

Appendix L

Results from Monthly Flow and Power Generation Model

Appendix L
**Results from Monthly Flow and
Power Generation Model**

This appendix presents the results of monthly flow and diversion calculations for each alternative. The assumptions and an example calculation is presented in Appendix K, “Development and Assumptions of the Battle Creek Hydrology and Hydroelectric Power Model”.

Table L-1. Calculated Battle Creek Flows for Alternative: No Action (FERC Flows) (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below Keswick Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	3	3	3	3	3	3	3	3	3	3	3	3
50%	7	20	29	13	11	3	3	3	3	3	3	3
70%	71	67	64	41	44	3	3	3	3	3	3	8
90%	143	118	169	106	68	43	3	3	3	3	49	111
Below North Battle Creek Feeder Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	15	39	47	27	6	3	3	3	3	3	3	3
50%	65	86	102	75	71	17	3	3	3	3	3	22
70%	171	164	160	121	127	44	4	3	3	3	13	67
90%	292	249	334	229	167	125	13	3	3	3	135	237
Below Eagle Canyon Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	9	42	53	25	3	3	3	3	3	3	3	3
50%	79	108	129	92	87	10	3	3	3	3	3	18
70%	227	218	211	157	165	49	3	3	3	3	5	81
90%	396	336	455	309	221	162	5	3	3	3	176	319
Below Wildcat Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	4	37	49	20	3	3	3	3	3	3	3	3
50%	75	104	126	89	84	6	3	3	3	3	3	13
70%	225	216	209	154	162	44	3	3	3	3	3	77
90%	397	336	457	308	219	159	3	3	3	3	173	319
Above South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below South Diversion Dam												
10%	5	5	5	5	5	5	5	5	5	5	5	5
30%	9	21	25	15	5	5	5	5	5	5	5	5
50%	35	45	53	39	38	10	5	5	5	5	5	13
70%	88	85	82	63	66	24	5	5	5	5	8	35
90%	149	127	170	118	86	65	8	5	5	5	70	121
Below Inskip Diversion Dam												
10%	5	5	5	5	5	5	5	5	5	5	5	5
30%	54	72	78	63	25	5	5	5	5	5	5	5
50%	92	108	120	99	97	55	5	5	5	5	9	59
70%	173	168	164	134	139	76	19	5	5	5	52	93
90%	265	232	297	217	169	137	52	5	5	21	145	223
Below Coleman Diversion Dam												
10%	5	5	5	5	5	5	5	5	5	5	5	5
30%	5	21	28	11	5	5	5	5	5	5	5	5
50%	44	62	76	52	49	5	5	5	5	5	5	6
70%	137	131	127	93	98	25	5	5	5	5	5	45
90%	233	200	265	185	133	96	5	5	5	5	105	191
Below Confluence of North Fork and South Fork Battle Creek												
10%	8	8	8	8	8	8	8	8	8	8	8	8
30%	9	58	77	31	8	8	8	8	8	8	8	8
50%	119	167	202	141	133	11	8	8	8	8	8	19
70%	362	346	336	247	260	70	8	8	8	8	8	122
90%	638	540	735	496	352	255	8	8	8	8	278	513
Below Coleman National Fish Hatchery												
10%	345	340	345	343	331	292	220	191	203	205	255	259
30%	445	508	529	476	396	317	250	229	231	250	295	344
50%	579	635	676	605	595	448	305	248	252	296	366	462
70%	864	845	833	729	744	521	384	291	279	327	438	583
90%	1187	1072	1301	1020	851	739	438	325	322	391	765	1041

Table L-2. Calculated Battle Creek Diversions for Alternative: No action (FERC Flows) (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta 2 Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	109	91	73	58	54	54	58	68	80
50%	128	128	128	128	128	103	71	58	59	69	84	106
70%	128	128	128	128	128	119	89	68	65	76	100	128
90%	128	128	128	128	128	128	100	75	75	90	128	128
North Battle Creek Feeder Diversion												
10%	46	45	46	45	44	38	27	23	25	21	32	33
30%	48	34	29	41	50	41	32	28	29	27	38	46
50%	22	22	22	22	22	47	40	31	32	34	49	44
70%	22	22	22	22	22	31	50	38	36	39	50	22
90%	22	22	22	22	22	22	50	43	42	48	22	22
Eagle Canyon Diversion												
10%	43	42	42	42	40	35	24	20	21	26	29	30
30%	64	64	64	64	53	38	28	25	26	33	35	42
50%	64	64	64	64	64	64	37	28	29	39	46	64
70%	64	64	64	64	64	64	50	34	33	44	64	64
90%	64	64	64	64	64	64	64	40	39	54	64	64
Wildcat Diversion												
10%	12	12	12	12	12	12	11	11	11	11	12	12
30%	18	18	18	18	13	12	11	11	11	11	12	12
50%	18	18	18	18	18	18	12	11	11	12	12	18
70%	18	18	18	18	18	18	13	12	12	12	15	18
90%	18	18	18	18	18	18	15	12	12	13	18	18
South Canal Diversion												
10%	48	47	48	47	45	38	24	19	21	21	31	31
30%	62	62	62	62	57	42	30	26	26	30	38	48
50%	62	62	62	62	62	62	40	29	30	38	52	62
70%	62	62	62	62	62	62	55	37	35	44	62	62
90%	62	62	62	62	62	62	62	44	43	56	62	62
South Connector												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Inskip Diversion												
10%	210	207	210	209	201	175	128	109	117	114	151	153
30%	214	214	214	214	220	191	147	134	135	143	177	209
50%	214	214	214	214	214	214	184	146	149	174	220	214
70%	214	214	214	214	214	214	220	174	166	194	214	214
90%	214	214	214	214	214	214	214	197	195	220	214	214
Inskip Connector												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Coleman Diversion												
10%	253	249	253	251	241	210	152	129	139	140	180	183
30%	328	330	329	331	294	230	176	159	161	176	212	252
50%	327	325	323	326	326	329	221	175	178	213	270	332
70%	316	317	317	321	321	329	285	209	199	238	326	327
90%	312	312	312	312	316	321	326	237	234	290	320	312
South Powerhouse Flow												
10%	183	180	183	182	175	153	113	97	104	100	132	135
30%	222	222	222	222	208	167	130	118	119	125	155	183
50%	222	222	222	222	222	222	161	129	131	151	195	222
70%	222	222	222	222	222	222	204	153	146	169	222	222
90%	222	222	222	222	222	222	222	172	170	204	222	222

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inskip Powerhouse Flow												
10%	258	253	257	256	246	215	157	134	143	144	185	188
30%	283	283	283	283	278	235	181	164	166	181	217	257
50%	283	283	283	283	283	283	225	179	183	218	271	283
70%	283	283	283	283	283	283	275	214	204	243	283	283
90%	283	283	283	283	283	283	283	241	239	279	283	283
Coleman Powerhouse Flow												
10%	291	287	291	289	279	246	185	160	170	171	214	217
30%	375	380	380	380	335	267	210	192	194	210	248	291
50%	380	380	380	380	380	376	257	208	212	249	309	380
70%	380	380	380	380	380	380	325	245	234	275	370	380
90%	380	380	380	380	380	380	370	274	271	330	380	380

Table L-3. Calculated Battle Creek Hydro Power Production for Alternative: No Action (FERC Flows) (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta Powerhouse (MWh)												
10%	5441	4841	5430	5232	5220	4477	3531	3087	3168	3294	3926	4116
30%	6958	7159	8255	7199	6214	4847	3982	3665	3581	3982	4519	5426
50%	8730	7885	8730	8448	8730	6783	4829	3954	3892	4690	5575	7224
70%	8730	7885	8730	8448	8730	7868	6038	4609	4278	5156	6630	8730
90%	8730	7885	8730	8448	8730	8448	6852	5128	4918	6138	8448	8730
South Powerhouse (MWh)												
10%	4145	3682	4135	3983	3961	3357	2560	2192	2270	2269	2899	3045
30%	5024	4538	5024	4862	4714	3663	2934	2671	2613	2839	3391	4132
50%	5024	4538	5024	4862	5024	4862	3637	2911	2871	3427	4267	5024
70%	5024	4538	5024	4862	5024	4862	4607	3454	3192	3813	4862	5024
90%	5024	4538	5024	4862	5024	4862	5024	3885	3722	4628	4862	5024
Inskip Powerhouse (MWh)												
10%	4728	4199	4717	4543	4514	3813	2881	2452	2547	2652	3280	3447
30%	5194	4691	5194	5026	5107	4171	3317	3011	2946	3317	3853	4713
50%	5194	4691	5194	5026	5194	5026	4136	3290	3247	4001	4808	5194
70%	5194	4691	5194	5026	5194	5026	5044	3924	3621	4452	5026	5194
90%	5194	4691	5194	5026	5194	5026	5194	4425	4239	5112	5026	5194
Coleman Powerhouse (MWh)												
10%	7226	6424	7210	6946	6918	5900	4578	3962	4084	4249	5135	5389
30%	9309	8512	9424	9120	8296	6412	5203	4764	4657	5202	5957	7205
50%	9424	8512	9424	9120	9424	9035	6377	5164	5088	6184	7421	9424
70%	9424	8512	9424	9120	9424	9120	8053	6073	5624	6830	8883	9424
90%	9424	8512	9424	9120	9424	9120	9182	6791	6510	8191	9120	9424
System Total Annual (MWh)												
10%	20,2052											
30%	24,6792											
50%	28,0533											
70%	29,7611											
90%	31,1415											

Table L-4. Calculated Battle Creek Flows for Alternative: Five Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below Keswick Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	3	3	3	3	3	3	3	3	3	3	3	3
50%	7	20	29	13	11	3	3	3	3	3	3	3
70%	71	67	64	41	44	3	3	3	3	3	3	8
90%	143	118	169	106	68	43	3	3	3	3	49	111
Below North Battle Creek Feeder Diversion Dam												
10%	49	48	49	48	47	41	30	26	28	24	35	36
30%	63	73	76	67	47	44	35	31	32	30	41	49
50%	87	88	102	75	71	47	43	34	35	37	47	66
70%	171	164	160	121	127	47	47	41	39	42	47	88
90%	292	249	334	229	167	125	47	46	45	47	135	237
Below Eagle Canyon Diversion Dam												
10%	46	46	46	46	35	35	35	35	35	35	35	46
30%	57	76	82	65	35	35	35	35	35	35	35	46
50%	101	110	129	92	87	41	35	35	35	35	35	62
70%	227	218	211	157	165	52	35	35	35	35	39	102
90%	396	336	455	309	221	162	39	35	35	37	176	319
Below Wildcat Diversion Dam												
10%	58	58	58	58	47	47	46	46	46	46	47	58
30%	70	89	96	78	48	47	46	46	46	46	47	58
50%	115	124	144	107	102	54	47	46	46	47	47	75
70%	243	234	227	172	180	65	48	47	47	47	52	116
90%	415	354	475	326	237	177	52	47	47	49	191	337
Above South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183
Below Inskip Diversion Dam												
10%	86	86	86	61	40	40	40	40	40	40	40	65
30%	86	86	86	61	40	40	40	40	40	40	40	86
50%	86	101	115	94	92	40	40	40	40	40	40	86
70%	168	163	159	129	134	68	40	40	40	40	40	86
90%	260	227	292	212	164	132	40	40	40	40	140	218
Below Coleman Diversion Dam												
10%	92	92	92	67	46	45	45	45	45	45	45	70
30%	92	92	92	67	46	46	45	45	45	45	45	92
50%	92	107	121	100	98	46	45	45	45	45	46	92
70%	174	169	166	136	140	73	46	45	45	46	46	92
90%	267	234	299	219	171	139	46	46	46	46	146	225
Below Confluence of North Fork and South Fork Battle Creek												
10%	155	155	155	130	98	97	97	96	96	96	97	133
30%	167	186	193	150	98	98	97	97	97	97	97	155
50%	212	236	270	212	204	105	97	97	97	97	98	172
70%	423	408	398	313	325	144	98	97	97	98	103	213
90%	690	593	787	550	413	321	103	98	98	100	343	567
Below Coleman National Fish Hatchery												
10%	345	340	345	343	331	292	220	191	203	205	255	259
30%	445	508	529	476	396	317	250	229	231	250	295	344
50%	579	635	676	605	595	448	305	248	252	296	366	462
70%	864	845	833	729	744	521	384	291	279	327	438	583
90%	1187	1072	1301	1020	851	739	438	325	322	391	765	1041

Table L-5. Calculated Battle Creek Diversions for Alternative: Five Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta 2 Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	109	91	73	58	54	54	58	68	80
50%	128	128	128	128	128	103	71	58	59	69	84	106
70%	128	128	128	128	128	119	89	68	65	76	100	128
90%	128	128	128	128	128	128	100	75	75	90	128	128
North Battle Creek Feeder Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	1	9	0	0	0	0	0	0	0
50%	0	20	22	22	22	17	0	0	0	0	5	0
70%	22	22	22	22	22	28	7	0	0	0	15	1
90%	22	22	22	22	22	22	15	0	0	4	22	22
Eagle Canyon Diversion												
10%	45	44	45	45	52	40	19	10	14	15	29	19
30%	64	64	64	64	62	48	28	22	22	28	41	45
50%	64	64	64	64	64	64	44	27	29	42	58	64
70%	64	64	64	64	64	64	60	40	36	51	64	64
90%	64	64	64	64	64	64	64	50	49	64	64	64
Wildcat Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
South Canal Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
South Connector												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	110	100	73	58	54	54	58	68	80
50%	128	148	150	150	150	120	71	58	59	69	89	106
70%	150	150	150	150	150	147	96	68	65	76	116	129
90%	150	150	150	150	150	150	116	75	75	94	150	150
Inskip Diversion												
10%	4	2	3	28	45	34	14	6	9	10	24	0
30%	32	50	56	66	64	42	22	17	17	22	35	3
50%	70	71	69	69	69	79	38	22	23	36	56	37
70%	69	69	69	69	69	72	61	34	31	44	76	71
90%	69	69	69	69	69	69	76	44	43	63	69	69
Inskip Connector												
10%	129	124	128	152	174	143	85	62	71	72	113	80
30%	198	230	241	240	226	163	109	92	94	109	145	128
50%	262	283	283	283	283	262	153	107	111	146	202	207
70%	283	283	283	283	283	283	217	142	132	171	256	264
90%	283	283	283	283	283	283	256	169	167	221	283	283
Coleman Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
South Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	110	100	73	58	54	54	58	68	80
50%	128	148	150	150	150	120	71	58	59	69	89	106
70%	150	150	150	150	150	147	96	68	65	76	116	129
90%	150	150	150	150	150	150	116	75	75	94	150	150

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inskip Powerhouse Flow												
10%	129	124	128	152	174	143	85	62	71	72	113	80
30%	198	230	241	240	226	163	109	92	94	109	145	128
50%	262	283	283	283	283	262	153	107	111	146	202	207
70%	283	283	283	283	283	283	217	142	132	171	256	264
90%	283	283	283	283	283	283	256	169	167	221	283	283
Coleman Powerhouse Flow												
10%	150	145	149	173	194	162	101	77	87	88	130	97
30%	223	257	269	266	249	183	126	108	110	126	164	149
50%	292	315	317	314	314	287	173	124	128	165	224	232
70%	324	323	323	319	319	311	240	161	150	191	280	294
90%	333	332	333	330	324	319	280	189	187	243	320	331

Table L-6. Calculated Battle Creek Hydro Power Production for Alternative: Five Dam Removal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta Powerhouse (MWh)												
10%	5441	4841	5430	5232	5220	4477	3531	3087	3168	3294	3926	4116
30%	6958	7159	8255	7199	6214	4847	3982	3665	3581	3982	4519	5426
50%	8730	7885	8730	8448	8730	6783	4829	3954	3892	4690	5575	7224
70%	8730	7885	8730	8448	8730	7868	6038	4609	4278	5156	6630	8730
90%	8730	7885	8730	8448	8730	8448	6852	5128	4918	6138	8448	8730
South Powerhouse (MWh)												
10%	1806	1606	1802	1736	1732	1486	1172	1024	1051	1093	1303	1366
30%	2309	2375	2739	2411	2269	1608	1321	1216	1188	1321	1499	1800
50%	2897	3028	3395	3285	3395	2620	1602	1312	1291	1556	1954	2397
70%	3395	3066	3395	3285	3395	3218	2172	1530	1420	1711	2535	2916
90%	3395	3066	3395	3285	3395	3285	2621	1702	1632	2132	3285	3395
Inskip Powerhouse (MWh)												
10%	2361	2061	2349	2696	3192	2534	1560	1130	1268	1330	2001	1465
30%	3630	3813	4422	4259	4154	2892	1996	1689	1668	1995	2575	2346
50%	4806	4691	5194	5026	5194	4660	2815	1968	1968	2680	3596	3793
70%	5194	4691	5194	5026	5194	5026	3984	2602	2342	3131	4539	4844
90%	5194	4691	5194	5026	5194	5026	4691	3104	2960	4052	5026	5194
Coleman Powerhouse (MWh)												
10%	3709	3249	3693	4143	4819	3877	2506	1897	2083	2181	3122	2415
30%	5521	5763	6673	6380	6181	4384	3124	2689	2649	3123	3934	3688
50%	7240	7061	7857	7537	7779	6895	4284	3085	3075	4093	5381	5758
70%	8039	7245	8009	7653	7923	7459	5940	3983	3605	4732	6722	7295
90%	8258	7443	8258	7926	8027	7662	6948	4693	4480	6038	7687	8210
System Total Annual (MWh)												
10%	130581											
30%	177392											
50%	224636											
70%	248238											
90%	266750											

Table L-7. Calculated Battle Creek Flows for Alternative: No Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below Keswick Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	3	3	3	3	3	3	3	3	3	3	3	3
50%	7	20	29	13	11	3	3	3	3	3	3	3
70%	71	67	64	41	44	3	3	3	3	3	3	8
90%	143	118	169	106	68	43	3	3	3	3	49	111
Below North Battle Creek Feeder Diversion Dam												
10%	40	40	40	40	30	30	30	26	28	24	35	36
30%	40	40	47	40	30	30	30	30	32	30	40	40
50%	65	86	102	75	71	30	30	30	35	37	40	40
70%	171	164	160	121	127	44	30	30	39	40	40	67
90%	292	249	334	229	167	125	30	30	40	40	135	237
Below Eagle Canyon Diversion Dam												
10%	50	50	50	50	30	30	30	30	30	30	30	50
30%	50	50	53	50	30	30	30	30	30	30	30	50
50%	79	108	129	92	87	30	30	30	30	30	30	50
70%	227	218	211	157	165	49	30	30	30	30	32	81
90%	396	336	455	309	221	162	30	30	30	30	176	319
Below Wildcat Diversion Dam												
10%	50	50	50	50	30	30	30	30	30	30	30	50
30%	50	50	50	50	30	30	30	30	30	30	30	50
50%	75	104	126	89	84	30	30	30	30	30	30	50
70%	225	216	209	154	162	44	30	30	30	30	30	77
90%	397	336	457	308	219	159	30	30	30	30	173	319
Above South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below South Diversion Dam												
10%	30	30	30	30	20	20	20	20	20	20	20	30
30%	30	30	30	30	20	20	20	20	20	20	20	30
50%	30	40	48	34	33	20	20	20	20	20	20	30
70%	83	80	77	58	61	20	20	20	20	20	20	30
90%	144	122	165	113	81	60	20	20	20	20	65	116
Below Inskip Diversion Dam												
10%	40	40	40	40	30	30	30	30	30	30	30	40
30%	40	48	60	40	30	30	30	30	30	30	30	40
50%	72	86	96	79	76	30	30	30	30	30	30	40
70%	142	138	135	109	113	58	30	30	30	30	30	73
90%	222	194	250	181	139	112	30	30	30	30	118	186
Below Coleman Diversion Dam												
10%	50	50	50	50	30	30	30	30	50	50	50	50
30%	50	50	50	50	30	30	30	30	50	50	50	50
50%	50	62	76	52	49	30	30	30	50	50	50	50
70%	137	131	127	93	98	30	30	30	50	50	50	50
90%	233	200	265	185	133	96	30	30	50	50	105	191
Below Confluence of North Fork and South Fork Battle Creek												
10%	100	100	100	100	60	60	60	60	80	80	80	100
30%	100	100	100	100	60	60	60	60	80	80	80	100
50%	125	167	202	141	133	60	60	60	80	80	80	100
70%	362	346	336	247	260	74	60	60	80	80	80	127
90%	638	540	735	496	352	255	60	60	80	80	278	513
Below Coleman National Fish Hatchery												
10%	345	340	345	343	331	292	220	191	203	205	255	259
30%	445	508	529	476	396	317	250	229	231	250	295	344
50%	579	635	676	605	595	448	305	248	252	296	366	462
70%	864	845	833	729	744	521	384	291	279	327	438	583
90%	1187	1072	1301	1020	851	739	438	325	322	391	765	1041

Table L-8. Calculated Battle Creek Diversions for Alternative: No Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta 2 Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	109	91	73	58	54	54	58	68	80
50%	128	128	128	128	128	103	71	58	59	69	84	106
70%	128	128	128	128	128	119	89	68	65	76	100	128
90%	128	128	128	128	128	128	100	75	75	90	128	128
North Battle Creek Feeder Diversion												
10%	9	8	9	8	17	11	0	0	0	0	0	0
30%	23	33	29	28	26	14	5	1	0	0	1	9
50%	22	22	22	22	22	34	13	4	0	0	12	26
70%	22	22	22	22	22	31	24	11	0	2	22	22
90%	22	22	22	22	22	22	32	16	5	11	22	22
Eagle Canyon Diversion												
10%	33	32	32	32	40	35	24	15	19	20	34	15
30%	47	57	64	52	50	38	28	25	27	33	45	32
50%	64	64	64	64	64	58	37	28	34	47	56	50
70%	64	64	64	64	64	64	48	34	41	54	64	64
90%	64	64	64	64	64	64	56	40	49	64	64	64
Wildcat Diversion												
10%	12	12	12	12	12	12	11	11	11	11	12	12
30%	13	14	17	13	13	12	11	11	11	11	12	12
50%	18	18	18	18	18	13	12	11	11	12	12	13
70%	18	18	18	18	18	18	13	12	12	12	15	18
90%	18	18	18	18	18	18	13	12	12	13	18	18
South Canal Diversion												
10%	23	22	23	22	30	23	9	4	6	6	16	6
30%	41	53	57	47	42	27	15	11	11	15	23	23
50%	67	67	67	67	67	52	25	14	15	23	37	45
70%	67	67	67	67	67	66	40	22	20	29	50	67
90%	67	67	67	67	67	67	50	29	28	41	67	67

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
South Connector												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Inskip Diversion												
10%	127	124	127	126	138	114	70	56	62	63	86	78
30%	189	220	214	208	179	130	88	76	75	84	106	127
50%	214	214	214	214	214	211	123	87	85	106	150	200
70%	214	214	214	214	214	214	172	114	97	122	194	214
90%	214	214	214	214	214	214	204	135	123	161	214	214
Inskip Connector												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Coleman Diversion												
10%	161	157	161	159	189	158	100	77	67	68	108	91
30%	241	292	307	267	242	178	124	107	89	104	140	160
50%	321	325	323	326	326	284	169	123	106	141	198	255
70%	316	317	317	321	321	325	233	157	127	166	253	322
90%	312	312	312	312	316	321	276	185	162	218	320	312
South Powerhouse Flow												
10%	116	113	116	115	128	106	66	54	59	60	80	72
30%	172	207	212	189	164	120	83	71	71	78	98	116
50%	222	222	222	222	222	194	114	82	79	97	138	182
70%	222	222	222	222	222	221	158	106	90	112	178	222
90%	222	222	222	222	222	222	188	125	113	147	222	222

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Inskip Powerhouse Flow												
10%	165	161	164	163	184	154	99	77	86	87	125	98
30%	241	282	283	265	234	173	122	106	108	122	156	164
50%	283	283	283	283	283	274	164	120	124	157	211	254
70%	283	283	283	283	283	283	225	153	144	181	263	283
90%	283	283	283	283	283	283	266	179	177	230	283	283
Coleman Powerhouse Flow												
10%	199	195	199	197	227	194	133	108	98	99	142	125
30%	284	338	357	311	283	215	158	140	122	138	176	199
50%	374	380	380	380	380	327	205	156	140	177	237	299
70%	380	380	380	380	380	375	273	193	162	203	298	375
90%	380	380	380	380	380	380	318	222	199	258	380	380

Table L-9. Calculated Battle Creek Hydro Power Production for Alternative: No Dam Removal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta Powerhouse (MWh)												
10%	5441	4841	5430	5232	5220	4477	3531	3087	3168	3294	3926	4116
30%	6958	7159	8255	7199	6214	4847	3982	3665	3581	3982	4519	5426
50%	8730	7885	8730	8448	8730	6783	4829	3954	3892	4690	5575	7224
70%	8730	7885	8730	8448	8730	7868	6038	4609	4278	5156	6630	8730
90%	8730	7885	8730	8448	8730	8448	6852	5128	4918	6138	8448	8730
South Powerhouse (MWh)												
10%	2628	2313	2618	2515	2897	2328	1496	1222	1292	1348	1755	1624
30%	3886	4236	4805	4147	3721	2634	1870	1608	1545	1768	2143	2616
50%	5014	4538	5024	4862	5024	4240	2573	1847	1734	2200	3019	4107
70%	5024	4538	5024	4862	5024	4835	3576	2391	1970	2523	3894	5024
90%	5024	4538	5024	4862	5024	4862	4251	2821	2474	3338	4862	5024
Inskip Powerhouse (MWh)												
10%	3028	2667	3017	2899	3374	2737	1818	1409	1530	1600	2228	1807
30%	4425	4671	5194	4711	4290	3077	2234	1942	1911	2233	2775	3014
50%	5194	4691	5194	5026	5194	4861	3014	2208	2197	2886	3748	4671
70%	5194	4691	5194	5026	5194	5026	4128	2812	2553	3315	4678	5194
90%	5194	4691	5194	5026	5194	5026	4878	3290	3142	4220	5026	5194
Coleman Powerhouse (MWh)												
10%	4944	4363	4928	4738	5629	4652	3288	2673	2356	2464	3407	3107
30%	7047	7577	8845	7465	7007	5164	3913	3474	2929	3417	4229	4923
50%	9274	8512	9424	9120	9424	7848	5088	3874	3360	4398	5693	7416
70%	9424	8512	9424	9120	9424	9007	6764	4783	3896	5045	7155	9308
90%	9424	8512	9424	9120	9424	9120	7892	5502	4782	6406	9120	9424
System Total Annual (MWh)												
10%	150462											
30%	207231											
50%	255964											
70%	279382											
90%	297508											

Table L-10. Calculated Battle Creek Flows for Alternative: Three Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below Keswick Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	3	3	3	3	3	3	3	3	3	3	3	3
50%	7	20	29	13	11	3	3	3	3	3	3	3
70%	71	67	64	41	44	3	3	3	3	3	3	8
90%	143	118	169	106	68	43	3	3	3	3	49	111
Below North Battle Creek Feeder Diversion Dam												
10%	40	40	40	40	30	30	30	26	28	24	35	36
30%	40	40	47	40	30	30	30	30	32	30	40	40
50%	65	86	102	75	71	30	30	30	35	37	40	40
70%	171	164	160	121	127	44	30	30	39	40	40	67
90%	292	249	334	229	167	125	30	30	40	40	135	237
Below Eagle Canyon Diversion Dam												
10%	83	82	82	82	70	65	54	45	49	50	64	65
30%	97	107	117	102	80	68	58	55	57	63	75	82
50%	143	172	193	156	151	88	67	58	64	77	86	100
70%	291	282	275	221	229	113	78	64	71	84	96	145
90%	460	400	519	373	285	226	86	70	79	94	240	383
Below Wildcat Diversion Dam												
10%	95	94	95	94	83	76	65	56	60	61	76	77
30%	110	120	131	115	93	80	70	67	69	74	87	95
50%	157	186	208	171	166	101	79	70	75	88	98	113
70%	307	298	291	236	244	126	91	76	83	96	109	159
90%	479	418	539	390	301	241	99	82	91	106	255	401
Above South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below South Diversion Dam												
10%	30	30	30	30	20	20	20	20	20	20	20	30
30%	30	30	30	30	20	20	20	20	20	20	20	30
50%	30	40	48	34	33	20	20	20	20	20	20	30
70%	83	80	77	58	61	20	20	20	20	20	20	30
90%	144	122	165	113	81	60	20	20	20	20	65	116
Below Inskip Diversion Dam												
10%	40	40	40	40	30	30	30	30	30	30	30	40
30%	40	65	72	44	30	30	30	30	30	30	30	40
50%	86	102	114	93	91	35	30	30	30	30	30	40
70%	167	162	158	128	133	70	30	30	30	30	30	87
90%	259	226	291	211	163	131	30	30	30	30	139	217
Below Coleman Diversion Dam												
10%	36	36	36	36	26	25	25	25	25	25	25	35
30%	36	61	68	40	26	26	25	25	25	25	25	36
50%	82	98	110	89	87	31	25	25	25	25	26	36
70%	163	158	155	125	129	66	26	25	25	26	26	83
90%	256	223	288	208	160	128	26	26	26	26	135	214
Below Confluence of North Fork and South Fork Battle Creek												
10%	140	140	140	140	118	112	101	92	95	96	111	122
30%	156	191	209	165	128	116	105	102	104	110	122	140
50%	249	294	328	270	262	142	114	105	111	124	134	159
70%	481	466	456	371	383	202	127	112	119	132	145	252
90%	744	651	840	608	471	379	135	117	127	142	401	625
Below Coleman National Fish Hatchery												
10%	345	340	345	343	331	292	220	191	203	205	255	259
30%	445	508	529	476	396	317	250	229	231	250	295	344
50%	579	635	676	605	595	448	305	248	252	296	366	462
70%	864	845	833	729	744	521	384	291	279	327	438	583
90%	1187	1072	1301	1020	851	739	438	325	322	391	765	1041

Table L-11. Calculated Battle Creek Diversions for Alternative: Three Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta 2 Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	109	91	73	58	54	54	58	68	80
50%	128	128	128	128	128	103	71	58	59	69	84	106
70%	128	128	128	128	128	119	89	68	65	76	100	128
90%	128	128	128	128	128	128	100	75	75	90	128	128
North Battle Creek Feeder Diversion												
10%	9	8	9	8	17	11	0	0	0	0	0	0
30%	23	33	29	28	26	14	5	1	0	0	1	9
50%	22	22	22	22	22	34	13	4	0	0	12	26
70%	22	22	22	22	22	31	24	11	0	2	22	22
90%	22	22	22	22	22	22	32	16	5	11	22	22
Eagle Canyon Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Wildcat Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
South Canal Diversion												
10%	23	22	23	22	30	23	9	4	6	6	16	6
30%	41	53	57	47	42	27	15	11	11	15	23	23
50%	67	67	67	67	67	52	25	14	15	23	37	45
70%	67	67	67	67	67	66	40	22	20	29	50	67
90%	67	67	67	67	67	67	50	29	28	41	67	67
South Connector												
10%	116	113	116	115	128	106	66	54	59	60	80	72
30%	172	207	212	189	164	120	83	71	71	78	98	116

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
50%	220	220	220	220	220	194	114	82	79	97	138	182
70%	220	220	220	220	220	220	158	106	90	112	178	220
90%	220	220	220	220	220	220	188	125	113	147	220	220

Inskip Diversion

10%	22	21	22	22	21	17	10	7	8	8	13	14
30%	31	13	8	31	27	19	13	11	11	13	17	22
50%	0	0	0	0	0	26	18	13	13	17	24	33
70%	0	0	0	0	0	0	26	17	15	20	31	0
90%	0	0	0	0	0	0	31	20	20	26	0	0

Inskip Connector

10%	143	140	143	142	154	128	81	66	72	73	98	90
30%	208	225	225	225	196	144	100	87	86	96	120	142
50%	225	225	225	225	225	225	137	99	97	119	167	220
70%	225	225	225	225	225	225	189	127	110	137	214	225
90%	225	225	225	225	225	225	224	150	138	179	225	225

Coleman Diversion

10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0

South Powerhouse Flow

10%	116	113	116	115	128	106	66	54	59	60	80	72
30%	172	207	212	189	164	120	83	71	71	78	98	116
50%	222	222	222	222	222	194	114	82	79	97	138	182
70%	222	222	222	222	222	221	158	106	90	112	178	222
90%	222	222	222	222	222	222	188	125	113	147	222	222

Inskip Powerhouse Flow

10%	143	140	143	142	154	128	81	66	72	73	98	90
30%	208	225	225	225	196	144	100	87	86	96	120	142
50%	225	225	225	225	225	225	137	99	97	119	167	220
70%	225	225	225	225	225	225	189	127	110	137	214	225
90%	225	225	225	225	225	225	224	150	138	179	225	225

Coleman Powerhouse Flow

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
10%	159	155	158	157	169	142	92	76	83	83	111	103
30%	228	247	248	246	214	159	113	98	98	108	134	158
50%	250	252	254	251	251	245	151	111	109	133	184	240
70%	261	260	260	256	256	248	206	141	124	152	233	250
90%	274	269	275	267	261	256	243	165	153	196	257	268

Table L-12. Calculated Battle Creek Hydro Power Production for Alternative: Three Dam Removal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta Powerhouse (MWh)												
10%	5441	4841	5430	5232	5220	4477	3531	3087	3168	3294	3926	4116
30%	6958	7159	8255	7199	6214	4847	3982	3665	3581	3982	4519	5426
50%	8730	7885	8730	8448	8730	6783	4829	3954	3892	4690	5575	7224
70%	8730	7885	8730	8448	8730	7868	6038	4609	4278	5156	6630	8730
90%	8730	7885	8730	8448	8730	8448	6852	5128	4918	6138	8448	8730
South Powerhouse (MWh)												
10%	2628	2313	2618	2515	2897	2328	1496	1222	1292	1348	1755	1624
30%	3886	4236	4805	4147	3721	2634	1870	1608	1545	1768	2143	2616
50%	5014	4538	5024	4862	5024	4240	2573	1847	1734	2200	3019	4107
70%	5024	4538	5024	4862	5024	4835	3576	2391	1970	2523	3894	5024
90%	5024	4538	5024	4862	5024	4862	4251	2821	2474	3338	4862	5024
Inskip Powerhouse (MWh)												
10%	2625	2313	2616	2514	2818	2275	1487	1213	1284	1339	1747	1658
30%	3820	3730	4129	3996	3601	2566	1842	1593	1536	1759	2130	2613
50%	4129	3730	4129	3996	4129	3996	2510	1820	1726	2191	2962	4030
70%	4129	3730	4129	3996	4129	3996	3463	2337	1962	2507	3793	4129
90%	4129	3730	4129	3996	4129	3996	4104	2745	2444	3281	3996	4129
Coleman Powerhouse (MWh)												
10%	3943	3478	3929	3777	4189	3406	2284	1885	1984	2069	2658	2551
30%	5654	5539	6153	5905	5310	3823	2792	2435	2352	2680	3213	3926
50%	6201	5650	6295	6025	6217	5878	3748	2761	2627	3309	4404	5954
70%	6476	5834	6447	6141	6360	5947	5112	3500	2971	3765	5594	6205
90%	6789	6032	6820	6414	6465	6150	6031	4085	3663	4873	6175	6648
System Total Annual (MWh)												
10%	135842											
30%	183860											
50%	222069											
70%	241167											
90%	258236											

Table L-13. Calculated Battle Creek Flows for Alternative: Six Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Below Keswick Diversion Dam												
10%	3	3	3	3	3	3	3	3	3	3	3	3
30%	3	3	3	3	3	3	3	3	3	3	3	3
50%	7	20	29	13	11	3	3	3	3	3	3	3
70%	71	67	64	41	44	3	3	3	3	3	3	8
90%	143	118	169	106	68	43	3	3	3	3	49	111
Below North Battle Creek Feeder Diversion Dam												
10%	49	48	49	48	47	41	30	26	28	24	35	36
30%	63	73	76	67	47	44	35	31	32	30	41	49
50%	87	88	102	75	71	47	43	34	35	37	47	66
70%	171	164	160	121	127	47	47	41	39	42	47	88
90%	292	249	334	229	167	125	47	46	45	47	135	237
Below Eagle Canyon Diversion Dam												
10%	91	90	91	91	87	75	54	45	49	50	64	65
30%	121	140	146	129	97	83	63	57	57	63	76	91
50%	165	174	193	156	151	105	79	62	64	77	93	126
70%	291	282	275	221	229	116	95	75	71	86	103	166
90%	460	400	519	373	285	226	103	85	84	101	240	383
Below Wildcat Diversion Dam												
10%	103	102	103	103	99	87	65	56	60	61	76	77
30%	134	153	160	142	110	95	74	68	69	74	88	103
50%	179	188	208	171	166	118	91	74	75	88	105	139
70%	307	298	291	236	244	129	108	87	83	98	116	180
90%	479	418	539	390	301	241	116	97	96	113	255	401
Above South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183
Below South Diversion Dam												
10%	53	52	53	52	50	43	29	24	26	26	36	36
30%	71	83	87	77	62	47	35	31	31	35	43	53

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
50%	97	107	115	101	100	72	45	34	35	43	57	75
70%	150	147	144	125	128	86	60	42	40	49	70	97
90%	211	189	232	180	148	127	70	49	48	61	132	183
Below Inskip Diversion Dam												
10%	86	86	86	61	40	40	40	40	40	40	40	65
30%	86	86	86	61	40	40	40	40	40	40	40	86
50%	86	100	114	93	91	40	40	40	40	40	40	86
70%	167	162	158	128	133	67	40	40	40	40	40	86
90%	259	226	291	211	163	131	40	40	40	40	139	217
Below Coleman Diversion Dam												
10%	92	92	92	67	46	45	45	45	45	45	45	70
30%	92	92	92	67	46	46	45	45	45	45	45	92
50%	92	106	120	99	97	46	45	45	45	45	46	92
70%	173	168	165	135	139	72	46	45	45	46	46	92
90%	266	233	298	218	170	138	46	46	46	46	145	224
Below Confluence of North Fork and South Fork Battle Creek												
10%	200	198	200	174	150	138	116	107	110	111	126	152
30%	231	250	257	214	160	145	125	118	119	125	139	200
50%	276	299	333	275	267	169	142	124	126	139	156	236
70%	486	471	461	376	388	207	159	137	134	148	167	277
90%	753	656	850	613	476	384	167	148	147	164	406	630
Below Coleman National Fish Hatchery												
10%	345	340	345	343	331	292	220	191	203	205	255	259
30%	445	508	529	476	396	317	250	229	231	250	295	344
50%	579	635	676	605	595	448	305	248	252	296	366	462
70%	864	845	833	729	744	521	384	291	279	327	438	583
90%	1187	1072	1301	1020	851	739	438	325	322	391	765	1041

Table L-14. Calculated Battle Creek Diversions for Alternative: Six Dam Removal (cfs)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta 2 Powerhouse Flow												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	109	91	73	58	54	54	58	68	80
50%	128	128	128	128	128	103	71	58	59	69	84	106
70%	128	128	128	128	128	119	89	68	65	76	100	128
90%	128	128	128	128	128	128	100	75	75	90	128	128
North Battle Creek Feeder Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	1	9	0	0	0	0	0	0	0
50%	0	20	22	22	22	17	0	0	0	0	5	0
70%	22	22	22	22	22	28	7	0	0	0	15	1
90%	22	22	22	22	22	22	15	0	0	4	22	22
Eagle Canyon Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Wildcat Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
South Canal Diversion												
10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
South Connector												
10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	110	100	73	58	54	54	58	68	80

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
50%	128	148	150	150	150	120	71	58	59	69	89	106
70%	150	150	150	150	150	147	96	68	65	76	116	129
90%	150	150	150	150	150	150	116	75	75	94	150	150

Inskip Diversion

10%	4	2	3	28	45	34	14	6	9	10	24	0
30%	32	50	56	66	64	42	22	17	17	22	35	3
50%	70	72	70	70	70	79	38	22	23	36	56	37
70%	70	70	70	70	70	73	61	34	31	44	76	71
90%	70	70	70	70	70	70	76	44	43	63	70	70

Inskip Connector

10%	83	81	83	107	122	102	66	51	57	58	83	60
30%	134	166	177	176	164	115	81	70	71	81	104	83
50%	198	220	220	220	220	198	109	80	82	104	145	143
70%	220	220	220	220	220	220	157	102	95	120	192	200
90%	220	220	220	220	220	220	192	119	117	157	220	220

Coleman Diversion

10%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0

South Powerhouse Flow

10%	80	79	80	79	77	68	52	45	48	48	59	60
30%	102	116	121	110	100	73	58	54	54	58	68	80
50%	128	148	150	150	150	120	71	58	59	69	89	106
70%	150	150	150	150	150	147	96	68	65	76	116	129
90%	150	150	150	150	150	150	116	75	75	94	150	150

Inskip Powerhouse Flow

10%	83	81	83	107	122	102	66	51	57	58	83	60
30%	134	166	177	176	164	115	81	70	71	81	104	83
50%	198	220	220	220	220	198	109	80	82	104	145	143
70%	220	220	220	220	220	220	157	102	95	120	192	200
90%	220	220	220	220	220	220	192	119	117	157	220	220

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Coleman Powerhouse Flow												
10%	104	101	104	128	142	121	82	66	73	73	101	78
30%	159	193	205	202	187	135	98	87	88	98	123	104
50%	228	252	254	251	251	223	128	97	99	123	167	168
70%	261	260	260	256	256	248	179	121	114	140	216	230
90%	270	269	270	267	261	256	216	139	137	179	257	268

Table L-15. Calculated Battle Creek Hydro Power Production for Alternative: Six Dam Removal

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Volta Powerhouse (MWh)												
10%	5441	4841	5430	5232	5220	4477	3531	3087	3168	3294	3926	4116
30%	6958	7159	8255	7199	6214	4847	3982	3665	3581	3982	4519	5426
50%	8730	7885	8730	8448	8730	6783	4829	3954	3892	4690	5575	7224
70%	8730	7885	8730	8448	8730	7868	6038	4609	4278	5156	6630	8730
90%	8730	7885	8730	8448	8730	8448	6852	5128	4918	6138	8448	8730
South Powerhouse (MWh)												
10%	1806	1606	1802	1736	1732	1486	1172	1024	1051	1093	1303	1366
30%	2309	2375	2739	2411	2269	1608	1321	1216	1188	1321	1499	1800
50%	2897	3028	3395	3285	3395	2620	1602	1312	1291	1556	1954	2397
70%	3395	3066	3395	3285	3395	3218	2172	1530	1420	1711	2535	2916
90%	3395	3066	3395	3285	3395	3285	2621	1702	1632	2132	3285	3395
Inskip Powerhouse (MWh)												
10%	1530	1337	1523	1904	2239	1817	1209	938	1017	1064	1480	1108
30%	2456	2752	3248	3123	3014	2042	1484	1291	1270	1484	1842	1521
50%	3632	3647	4037	3907	4037	3523	2001	1467	1459	1916	2571	2618
70%	4037	3647	4037	3907	4037	3907	2875	1867	1695	2200	3402	3670
90%	4037	3647	4037	3907	4037	3907	3517	2183	2085	2877	3907	4037
Coleman Powerhouse (MWh)												
10%	2587	2271	2577	3074	3531	2908	2032	1637	1744	1821	2418	1932
30%	3934	4330	5086	4844	4640	3236	2432	2151	2112	2432	2944	2574
50%	5653	5650	6295	6025	6217	5359	3184	2407	2387	3061	3996	4170
70%	6476	5834	6447	6141	6360	5947	4442	2989	2731	3475	5186	5708
90%	6696	6032	6696	6414	6465	6150	5361	3450	3298	4451	6175	6648
System Total Annual (MWh)												
10%	114638											
30%	154083											
50%	197421											
70%	218886											
90%	235784											