261	0	1,826
	Sep	643	0	642	0.21	4,114	864	6,734	0	6,734	0	210,305	0	643
	Annual	58,358	0	58,241	2.03		8,642	96,200	0	96,200	0		0	58,358
1955	Oct	600	0	599	0.15	4,051	609	3,848	0	3,848	0	206,447	0	600
	Nov	7	0	7	0.09	3,974	353	8,658	0	8,658	0	197,444	0	7
	Dec	0	0	0	0.02	3,866	94	8,658	0	8,658	0	188,692	0	0
	Jan	0	0	0	0.00	3,781	-6	4,810	0	4,810	0	183,888	0	0
	Feb	0	0	0	-0.07	3,714	-243	5,772	0	5,772	0	178,359	0	0
	Mar	256	0	256	0.12	3,593	424	11,544	0	11,544	0	166,646	0	256
	Apr	7,157	0	7,143	0.22	3,410	762	19,240	0	19,240	0	153,787	0	7,157
	May	21,648	0	21,604	0.30	3,446	1,032	2,886	0	2,886	0	171,473	0	21,648
	Jun	22,982	0	22,936	0.53	3,683	1,961	5,772	0	5,772	0	186,676	0	22,982
	Jul	2,370	0	2,365	0.28	3,725	1,057	10,582	0	10,582	0	177,402	0	2,370
	Aug	2,948	0	2,943	0.21	3,624	752	7,696	0	7,696	0	171,897	0	2,948
	Sep	356	0	355	0.32	3,529	1,114	6,734	0	6,734	0	164,404	0	356
	Annual	58,325	0	58,208	2.18		7,910	96,200	0	96,200	0		0	58,325

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1956	Oct	32	0	32	0.21	3,440	722	3,848	0	3,848	0	159,866	0	32
	Nov	2	0	2	0.02	3,339	72	8,658	0	8,658	0	151,138	0	2
	Dec	0	0	0	-0.05	3,204	-160	8,658	0	8,658	0	142,640	0	0
	Jan	0	0	0	-0.03	3,101	-100	4,810	0	4,810	0	137,930	0	0
	Feb	0	0	0	0.00	3,019	-8	5,772	0	5,772	0	132,166	0	0
	Mar	4,695	0	4,686	0.14	2,913	417	11,544	0	11,544	0	124,890	0	4,695
	Apr	14,242	0	14,214	0.24	2,804	664	19,240	0	19,240	0	119,200	0	14,242
	May	31,271	0	31,209	0.36	2,976	1,084	2,886	0	2,886	0	146,439	0	31,271
	Jun	21,580	0	21,536	0.53	3,306	1,749	5,772	0	5,772	0	160,454	0	21,580
	Jul	1,031	0	1,029	0.42	3,331	1,403	10,582	0	10,582	0	149,498	0	1,031
	Aug	373	0	372	0.36	3,179	1,137	7,696	0	7,696	0	141,036	0	373
	Sep	0	0	0	0.44	3,049	1,330	6,734	0	6,734	0	132,972	0	0
	Annual	73,226	0	73,079	2.64		8,311	96,200	0	96,200	0		0	73,226
1957	Oct	67	0	67	0.15	2,951	446	3,848	0	3,848	0	128,744	0	67
	Nov	0	0	0	0.07	2,842	205	8,658	0	8,658	0	119,881	0	0
	Dec	0	0	0	0.05	2,687	125	8,658	0	8,658	0	111,097	0	0
	Jan	0	0	0	-0.21	2,565	-549	4,810	0	4,810	0	106,837	0	0
	Feb	0	0	0	0.02	2,465	54	5,772	0	5,772	0	101,011	0	0
	Mar	804	0	803	0.07	2,288	164	11,544	0	11,544	0	90,105	0	804
	Apr	12,375	0	12,351	0.14	2,090	287	19,240	0	19,240	0	82,929	0	12,375
	May	24,397	0	24,348	0.08	2,240	180	2,886	0	2,886	0	104,211	0	24,397
	Jun	56,225	0	56,112	0.33	2,890	967	5,772	0	5,772	0	153,584	0	56,225
	Jul	40,230	0	40,150	0.22	3,520	784	10,582	0	10,582	0	182,368	0	40,230
	Aug	15,164	0	15,134	0.14	3,775	515	7,696	0	7,696	0	189,291	0	15,164
	Sep	3,560	0	3,553	0.33	3,791	1,268	6,734	0	6,734	0	184,841	0	3,560
	Annual	152,822	0	152,516	1.40		4,447	96,200	0	96,200	0		0	152,822
1958	Oct	2,314	0	2,310	0.04	3,752	135	3,848	0	3,848	0	183,169	0	2,314
	Nov	2,930	0	2,924	-0.07	3,705	-271	8,658	0	8,658	0	177,705	0	2,930
	Dec	1,057	0	1,055	0.02	3,613	62	8,658	0	8,658	0	170,040	0	1,057
	Jan	572	0	571	-0.11	3,529	-387	4,810	0	4,810	0	166,189	0	572
	Feb	324	0	323	-0.06	3,462	-207	5,772	0	5,772	0	160,947	0	324
	Mar	1,639	0	1,635	-0.01	3,347	-36	11,544	0	11,544	0	151,074	0	1,639
	Apr	17,306	0	17,272	0.10	3,252	316	19,240	0	19,240	0	148,790	0	17,306
	May	52,315	0	52,211	0.34	3,574	1,203	2,886	0	2,886	0	196,911	0	52,315
	Jun	40,475	0	40,395	0.51	4,103	2,096	5,772	0	5,772	0	229,437	0	40,475
	Jul	4,408	0	4,399	0.43	4,247	1,808	10,582	0	10,582	0	221,447	0	4,408
	Aug	1,712	0	1,709	0.30	4,161	1,243	7,696	0	7,696	0	214,217	0	1,712
	Sep	2,548	0	2,542	0.24	4,089	964	6,734	0	6,734	0	209,061	0	2,548
	Annual	127,600	0	127,345	1.70		6,926	96,200	0	96,200	0		0	127,600
1959	Oct	464	0	463	0.14	4,036	568	3,848	0	3,848	0	205,108	0	464
	Nov	8	0	8	0.08	3,958	306	8,658	0	8,658	0	196,152	0	8
	Dec	0	0	0	0.06	3,849	215	8,658	0	8,658	0	187,279	0	0
	Jan	0	0	0	0.05	3,762	181	4,810	0	4,810	0	182,288	0	0
	Feb	0	0	0	0.00	3,691	9	5,772	0	5,772	0	176,508	0	0
	Mar	215	0	215	0.09	3,566	330	11,544	0	11,544	0	164,849	0	215
	Apr	8,692	0	8,675	0.23	3,395	784	19,240	0	19,240	0	153,499	0	8,692
	May	15,714	0	15,683	0.39	3,396	1,312	2,886	0	2,886	0	164,983	0	15,714
	Jun	16,677	0	16,643	0.45	3,551	1,593	5,772	0	5,772	0	174,262	0	16,677
	Jul	414	0	413	0.43	3,534	1,508	10,582	0	10,582	0	162,585	0	414
	Aug	2,061	0	2,057	0.19	3,400	645	7,696	0	7,696	0	156,301	0	2,061
	Sep	178	0	177	0.34	3,292	1,122	6,734	0	6,734	0	148,621	0	178
	Annual	44,423	0	44,334	2.44		8,573	96,200	0	96,200	0		0	44,423
1960	Oct	5,119	0	5,109	0.01	3,241	48	3,848	0	3,848	0	149,834	0	5,119
	Nov	3,052	0	3,046	0.08	3,204	247	8,658	0	8,658	0	143,975	0	3,052
	Dec	119	0	119	-0.10	3,094	-313	8,658	0	8,658	0	135,749	0	119
	Jan	0	0	0	-0.05	2,993	-143	4,810	0	4,810	0	131,082	0	0
	Feb	40	0	40	-0.04	2,909	-114	5,772	0	5,772	0	125,464	0	40
	Mar	4,213	0	4,204	0.06	2,798	182	11,544	0	11,544	0	117,943	0	4,213
	Apr	37,347	0	37,272	0.22	2,878	630	19,240	0	19,240	0	135,344	0	37,347
	May	32,839	0	32,773	0.31	3,248	1,002	2,886	0	2,886	0	164,230	0	32,839
	Jun	42,375	0	42,290	0.46	3,706	1,717	5,772	0	5,772	0	199,030	0	42,375
	Jul	6,210	0	6,197	0.43	3,902	1,660	10,582	0	10,582	0	192,986	0	6,210
	Aug	513	0	512	0.45	3,809	1,722	7,696	0	7,696	0	184,080	0	513
	Sep	94	0	94	0.31	3,701	1,149	6,734	0	6,734	0	176,292	0	94
	Annual	131,920	0	131,656	2.15		7,786	96,200	0	96,200	0		0	131,920

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1961	Oct	37	0	37	0.06	3,619	218	3,848	0	3,848	0	172,263	0	37
	Nov	5	0	5	0.05	3,525	189	8,658	0	8,658	0	163,421	0	5
	Dec	0	0	0	-0.09	3,397	-310	8,658	0	8,658	0	155,073	0	0
	Jan	0	0	0	0.01	3,295	45	4,810	0	4,810	0	150,218	0	0
	Feb	0	0	0	0.00	3,210	15	5,772	0	5,772	0	144,431	0	0
	Mar	807	0	806	0.00	3,081	0	11,544	0	11,544	0	133,693	0	807
	Apr	17,554	0	17,518	0.17	2,979	519	19,240	0	19,240	0	131,452	0	17,554
	May	35,771	0	35,700	0.34	3,208	1,085	2,886	0	2,886	0	163,180	0	35,771
	Jun	19,251	0	19,212	0.39	3,545	1,383	5,772	0	5,772	0	175,237	0	19,251
	Jul	1,964	0	1,960	0.34	3,562	1,199	10,582	0	10,582	0	165,416	0	1,964
	Aug	3,002	0	2,996	0.07	3,453	253	7,696	0	7,696	0	160,462	0	3,002
	Sep	3,132	0	3,126	0.02	3,388	56	6,734	0	6,734	0	156,798	0	3,132
	Annual	81,522	0	81,359	1.37		4,653	96,200	0	96,200	0		0	81,522
1962	Oct	2,259	0	2,255	-0.04	3,349	-137	3,848	0	3,848	0	155,342	0	2,259
	Nov	1,121	0	1,119	-0.01	3,277	-41	8,658	0	8,658	0	147,844	0	1,121
	Dec	96	0	96	-0.07	3,154	-232	8,658	0	8,658	0	139,515	0	96
	Jan	116	0	116	-0.01	3,053	-36	4,810	0	4,810	0	134,856	0	116
	Feb	757	0	756	-0.06	2,977	-192	5,772	0	5,772	0	130,032	0	757
	Mar	1,341	0	1,338	0.06	2,851	174	11,544	0	11,544	0	119,653	0	1,341
	Apr	33,132	0	33,066	0.23	2,874	653	19,240	0	19,240	0	132,826	0	33,132
	May	38,856	0	38,778	0.39	3,251	1,256	2,886	0	2,886	0	167,462	0	38,856
	Jun	35,370	0	35,300	0.48	3,706	1,768	5,772	0	5,772	0	195,222	0	35,370
	Jul	7,230	0	7,215	0.32	3,864	1,235	10,582	0	10,582	0	190,620	0	7,230
	Aug	750	0	748	0.35	3,784	1,308	7,696	0	7,696	0	182,364	0	750
	Sep	401	0	400	0.03	3,687	94	6,734	0	6,734	0	175,936	0	401
	Annual	121,431	0	121,188	1.64		5,850	96,200	0	96,200	0		0	121,431
1963	Oct	755	0	753	0.13	3,616	487	3,848	0	3,848	0	172,354	0	755
	Nov	173	0	173	-0.10	3,532	-338	8,658	0	8,658	0	164,207	0	173
	Dec	0	0	0	0.04	3,405	146	8,658	0	8,658	0	155,403	0	0
	Jan	0	0	0	-0.02	3,301	-76	4,810	0	4,810	0	150,668	0	0
	Feb	0	0	0	-0.03	3,219	-83	5,772	0	5,772	0	144,980	0	0
	Mar	4,094	0	4,086	0.01	3,115	36	11,544	0	11,544	0	137,486	0	4,094
	Apr	16,509	0	16,476	0.26	3,029	792	19,240	0	19,240	0	133,930	0	16,509
	May	28,360	0	28,303	0.42	3,190	1,328	2,886	0	2,886	0	158,019	0	28,360
	Jun	6,595	0	6,582	0.45	3,373	1,502	5,772	0	5,772	0	157,327	0	6,595
	Jul	824	0	823	0.35	3,281	1,134	10,582	0	10,582	0	146,434	0	824
	Aug	550	0	549	0.16	3,136	508	7,696	0	7,696	0	138,779	0	550
	Sep	620	0	619	0.20	3,024	607	6,734	0	6,734	0	132,057	0	620
	Annual	58,480	0	58,363	1.88		6,043	96,200	0	96,200	0		0	58,480
1964	Oct	142	0	142	0.12	2,938	346	3,848	0	3,848	0	128,004	0	142
	Nov	18	0	18	0.07	2,830	208	8,658	0	8,658	0	119,156	0	18
	Dec	0	0	0	0.06	2,674	161	8,658	0	8,658	0	110,337	0	0
	Jan	0	0	0	0.00	2,545	-6	4,810	0	4,810	0	105,533	0	0
	Feb	0	0	0	0.00	2,439	-7	5,772	0	5,772	0	99,768	0	0
	Mar	95	0	95	0.05	2,255	113	11,544	0	11,544	0	88,206	0	95
	Apr	7,083	0	7,068	0.19	1,981	377	19,240	0	19,240	0	75,658	0	7,083
	May	31,611	0	31,548	0.37	2,145	791	2,886	0	2,886	0	103,529	0	31,611
	Jun	12,481	0	12,456	0.52	2,511	1,295	5,772	0	5,772	0	108,918	0	12,481
	Jul	2,580	0	2,575	0.28	2,477	700	10,582	0	10,582	0	100,211	0	2,580
	Aug	6,898	0	6,884	0.17	2,377	393	7,696	0	7,696	0	99,006	0	6,898
	Sep	671	0	669	0.11	2,296	242	6,734	0	6,734	0	92,699	0	671
	Annual	61,578	0	61,455	1.92		4,613	96,200	0	96,200	0		0	61,578
1965	Oct	157	0	157	0.21	2,182	465	3,848	0	3,848	0	88,543	0	157
	Nov	12	0	12	-0.01	2,037	-29	8,658	0	8,658	0	79,926	0	12
	Dec	0	0	0	-0.17	1,833	-315	8,658	0	8,658	0	71,583	0	0
	Jan	0	0	0	-0.11	1,685	-192	4,810	0	4,810	0	66,965	0	0
	Feb	0	0	0	-0.02	1,585	-25	5,772	0	5,772	0	61,218	0	0
	Mar	271	0	270	0.07	1,412	93	11,544	0	11,544	0	49,851	0	271
	Apr	18,000	0	17,964	0.20	1,280	258	19,240	0	19,240	0	48,318	0	18,000
	May	40,606	0	40,525	0.27	1,667	452	2,886	0	2,886	0	85,504	0	40,606
	Jun	51,940	0	51,836	0.32	2,510	791	5,772	0	5,772	0	130,777	0	51,940
	Jul	30,494	0	30,434	0.23	3,100	715	10,582	0	10,582	0	149,914	0	30,494
	Aug	5,857	0	5,845	0.22	3,230	708	7,696	0	7,696	0	147,355	0	5,857
	Sep	5,450	0	5,439	0.06	3,199	189	6,734	0	6,734	0	145,871	0	5,450
	Annual	152,788	0	152,482	1.26		3,111	96,200	0	96,200	0		0	152,788

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1966	Oct	5,399	0	5,388	0.09	3,197	301	3,848	0	3,848	0	147,110	0	5,399
	Nov	1,901	0	1,898	-0.05	3,155	-144	8,658	0	8,658	0	140,493	0	1,901
	Dec	1,047	0	1,045	-0.08	3,046	-243	8,658	0	8,658	0	133,123	0	1,047
	Jan	827	0	826	0.01	2,956	38	4,810	0	4,810	0	129,101	0	827
	Feb	255	0	254	0.02	2,877	60	5,772	0	5,772	0	123,523	0	255
	Mar	5,329	0	5,318	0.11	2,774	312	11,544	0	11,544	0	116,986	0	5,329
	Apr	26,944	0	26,890	0.28	2,777	766	19,240	0	19,240	0	123,870	0	26,944
	May	46,721	0	46,627	0.36	3,171	1,135	2,886	0	2,886	0	166,476	0	46,721
	Jun	24,588	0	24,539	0.35	3,628	1,280	5,772	0	5,772	0	183,963	0	24,588
	Jul	4,374	0	4,365	0.27	3,702	992	10,582	0	10,582	0	176,754	0	4,374
	Aug	1,625	0	1,622	0.23	3,604	818	7,696	0	7,696	0	169,862	0	1,625
	Sep	188	0	188	0.22	3,501	777	6,734	0	6,734	0	162,539	0	188
	Annual	119,198	0	118,960	1.82		6,091	96,200	0	96,200	0		0	119,198
1967	Oct	176	0	175	0.21	3,414	710	3,848	0	3,848	0	158,156	0	176
	Nov	4	0	4	0.08	3,311	264	8,658	0	8,658	0	149,239	0	4
	Dec	852	0	850	-0.19	3,185	-595	8,658	0	8,658	0	142,026	0	852
	Jan	0	0	0	-0.01	3,091	-23	4,810	0	4,810	0	137,239	0	0
	Feb	0	0	0	0.07	3,006	212	5,772	0	5,772	0	131,255	0	0
	Mar	3,183	0	3,176	0.13	2,886	384	11,544	0	11,544	0	122,503	0	3,183
	Apr	11,120	0	11,098	0.28	2,733	753	19,240	0	19,240	0	113,608	0	11,120
	May	23,085	0	23,039	0.37	2,818	1,047	2,886	0	2,886	0	132,714	0	23,085
	Jun	25,706	0	25,654	0.26	3,131	822	5,772	0	5,772	0	151,775	0	25,706
	Jul	7,728	0	7,712	0.22	3,253	701	10,582	0	10,582	0	148,204	0	7,728
	Aug	9,653	0	9,634	0.01	3,240	18	7,696	0	7,696	0	150,124	0	9,653
	Sep	3,407	0	3,400	0.13	3,225	412	6,734	0	6,734	0	146,378	0	3,407
	Annual	84,912	0	84,743	1.56		4,704	96,200	0	96,200	0		0	84,912
1968	Oct	601	0	600	0.16	3,166	507	3,848	0	3,848	0	142,623	0	601
	Nov	112	0	112	0.10	3,068	305	8,658	0	8,658	0	133,772	0	112
	Dec	0	0	0	-0.08	2,930	-244	8,658	0	8,658	0	125,358	0	0
	Jan	0	0	0	0.00	2,820	6	4,810	0	4,810	0	120,542	0	0
	Feb	0	0	0	-0.04	2,728	-117	5,772	0	5,772	0	114,887	0	0
	Mar	1,610	0	1,606	0.08	2,580	215	11,544	0	11,544	0	104,735	0	1,610
	Apr	8,004	0	7,988	0.18	2,359	428	19,240	0	19,240	0	93,054	0	8,004
	May	27,078	0	27,024	0.27	2,472	668	2,886	0	2,886	0	116,524	0	27,078
	Jun	39,763	0	39,684	0.41	2,974	1,205	5,772	0	5,772	0	149,230	0	39,763
	Jul	7,963	0	7,947	0.27	3,212	880	10,582	0	10,582	0	145,715	0	7,963
	Aug	12,126	0	12,101	0.14	3,216	436	7,696	0	7,696	0	149,685	0	12,126
	Sep	636	0	634	0.23	3,194	735	6,734	0	6,734	0	142,849	0	636
	Annual	97,892	0	97,696	1.72		5,025	96,200	0	96,200	0		0	97,892
1969	Oct	301	0	300	0.13	3,110	408	3,848	0	3,848	0	138,894	0	301
	Nov	13	0	13	0.01	3,010	43	8,658	0	8,658	0	130,206	0	13
	Dec	0	0	0	0.00	2,869	-12	8,658	0	8,658	0	121,561	0	0
	Jan	0	0	0	-0.19	2,759	-524	4,810	0	4,810	0	117,275	0	0
	Feb	0	0	0	0.01	2,668	24	5,772	0	5,772	0	111,478	0	0
	Mar	598	0	597	0.07	2,504	168	11,544	0	11,544	0	100,363	0	598
	Apr	23,405	0	23,358	0.23	2,430	548	19,240	0	19,240	0	103,933	0	23,405
	May	41,751	0	41,667	0.21	2,798	595	2,886	0	2,886	0	142,119	0	41,751
	Jun	32,529	0	32,464	0.27	3,328	890	5,772	0	5,772	0	167,920	0	32,529
	Jul	13,287	0	13,261	0.34	3,538	1,185	10,582	0	10,582	0	169,413	0	13,287
	Aug	4,740	0	4,730	0.04	3,526	149	7,696	0	7,696	0	166,299	0	4,740
	Sep	3,332	0	3,326	0.04	3,477	129	6,734	0	6,734	0	162,762	0	3,332
	Annual	119,956	0	119,716	1.15		3,603	96,200	0	96,200	0		0	119,956
1970	Oct	4,276	0	4,267	-0.03	3,454	-111	3,848	0	3,848	0	163,293	0	4,276
	Nov	2,464	0	2,459	0.05	3,410	177	8,658	0	8,658	0	156,916	0	2,464
	Dec	393	0	393	-0.04	3,297	-127	8,658	0	8,658	0	148,777	0	393
	Jan	0	0	0	0.03	3,195	94	4,810	0	4,810	0	143,873	0	0
	Feb	0	0	0	0.08	3,110	260	5,772	0	5,772	0	137,841	0	0
	Mar	259	0	258	0.02	2,972	61	11,544	0	11,544	0	126,494	0	259
	Apr	6,451	0	6,438	0.20	2,763	557	19,240	0	19,240	0	113,135	0	6,451
	May	35,058	0	34,987	0.39	2,903	1,138	2,886	0	2,886	0	144,099	0	35,058
	Jun	24,176	0	24,128	0.37	3,294	1,230	5,772	0	5,772	0	161,225	0	24,176
	Jul	7,128	0	7,114	0.32	3,392	1,097	10,582	0	10,582	0	156,660	0	7,128
	Aug	1,902	0	1,898	0.27	3,304	898	7,696	0	7,696	0	149,963	0	1,902
	Sep	15,026	0	14,996	0.18	3,312	596	6,734	0	6,734	0	157,629	0	15,026
	Annual	97,131	0	96,937	1.86		5,870	96,200	0	96,200	0		0	97,131

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1971	Oct	2,840	0	2,834	0.08	3,362	258	3,848	0	3,848	0	156,357	0	2,840
	Nov	1,543	0	1,540	0.05	3,295	149	8,658	0	8,658	0	149,090	0	1,543
	Dec	315	0	315	0.02	3,172	79	8,658	0	8,658	0	140,668	0	315
	Jan	381	0	380	-0.02	3,073	-61	4,810	0	4,810	0	136,299	0	381
	Feb	540	0	539	0.02	2,997	65	5,772	0	5,772	0	131,001	0	540
	Mar	3,311	0	3,304	0.11	2,883	328	11,544	0	11,544	0	122,434	0	3,311
	Apr	12,865	0	12,839	0.23	2,750	636	19,240	0	19,240	0	115,397	0	12,865
	May	13,292	0	13,265	0.34	2,770	934	2,886	0	2,886	0	124,843	0	13,292
	Jun	20,991	0	20,949	0.52	2,962	1,538	5,772	0	5,772	0	138,481	0	20,991
	Jul	4,199	0	4,191	0.37	3,014	1,108	10,582	0	10,582	0	130,982	0	4,199
	Aug	3,471	0	3,464	0.23	2,914	661	7,696	0	7,696	0	126,088	0	3,471
	Sep	982	0	980	0.18	2,820	517	6,734	0	6,734	0	119,817	0	982
	Annual	64,730	0	64,601	2.13		6,212	96,200	0	96,200	0		0	64,730
1972	Oct	3,033	0	3,026	0.04	2,758	113	3,848	0	3,848	0	118,882	0	3,033
	Nov	2,469	0	2,464	0.04	2,692	103	8,658	0	8,658	0	112,586	0	2,469
	Dec	849	0	847	-0.10	2,561	-264	8,658	0	8,658	0	105,039	0	849
	Jan	609	0	608	0.03	2,444	63	4,810	0	4,810	0	100,774	0	609
	Feb	326	0	325	0.04	2,342	102	5,772	0	5,772	0	95,226	0	326
	Mar	5,572	0	5,561	0.16	2,214	360	11,544	0	11,544	0	88,883	0	5,572
	Apr	9,303	0	9,284	0.30	2,022	604	19,240	0	19,240	0	78,323	0	9,303
	May	10,603	0	10,582	0.47	1,979	939	2,886	0	2,886	0	85,080	0	10,603
	Jun	8,698	0	8,680	0.41	2,082	852	5,772	0	5,772	0	87,136	0	8,698
	Jul	471	0	470	0.48	1,974	953	10,582	0	10,582	0	76,071	0	471
	Aug	57	0	57	0.33	1,751	580	7,696	0	7,696	0	67,853	0	57
	Sep	430	0	429	0.17	1,594	265	6,734	0	6,734	0	61,283	0	430
	Annual	42,420	0	42,335	2.37		4,669	96,200	0	96,200	0		0	42,420
1973	Oct	16,703	0	16,670	-0.12	1,663	-200	3,848	0	3,848	0	74,304	0	16,703
	Nov	4,200	0	4,192	-0.03	1,747	-60	8,658	0	8,658	0	69,898	0	4,200
	Dec	2,091	0	2,086	-0.09	1,635	-152	8,658	0	8,658	0	63,478	0	2,091
	Jan	1,559	0	1,556	-0.05	1,541	-70	4,810	0	4,810	0	60,294	0	1,559
	Feb	1,180	0	1,178	0.00	1,459	-1	5,772	0	5,772	0	55,701	0	1,180
	Mar	1,926	0	1,922	-0.04	1,314	-46	11,544	0	11,544	0	46,125	0	1,926
	Apr	11,845	0	11,822	0.16	1,143	186	19,240	0	19,240	0	38,520	0	11,845
	May	48,778	0	48,680	0.24	1,551	367	2,886	0	2,886	0	83,947	0	48,778
	Jun	56,247	0	56,135	0.41	2,512	1,040	5,772	0	5,772	0	133,270	0	56,247
	Jul	30,367	0	30,307	0.31	3,138	964	10,582	0	10,582	0	152,030	0	30,367
	Aug	4,397	0	4,388	0.32	3,250	1,026	7,696	0	7,696	0	147,696	0	4,397
	Sep	2,061	0	2,057	0.26	3,173	816	6,734	0	6,734	0	142,203	0	2,061
	Annual	181,354	0	180,991	1.37		3,871	96,200	0	96,200	0		0	181,354
1974	Oct	1,046	0	1,044	0.18	3,104	562	3,848	0	3,848	0	138,838	0	1,046
	Nov	89	0	89	0.07	3,008	197	8,658	0	8,658	0	130,072	0	89
	Dec	20	0	20	-0.05	2,868	-158	8,658	0	8,658	0	121,591	0	20
	Jan	0	0	0	-0.09	2,757	-245	4,810	0	4,810	0	117,026	0	0
	Feb	0	0	0	0.03	2,663	82	5,772	0	5,772	0	111,172	0	0
	Mar	3,246	0	3,240	0.07	2,525	187	11,544	0	11,544	0	102,681	0	3,246
	Apr	8,552	0	8,535	0.26	2,320	596	19,240	0	19,240	0	91,381	0	8,552
	May	23,900	0	23,852	0.49	2,403	1,167	2,886	0	2,886	0	111,180	0	23,900
	Jun	9,513	0	9,494	0.45	2,632	1,188	5,772	0	5,772	0	113,714	0	9,513
	Jul	2,288	0	2,284	0.37	2,566	941	10,582	0	10,582	0	104,475	0	2,288
	Aug	2,270	0	2,265	0.25	2,414	599	7,696	0	7,696	0	98,445	0	2,270
	Sep	43	0	43	0.32	2,272	717	6,734	0	6,734	0	91,037	0	43
	Annual	50,969	0	50,867	2.33		5,832	96,200	0	96,200	0		0	50,969
1975	Oct	555	0	554	0.00	2,155	-2	3,848	0	3,848	0	87,746	0	555
	Nov	683	0	681	0.03	2,026	60	8,658	0	8,658	0	79,709	0	683
	Dec	34	0	34	-0.02	1,827	-42	8,658	0	8,658	0	71,127	0	34
	Jan	42	0	42	-0.03	1,676	-58	4,810	0	4,810	0	66,417	0	42
	Feb	0	0	0	-0.09	1,575	-143	5,772	0	5,772	0	60,789	0	0
	Mar	186	0	185	-0.01	1,403	-17	11,544	0	11,544	0	49,447	0	186
	Apr	10,451	0	10,430	0.20	1,196	244	19,240	0	19,240	0	40,393	0	10,451
	May	42,312	0	42,227	0.37	1,511	563	2,886	0	2,886	0	79,172	0	42,312
	Jun	54,547	0	54,438	0.48	2,401	1,157	5,772	0	5,772	0	126,681	0	54,547
	Jul	35,184	0	35,113	0.28	3,071	851	10,582	0	10,582	0	150,361	0	35,184
	Aug	4,736	0	4,726	0.31	3,227	1,016	7,696	0	7,696	0	146,376	0	4,736
	Sep	1,709	0	1,706	0.19	3,152	601	6,734	0	6,734	0	140,747	0	1,709
	Annual	150,439	0	150,138	1.71		4,228	96,200	0	96,200	0		0	150,439

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1976	Oct	260	0	259	0.26	3,074	795	3,848	0	3,848	0	136,364	0	260
	Nov	103	0	103	-0.03	2,971	-82	8,658	0	8,658	0	127,891	0	103
	Dec	52	0	52	0.04	2,829	120	8,658	0	8,658	0	119,165	0	52
	Jan	52	0	52	0.05	2,711	132	4,810	0	4,810	0	114,274	0	52
	Feb	137	0	137	0.08	2,611	215	5,772	0	5,772	0	108,424	0	137
	Mar	2,462	0	2,457	0.17	2,458	427	11,544	0	11,544	0	98,909	0	2,462
	Apr	14,864	0	14,835	0.28	2,308	641	19,240	0	19,240	0	93,863	0	14,864
	May	34,277	0	34,208	0.30	2,549	771	2,886	0	2,886	0	124,415	0	34,277
	Jun	28,818	0	28,760	0.61	3,014	1,834	5,772	0	5,772	0	145,569	0	28,818
	Jul	3,999	0	3,991	0.44	3,121	1,365	10,582	0	10,582	0	137,613	0	3,999
	Aug	1,177	0	1,175	0.31	3,000	934	7,696	0	7,696	0	130,158	0	1,177
	Sep	1,897	0	1,893	0.10	2,898	297	6,734	0	6,734	0	125,020	0	1,897
	Annual	88,097	0	87,921	2.62		7,449	96,200	0	96,200	0		0	88,097
1977	Oct	982	0	980	0.21	2,826	581	3,848	0	3,848	0	121,571	0	982
	Nov	5	0	5	0.04	2,718	118	8,658	0	8,658	0	112,801	0	5
	Dec	52	0	52	0.05	2,554	136	8,658	0	8,658	0	104,059	0	52
	Jan	61	0	61	-0.02	2,420	-37	4,810	0	4,810	0	99,346	0	61
	Feb	0	0	0	0.07	2,307	173	5,772	0	5,772	0	93,402	0	0
	Mar	410	0	409	0.16	2,114	328	11,544	0	11,544	0	81,939	0	410
	Apr	4,866	0	4,856	0.18	1,817	332	19,240	0	19,240	0	67,223	0	4,866
	May	4,529	0	4,520	0.35	1,657	586	2,886	0	2,886	0	68,271	0	4,529
	Jun	2,811	0	2,805	0.45	1,631	731	5,772	0	5,772	0	64,573	0	2,811
	Jul	1,777	0	1,773	0.23	1,500	340	10,582	0	10,582	0	55,423	0	1,777
	Aug	4,276	0	4,268	0.37	1,367	501	7,696	0	7,696	0	51,493	0	4,276
	Sep	2,014	0	2,010	0.29	1,276	367	6,734	0	6,734	0	46,402	0	2,014
	Annual	21,782	0	21,738	2.38		4,156	96,200	0	96,200	0		0	21,782
1978	Oct	876	0	875	0.23	1,188	275	3,848	0	3,848	0	43,153	0	876
	Nov	130	0	130	0.03	1,072	37	8,658	0	8,658	0	34,588	0	130
	Dec	0	0	0	0.06	906	57	8,658	0	8,658	0	25,873	0	0
	Jan	0	0	0	-0.08	770	-64	4,810	0	4,810	0	21,127	0	0
	Feb	55	0	55	-0.05	658	-35	5,772	0	5,772	0	15,445	0	55
	Mar	2,257	0	2,253	0.05	460	24	11,544	0	11,544	0	6,129	0	2,257
	Apr	19,351	0	19,312	0.32	325	103	19,240	0	19,240	0	6,099	0	19,351
	May	31,754	0	31,691	0.17	661	110	2,886	0	2,886	0	34,794	0	31,754
	Jun	45,907	0	45,815	0.50	1,394	697	5,772	0	5,772	0	74,140	0	45,907
	Jul	7,002	0	6,988	0.53	1,742	932	10,582	0	10,582	0	69,614	0	7,002
	Aug	163	0	162	0.44	1,612	702	7,696	0	7,696	0	61,379	0	163
	Sep	93	0	93	0.29	1,458	429	6,734	0	6,734	0	54,309	0	93
	Annual	107,589	0	107,373	2.49		3,267	96,200	0	96,200	0		0	107,589
1979	Oct	283	0	283	0.14	1,347	189	3,848	0	3,848	0	50,555	0	283
	Nov	235	0	235	-0.04	1,223	-48	8,658	0	8,658	0	42,180	0	235
	Dec	34	0	34	-0.26	1,056	-276	8,658	0	8,658	0	33,832	0	34
	Jan	230	0	230	-0.12	934	-114	4,810	0	4,810	0	29,365	0	230
	Feb	45	0	45	-0.01	831	-11	5,772	0	5,772	0	23,650	0	45
	Mar	751	0	750	0.11	654	72	11,544	0	11,544	0	12,784	0	751
	Apr	20,824	0	20,782	0.22	553	121	19,240	0	19,240	0	14,205	0	20,824
	May	48,540	0	48,443	0.11	1,032	109	2,886	0	2,886	0	59,653	0	48,540
	Jun	57,906	0	57,790	0.41	2,049	842	5,772	0	5,772	0	110,829	0	57,906
	Jul	31,556	0	31,493	0.50	2,772	1,389	10,582	0	10,582	0	130,351	0	31,556
	Aug	5,391	0	5,380	0.31	2,916	907	7,696	0	7,696	0	127,128	0	5,391
	Sep	141	0	141	0.32	2,826	899	6,734	0	6,734	0	119,635	0	141
	Annual	165,938	0	165,606	1.68		4,079	96,200	0	96,200	0		0	165,938
1980	Oct	161	0	161	0.22	2,725	611	3,848	0	3,848	0	115,337	0	161
	Nov	192	0	191	-0.02	2,606	-44	8,658	0	8,658	0	106,914	0	192
	Dec	5	0	5	-0.01	2,437	-35	8,658	0	8,658	0	98,296	0	5
	Jan	149	0	148	-0.16	2,303	-367	4,810	0	4,810	0	94,001	0	149
	Feb	0	0	0	-0.07	2,195	-164	5,772	0	5,772	0	88,393	0	0
	Mar	111	0	111	0.03	1,998	62	11,544	0	11,544	0	76,898	0	111
	Apr	17,830	0	17,794	0.19	1,841	348	19,240	0	19,240	0	75,103	0	17,830
	May	44,966	0	44,876	0.32	2,262	714	2,886	0	2,886	0	116,380	0	44,966
	Jun	59,689	0	59,570	0.57	3,120	1,778	5,772	0	5,772	0	168,400	0	59,689
	Jul	17,628	0	17,593	0.45	3,573	1,621	10,582	0	10,582	0	173,790	0	17,628
	Aug	2,742	0	2,737	0.31	3,568	1,119	7,696	0	7,696	0	167,712	0	2,742
	Sep	2,499	0	2,494	0.22	3,487	768	6,734	0	6,734	0	162,704	0	2,499
	Annual	145,972	0	145,680	2.05		6,412	96,200	0	96,200	0		0	145,972

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1981	Oct	329	0	328	0.13	3,419	433	3,848	0	3,848	0	158,751	0	329
	Nov	385	0	384	0.06	3,323	215	8,658	0	8,658	0	150,262	0	385
	Dec	42	0	42	0.07	3,188	214	8,658	0	8,658	0	141,432	0	42
	Jan	9	0	9	0.06	3,080	191	4,810	0	4,810	0	136,440	0	9
	Feb	8	0	8	0.10	2,992	286	5,772	0	5,772	0	130,390	0	8
	Mar	103	0	103	0.08	2,845	236	11,544	0	11,544	0	118,713	0	103
	Apr	11,453	0	11,430	0.26	2,668	699	19,240	0	19,240	0	110,204	0	11,453
	May	18,171	0	18,134	0.26	2,720	704	2,886	0	2,886	0	124,748	0	18,171
	Jun	19,878	0	19,839	0.49	2,952	1,447	5,772	0	5,772	0	137,368	0	19,878
	Jul	3,837	0	3,830	0.35	2,993	1,048	10,582	0	10,582	0	129,567	0	3,837
	Aug	944	0	942	0.23	2,869	657	7,696	0	7,696	0	122,156	0	944
	Sep	1,039	0	1,037	0.22	2,751	603	6,734	0	6,734	0	115,856	0	1,039
	Annual	56,198	0	56,086	2.31		6,733	96,200	0	96,200	0		0	56,198
1982	Oct	7,195	0	7,180	0.05	2,725	146	3,848	0	3,848	0	119,043	0	7,195
	Nov	818	0	817	0.10	2,678	278	8,658	0	8,658	0	110,924	0	818
	Dec	32	0	32	0.06	2,517	147	8,658	0	8,658	0	102,150	0	32
	Jan	1	0	1	-0.10	2,382	-239	4,810	0	4,810	0	97,580	0	1
	Feb	1	0	1	-0.10	2,273	-216	5,772	0	5,772	0	92,025	0	1
	Mar	1,312	0	1,309	0.05	2,096	100	11,544	0	11,544	0	81,691	0	1,312
	Apr	23,320	0	23,274	0.33	2,020	660	19,240	0	19,240	0	85,065	0	23,320
	May	45,559	0	45,468	0.22	2,474	545	2,886	0	2,886	0	127,101	0	45,559
	Jun	52,379	0	52,274	0.48	3,238	1,543	5,772	0	5,772	0	172,060	0	52,379
	Jul	19,962	0	19,922	0.21	3,648	777	10,582	0	10,582	0	180,622	0	19,962
	Aug	9,938	0	9,918	0.01	3,723	46	7,696	0	7,696	0	182,798	0	9,938
	Sep	14,228	0	14,200	0.03	3,783	129	6,734	0	6,734	0	190,135	0	14,228
	Annual	174,745	0	174,395	1.35		3,916	96,200	0	96,200	0		0	174,745
1983	Oct	5,189	0	5,178	0.10	3,835	385	3,848	0	3,848	0	191,080	0	5,189
	Nov	2,485	0	2,480	-0.03	3,803	-96	8,658	0	8,658	0	184,998	0	2,485
	Dec	1,518	0	1,515	-0.06	3,719	-227	8,658	0	8,658	0	178,082	0	1,518
	Jan	1,001	0	999	-0.02	3,647	-73	4,810	0	4,810	0	174,344	0	1,001
	Feb	739	0	737	-0.03	3,585	-110	5,772	0	5,772	0	169,419	0	739
	Mar	3,335	0	3,328	-0.01	3,488	-18	11,544	0	11,544	0	161,221	0	3,335
	Apr	11,983	0	11,959	0.19	3,366	642	19,240	0	19,240	0	153,298	0	11,983
	May	34,551	0	34,482	0.33	3,527	1,159	2,886	0	2,886	0	183,735	0	34,551
	Jun	55,827	0	55,716	0.26	4,038	1,061	5,772	0	5,772	0	232,618	0	55,827
	Jul	29,006	0	28,948	0.39	4,418	1,706	10,582	0	10,582	0	249,278	0	29,006
	Aug	6,337	0	6,324	0.08	4,499	342	7,696	0	7,696	0	247,564	0	6,337
	Sep	1,677	0	1,674	0.16	4,458	724	6,734	0	6,734	0	241,780	0	1,677
	Annual	153,648	0	153,341	1.37		5,496	96,200	0	96,200	0		0	153,648
1984	Oct	4,640	0	4,630	0.04	4,431	179	3,848	0	3,848	0	242,384	0	4,640
	Nov	480	0	479	-0.13	4,393	-584	8,658	0	8,658	0	234,789	0	480
	Dec	301	0	300	-0.14	4,308	-601	8,658	0	8,658	0	227,032	0	301
	Jan	447	0	446	0.00	4,240	-18	4,810	0	4,810	0	222,687	0	447
	Feb	648	0	646	0.06	4,185	271	5,772	0	5,772	0	217,290	0	648
	Mar	3,257	0	3,250	0.06	4,104	263	11,544	0	11,544	0	208,733	0	3,257
	Apr	19,742	0	19,702	0.17	4,054	690	19,240	0	19,240	0	208,506	0	19,742
	May	47,213	0	47,119	0.45	4,288	1,945	2,886	0	2,886	0	250,794	0	47,213
	Jun	41,963	0	41,879	0.33	4,693	1,531	5,772	0	5,772	0	285,370	0	41,963
	Jul	9,897	0	9,877	0.35	4,851	1,693	10,582	0	10,582	0	282,972	0	9,897
	Aug	6,165	0	6,153	0.27	4,827	1,296	7,696	0	7,696	0	280,132	0	6,165
	Sep	2,167	0	2,163	0.20	4,787	942	6,734	0	6,734	0	274,618	0	2,167
	Annual	136,919	0	136,646	1.66		7,607	96,200	0	96,200	0		0	136,919
1985	Oct	7,925	0	7,909	-0.20	4,785	-955	3,848	0	3,848	0	279,634	0	7,925
	Nov	4,065	0	4,056	0.07	4,786	353	8,658	0	8,658	0	274,680	0	4,065
	Dec	1,703	0	1,699	-0.03	4,730	-127	8,658	0	8,658	0	267,848	0	1,703
	Jan	1,436	0	1,433	-0.01	4,681	-50	4,810	0	4,810	0	264,521	0	1,436
	Feb	718	0	717	-0.01	4,640	-47	5,772	0	5,772	0	259,513	0	718
	Mar	6,729	0	6,715	-0.02	4,590	-87	11,544	0	11,544	0	254,771	0	6,729
	Apr	39,255	0	39,176	0.02	4,664	73	19,240	0	19,240	0	274,634	0	39,255
	May	53,168	0	53,061	0.25	4,987	1,263	2,886	0	2,886	0	323,546	0	53,168
	Jun	54,758	0	54,648	0.38	5,426	2,069	5,772	0	5,772	0	370,354	0	54,758
	Jul	22,411	0	22,367	0.25	5,685	1,449	10,582	0	10,582	0	380,689	0	22,411
	Aug	5,139	0	5,129	0.29	5,712	1,647	7,696	0	7,696	0	376,474	0	5,139
	Sep	6,088	0	6,076	0.06	5,688	343	6,734	0	6,734	0	375,474	0	6,088
	Annual	203,394	0	202,987	1.06		5,931	96,200	0	96,200	0		0	203,394

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1986	Oct	9,054	0	9,036	-0.02	5,707	-121	3,848	0	3,848	0	380,783	0	9,054
	Nov	2,354	0	2,349	-0.06	5,705	-336	8,658	0	8,658	0	374,810	0	2,354
	Dec	1,355	0	1,352	0.02	5,647	108	8,658	0	8,658	0	367,397	0	1,355
	Jan	1,273	0	1,270	0.06	5,597	361	4,810	0	4,810	0	363,495	0	1,273
	Feb	1,202	0	1,200	-0.04	5,560	-244	5,772	0	5,772	0	359,167	0	1,202
	Mar	11,633	0	11,609	0.14	5,538	774	11,544	0	11,544	0	358,458	0	11,633
	Apr	28,386	0	28,329	0.01	5,575	78	19,240	0	19,240	0	367,469	0	28,386
	May	45,210	0	45,120	0.25	5,716	1,436	2,886	0	2,886	17,537	390,730	17,572	27,638
	Jun	51,815	0	51,712	0.21	5,816	1,230	5,772	0	5,772	44,710	390,730	44,800	7,016
	Jul	20,496	0	20,455	0.18	5,816	1,041	10,582	0	10,582	8,831	390,730	8,849	11,647
	Aug	3,687	0	3,680	0.15	5,795	883	7,696	0	7,696	0	385,831	0	3,687
	Sep	7,236	0	7,222	-0.03	5,777	-182	6,734	0	6,734	0	386,501	0	7,236
	Annual	183,701	0	183,333	0.88		5,029	96,200	0	96,200	71,078		71,221	112,480
1987	Oct	16,336	0	16,303	-0.05	5,798	-265	3,848	0	3,848	8,491	390,730	8,508	7,828
	Nov	11,570	0	11,546	-0.11	5,816	-655	8,658	0	8,658	3,543	390,730	3,550	8,019
	Dec	3,241	0	3,235	0.00	5,793	-21	8,658	0	8,658	0	385,328	0	3,241
	Jan	1,171	0	1,169	0.00	5,754	1	4,810	0	4,810	0	381,686	0	1,171
	Feb	848	0	846	-0.03	5,717	-149	5,772	0	5,772	0	376,909	0	848
	Mar	3,562	0	3,555	0.07	5,661	371	11,544	0	11,544	0	368,549	0	3,562
	Apr	26,487	0	26,434	0.18	5,651	1,013	19,240	0	19,240	0	374,729	0	26,487
	May	39,985	0	39,905	0.13	5,747	737	2,886	0	2,886	20,282	390,730	20,322	19,663
	Jun	45,648	0	45,557	0.32	5,816	1,832	5,772	0	5,772	37,953	390,730	38,029	7,619
	Jul	7,951	0	7,935	0.39	5,795	2,284	10,582	0	10,582	0	385,799	0	7,951
	Aug	2,256	0	2,252	0.20	5,746	1,134	7,696	0	7,696	0	379,220	0	2,256
	Sep	171	0	171	0.29	5,681	1,662	6,734	0	6,734	0	370,995	0	171
	Annual	159,225	0	158,907	1.38		7,943	96,200	0	96,200	70,269		70,409	88,816
1988	Oct	833	0	831	0.15	5,628	822	3,848	0	3,848	0	367,157	0	833
	Nov	2,493	0	2,488	-0.06	5,586	-343	8,658	0	8,658	0	361,330	0	2,493
	Dec	188	0	188	-0.06	5,523	-347	8,658	0	8,658	0	353,206	0	188
	Jan	0	0	0	-0.08	5,467	-453	4,810	0	4,810	0	348,850	0	0
	Feb	189	0	189	-0.03	5,423	-163	5,772	0	5,772	0	343,430	0	189
	Mar	2,855	0	2,850	0.18	5,353	956	11,544	0	11,544	0	333,780	0	2,855
	Apr	14,711	0	14,681	0.13	5,284	707	19,240	0	19,240	0	328,514	0	14,711
	May	22,037	0	21,993	0.30	5,341	1,617	2,886	0	2,886	0	346,004	0	22,037
	Jun	23,937	0	23,889	0.23	5,498	1,252	5,772	0	5,772	0	362,869	0	23,937
	Jul	4,647	0	4,638	0.33	5,538	1,815	10,582	0	10,582	0	355,110	0	4,647
	Aug	3,374	0	3,367	0.09	5,482	485	7,696	0	7,696	0	350,296	0	3,374
	Sep	1,398	0	1,395	0.17	5,432	943	6,734	0	6,734	0	344,014	0	1,398
	Annual	76,663	0	76,509	1.34		7,291	96,200	0	96,200	0		0	76,663
1989	Oct	145	0	145	0.19	5,382	1,016	3,848	0	3,848	0	339,295	0	145
	Nov	96	0	96	0.03	5,320	144	8,658	0	8,658	0	330,589	0	96
	Dec	0	0	0	0.03	5,237	180	8,658	0	8,658	0	321,751	0	0
	Jan	0	0	0	-0.05	5,174	-260	4,810	0	4,810	0	317,201	0	0
	Feb	373	0	372	-0.01	5,127	-76	5,772	0	5,772	0	311,877	0	373
	Mar	12,034	0	12,010	0.15	5,100	770	11,544	0	11,544	0	311,573	0	12,034
	Apr	25,700	0	25,649	0.33	5,121	1,715	19,240	0	19,240	0	316,267	0	25,700
	May	20,823	0	20,781	0.44	5,217	2,304	2,886	0	2,886	0	331,859	0	20,823
	Jun	11,328	0	11,305	0.47	5,305	2,506	5,772	0	5,772	0	334,886	0	11,328
	Jul	2,484	0	2,479	0.37	5,272	1,948	10,582	0	10,582	0	324,834	0	2,484
	Aug	2,593	0	2,588	0.22	5,195	1,142	7,696	0	7,696	0	318,584	0	2,593
	Sep	601	0	600	0.30	5,129	1,557	6,734	0	6,734	0	310,893	0	601
	Annual	76,178	0	76,025	2.48		12,946	96,200	0	96,200	0		0	76,178
1990	Oct	2,309	0	2,305	0.11	5,084	556	3,848	0	3,848	0	308,794	0	2,309
	Nov	5	0	5	0.12	5,033	622	8,658	0	8,658	0	299,519	0	5
	Dec	0	0	0	0.05	4,951	272	8,658	0	8,658	0	290,589	0	0
	Jan	0	0	0	0.00	4,888	8	4,810	0	4,810	0	285,771	0	0
	Feb	0	0	0	0.04	4,838	181	5,772	0	5,772	0	279,818	0	0
	Mar	855	0	853	0.10	4,757	473	11,544	0	11,544	0	268,654	0	855
	Apr	10,206	0	10,186	0.08	4,659	369	19,240	0	19,240	0	259,231	0	10,206
	May	25,157	0	25,106	0.29	4,713	1,369	2,886	0	2,886	0	280,082	0	25,157
	Jun	24,156	0	24,108	0.49	4,887	2,371	5,772	0	5,772	0	296,047	0	24,156
	Jul	4,260	0	4,251	0.17	4,927	849	10,582	0	10,582	0	288,866	0	4,260
	Aug	2,371	0	2,366	0.13	4,866	621	7,696	0	7,696	0	282,915	0	2,371
	Sep	4,708	0	4,698	0.11	4,827	530	6,734	0	6,734	0	280,349	0	4,708
	Annual	74,027	0	73,879	1.69		8,223	96,200	0	96,200	0		0	74,027

Table G-3. Heron Reservoir Monthly Operations Study · 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1991	Oct	6,510	0	6,497	0.03	4,827	124	3,848	0	3,848	0	282,875	0	6,510
	Nov	3,250	0	3,244	0.01	4,814	44	8,658	0	8,658	0	277,417	0	3,250
	Dec	574	0	573	-0.18	4,754	-856	8,658	0	8,658	0	270,188	0	574
	Jan	285	0	285	-0.02	4,699	-83	4,810	0	4,810	0	265,746	0	285
	Feb	814	0	812	0.09	4,651	408	5,772	0	5,772	0	260,378	0	814
	Mar	2,156	0	2,152	0.04	4,574	181	11,544	0	11,544	0	250,805	0	2,156
	Apr	28,726	0	28,668	0.26	4,567	1,196	19,240	0	19,240	0	259,037	0	28,726
	May	44,452	0	44,363	0.34	4,798	1,622	2,886	0	2,886	0	298,892	0	44,452
	Jun	36,351	0	36,278	0.31	5,119	1,576	5,772	0	5,772	0	327,822	0	36,351
	Jul	6,632	0	6,619	0.30	5,227	1,573	10,582	0	10,582	0	322,286	0	6,632
	Aug	5,263	0	5,252	0.26	5,183	1,332	7,696	0	7,696	0	318,510	0	5,263
	Sep	3,832	0	3,825	0.13	5,147	672	6,734	0	6,734	0	314,928	0	3,832
	Annual	138,846	0	138,568	1.56		7,789	96,200	0	96,200	0		0	138,846
1992	Oct	243	0	242	0.13	5,110	670	3,848	0	3,848	0	310,653	0	243
	Nov	1,513	0	1,510	-0.09	5,061	-456	8,658	0	8,658	0	303,961	0	1,513
	Dec	712	0	710	-0.07	4,997	-368	8,658	0	8,658	0	296,381	0	712
	Jan	0	0	0	0.01	4,941	56	4,810	0	4,810	0	291,514	0	0
	Feb	60	0	60	0.03	4,892	158	5,772	0	5,772	0	285,644	0	60
	Mar	2,021	0	2,017	-0.01	4,820	-44	11,544	0	11,544	0	276,162	0	2,021
	Apr	27,985	0	27,929	0.23	4,812	1,089	19,240	0	19,240	0	283,762	0	27,985
	May	47,309	0	47,214	0.06	5,050	283	2,886	0	2,886	0	327,807	0	47,309
	Jun	33,649	0	33,582	0.37	5,372	1,996	5,772	0	5,772	0	353,621	0	33,649
	Jul	8,493	0	8,476	0.23	5,476	1,282	10,582	0	10,582	0	350,233	0	8,493
	Aug	6,724	0	6,711	0.11	5,453	585	7,696	0	7,696	0	348,663	0	6,724
	Sep	955	0	953	0.25	5,413	1,351	6,734	0	6,734	0	341,531	0	955
	Annual	129,664	0	129,405	1.25		6,601	96,200	0	96,200	0		0	129,664
1993	Oct	130	0	130	0.17	5,360	933	3,848	0	3,848	0	336,881	0	130
	Nov	346	0	346	-0.03	5,300	-157	8,658	0	8,658	0	328,725	0	346
	Dec	0	0	0	-0.14	5,224	-720	8,658	0	8,658	0	320,787	0	0
	Jan	8	0	8	-0.12	5,167	-640	4,810	0	4,810	0	316,625	0	8
	Feb	0	0	0	-0.09	5,122	-449	5,772	0	5,772	0	311,302	0	0
	Mar	5,537	0	5,526	0.12	5,067	617	11,544	0	11,544	0	304,667	0	5,537
	Apr	22,296	0	22,251	0.23	5,045	1,165	19,240	0	19,240	0	306,513	0	22,296
	May	46,985	0	46,892	0.15	5,255	802	2,886	0	2,886	0	349,717	0	46,985
	Jun	52,744	0	52,639	0.41	5,636	2,295	5,772	0	5,772	3,558	390,730	3,566	49,179
	Jul	17,062	0	17,028	0.54	5,816	3,159	10,582	0	10,582	3,287	390,730	3,294	13,768
	Aug	8,711	0	8,693	0.08	5,816	493	7,696	0	7,696	504	390,730	505	8,206
	Sep	4,614	0	4,604	0.21	5,802	1,231	6,734	0	6,734	0	387,370	0	4,614
	Annual	158,433	0	158,116	1.55		8,729	96,200	0	96,200	7,349		7,364	151,069
1994	Oct	2,269	0	2,264	0.03	5,779	196	3,848	0	3,848	0	385,590	0	2,269
	Nov	446	0	445	-0.05	5,737	-270	8,658	0	8,658	0	377,648	0	446
	Dec	0	0	0	0.03	5,664	157	8,658	0	8,658	0	368,833	0	0
	Jan	12	0	12	0.03	5,604	192	4,810	0	4,810	0	363,843	0	12
	Feb	0	0	0	-0.10	5,559	-571	5,772	0	5,772	0	358,641	0	0
	Mar	5,374	0	5,363	0.09	5,506	480	11,544	0	11,544	0	351,980	0	5,374
	Apr	23,789	0	23,741	0.03	5,496	168	19,240	0	19,240	0	356,314	0	23,789
	May	48,046	0	47,950	0.12	5,666	668	2,886	0	2,886	9,980	390,730	10,000	38,046
	Jun	44,688	0	44,598	0.39	5,816	2,239	5,772	0	5,772	36,587	390,730	36,660	8,027
	Jul	3,264	0	3,258	0.39	5,775	2,243	10,582	0	10,582	0	381,163	0	3,264
	Aug	841	0	839	0.22	5,699	1,266	7,696	0	7,696	0	373,041	0	841
	Sep	3,045	0	3,039	0.06	5,645	363	6,734	0	6,734	0	368,982	0	3,045
	Annual	131,774	0	131,511	1.24		7,130	96,200	0	96,200	46,567		46,661	85,113
1995	Oct	1,646	0	1,643	0.05	5,617	266	3,848	0	3,848	0	366,511	0	1,646
	Nov	1,288	0	1,285	-0.11	5,576	-627	8,658	0	8,658	0	359,765	0	1,288
	Dec	753	0	752	0.03	5,509	151	8,658	0	8,658	0	351,707	0	753
	Jan	466	0	465	-0.10	5,456	-544	4,810	0	4,810	0	347,906	0	466
	Feb	1,946	0	1,942	0.06	5,420	301	5,772	0	5,772	0	343,775	0	1,946
	Mar	9,553	0	9,534	-0.04	5,393	-223	11,544	0	11,544	0	341,988	0	9,553
	Apr	15,685	0	15,654	0.07	5,367	353	19,240	0	19,240	0	338,049	0	15,685
	May	36,096	0	36,024	0.16	5,494	875	2,886	0	2,886	0	370,311	0	36,096
	Jun	55,616	0	55,505	0.37	5,728	2,116	5,772	0	5,772	27,198	390,730	27,252	28,364
	Jul	39,138	0	39,060	0.40	5,816	2,338	10,582	0	10,582	26,140	390,730	26,192	12,946
	Aug	9,233	0	9,214	0.20	5,816	1,163	7,696	0	7,696	355	390,730	356	8,877
	Sep	1,964	0	1,960	0.12	5,793	719	6,734	0	6,734	0	385,237	0	1,964
	Annual	173,384	0	173,037	1.20		6,890	96,200	0	96,200	53,692		53,800	119,584

Table G-3. Heron Reservoir Monthly Operations Study - 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
1996	Oct	902	0	900	0.20	5,751	1,171	3,848	0	3,848	0	381,118	0	902
	Nov	341	0	340	0.07	5,695	427	8,658	0	8,658	0	372,373	0	341
	Dec	0	0	0	0.04	5,619	245	8,658	0	8,658	0	363,470	0	0
	Jan	0	0	0	-0.02	5,558	-115	4,810	0	4,810	0	358,775	0	0
	Feb	604	0	603	0.00	5,514	28	5,772	0	5,772	0	353,579	0	604
	Mar	2,069	0	2,065	0.10	5,445	521	11,544	0	11,544	0	343,578	0	2,069
	Apr	16,633	0	16,600	0.28	5,381	1,520	19,240	0	19,240	0	339,418	0	16,633
	May	30,764	0	30,703	0.49	5,475	2,698	2,886	0	2,886	0	364,536	0	30,764
	Jun	6,469	0	6,456	0.35	5,583	1,981	5,772	0	5,772	0	363,239	0	6,469
	Jul	2,690	0	2,685	0.25	5,536	1,387	10,582	0	10,582	0	353,955	0	2,690
	Aug	100	0	100	0.21	5,454	1,156	7,696	0	7,696	0	345,203	0	100
	Sep	538	0	537	0.17	5,382	937	6,734	0	6,734	0	338,069	0	538
	Annual	61,110	0	60,988	2.17		11,956	96,200	0	96,200	0		0	61,110
1997	Oct	280	0	280	0.08	5,330	432	3,848	0	3,848	0	334,069	0	280
	Nov	989	0	987	-0.09	5,278	-476	8,658	0	8,658	0	326,874	0	989
	Dec	32	0	32	-0.01	5,203	-52	8,658	0	8,658	0	318,299	0	32
	Jan	411	0	410	-0.18	5,145	-936	4,810	0	4,810	0	314,835	0	411
	Feb	208	0	208	0.00	5,103	13	5,772	0	5,772	0	309,258	0	208
	Mar	9,769	0	9,750	0.18	5,066	923	11,544	0	11,544	0	306,540	0	9,769
	Apr	14,178	0	14,150	0.09	5,030	439	19,240	0	19,240	0	301,011	0	14,178
	May	44,667	0	44,578	0.17	5,194	896	2,886	0	2,886	0	341,807	0	44,667
	Jun	48,431	0	48,334	0.35	5,564	1,934	5,772	0	5,772	0	382,435	0	48,431
	Jul	11,906	0	11,882	0.26	5,744	1,505	10,582	0	10,582	0	382,230	0	11,906
	Aug	9,170	0	9,152	0.18	5,745	1,031	7,696	0	7,696	0	382,656	0	9,170
	Sep	6,857	0	6,843	0.12	5,744	714	6,734	0	6,734	0	382,051	0	6,857
	Annual	146,898	0	146,604	1.16		6,422	96,200	0	96,200	0		0	146,898
1998	Oct	5,183	0	5,173	0.08	5,745	479	3,848	0	3,848	0	382,897	0	5,183
	Nov	1,744	0	1,741	0.01	5,719	58	8,658	0	8,658	0	375,922	0	1,744
	Dec	723	0	722	-0.06	5,655	-318	8,658	0	8,658	0	368,304	0	723
	Jan	588	0	587	0.01	5,603	30	4,810	0	4,810	0	364,051	0	588
	Feb	12	0	12	-0.02	5,559	-123	5,772	0	5,772	0	358,414	0	12
	Mar	4,604	0	4,595	0.07	5,501	386	11,544	0	11,544	0	351,079	0	4,604
	Apr	12,800	0	12,774	0.16	5,435	879	19,240	0	19,240	0	343,734	0	12,800
	May	42,288	0	42,203	0.36	5,567	2,006	2,886	0	2,886	0	381,045	0	42,288
	Jun	29,231	0	29,173	0.52	5,775	3,011	5,772	0	5,772	10,704	390,730	10,726	18,505
	Jul	8,925	0	8,908	0.25	5,803	1,450	10,582	0	10,582	0	387,606	0	8,925
	Aug	2,096	0	2,091	0.18	5,761	1,057	7,696	0	7,696	0	380,944	0	2,096
	Sep	366	0	366	0.25	5,699	1,415	6,734	0	6,734	0	373,161	0	366
	Annual	108,561	0	108,344	1.82		10,329	96,200	0	96,200	10,704		10,726	97,835
1999	Oct	3,569	0	3,562	-0.04	5,665	-229	3,848	0	3,848	0	373,105	0	3,569
	Nov	3,090	0	3,083	-0.04	5,641	-214	8,658	0	8,658	0	367,744	0	3,090
	Dec	982	0	980	0.05	5,581	287	8,658	0	8,658	0	359,778	0	982
	Jan	357	0	356	0.04	5,525	208	4,810	0	4,810	0	355,116	0	357
	Feb	424	0	424	0.09	5,478	492	5,772	0	5,772	0	349,276	0	424
	Mar	4,723	0	4,713	0.19	5,416	1,008	11,544	0	11,544	0	341,438	0	4,723
	Apr	13,031	0	13,005	0.06	5,349	346	19,240	0	19,240	0	334,856	0	13,031
	May	33,264	0	33,198	0.29	5,449	1,604	2,886	0	2,886	0	363,565	0	33,264
	Jun	39,772	0	39,692	0.43	5,698	2,441	5,772	0	5,772	4,314	390,730	4,322	35,449
	Jul	12,734	0	12,709	0.22	5,816	1,287	10,582	0	10,582	840	390,730	841	11,893
	Aug	13,250	0	13,224	0.09	5,816	504	7,696	0	7,696	5,024	390,730	5,034	8,216
	Sep	4,298	0	4,289	0.14	5,802	787	6,734	0	6,734	0	387,498	0	4,298
	Annual	129,493	0	129,234	1.52		8,520	96,200	0	96,200	10,177		10,197	119,295
2000	Oct	677	0	675	0.25	5,769	1,444	3,848	0	3,848	0	382,882	0	677
	Nov	23	0	23	0.13	5,709	743	8,658	0	8,658	0	373,504	0	23
	Dec	0	0	0	0.06	5,628	358	8,658	0	8,658	0	364,488	0	0
	Jan	0	0	0	-0.04	5,568	-198	4,810	0	4,810	0	359,876	0	0
	Feb	0	0	0	0.08	5,519	449	5,772	0	5,772	0	353,655	0	0
	Mar	796	0	794	0.03	5,442	136	11,544	0	11,544	0	342,769	0	796
	Apr	16,061	0	16,029	0.32	5,370	1,708	19,240	0	19,240	0	337,851	0	16,061
	May	21,265	0	21,222	0.48	5,419	2,616	2,886	0	2,886	0	353,571	0	21,265
	Jun	5,253	0	5,243	0.49	5,476	2,678	5,772	0	5,772	0	350,363	0	5,253
	Jul	103	0	102	0.49	5,401	2,634	10,582	0	10,582	0	337,250	0	103
	Aug	257	0	256	0.42	5,296	2,221	7,696	0	7,696	0	327,589	0	257
	Sep	0	0	0	0.42	5,208	2,181	6,734	0	6,734	0	318,674	0	0
	Annual	44,435	0	44,346	3.13		16,970	96,200	0	96,200	0		0	44,435

Table G-3. Heron Reservoir Monthly Operations Study · 2070 Reservoir Conditions

Water Year	Mon	SJCP Adjusted Potential Diversions (af)	Reduction in SJCP Diversions for 1-yr or 10-yr limits (af)	Heron Reservoir Inflow (af)	Heron Reservoir Net Evap Rate (feet)	Mean Reservoir Surface Area (acres)	Heron Reservoir Evap Loss (af)	SJCP Demand at Heron Dam (af)	Shortage to Demand (af)	SJCP Release from Heron Reservoir (af)	Reduction in SJCP Inflows to Avoid Spill (af)	EOM Reservoir Contents (af)	Reduction in SJCP Diversions to Avoid Spill (af)	SJCP Estimated Diversion (af)
2001	Oct	925	0	923	0.00	5,152	8	3,848	0	3,848	0	315,741	0	925
	Nov	246	0	246	-0.03	5,100	146	8,658	0	8,658	0	307,475	0	246
	Dec	0	0	0	0.03	5,023	169	8,658	0	8,658	0	298,649	0	0
	Jan	0	0	0	-0.07	4,963	-365	4,810	0	4,810	0	294,204	0	0
	Feb	0	0	0	0.03	4,916	152	5,772	0	5,772	0	288,279	0	0
	Mar	1,673	0	1,670	0.04	4,842	205	11,544	0	11,544	0	278,200	0	1,673
	Apr	19,625	0	19,585	0.20	4,793	954	19,240	0	19,240	0	277,591	0	19,625
	May	51,373	0	51,271	0.32	5,005	1,624	2,886	0	2,886	0	324,352	0	51,373
	Jun	29,570	0	29,511	0.55	5,317	2,912	5,772	0	5,772	0	345,179	0	29,570
	Jul	4,789	0	4,780	0.29	5,380	1,568	10,582	0	10,582	0	337,808	0	4,789
	Aug	4,982	0	4,972	0.25	5,328	1,319	7,696	0	7,696	0	333,765	0	4,982
	Sep	313	0	312	0.40	5,269	2,094	6,734	0	6,734	0	325,249	0	313
	Annual	113,496	0	113,269	2.01		10,494	96,200	0	96,200	0		0	113,496
2002	Oct	66	0	66	0.23	5,206	1,174	3,848	0	3,848	0	320,293	0	66
	Nov	25	0	25	0.02	5,140	101	8,658	0	8,658	0	311,558	0	25
	Dec	0	0	0	-0.01	5,060	-65	8,658	0	8,658	0	302,966	0	0
	Jan	0	0	0	0.03	5,000	131	4,810	0	4,810	0	298,025	0	0
	Feb	0	0	0	0.08	4,949	399	5,772	0	5,772	0	291,854	0	0
	Mar	897	0	896	0.16	4,869	777	11,544	0	11,544	0	280,428	0	897
	Apr	4,885	0	4,875	0.34	4,740	1,630	19,240	0	19,240	0	264,434	0	4,885
	May	932	0	930	0.57	4,641	2,659	2,886	0	2,886	0	259,819	0	932
	Jun	171	0	170	0.66	4,573	3,000	5,772	0	5,772	0	251,217	0	171
	Jul	0	0	0	0.42	4,461	1,854	10,582	0	10,582	0	238,782	0	0
	Aug	0	0	0	0.42	4,342	1,838	7,696	0	7,696	0	229,247	0	0
	Sep	200	0	200	0.05	4,252	201	6,734	0	6,734	0	222,512	0	200
	Annual	7,176	0	7,162	2.96		13,699	96,200	0	96,200	0		0	7,176
2003	Oct	189	0	189	0.06	4,192	263	3,848	0	3,848	0	218,590	0	189
	Nov	175	0	175	0.02	4,120	67	8,658	0	8,658	0	210,040	0	175
	Dec	0	0	0	-0.01	4,019	-60	8,658	0	8,658	0	201,442	0	0
	Jan	0	0	0	0.09	3,937	360	4,810	0	4,810	0	196,272	0	0
	Feb	0	0	0	-0.05	3,871	-210	5,772	0	5,772	0	190,709	0	0
	Mar	1,429	0	1,426	0.15	3,768	552	11,544	0	11,544	0	180,039	0	1,429
	Apr	11,657	0	11,634	0.28	3,639	1,006	19,240	0	19,240	0	171,428	0	11,657
	May	26,743	0	26,690	0.39	3,726	1,452	2,886	0	2,886	0	193,779	0	26,743
	Jun	18,996	0	18,958	0.56	3,942	2,222	5,772	0	5,772	0	204,743	0	18,996
	Jul	796	0	795	0.56	3,935	2,191	10,582	0	10,582	0	192,765	0	796
	Aug	667	0	666	0.23	3,813	883	7,696	0	7,696	0	184,852	0	667
	Sep	3,782	0	3,774	0.15	3,741	574	6,734	0	6,734	0	181,319	0	3,782
	Annual	64,435	0	64,306	2.42		9,300	96,200	0	96,200	0		0	64,435
2004	Oct	468	0	467	0.17	3,690	624	3,848	0	3,848	0	177,313	0	468
	Nov	646	0	645	-0.02	3,605	-71	8,658	0	8,658	0	169,371	0	646
	Dec	177	0	176	0.04	3,484	129	8,658	0	8,658	0	160,760	0	177
	Jan	0	0	0	0.00	3,383	2	4,810	0	4,810	0	155,948	0	0
	Feb	0	0	0	-0.05	3,302	-152	5,772	0	5,772	0	150,328	0	0
	Mar	11,506	0	11,483	0.24	3,252	779	11,544	0	11,544	0	149,488	0	11,506
	Apr	15,557	0	15,526	0.12	3,212	400	19,240	0	19,240	0	145,374	0	15,557
	May	30,242	0	30,182	0.52	3,375	1,766	2,886	0	2,886	0	170,904	0	30,242
	Jun	20,482	0	20,441	0.56	3,658	2,054	5,772	0	5,772	0	183,519	0	20,482
	Jul	2,240	0	2,236	0.46	3,677	1,677	10,582	0	10,582	0	173,496	0	2,240
	Aug	265	0	264	0.46	3,541	1,632	7,696	0	7,696	0	164,431	0	265
	Sep	4,364	0	4,356	0.28	3,450	953	6,734	0	6,734	0	161,099	0	4,364
	Annual	85,947	0	85,775	2.78		9,795	96,200	0	96,200	0		0	85,947
2005	Oct	2,985	0	2,979	0.09	3,416	320	3,848	0	3,848	0	159,910	0	2,985
	Nov	1,774	0	1,770	0.09	3,351	296	8,658	0	8,658	0	152,727	0	1,774
	Dec	295	0	295	0.02	3,229	73	8,658	0	8,658	0	144,290	0	295
	Jan	477	0	476	-0.11	3,132	-355	4,810	0	4,810	0	140,312	0	477
	Feb	508	0	507	-0.11	3,063	-340	5,772	0	5,772	0	135,387	0	508
	Mar	2,099	0	2,094	0.11	2,945	311	11,544	0	11,544	0	125,626	0	2,099
	Apr	31,720	0	31,657	0.16	2,962	471	19,240	0	19,240	0	137,572	0	31,720
	May	46,428	0	46,335	0.34	3,378	1,139	2,886	0	2,886	0	179,882	0	46,428
	Jun	50,208	0	50,108	0.49	3,955	1,923	5,772	0	5,772	0	222,295	0	50,208
	Jul	13,347	0	13,320	0.60	4,213	2,528	10,582	0	10,582	0	222,505	0	13,347
	Aug	4,439	0	4,430	0.36	4,187	1,491	7,696	0	7,696	0	217,748	0	4,439
	Sep	4,030	0	4,022	0.28	4,138	1,160	6,734	0	6,734	0	213,876	0	4,030
	Annual	158,309	0	157,992	2.30		9,016	96,200	0	96,200	0		0	158,309