Appendix 4H

Attachment 1: Storage and Elevation Results (CalSim 3)

Appendix 4H

Attachment 1: Storage and Elevation Results (CalSim 3)

The following results of the CalSim 3 model are included for reservoir storage and elevation conditions for the following scenarios:

- Baseline Conditions – 2022 Hydrology and 15 centimeters (cm) Sea Level Rise (092023)
- Alternative 1 plus CVP Proposed Action, Sacramento and Feather River VAs – 2022 Hydrology and 15 cm Sea Level Rise (110923)
- Alternative 1 plus Cumulative Projects – 2022 Hydrology and 15 cm Sea Level Rise (110923)

Title	Model Parameter	Table Numbers	Figure Numbers
San Luis Reservoir SWP Storage	S_SLUIS_SWP	4H-1-1-1a to 4H-1-1-2c	4H-1-1a to 4H-1-1l
San Luis Reservoir Storage	Post-Processed	4H-1-2-1a to 4H-1-2-2c	4H-1-2a to 4H-1-2l
San Luis Reservoir Elevation	Post-Processed	4H-1-3-1a to 4H-1-3-2c	4H-1-3a to 4H-1-3l

Report formats:

- Monthly tables comparing two scenarios (exceedance values, long-term average, and average by water year type).
- Monthly exceedance charts (all months) including all scenarios.

Table 4H-1-1-1a. San Luis SWP Storage, Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	568	697	809	965	1,067	1,067	1,053	981	807	765	698	615
20% Exceedance	453	554	684	752	895	1,027	970	784	604	617	609	530
30% Exceedance	397	473	565	645	758	888	810	672	514	555	539	426
40% Exceedance	315	434	509	565	692	744	686	574	440	432	450	358
50% Exceedance	263	320	416	508	625	669	605	496	401	339	372	291
60% Exceedance	228	251	371	453	534	584	520	422	308	303	298	239
70% Exceedance	159	156	256	365	449	515	444	340	245	279	220	173
80% Exceedance	66	74	169	314	394	452	385	281	153	246	174	106
90% Exceedance	42	42	81	248	353	397	342	204	91	186	119	59
Full Simulation Period Average[a]	294	346	440	537	638	696	641	537	405	421	395	322
Wet Water Years (28%)	354	456	560	676	809	884	880	785	614	632	643	555
Above Normal Water Years (14%)	333	406	493	614	729	779	680	532	362	419	499	377
Below Normal Water Years (18%)	354	402	494	524	570	625	526	385	241	324	324	269
Dry Water Years (24%)	227	255	345	449	546	608	542	439	349	350	234	171
Critical Water Years (16%)	186	175	268	370	473	505	470	423	346	270	193	150

Table 4H-1-1-1b. San Luis SWP Storage, Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	678	755	852	1,012	1,067	1,067	1,067	1,067	867	844	807	729
20% Exceedance	545	625	713	754	858	1,067	1,013	947	750	754	721	626
30% Exceedance	446	542	624	643	780	882	812	769	602	603	635	495
40% Exceedance	363	431	547	616	695	737	690	625	472	517	502	399
50% Exceedance	307	360	452	541	646	672	632	551	416	385	406	335
60% Exceedance	246	275	391	476	570	568	499	428	330	329	302	273
70% Exceedance	171	198	311	403	467	496	433	393	262	303	217	182
80% Exceedance	87	97	220	336	414	446	374	272	188	249	182	121
90% Exceedance	42	42	89	222	302	364	249	203	69	204	156	70
Full Simulation Period Average[a]	336	384	477	555	644	686	641	585	452	467	443	369
Wet Water Years (28%)	423	518	620	713	836	914	917	903	723	736	745	663
Above Normal Water Years (14%)	365	440	540	633	735	761	678	586	399	472	549	439
Below Normal Water Years (18%)	403	449	524	531	560	578	493	410	281	358	373	306
Dry Water Years (24%)	248	270	356	454	541	578	516	437	351	351	244	173
Critical Water Years (16%)	215	202	302	388	479	506	482	447	368	287	202	159

Table 4H-1-1-1c. San Luis SWP Storage, Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	110	58	43	46	0	0	14	86	60	79	109	114
20% Exceedance	93	70	29	2	-37	40	43	163	145	137	112	96
30% Exceedance	49	69	59	-3	21	-7	1	97	88	48	96	69
40% Exceedance	48	-3	38	52	3	-8	4	51	33	85	52	41
50% Exceedance	44	39	36	33	21	4	28	55	16	45	34	44
60% Exceedance	18	24	20	23	36	-17	-21	7	23	26	4	34
70% Exceedance	12	41	55	38	18	-20	-11	53	17	25	-3	9
80% Exceedance	22	23	51	23	20	-6	-11	-9	35	3	8	15
90% Exceedance	0	0	8	-26	-51	-32	-93	-1	-23	17	37	12
Full Simulation Period Average[a]	42	38	37	18	6	-10	0	48	47	46	48	48
Wet Water Years (28%)	69	62	60	37	27	30	37	117	109	104	102	107
Above Normal Water Years (14%)	32	34	47	18	5	-18	-2	55	37	53	49	62
Below Normal Water Years (18%)	49	47	30	7	-10	-47	-32	26	40	35	49	38
Dry Water Years (24%)	21	15	11	4	-5	-30	-26	-2	2	1	10	3
Critical Water Years (16%)	29	27	34	18	5	2	11	24	22	17	9	9

[a] Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Table 4H-1-1-2a. San Luis SWP Storage, Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	568	697	809	965	1,067	1,067	1,053	981	807	765	698	615
20% Exceedance	453	554	684	752	895	1,027	970	784	604	617	609	530
30% Exceedance	397	473	565	645	758	888	810	672	514	555	539	426
40% Exceedance	315	434	509	565	692	744	686	574	440	432	450	358
50% Exceedance	263	320	416	508	625	669	605	496	401	339	372	291
60% Exceedance	228	251	371	453	534	584	520	422	308	303	298	239
70% Exceedance	159	156	256	365	449	515	444	340	245	279	220	173
80% Exceedance	66	74	169	314	394	452	385	281	153	246	174	106
90% Exceedance	42	42	81	248	353	397	342	204	91	186	119	59
Full Simulation Period Average[a]	294	346	440	537	638	696	641	537	405	421	395	322
Wet Water Years (28%)	354	456	560	676	809	884	880	785	614	632	643	555
Above Normal Water Years (14%)	333	406	493	614	729	779	680	532	362	419	499	377
Below Normal Water Years (18%)	354	402	494	524	570	625	526	385	241	324	324	269
Dry Water Years (24%)	227	255	345	449	546	608	542	439	349	350	234	171
Critical Water Years (16%)	186	175	268	370	473	505	470	423	346	270	193	150

Table 4H-1-1-2b. San Luis SWP Storage, Alternative 1 plus Cumulative 2022 SLR15 110923, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	682	756	861	1,019	1,067	1,067	1,067	1,067	865	844	807	728
20% Exceedance	552	644	716	728	853	1,055	1,016	947	750	751	725	624
30% Exceedance	437	529	608	646	762	853	817	770	618	596	630	489
40% Exceedance	371	447	547	606	709	735	687	608	471	486	509	394
50% Exceedance	312	360	447	546	640	674	625	548	411	385	399	338
60% Exceedance	241	276	391	474	577	559	495	433	343	322	299	264
70% Exceedance	165	185	307	400	465	503	436	377	270	300	214	176
80% Exceedance	90	94	219	342	424	446	377	273	183	248	171	116
90% Exceedance	42	42	89	211	303	361	255	205	72	182	155	70
Full Simulation Period Average[a]	334	383	476	553	642	685	640	583	450	463	441	367
Wet Water Years (28%)	418	512	616	708	831	909	912	899	720	735	744	663
Above Normal Water Years (14%)	366	445	545	638	741	770	687	593	404	474	550	433
Below Normal Water Years (18%)	402	448	523	529	557	575	490	408	279	355	370	306
Dry Water Years (24%)	246	267	351	449	537	574	511	431	345	339	236	166
Critical Water Years (16%)	213	202	302	390	479	507	483	448	369	288	202	159

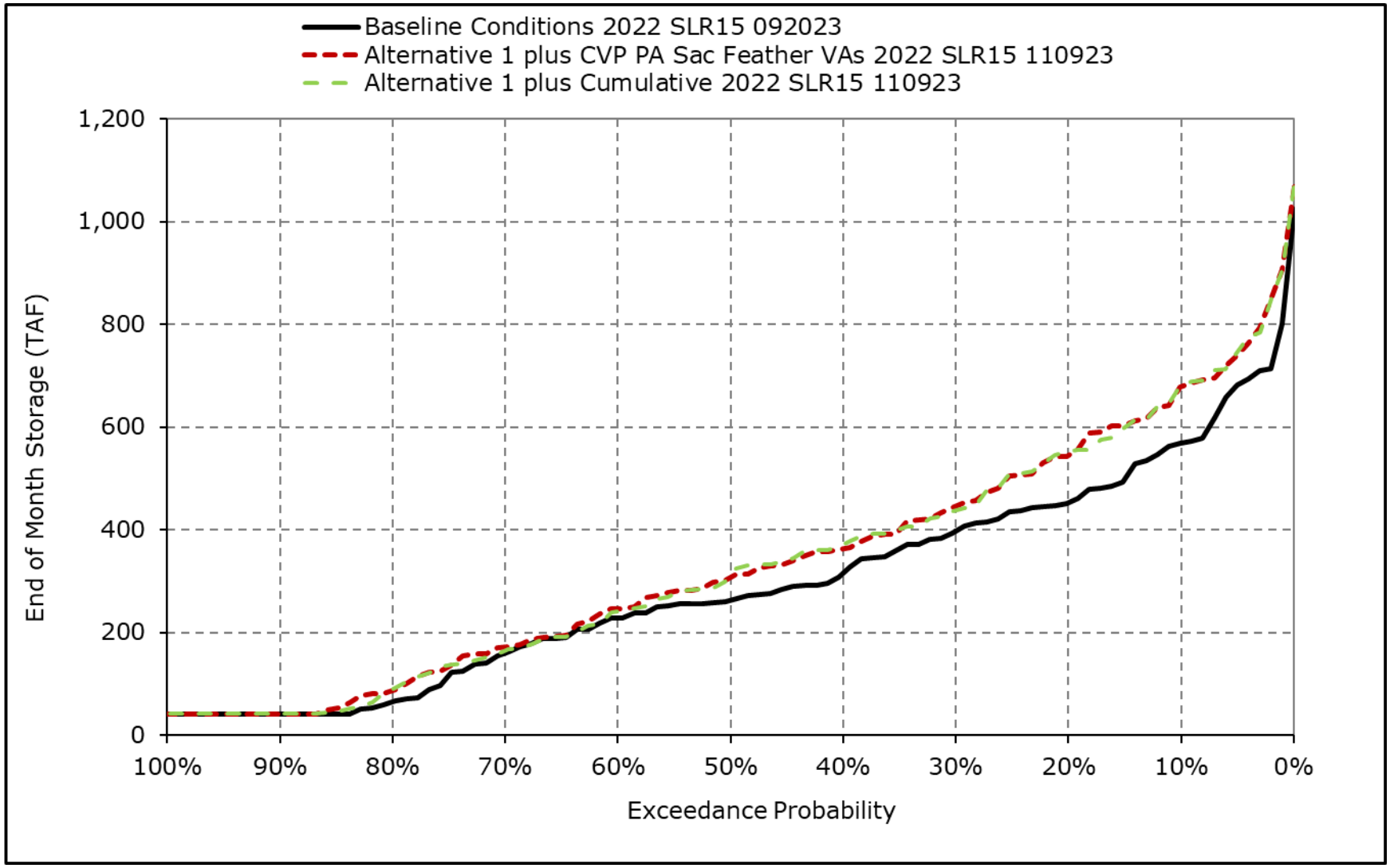
Table 4H-1-1-2c. San Luis SWP Storage, Alternative 1 plus Cumulative 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	114	59	52	54	0	0	14	86	58	79	109	114
20% Exceedance	100	89	32	-24	-42	28	45	163	146	134	116	94
30% Exceedance	40	56	43	0	3	-36	7	98	103	41	91	63
40% Exceedance	56	13	38	42	17	-9	1	34	32	54	59	36
50% Exceedance	49	40	31	38	15	6	20	52	10	45	27	47
60% Exceedance	13	25	20	21	42	-25	-25	11	35	18	0	25
70% Exceedance	6	28	52	35	16	-12	-8	37	25	21	-6	4
80% Exceedance	24	20	50	29	30	-7	-9	-9	30	3	-3	10
90% Exceedance	0	0	8	-37	-50	-35	-87	2	-20	-4	36	11
Full Simulation Period Average[a]	40	37	35	16	4	-11	-2	47	45	42	46	45
Wet Water Years (28%)	64	56	56	32	23	25	33	113	106	102	101	107
Above Normal Water Years (14%)	33	39	52	24	12	-9	6	62	43	55	50	56
Below Normal Water Years (18%)	48	46	29	5	-13	-50	-35	23	37	31	46	37
Dry Water Years (24%)	20	12	7	0	-9	-34	-30	-8	-4	-12	2	-4
Critical Water Years (16%)	27	27	35	20	6	3	13	25	23	17	10	9

[a] Based on the 100-year simulation period.

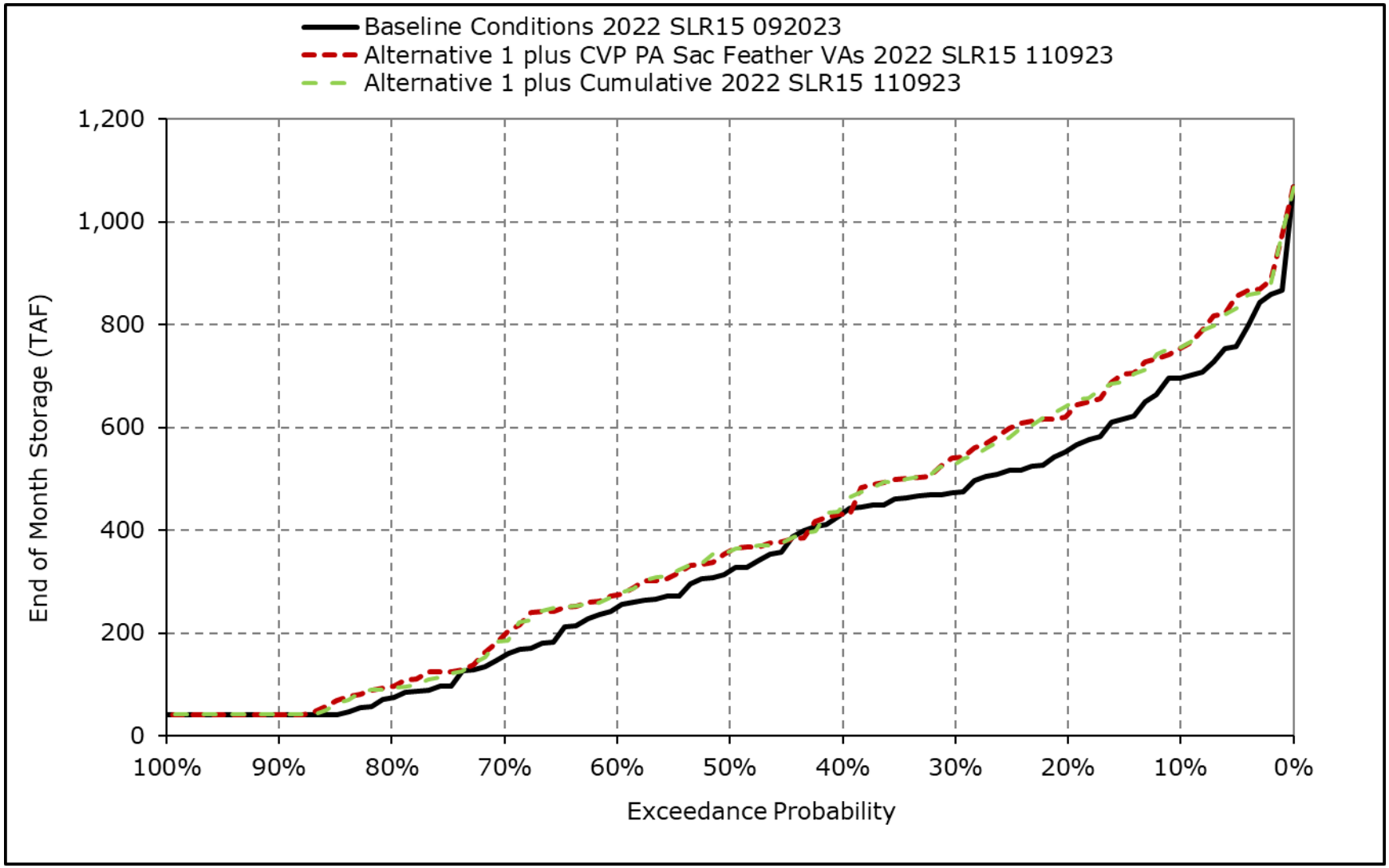
* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Figure 4H-1-1a. San Luis SWP Storage, October



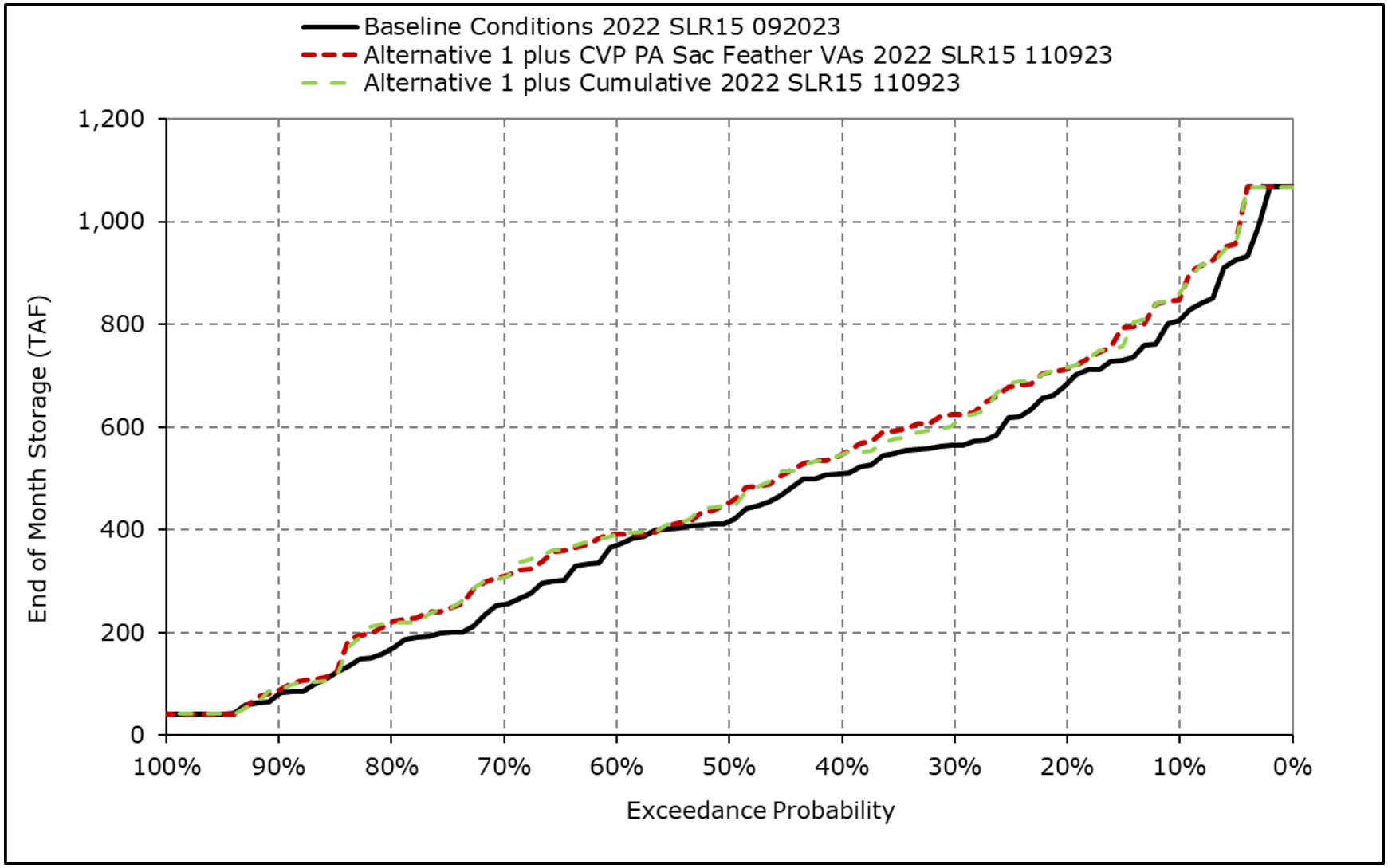
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1b. San Luis SWP Storage, November



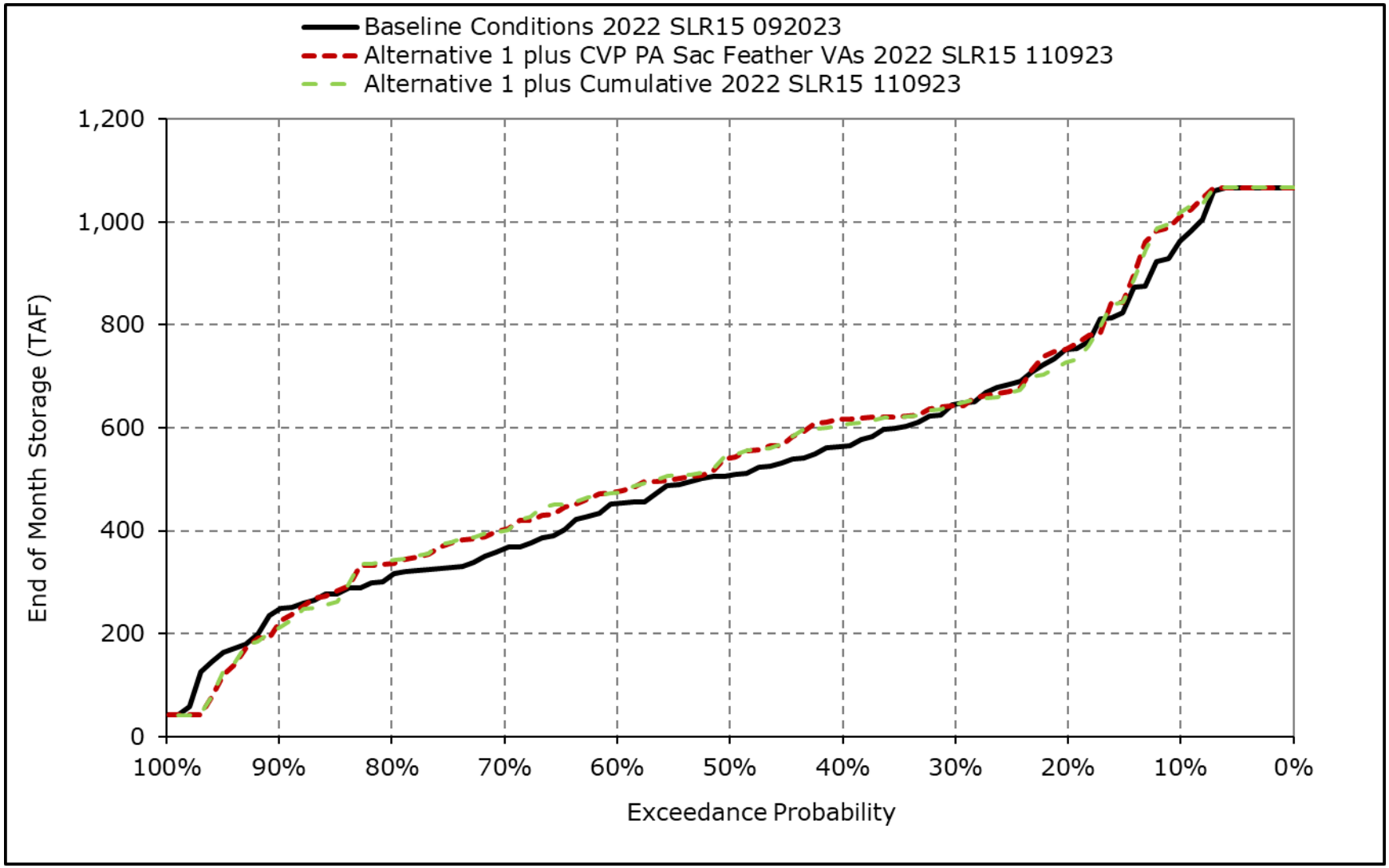
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1c. San Luis SWP Storage, December



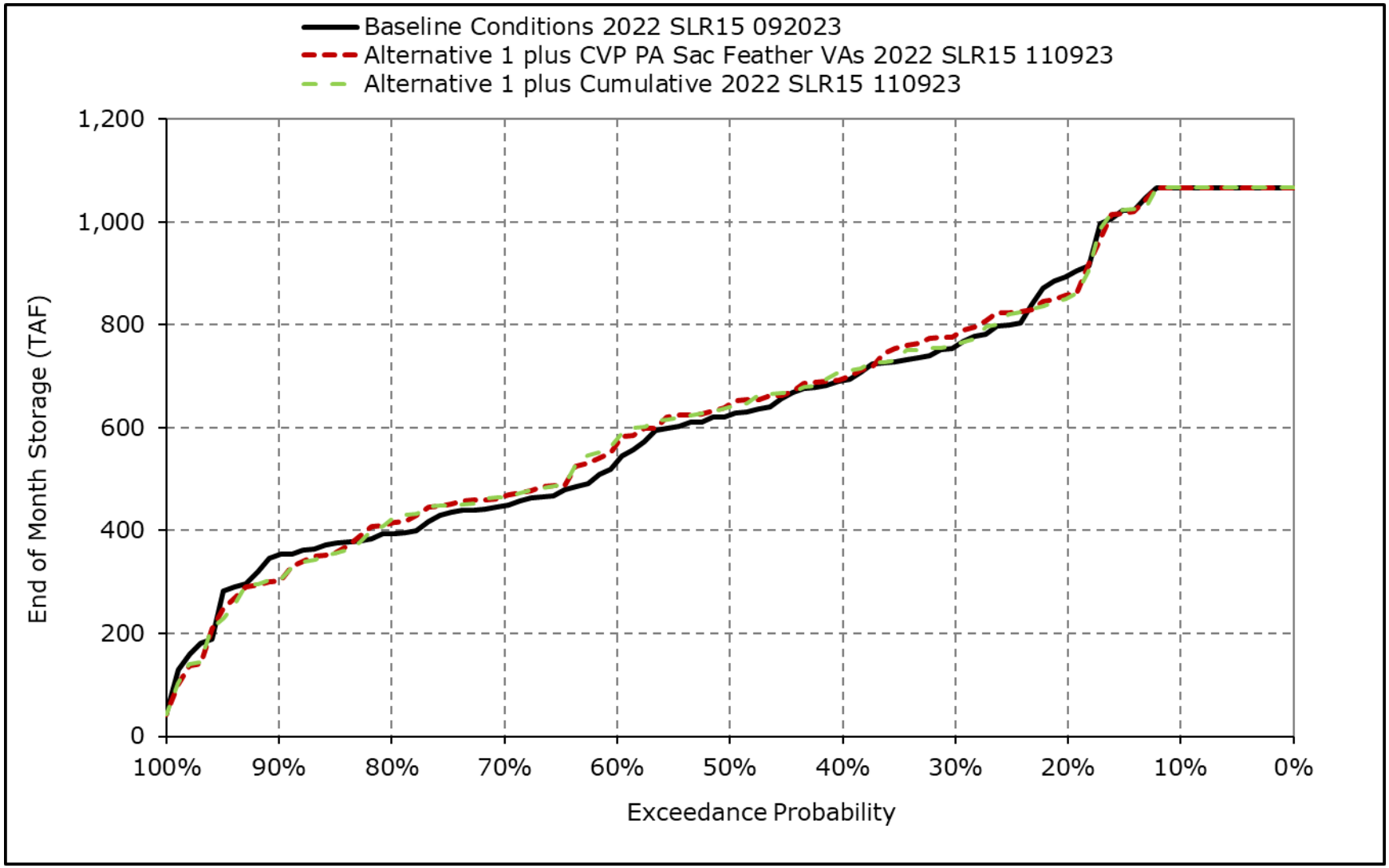
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1d. San Luis SWP Storage, January



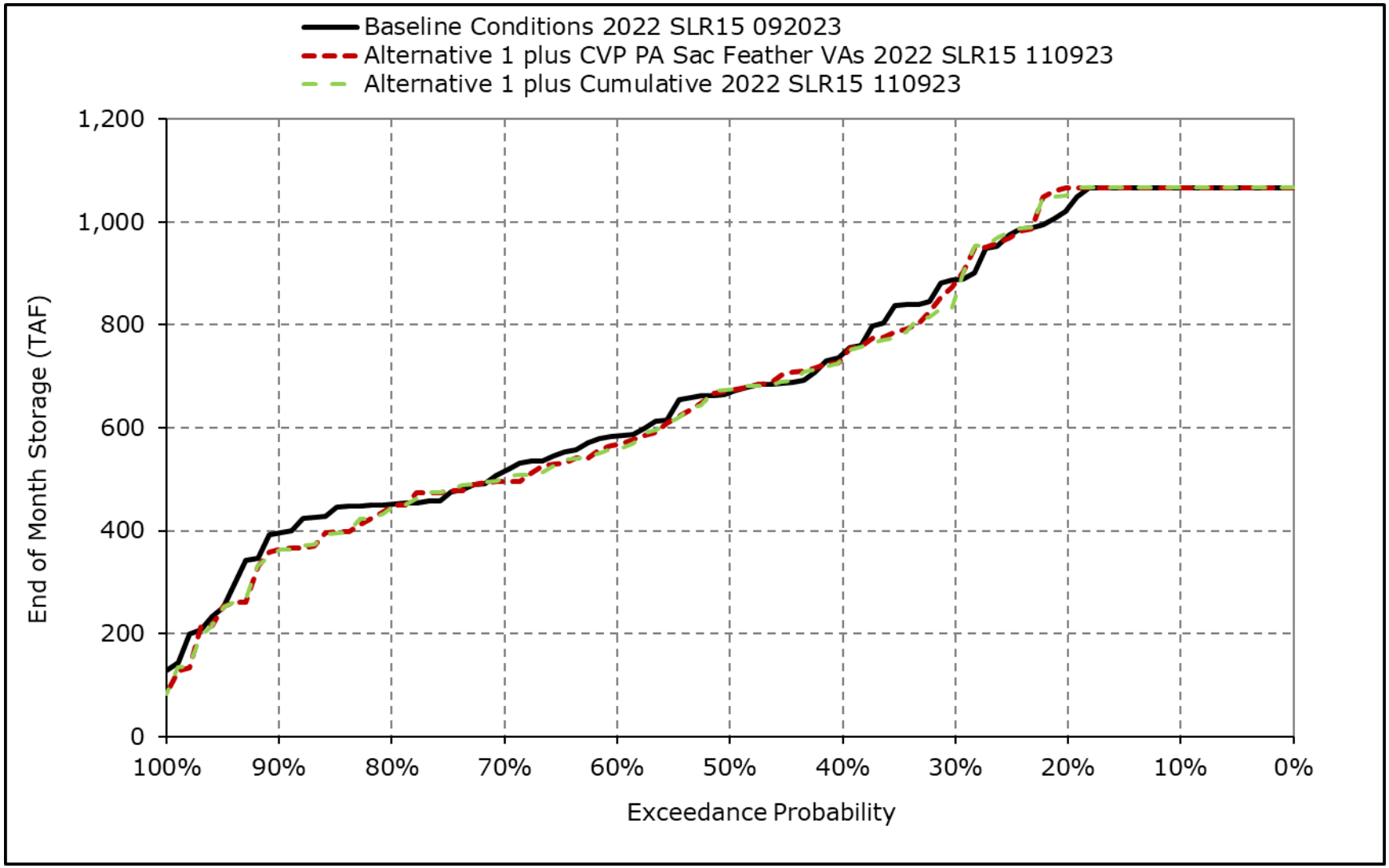
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1e. San Luis SWP Storage, February



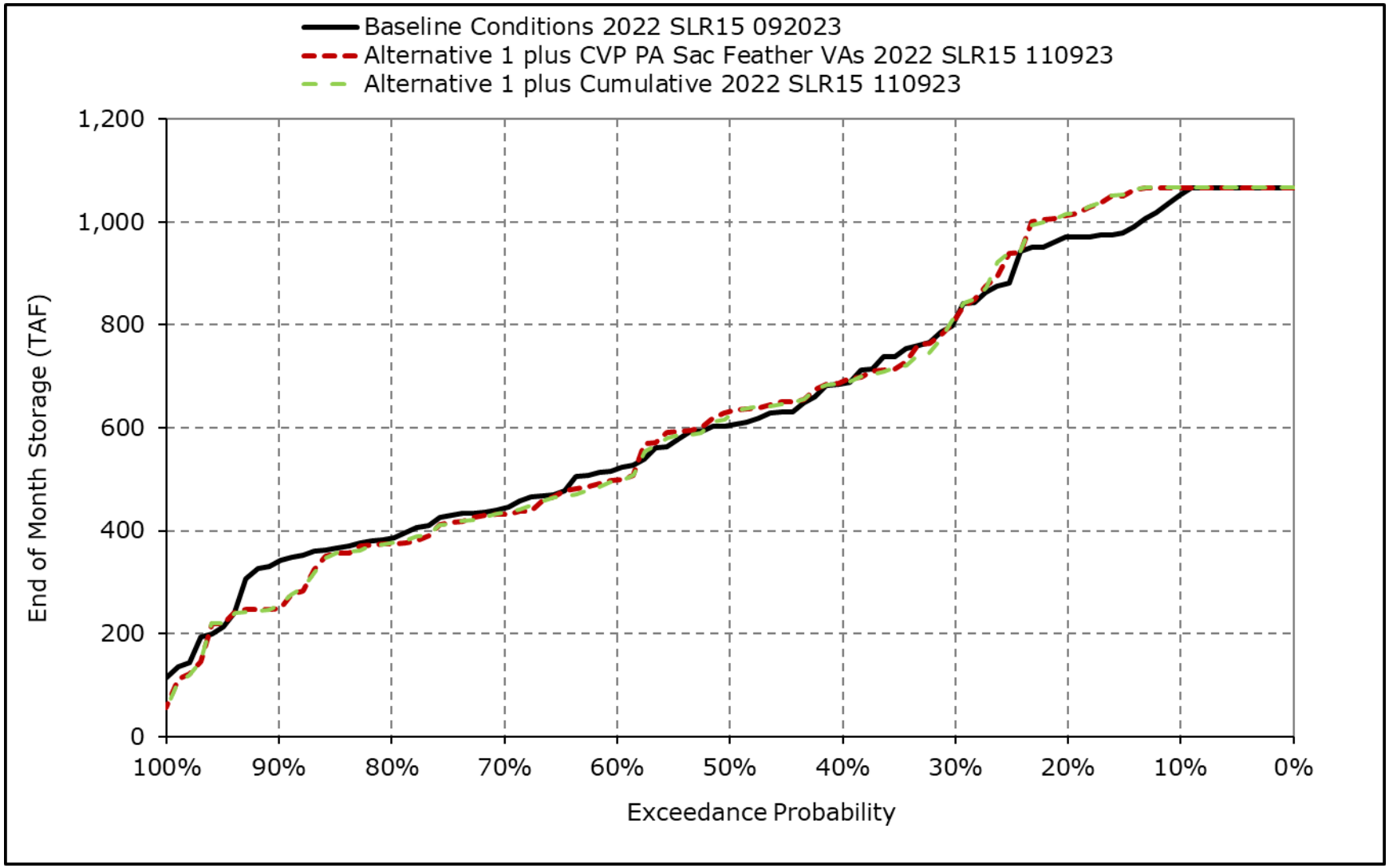
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1f. San Luis SWP Storage, March



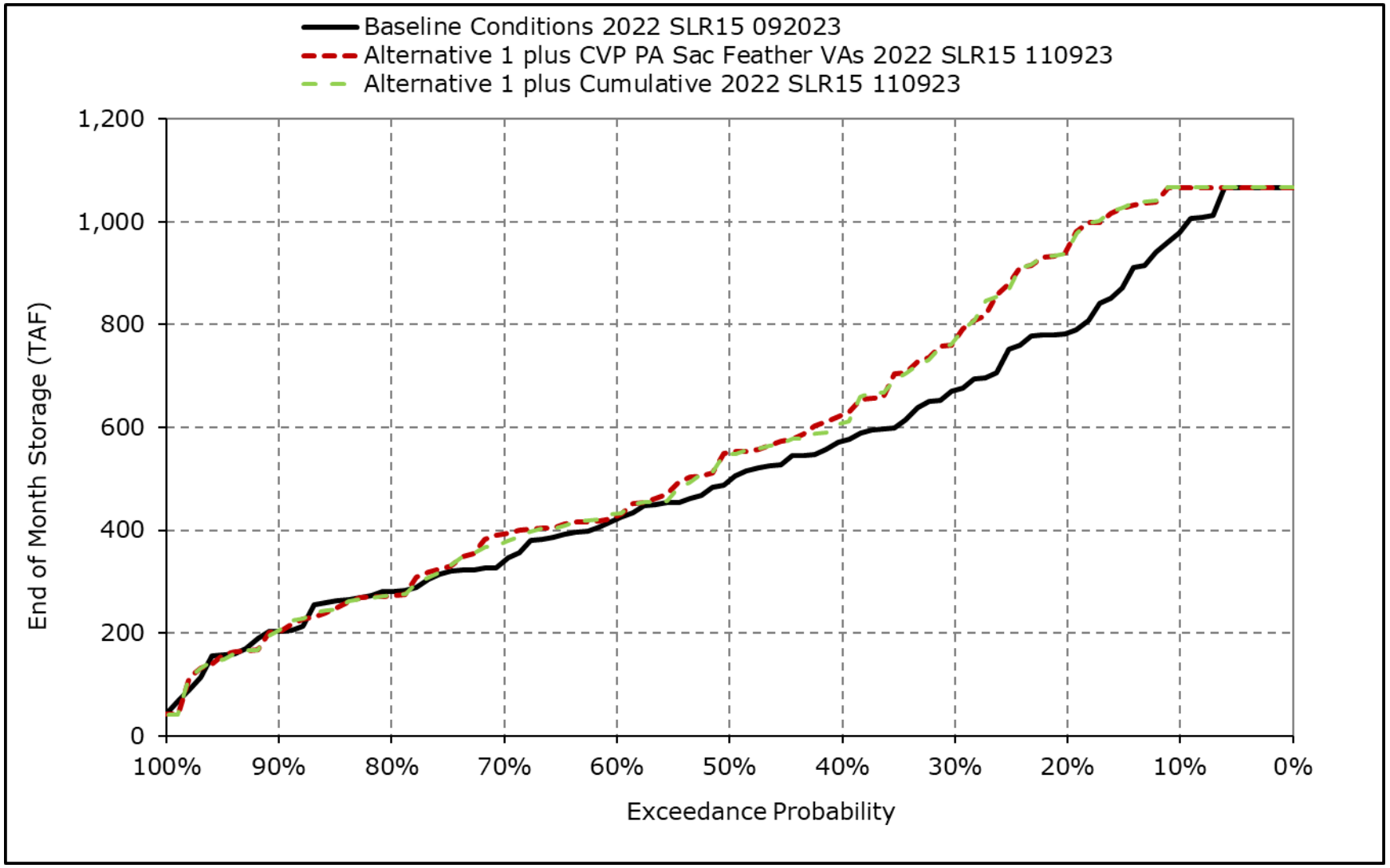
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1g. San Luis SWP Storage, April



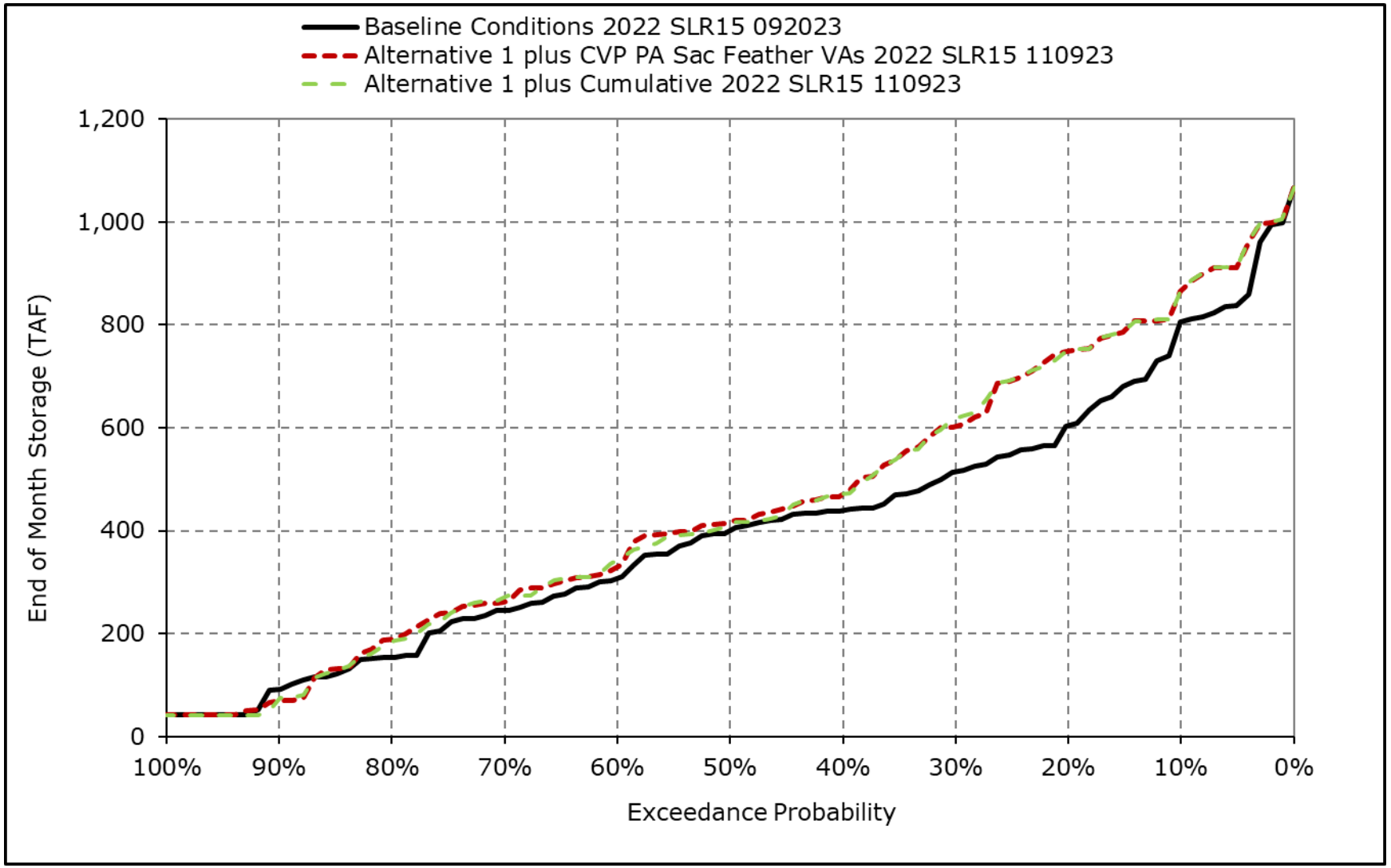
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1h. San Luis SWP Storage, May



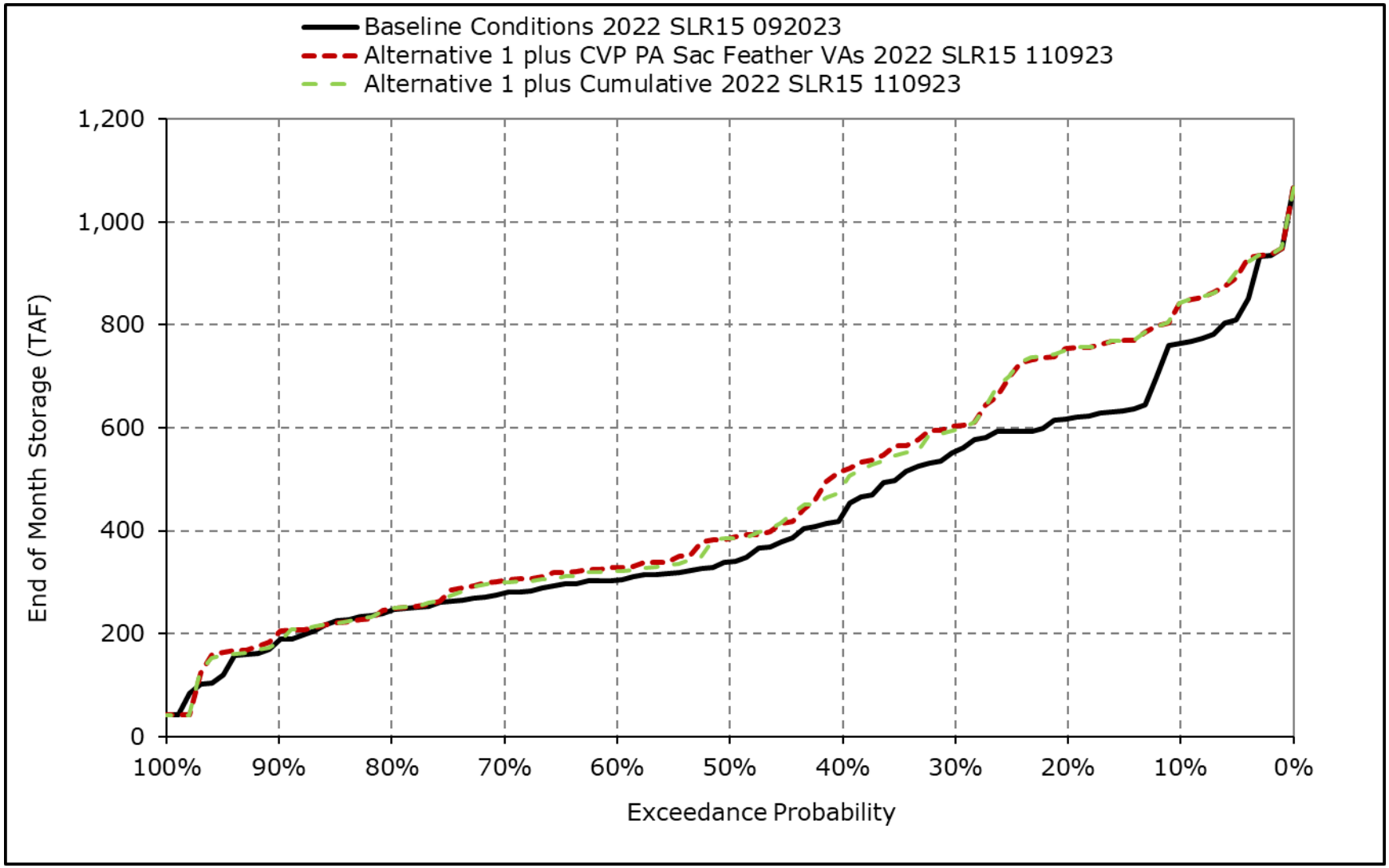
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1i. San Luis SWP Storage, June



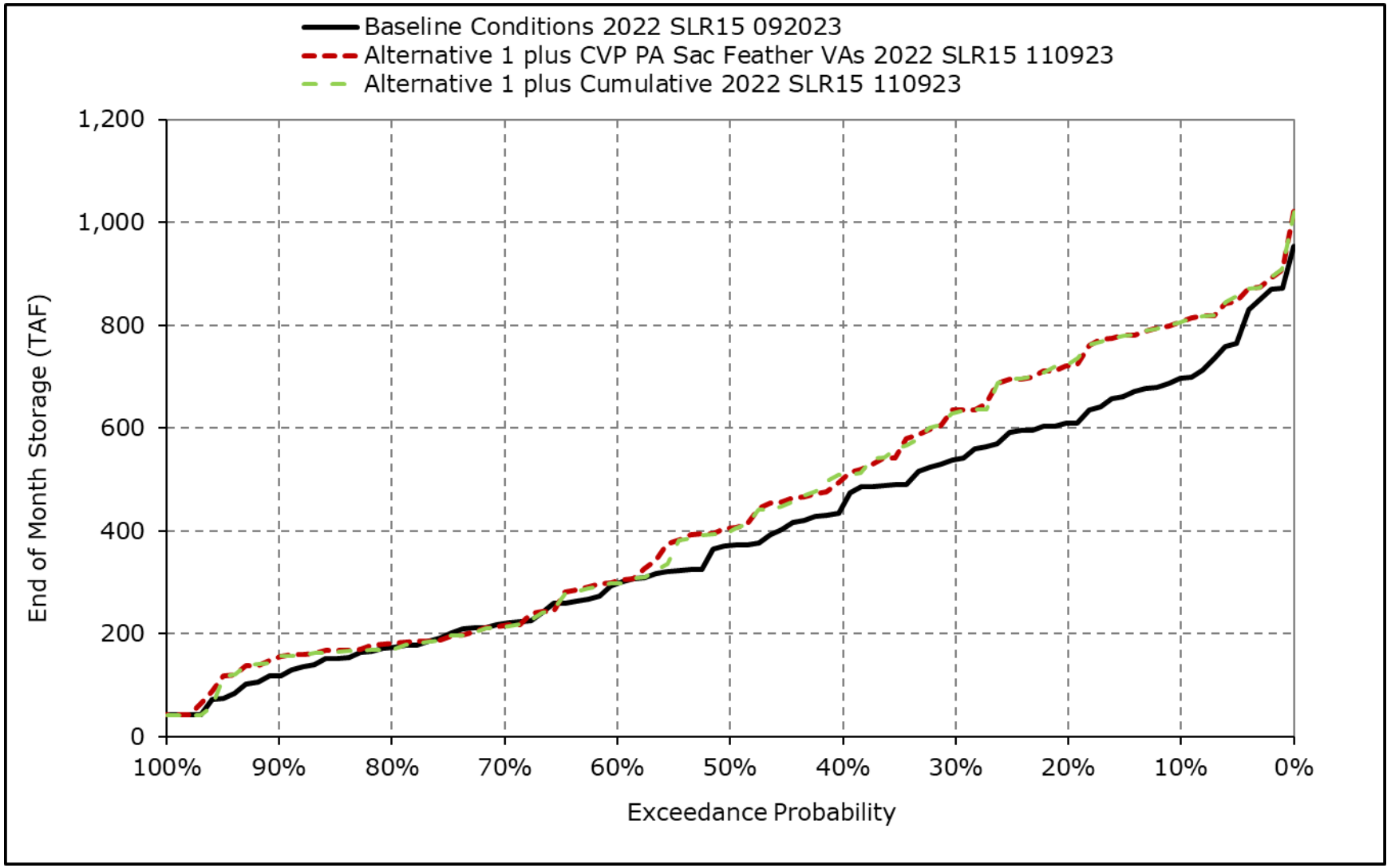
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1j. San Luis SWP Storage, July



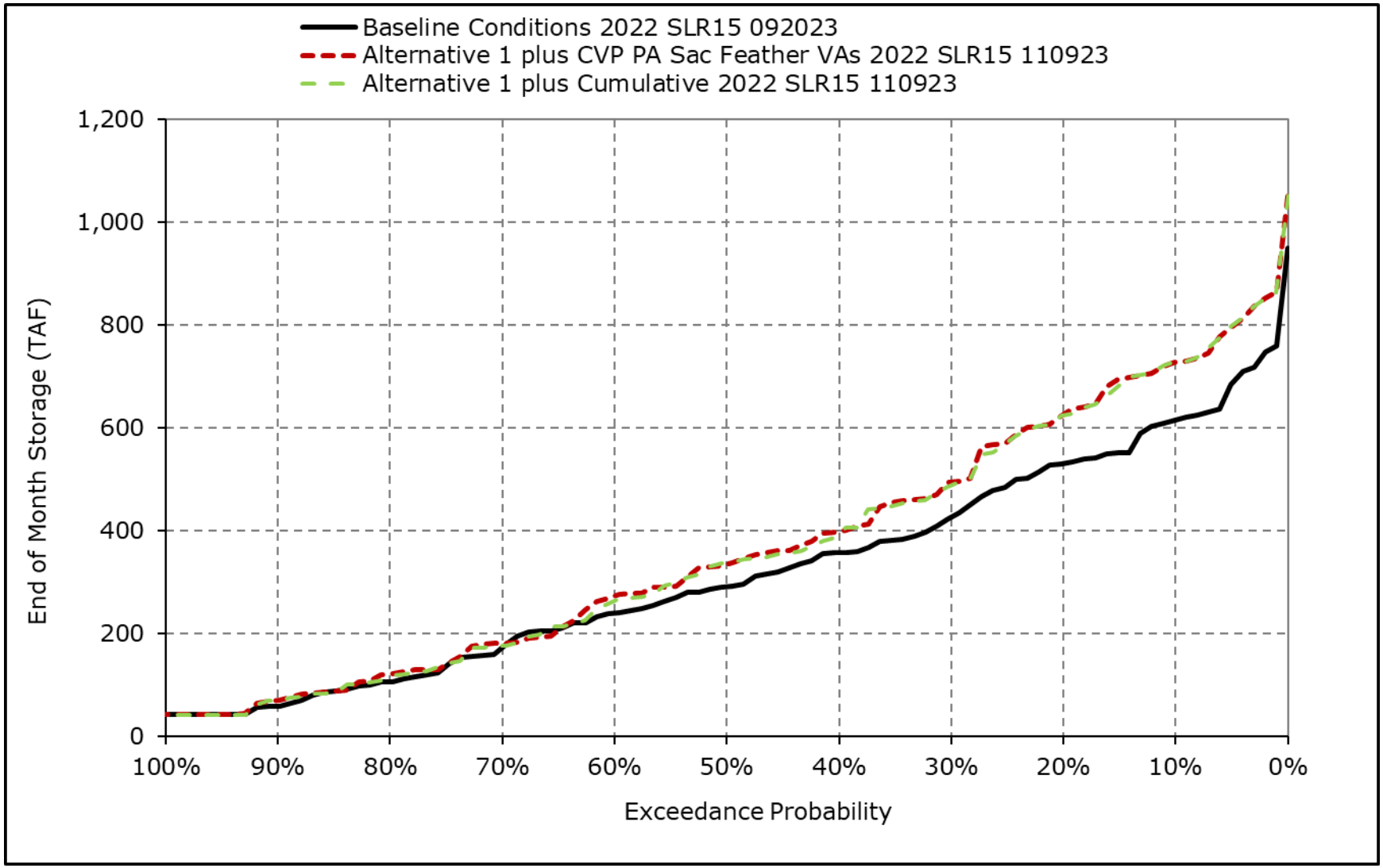
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1k. San Luis SWP Storage, August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-1l. San Luis SWP Storage, September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table 4H-1-2-1a. San Luis Storage (CVP and SWP), Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	846	1,110	1,469	1,684	1,996	2,039	2,025	1,896	1,514	1,166	865	803
20% Exceedance	612	910	1,181	1,418	1,667	1,957	1,848	1,605	1,189	901	709	584
30% Exceedance	478	776	1,055	1,271	1,447	1,714	1,606	1,371	972	780	606	524
40% Exceedance	420	669	929	1,074	1,377	1,470	1,398	1,133	831	637	510	446
50% Exceedance	365	539	792	1,028	1,208	1,354	1,220	941	726	523	414	388
60% Exceedance	322	415	706	966	1,149	1,279	1,103	900	602	461	363	345
70% Exceedance	268	334	576	902	1,067	1,159	1,052	736	507	436	307	295
80% Exceedance	191	271	494	719	956	1,067	891	643	391	372	258	217
90% Exceedance	127	173	363	594	760	827	735	479	286	286	189	179
Full Simulation Period Average[a]	438	602	852	1,080	1,280	1,421	1,308	1,093	810	641	500	452
Wet Water Years (28%)	536	775	1,072	1,375	1,633	1,799	1,791	1,637	1,295	1,015	832	744
Above Normal Water Years (14%)	444	649	922	1,195	1,444	1,570	1,427	1,172	788	599	561	422
Below Normal Water Years (18%)	534	719	956	1,108	1,237	1,370	1,167	843	523	455	387	384
Dry Water Years (24%)	338	460	674	875	1,049	1,210	1,042	792	586	494	311	311
Critical Water Years (16%)	301	342	556	737	913	1,002	918	805	639	451	276	256

Table 4H-1-2-1b. San Luis Storage (CVP and SWP), Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	979	1,199	1,546	1,786	1,995	2,039	2,039	2,003	1,649	1,222	984	1,007
20% Exceedance	691	961	1,255	1,413	1,664	2,033	1,940	1,830	1,362	1,046	834	699
30% Exceedance	561	866	1,114	1,314	1,467	1,653	1,633	1,555	1,166	859	705	608
40% Exceedance	476	705	989	1,135	1,392	1,472	1,403	1,326	982	742	589	516
50% Exceedance	426	580	860	1,087	1,292	1,330	1,290	1,119	798	596	495	459
60% Exceedance	368	490	767	1,008	1,205	1,263	1,151	1,008	738	542	417	381
70% Exceedance	310	383	653	926	1,106	1,107	1,046	917	663	508	325	327
80% Exceedance	254	330	533	776	923	1,042	974	817	545	455	275	267
90% Exceedance	174	218	399	568	773	892	824	681	389	372	249	208
Full Simulation Period Average[a]	503	666	918	1,118	1,312	1,412	1,359	1,250	937	729	566	521
Wet Water Years (28%)	633	862	1,156	1,431	1,680	1,836	1,830	1,761	1,400	1,108	934	854
Above Normal Water Years (14%)	482	693	976	1,216	1,452	1,525	1,446	1,281	863	662	618	489
Below Normal Water Years (18%)	607	787	1,020	1,142	1,252	1,298	1,221	1,071	733	595	481	477
Dry Water Years (24%)	383	508	723	905	1,072	1,180	1,095	970	722	570	344	340
Critical Water Years (16%)	353	403	628	776	972	1,049	1,008	949	747	515	306	289

Table 4H-1-2-1c. San Luis Storage (CVP and SWP), Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	133	89	77	102	-1	0	14	107	135	56	119	205
20% Exceedance	79	51	74	-4	-3	76	92	225	173	145	125	115
30% Exceedance	82	90	59	43	21	-61	26	184	194	78	98	84
40% Exceedance	56	36	59	62	14	2	5	194	152	106	78	69
50% Exceedance	61	41	68	58	83	-24	70	178	73	72	82	71
60% Exceedance	46	75	61	42	56	-16	48	108	136	81	54	36
70% Exceedance	41	49	78	24	38	-51	-6	181	156	72	18	32
80% Exceedance	63	59	38	57	-33	-25	83	174	154	83	17	51
90% Exceedance	47	45	36	-27	13	66	90	202	103	86	60	28
Full Simulation Period Average[a]	65	64	66	38	32	-9	50	157	128	88	66	69
Wet Water Years (28%)	98	87	84	55	47	37	39	123	105	93	102	110
Above Normal Water Years (14%)	39	44	54	21	8	-45	19	109	75	62	57	67
Below Normal Water Years (18%)	73	68	64	34	15	-72	54	228	210	140	94	93
Dry Water Years (24%)	45	48	48	31	23	-30	52	178	136	75	32	30
Critical Water Years (16%)	52	61	73	38	59	47	90	144	107	64	30	32

[a] Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Table 4H-1-2-2a. San Luis Storage (CVP and SWP), Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	846	1,110	1,469	1,684	1,996	2,039	2,025	1,896	1,514	1,166	865	803
20% Exceedance	612	910	1,181	1,418	1,667	1,957	1,848	1,605	1,189	901	709	584
30% Exceedance	478	776	1,055	1,271	1,447	1,714	1,606	1,371	972	780	606	524
40% Exceedance	420	669	929	1,074	1,377	1,470	1,398	1,133	831	637	510	446
50% Exceedance	365	539	792	1,028	1,208	1,354	1,220	941	726	523	414	388
60% Exceedance	322	415	706	966	1,149	1,279	1,103	900	602	461	363	345
70% Exceedance	268	334	576	902	1,067	1,159	1,052	736	507	436	307	295
80% Exceedance	191	271	494	719	956	1,067	891	643	391	372	258	217
90% Exceedance	127	173	363	594	760	827	735	479	286	286	189	179
Full Simulation Period Average[a]	438	602	852	1,080	1,280	1,421	1,308	1,093	810	641	500	452
Wet Water Years (28%)	536	775	1,072	1,375	1,633	1,799	1,791	1,637	1,295	1,015	832	744
Above Normal Water Years (14%)	444	649	922	1,195	1,444	1,570	1,427	1,172	788	599	561	422
Below Normal Water Years (18%)	534	719	956	1,108	1,237	1,370	1,167	843	523	455	387	384
Dry Water Years (24%)	338	460	674	875	1,049	1,210	1,042	792	586	494	311	311
Critical Water Years (16%)	301	342	556	737	913	1,002	918	805	639	451	276	256

Table 4H-1-2-2b. San Luis Storage (CVP and SWP), Alternative 1 plus Cumulative 2022 SLR15 110923, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	988	1,208	1,547	1,812	2,003	2,039	2,039	2,003	1,649	1,223	984	1,009
20% Exceedance	693	960	1,278	1,419	1,647	2,024	1,941	1,828	1,381	1,066	833	695
30% Exceedance	569	850	1,116	1,277	1,470	1,627	1,634	1,574	1,168	859	706	599
40% Exceedance	476	715	986	1,145	1,395	1,463	1,396	1,294	969	726	581	529
50% Exceedance	422	568	868	1,094	1,292	1,351	1,304	1,127	816	592	484	452
60% Exceedance	369	489	768	1,020	1,212	1,260	1,155	1,014	739	542	407	383
70% Exceedance	315	395	665	940	1,115	1,126	1,069	911	655	506	321	318
80% Exceedance	237	321	553	767	973	1,032	962	811	540	455	270	267
90% Exceedance	174	223	388	569	778	873	807	650	367	353	246	199
Full Simulation Period Average[a]	503	668	920	1,120	1,311	1,412	1,358	1,248	937	726	564	519
Wet Water Years (28%)	629	857	1,154	1,427	1,676	1,832	1,826	1,757	1,398	1,107	934	853
Above Normal Water Years (14%)	491	707	989	1,231	1,461	1,535	1,455	1,289	870	666	617	482
Below Normal Water Years (18%)	607	785	1,019	1,140	1,249	1,294	1,218	1,068	732	592	479	477
Dry Water Years (24%)	383	509	723	906	1,066	1,174	1,087	961	716	557	337	336
Critical Water Years (16%)	359	410	636	784	978	1,056	1,016	957	753	519	309	291

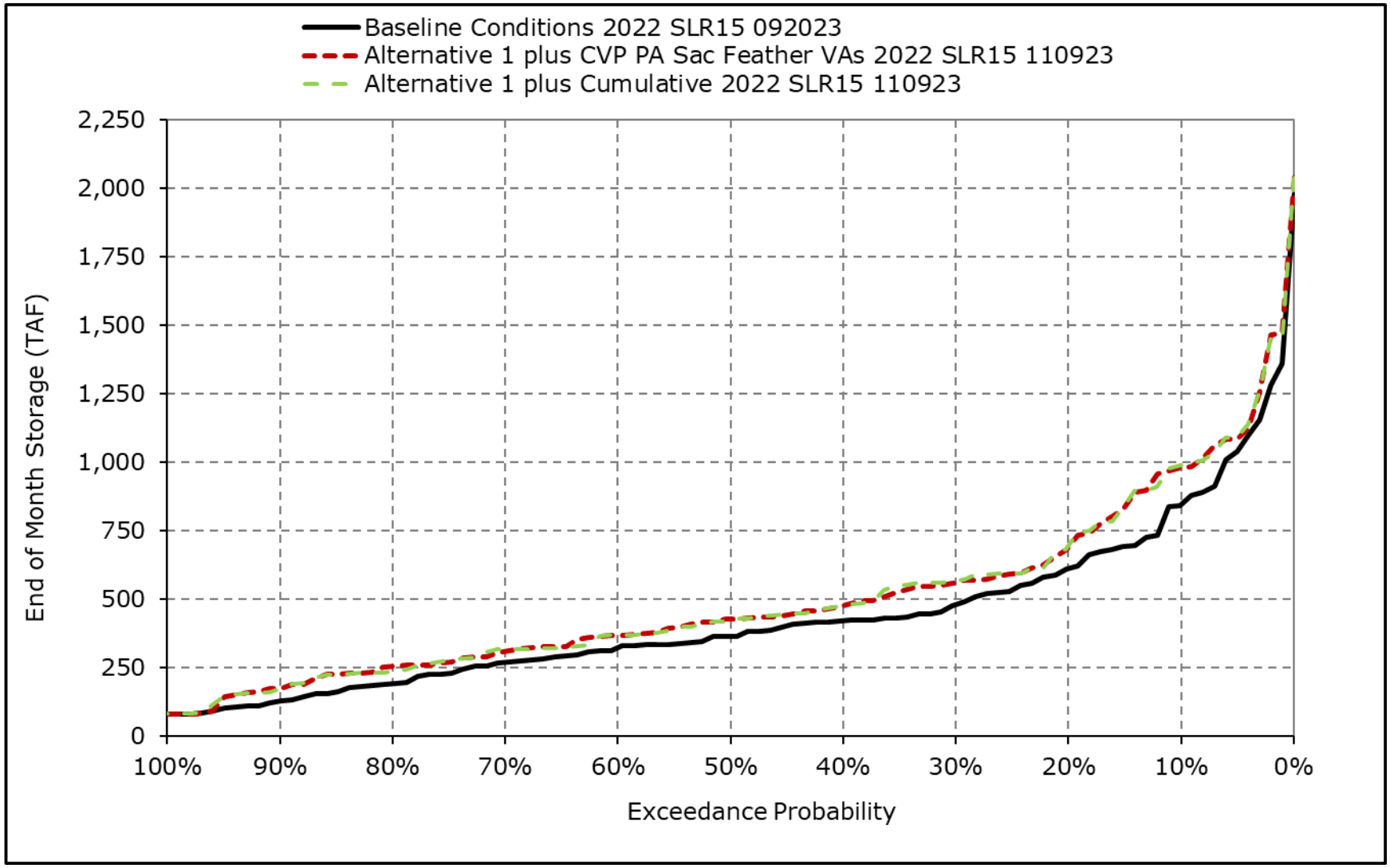
Table 4H-1-2-2c. San Luis Storage (CVP and SWP), Alternative 1 plus Cumulative 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Storage (TAF)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	142	98	78	129	7	0	14	107	135	57	119	206
20% Exceedance	81	50	97	1	-20	68	93	222	192	166	124	111
30% Exceedance	91	74	61	6	23	-88	28	203	196	79	100	75
40% Exceedance	56	46	56	71	18	-8	-3	161	138	90	70	82
50% Exceedance	57	29	76	66	84	-3	83	185	90	69	70	63
60% Exceedance	47	74	62	54	63	-20	53	114	138	80	44	38
70% Exceedance	47	61	90	38	48	-33	17	175	148	70	13	23
80% Exceedance	46	50	59	48	17	-36	71	167	149	83	12	50
90% Exceedance	47	50	25	-25	18	46	72	171	81	67	58	20
Full Simulation Period Average[a]	66	66	68	40	31	-9	49	155	127	86	64	67
Wet Water Years (28%)	93	83	81	52	43	33	35	120	103	92	102	110
Above Normal Water Years (14%)	47	57	67	36	17	-35	28	117	82	67	56	60
Below Normal Water Years (18%)	73	66	63	32	12	-76	50	225	209	137	92	93
Dry Water Years (24%)	45	48	49	32	17	-36	45	170	130	62	26	25
Critical Water Years (16%)	58	68	80	47	65	54	98	152	113	69	33	35

[a] Based on the 100-year simulation period.

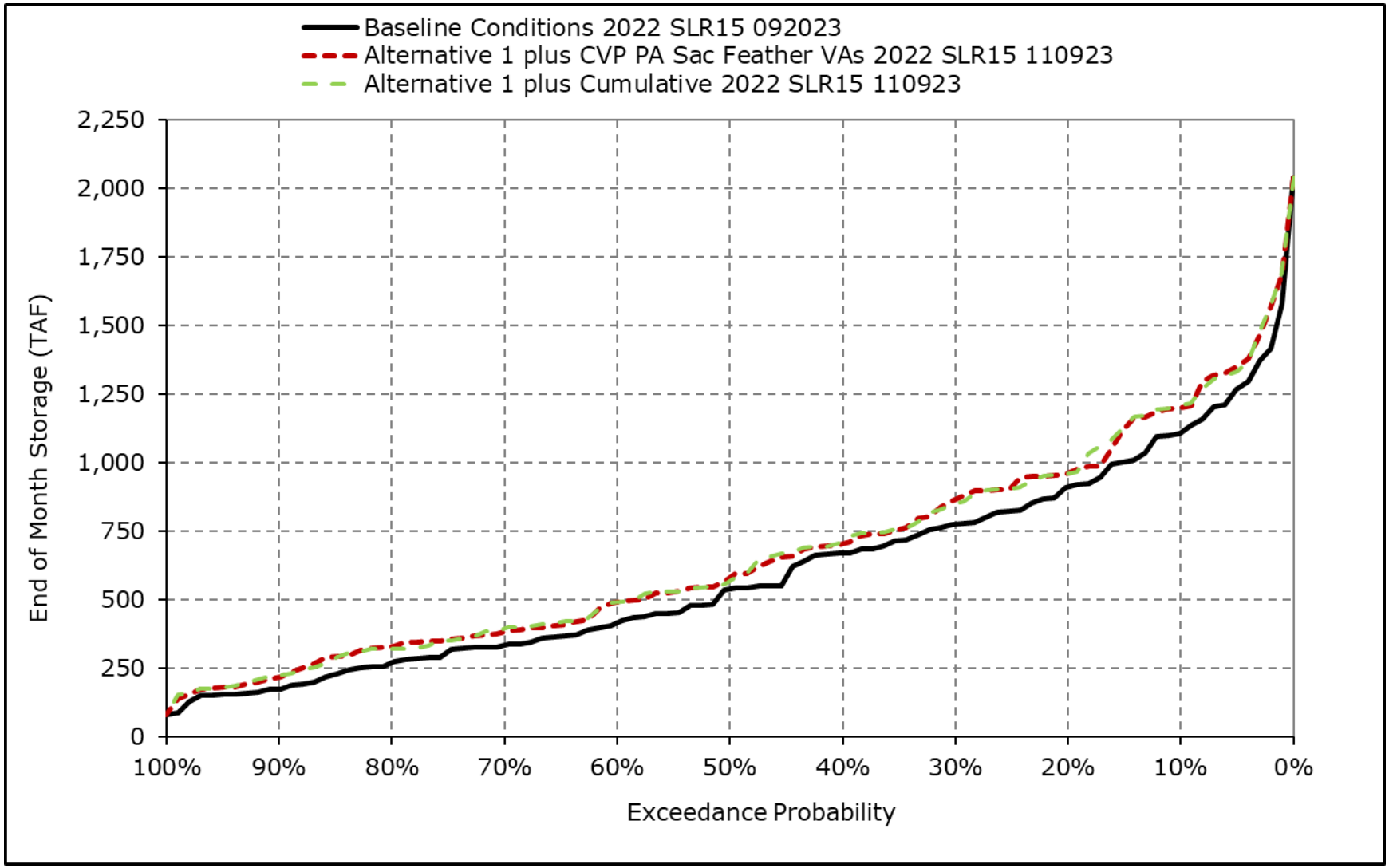
* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Figure 4H-1-2a. San Luis Storage (CVP and SWP), October



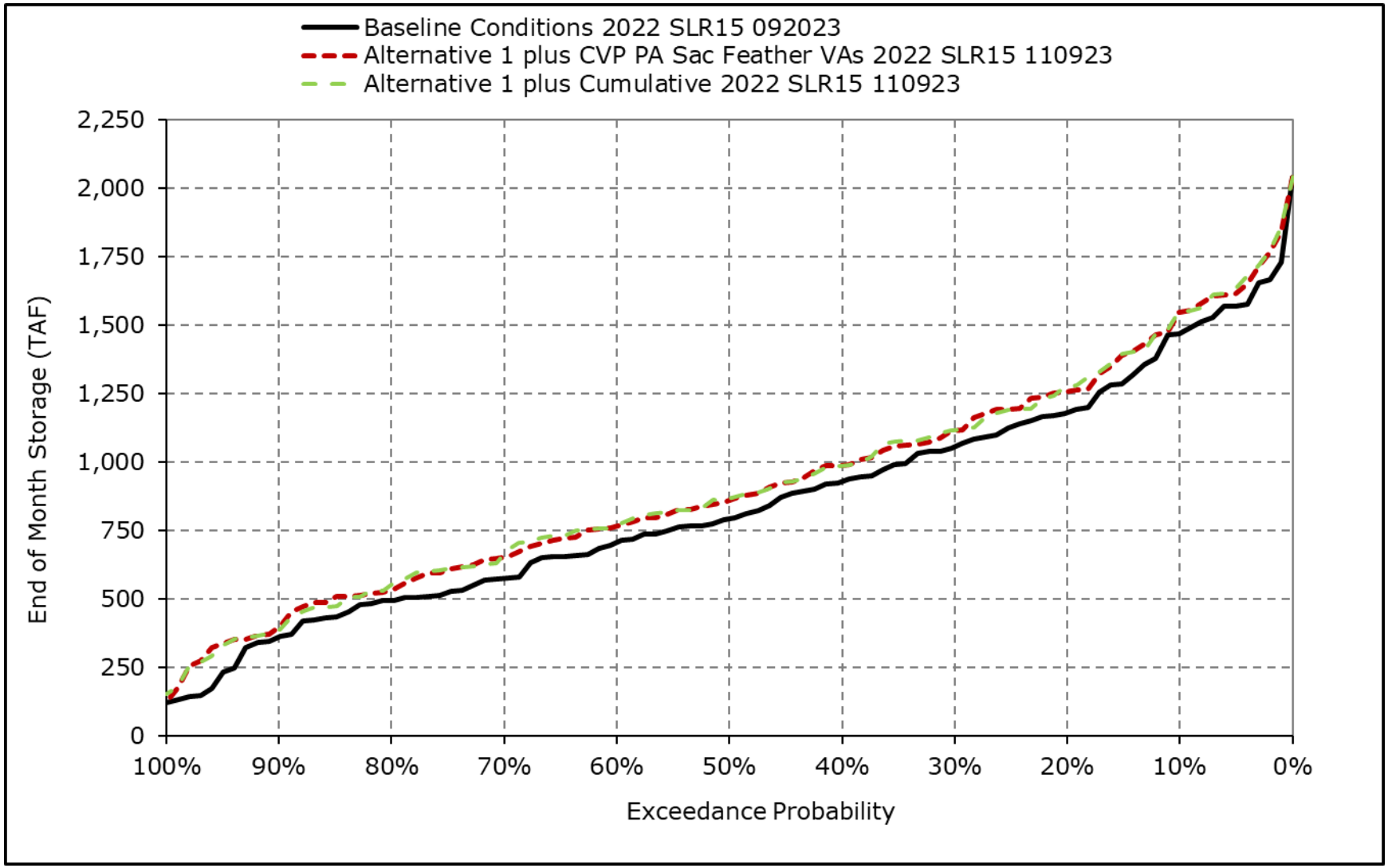
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2b. San Luis Storage (CVP and SWP), November



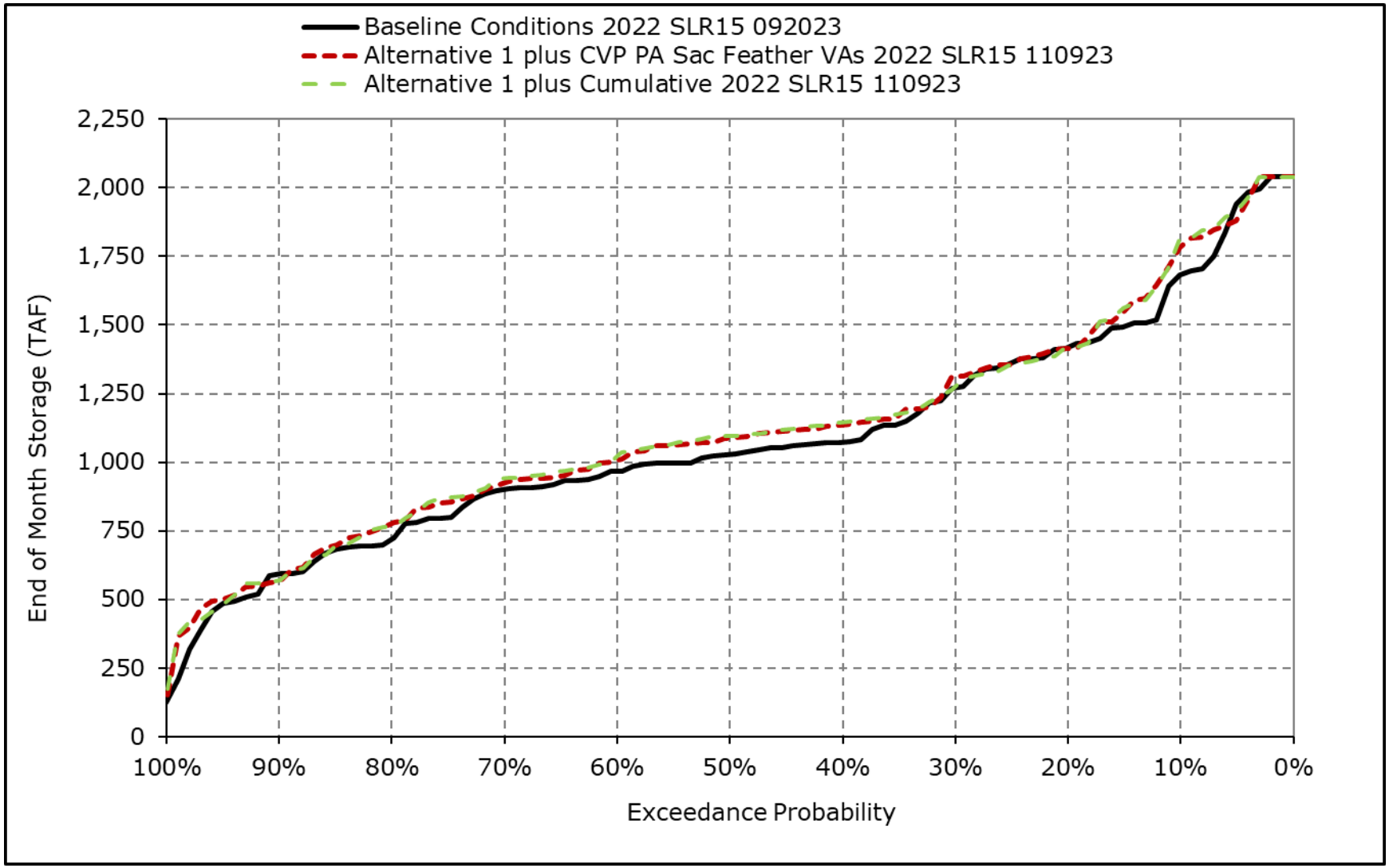
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2c. San Luis Storage (CVP and SWP), December



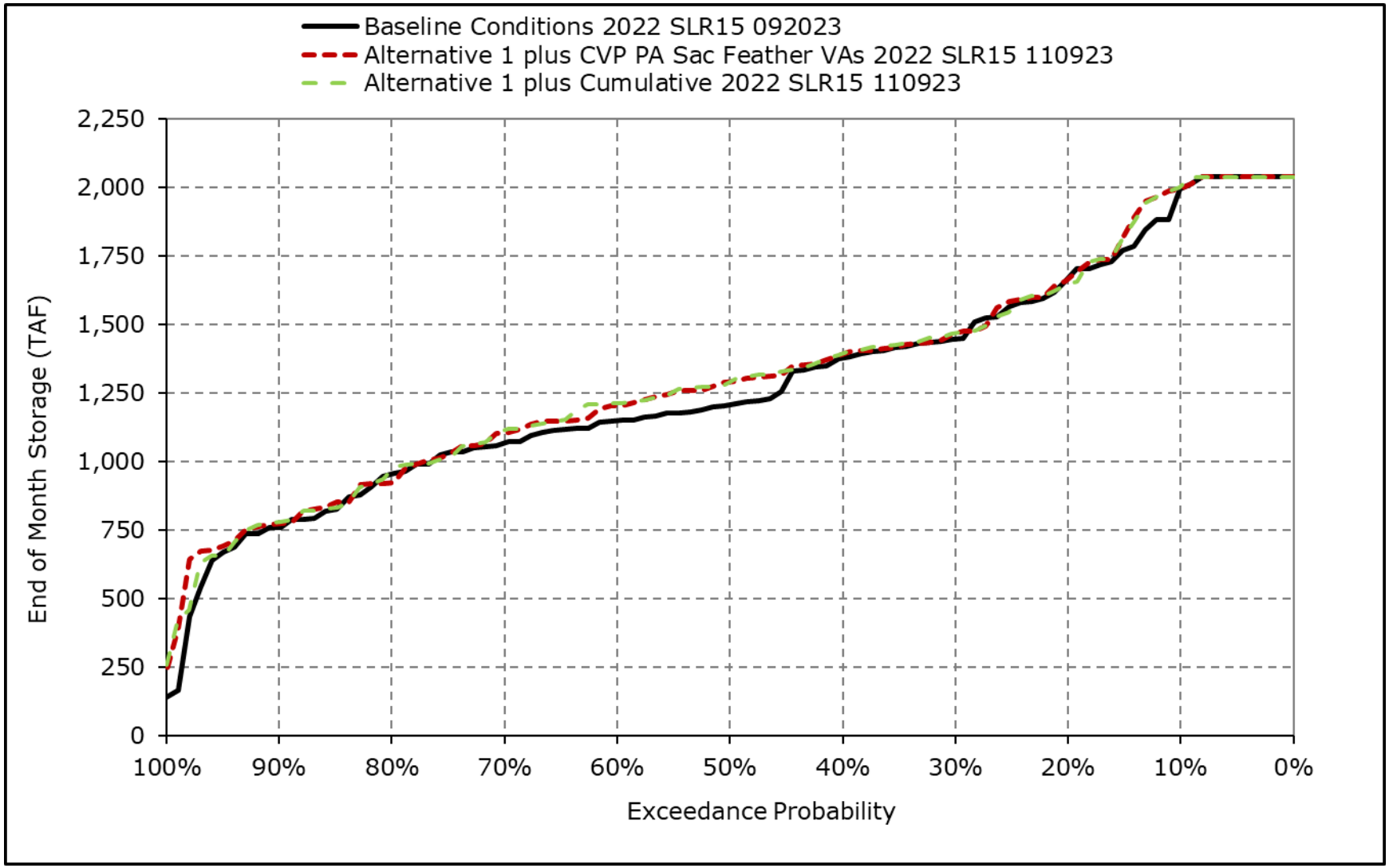
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2d. San Luis Storage (CVP and SWP), January



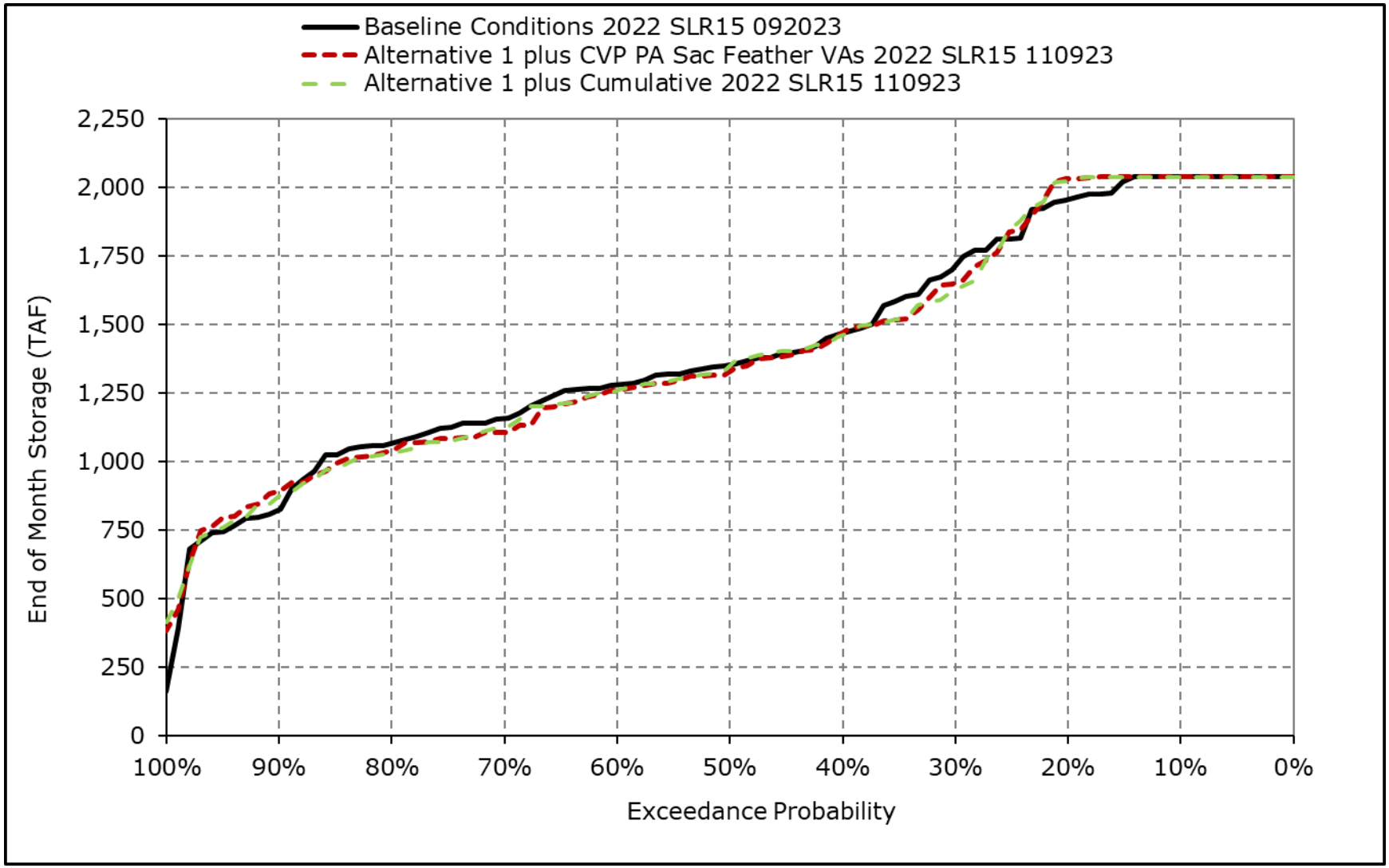
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2e. San Luis Storage (CVP and SWP), February



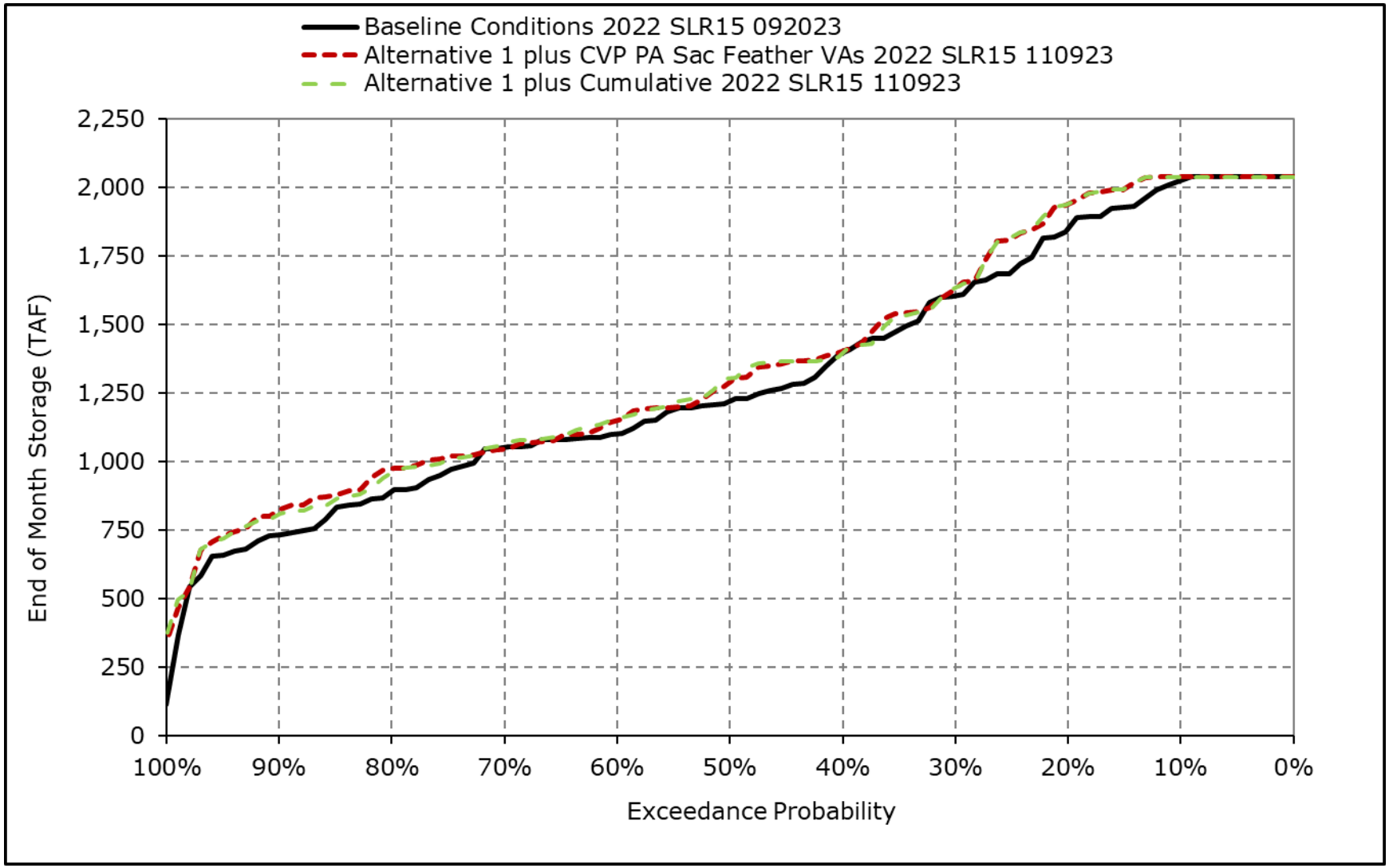
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2f. San Luis Storage (CVP and SWP), March



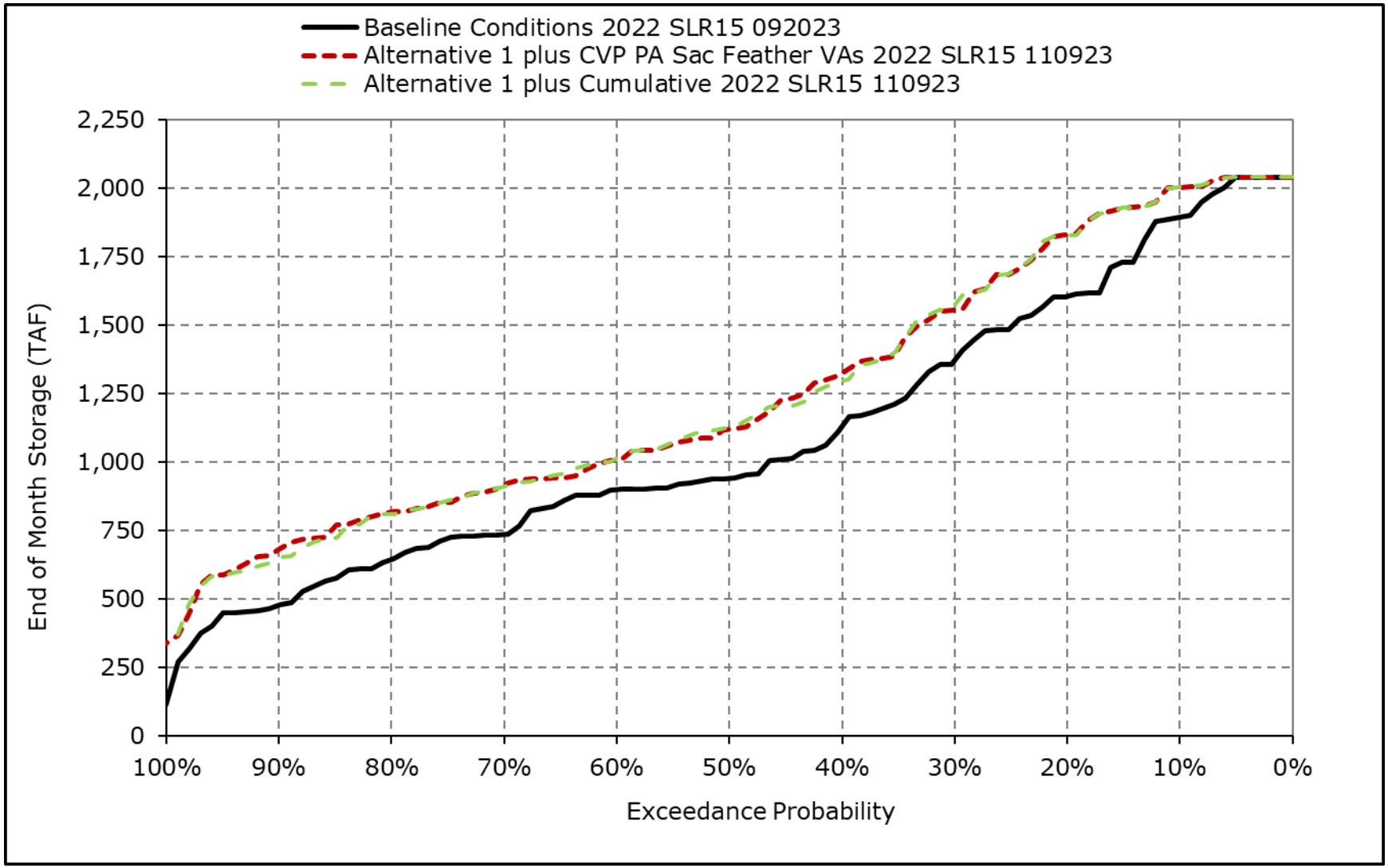
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2g. San Luis Storage (CVP and SWP), April



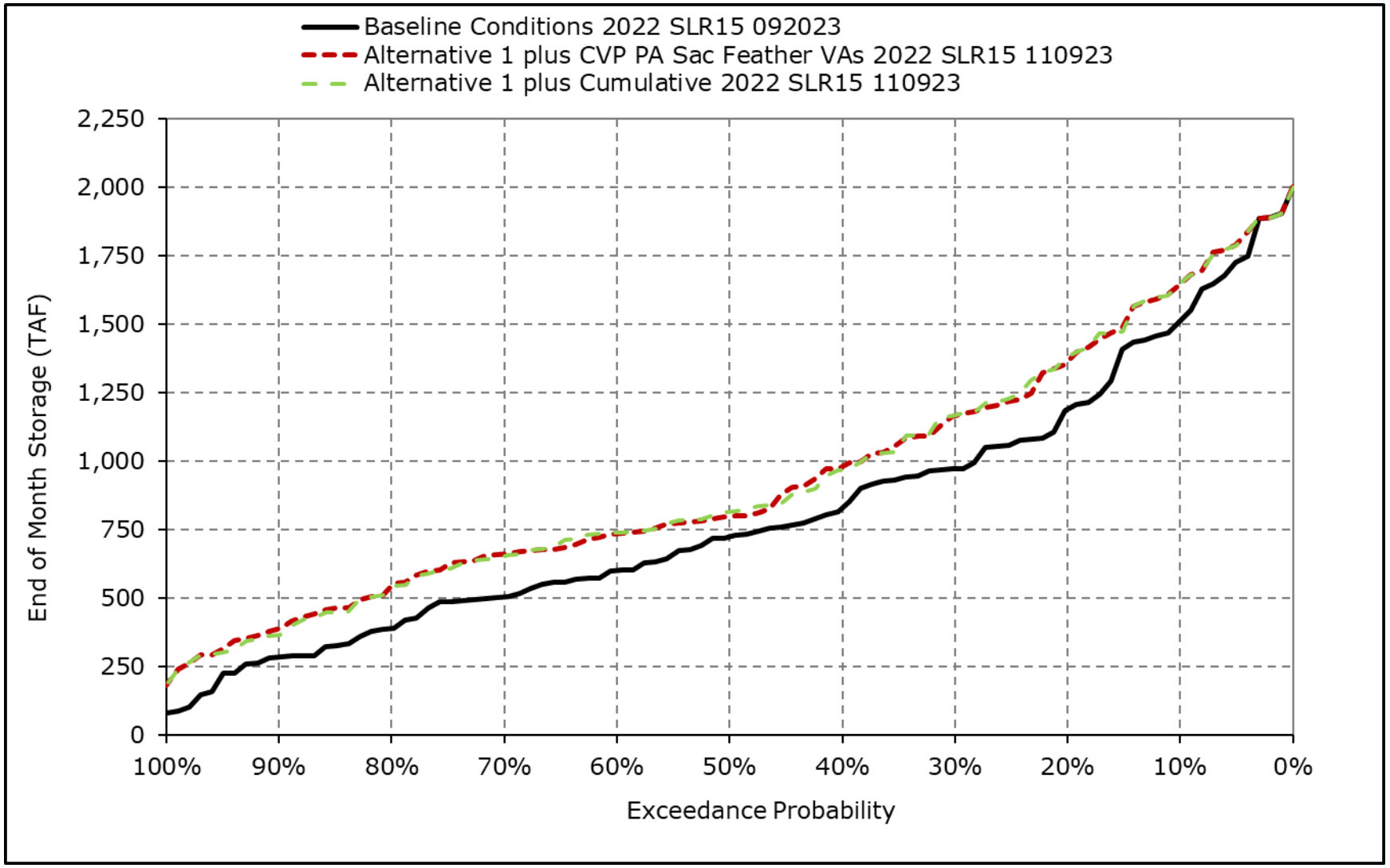
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2h. San Luis Storage (CVP and SWP), May



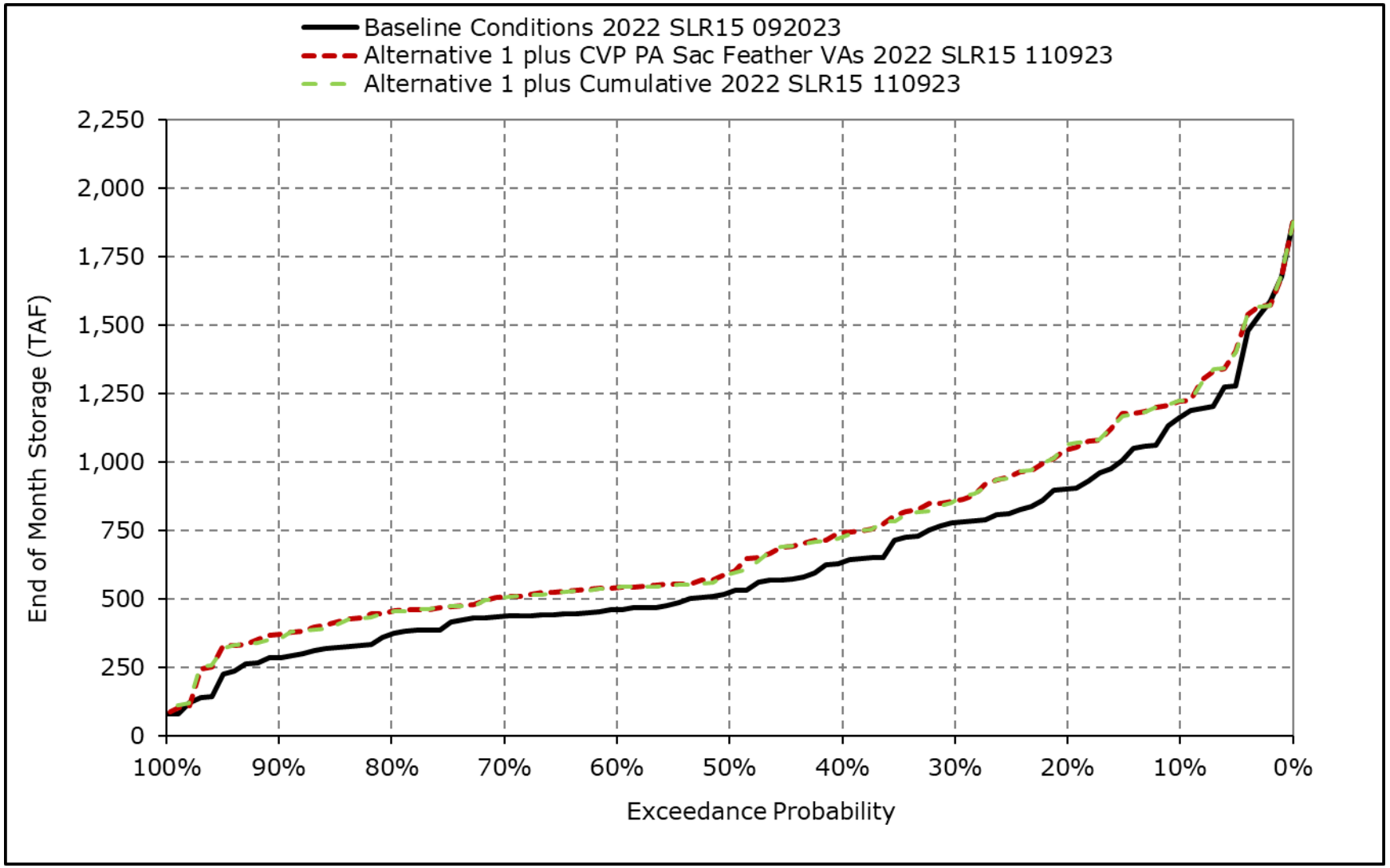
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2i. San Luis Storage (CVP and SWP), June



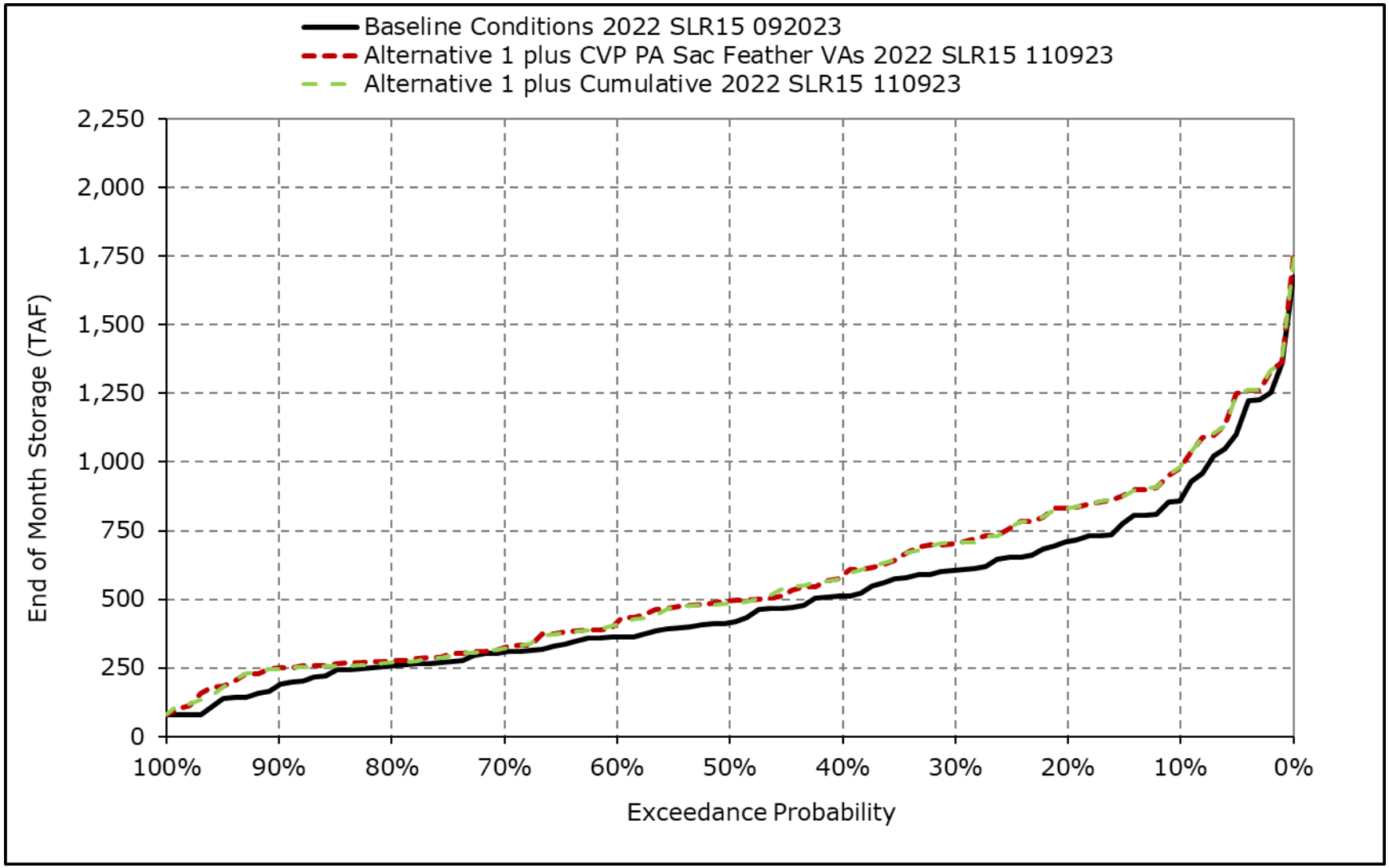
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2j. San Luis Storage (CVP and SWP), July



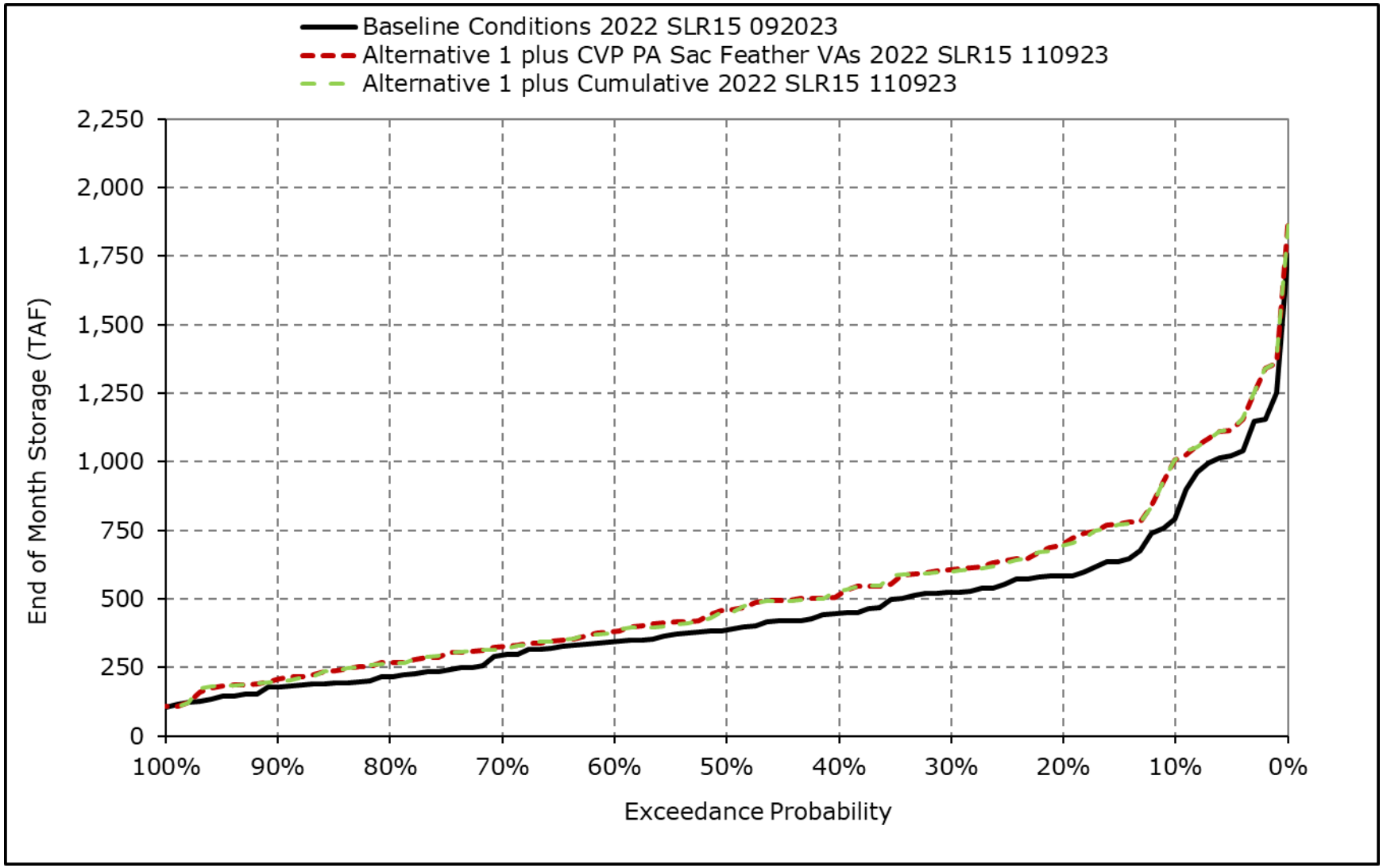
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2k. San Luis Storage (CVP and SWP), August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-2l. San Luis Storage (CVP and SWP), September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Table 4H-1-3-1a. San Luis Reservoir (SWP and CVP), Baseline Conditions 2022 SLR15 092023, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	437	463	496	515	540	544	543	532	500	468	439	432
20% Exceedance	410	443	470	492	514	537	529	508	471	442	422	407
30% Exceedance	394	429	458	478	495	518	508	488	450	430	410	400
40% Exceedance	386	417	445	460	488	497	490	465	435	413	398	389
50% Exceedance	378	402	431	455	472	486	474	447	424	400	385	381
60% Exceedance	372	385	421	449	467	479	462	442	409	392	378	375
70% Exceedance	363	374	406	443	459	468	458	425	398	388	370	368
80% Exceedance	348	364	396	423	448	459	441	414	382	379	361	353
90% Exceedance	335	344	378	408	428	435	425	394	366	366	347	346
Full Simulation Period Average[a]	383	404	433	457	477	490	479	458	427	410	392	386
Wet Water Years (28%)	394	423	457	486	509	524	523	509	478	452	434	423
Above Normal Water Years (14%)	386	410	441	470	493	504	491	466	427	405	403	385
Below Normal Water Years (18%)	396	419	444	462	475	487	468	434	394	387	377	377
Dry Water Years (24%)	372	388	414	438	456	472	455	429	404	394	368	368
Critical Water Years (16%)	365	371	400	421	439	449	441	429	412	389	364	359

Table 4H-1-3-1b. San Luis Reservoir (SWP and CVP), Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	451	472	503	523	540	544	544	541	512	474	451	454
20% Exceedance	420	449	477	492	513	543	536	527	487	457	435	421
30% Exceedance	404	439	464	482	496	512	511	504	468	438	421	410
40% Exceedance	393	421	452	466	490	497	491	484	451	426	408	399
50% Exceedance	387	407	438	461	480	484	480	464	432	408	396	391
60% Exceedance	379	395	428	454	472	478	467	454	425	402	385	380
70% Exceedance	371	381	415	445	463	463	457	444	416	398	373	373
80% Exceedance	360	373	401	429	445	457	450	434	403	391	364	363
90% Exceedance	345	353	383	405	429	442	434	419	381	379	359	351
Full Simulation Period Average[a]	392	412	441	461	480	489	484	474	442	420	401	395
Wet Water Years (28%)	406	433	465	491	514	527	526	520	488	461	444	435
Above Normal Water Years (14%)	391	416	447	471	493	500	493	477	436	414	410	394
Below Normal Water Years (18%)	405	426	452	465	476	480	472	457	420	404	390	390
Dry Water Years (24%)	378	395	421	442	459	469	461	448	421	404	373	373
Critical Water Years (16%)	373	380	409	426	447	455	451	446	424	398	368	364

Table 4H-1-3-1c. San Luis Reservoir (SWP and CVP), Alternative 1 plus CVP PA Sac Feather VAs 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	14	8	7	8	0	0	1	9	12	5	12	21
20% Exceedance	9	5	7	0	0	6	7	19	16	15	14	13
30% Exceedance	11	9	6	4	2	-5	2	16	19	8	12	10
40% Exceedance	8	4	6	6	1	0	0	18	16	12	9	9
50% Exceedance	8	5	7	6	8	-2	7	17	8	9	11	10
60% Exceedance	6	10	7	4	5	-2	5	11	16	11	7	5
70% Exceedance	7	7	9	3	4	-5	-1	19	19	10	2	5
80% Exceedance	12	10	5	6	-3	-2	9	20	21	11	3	10
90% Exceedance	9	9	5	-3	1	7	10	25	15	13	12	6
Full Simulation Period Average[a]	9	8	7	4	3	-1	5	16	15	11	9	9
Wet Water Years (28%)	13	10	8	5	4	3	3	11	10	10	11	12
Above Normal Water Years (14%)	6	6	6	2	1	-4	2	11	9	9	7	9
Below Normal Water Years (18%)	9	8	7	3	1	-7	5	23	26	17	13	13
Dry Water Years (24%)	7	7	7	4	3	-3	5	19	17	10	6	5
Critical Water Years (16%)	8	9	9	4	7	6	10	16	13	9	5	5

[a] Based on the 100-year simulation period.

* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Table 4H-1-3-2a. San Luis Reservoir (SWP and CVP), Baseline Conditions 2022 SLR15 092023, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	437	463	496	515	540	544	543	532	500	468	439	432
20% Exceedance	410	443	470	492	514	537	529	508	471	442	422	407
30% Exceedance	394	429	458	478	495	518	508	488	450	430	410	400
40% Exceedance	386	417	445	460	488	497	490	465	435	413	398	389
50% Exceedance	378	402	431	455	472	486	474	447	424	400	385	381
60% Exceedance	372	385	421	449	467	479	462	442	409	392	378	375
70% Exceedance	363	374	406	443	459	468	458	425	398	388	370	368
80% Exceedance	348	364	396	423	448	459	441	414	382	379	361	353
90% Exceedance	335	344	378	408	428	435	425	394	366	366	347	346
Full Simulation Period Average[a]	383	404	433	457	477	490	479	458	427	410	392	386
Wet Water Years (28%)	394	423	457	486	509	524	523	509	478	452	434	423
Above Normal Water Years (14%)	386	410	441	470	493	504	491	466	427	405	403	385
Below Normal Water Years (18%)	396	419	444	462	475	487	468	434	394	387	377	377
Dry Water Years (24%)	372	388	414	438	456	472	455	429	404	394	368	368
Critical Water Years (16%)	365	371	400	421	439	449	441	429	412	389	364	359

Table 4H-1-3-2b. San Luis Reservoir (SWP and CVP), Alternative 1 plus Cumulative 2022 SLR15 110923, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	452	472	503	526	541	544	544	541	512	474	451	454
20% Exceedance	420	449	479	492	512	543	536	527	489	459	435	420
30% Exceedance	405	437	464	479	497	510	511	506	469	438	421	409
40% Exceedance	394	423	451	466	490	496	490	481	450	424	407	401
50% Exceedance	386	405	439	462	480	486	481	465	433	408	395	390
60% Exceedance	379	395	428	455	473	477	467	454	425	402	384	381
70% Exceedance	371	382	417	446	464	465	459	443	415	398	372	372
80% Exceedance	357	372	404	428	450	456	449	433	402	391	363	363
90% Exceedance	345	354	381	405	430	439	433	415	378	377	359	350
Full Simulation Period Average[a]	392	412	441	462	480	489	484	473	442	420	400	395
Wet Water Years (28%)	406	433	465	491	513	526	526	520	488	461	444	435
Above Normal Water Years (14%)	392	417	448	473	494	501	493	478	436	414	410	393
Below Normal Water Years (18%)	405	426	452	465	476	480	472	457	420	404	389	390
Dry Water Years (24%)	378	395	421	442	458	468	460	447	420	402	372	372
Critical Water Years (16%)	374	381	410	427	447	456	452	446	425	398	369	365

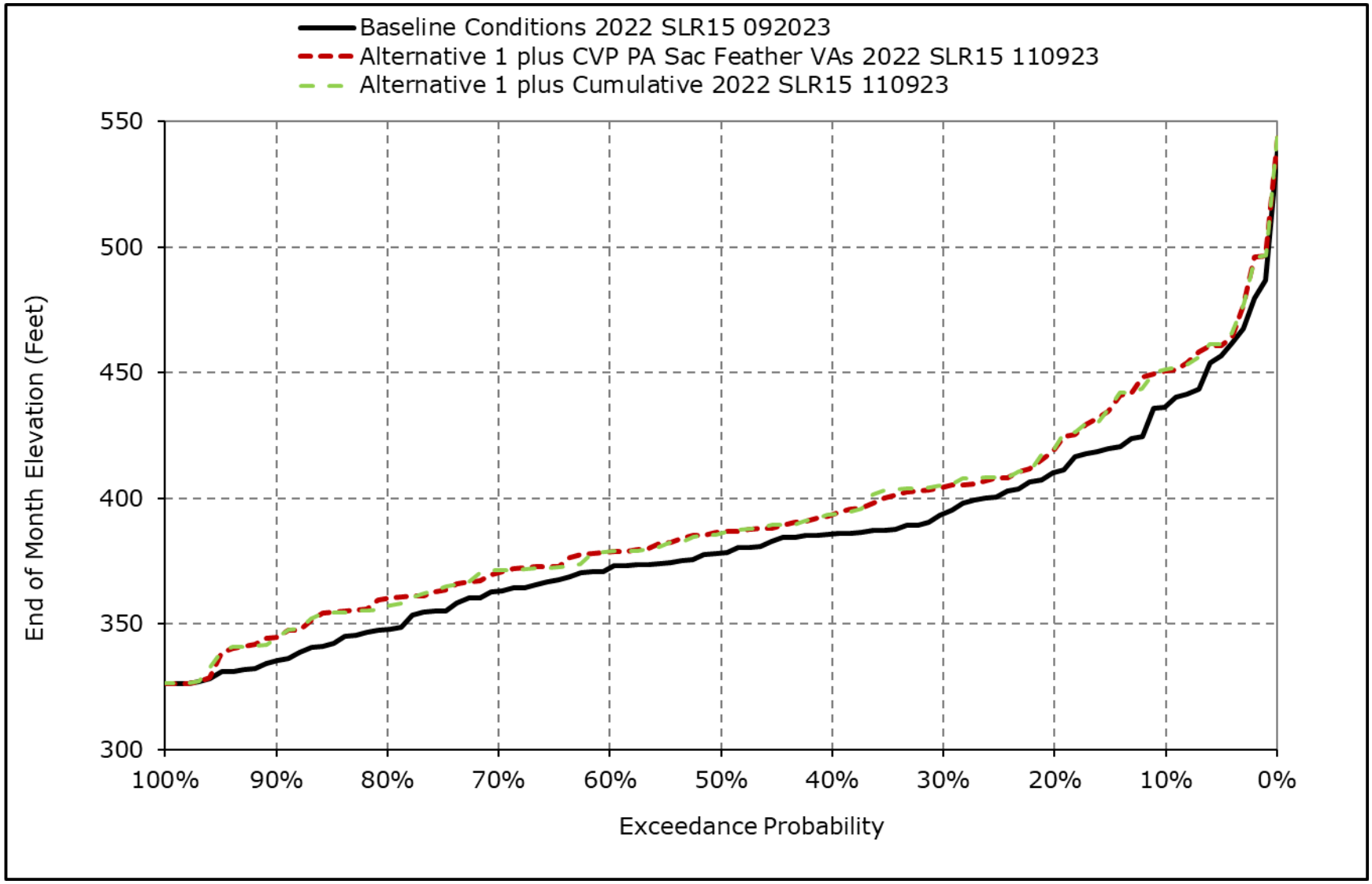
Table 4H-1-3-2c. San Luis Reservoir (SWP and CVP), Alternative 1 plus Cumulative 2022 SLR15 110923 minus Baseline Conditions 2022 SLR15 092023, End of Month Elevation (Feet)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	15	9	7	11	1	0	1	9	12	5	12	22
20% Exceedance	9	5	9	0	-2	5	7	19	18	17	13	13
30% Exceedance	11	8	6	1	2	-8	2	18	19	8	12	9
40% Exceedance	8	5	6	7	2	-1	0	15	15	11	8	11
50% Exceedance	8	3	8	6	8	0	8	18	10	8	10	9
60% Exceedance	7	10	7	5	6	-2	5	12	16	11	6	5
70% Exceedance	8	8	11	4	5	-3	2	19	18	10	2	3
80% Exceedance	9	9	7	5	2	-3	7	19	20	11	2	10
90% Exceedance	9	10	3	-3	2	5	8	21	12	10	11	4
Full Simulation Period Average[a]	9	8	8	4	3	-1	5	16	15	10	8	9
Wet Water Years (28%)	12	9	8	5	4	3	3	10	10	9	11	12
Above Normal Water Years (14%)	7	7	7	3	2	-3	3	11	10	9	7	8
Below Normal Water Years (18%)	9	7	7	3	1	-7	4	23	26	17	12	13
Dry Water Years (24%)	6	7	6	4	2	-3	5	18	16	8	5	4
Critical Water Years (16%)	9	10	10	5	8	7	11	17	14	9	5	6

[a] Based on the 100-year simulation period.

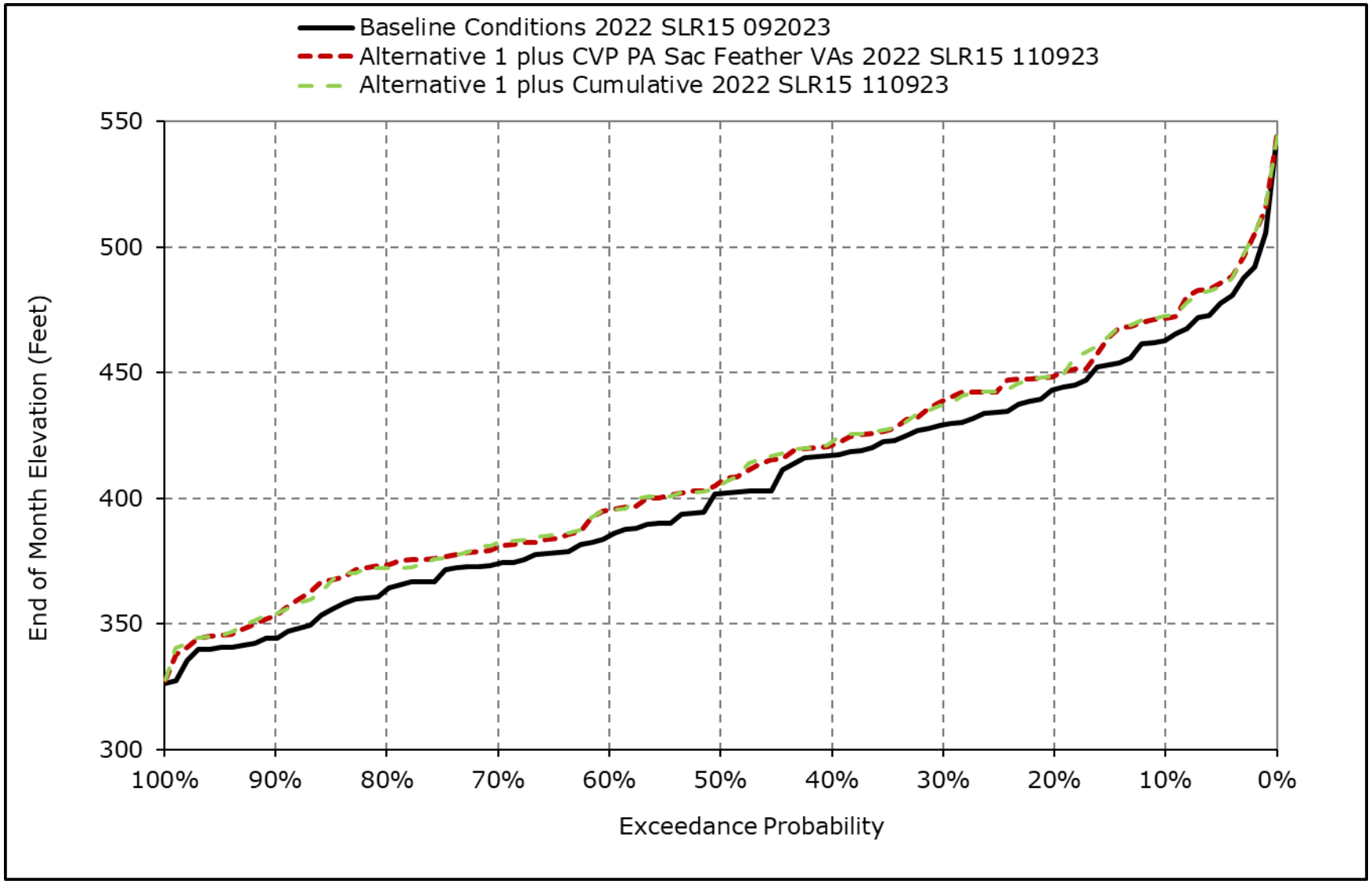
* All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Figure 4H-1-3a. San Luis Reservoir (SWP and CVP), October



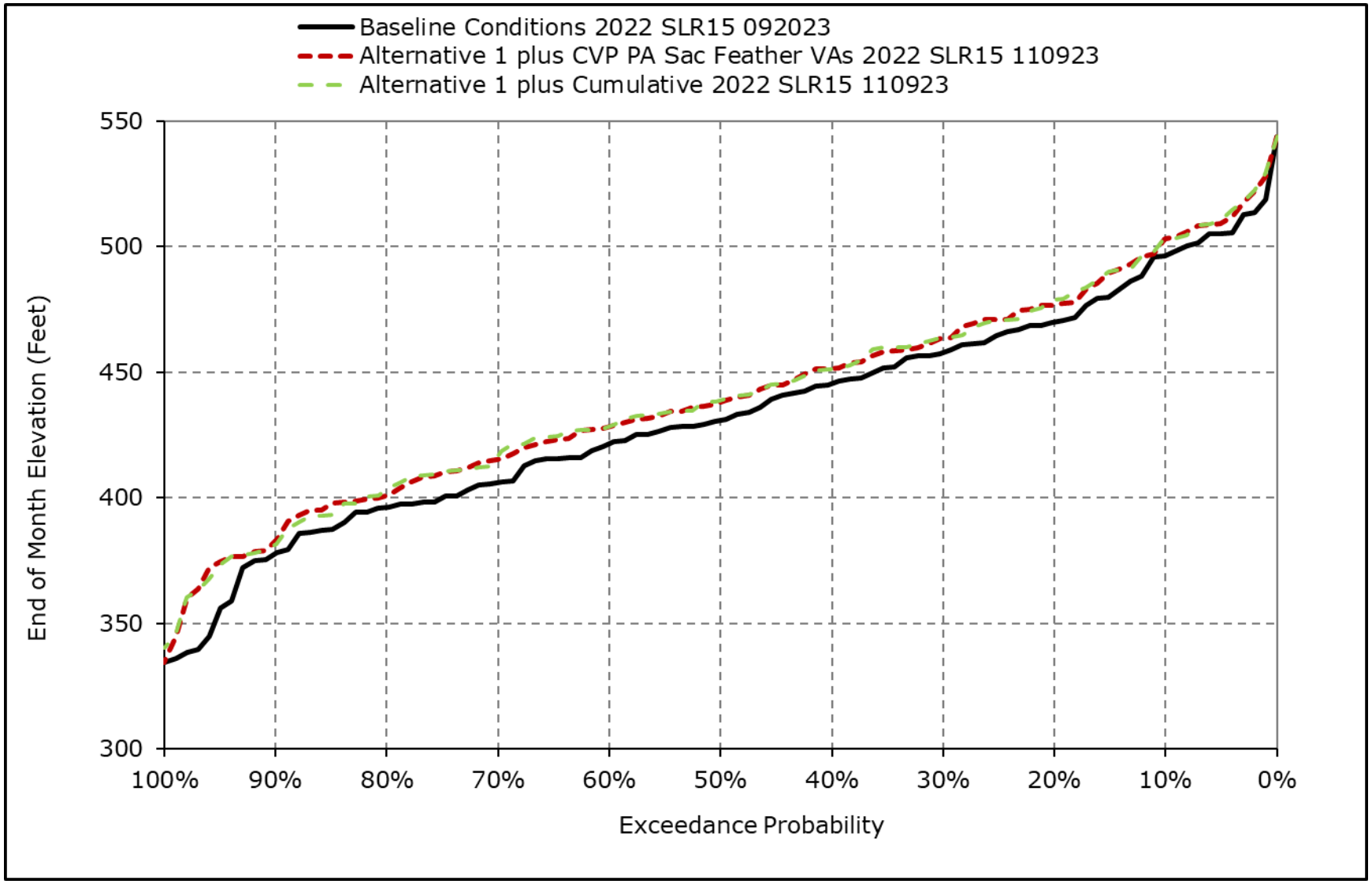
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3b. San Luis Reservoir (SWP and CVP), November



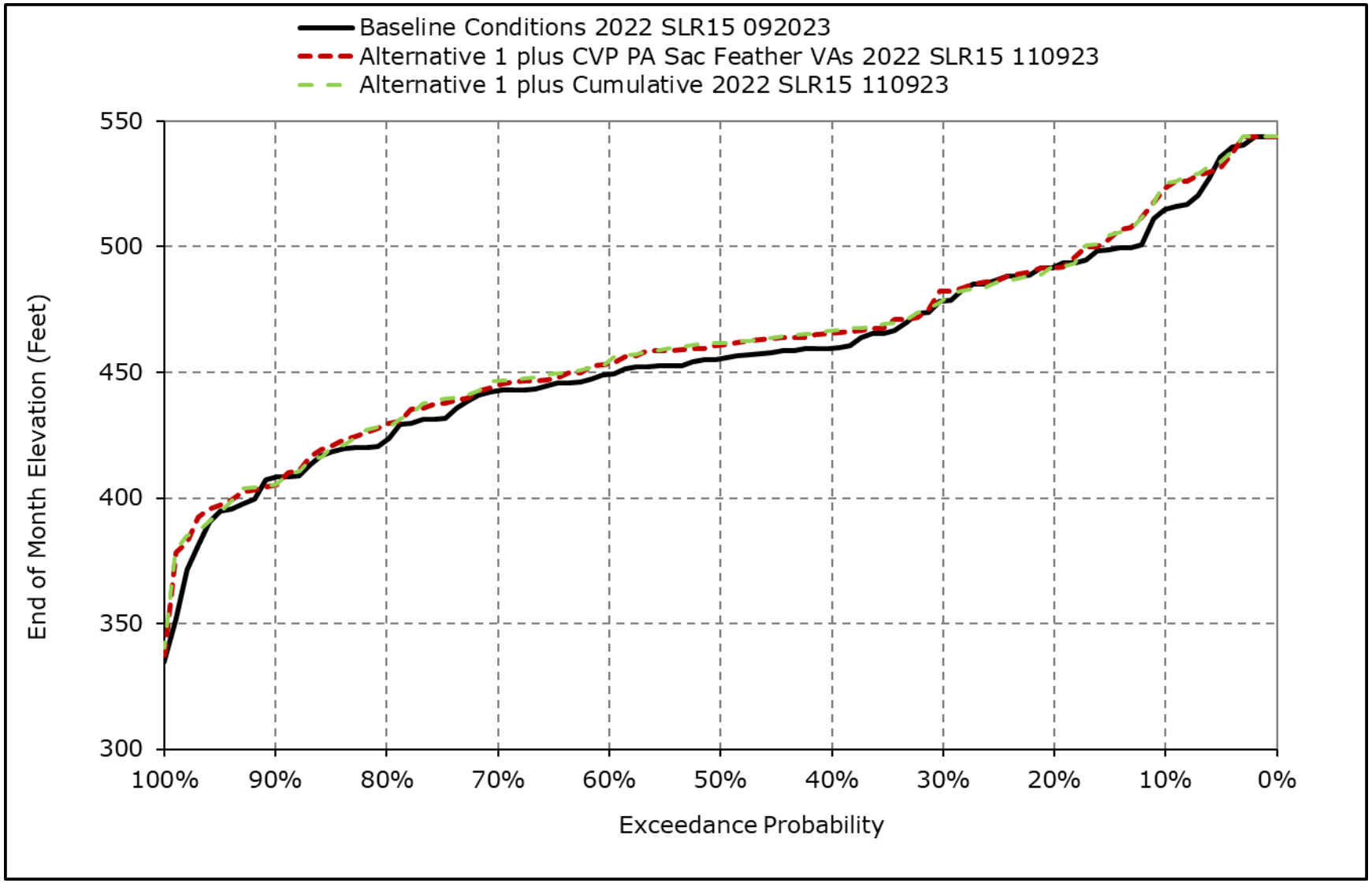
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3c. San Luis Reservoir (SWP and CVP), December



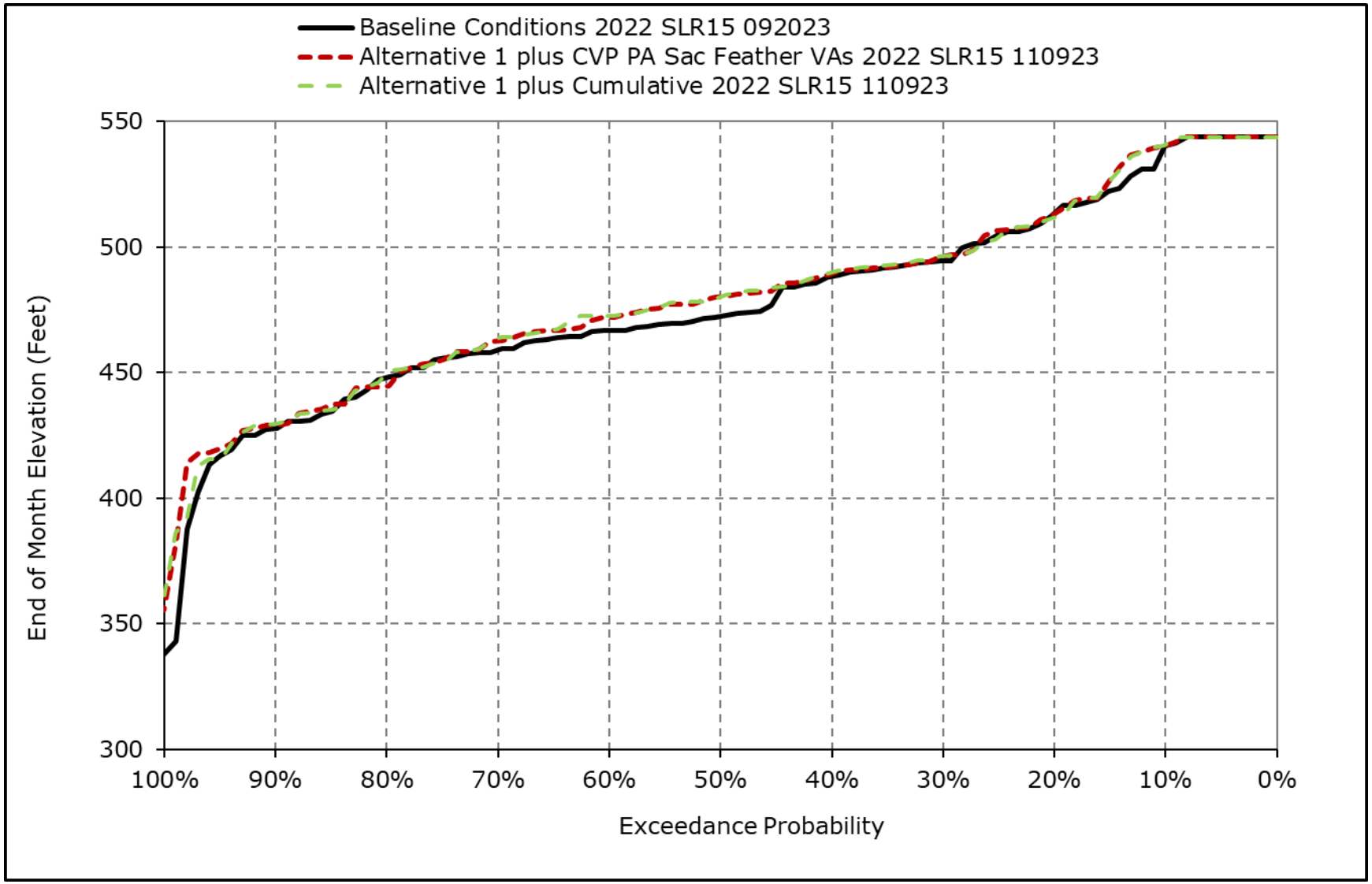
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3d. San Luis Reservoir (SWP and CVP), January



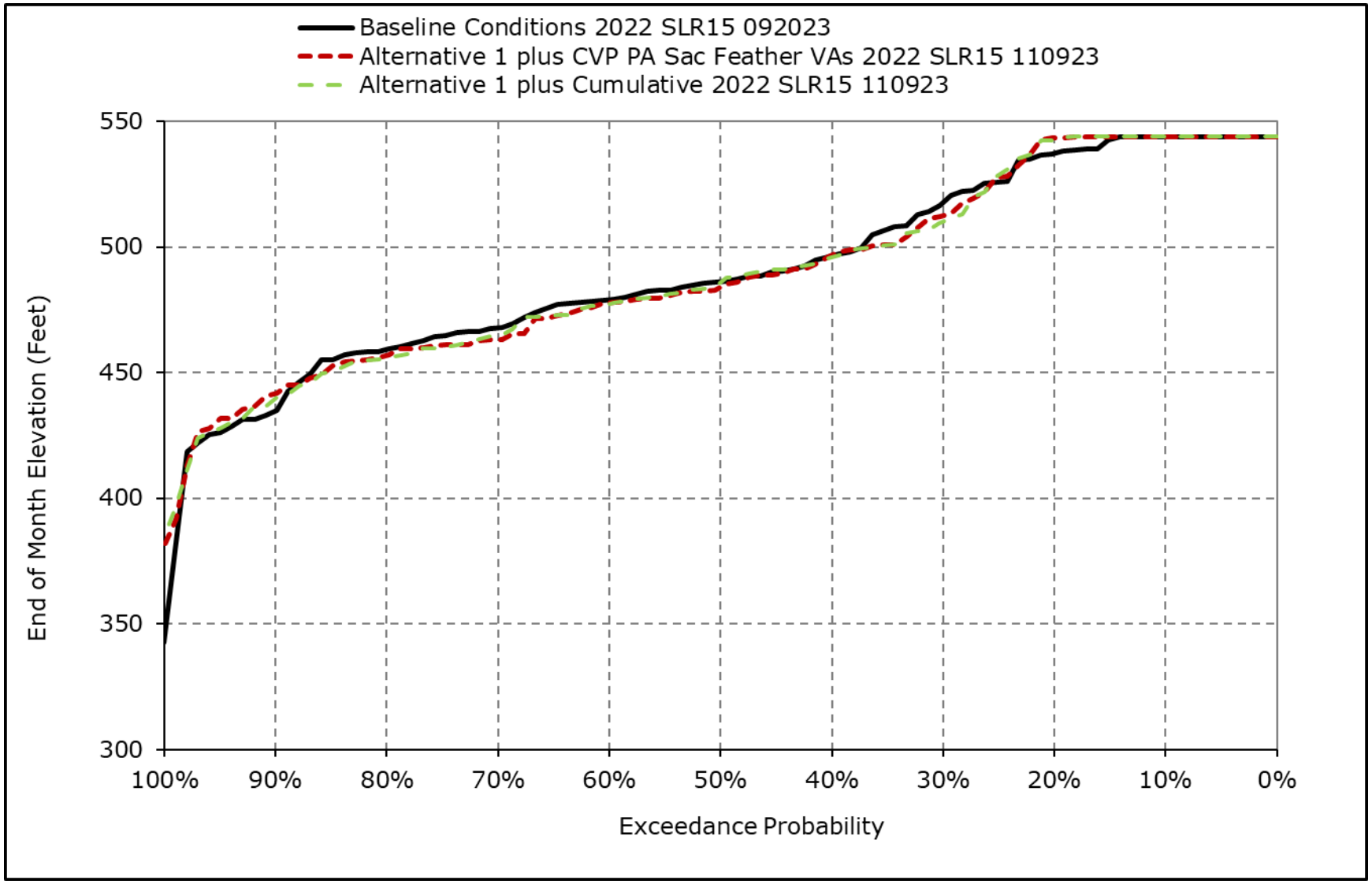
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3e. San Luis Reservoir (SWP and CVP), February



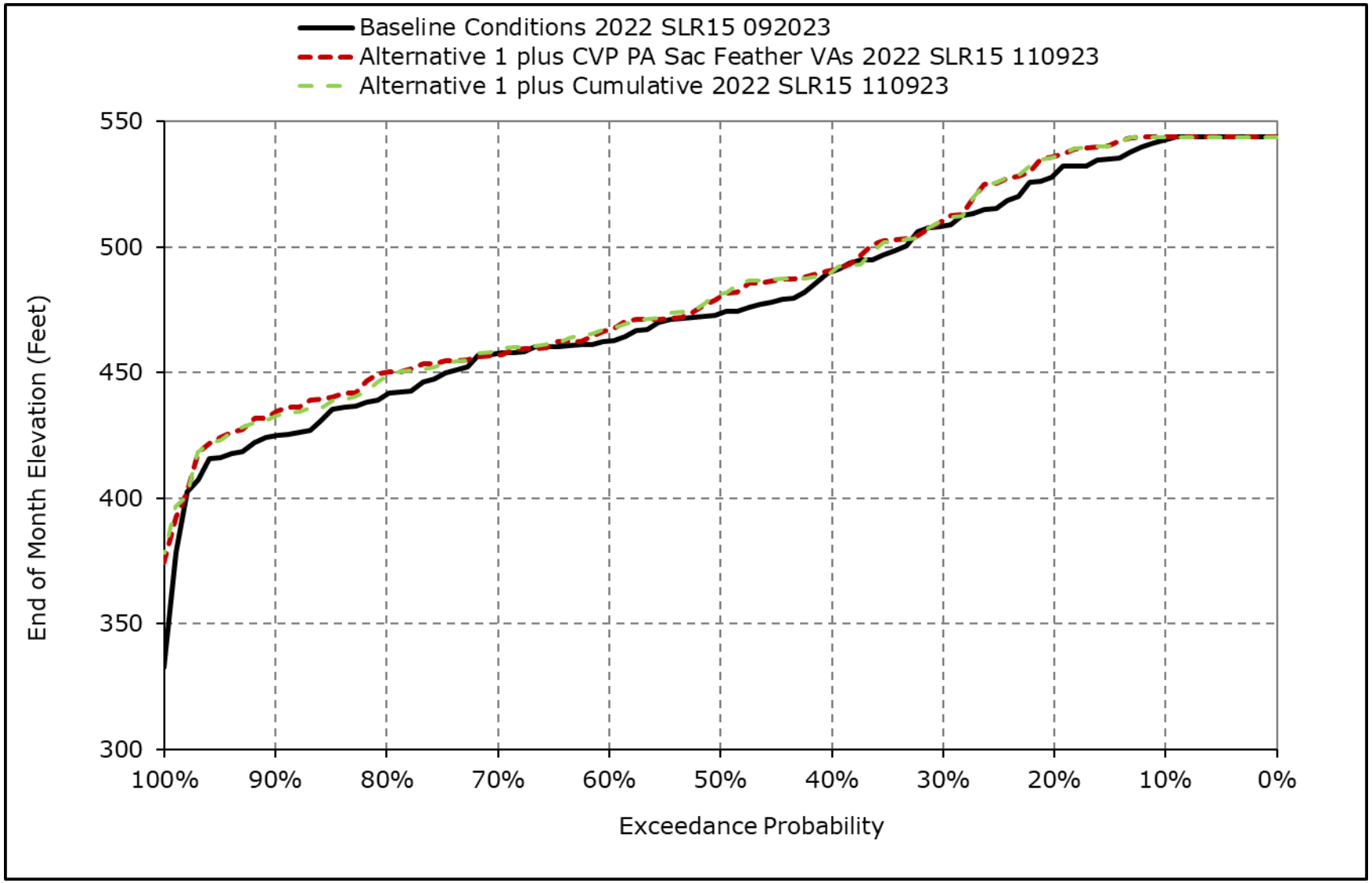
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3f. San Luis Reservoir (SWP and CVP), March



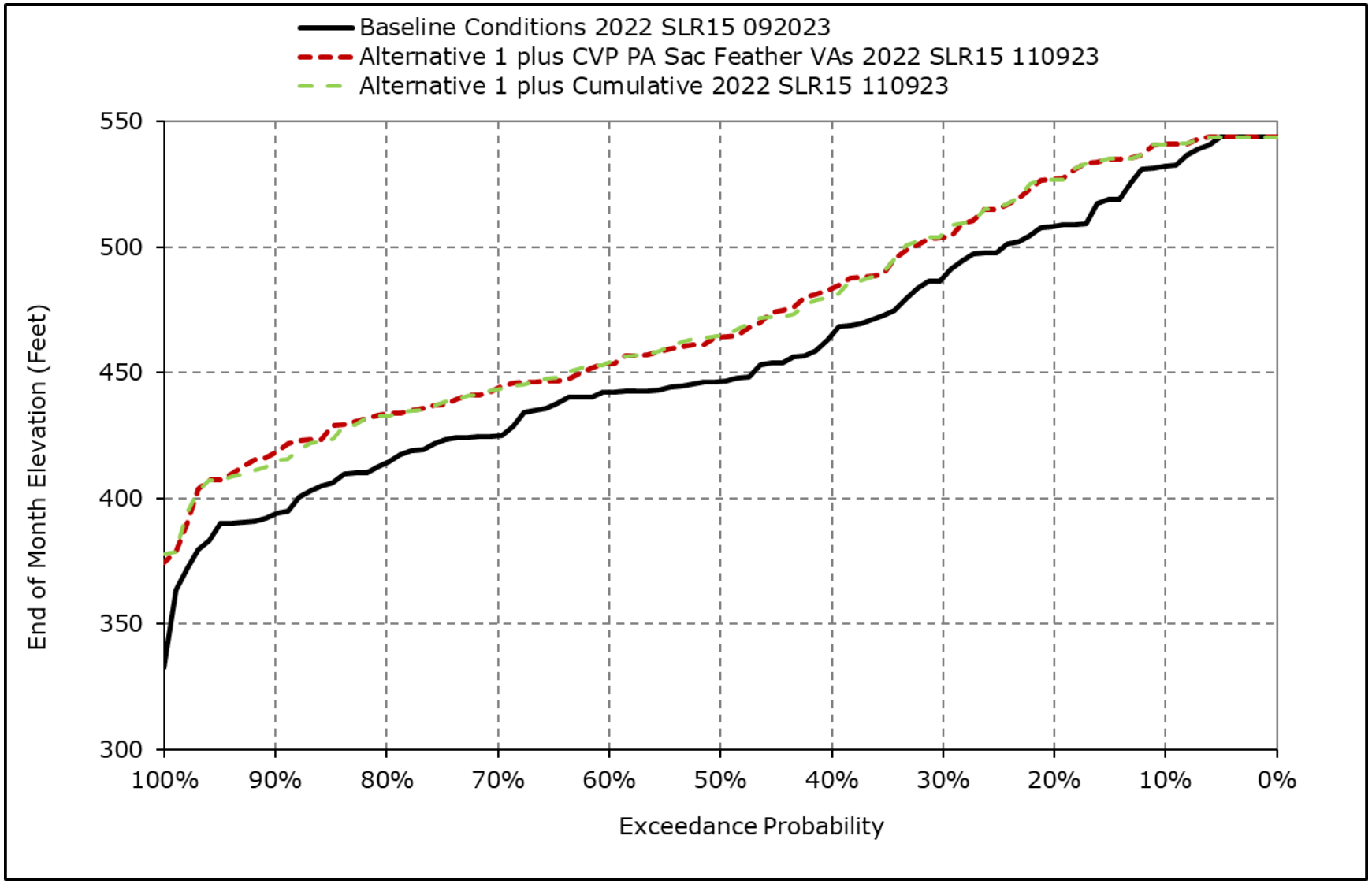
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3g. San Luis Reservoir (SWP and CVP), April



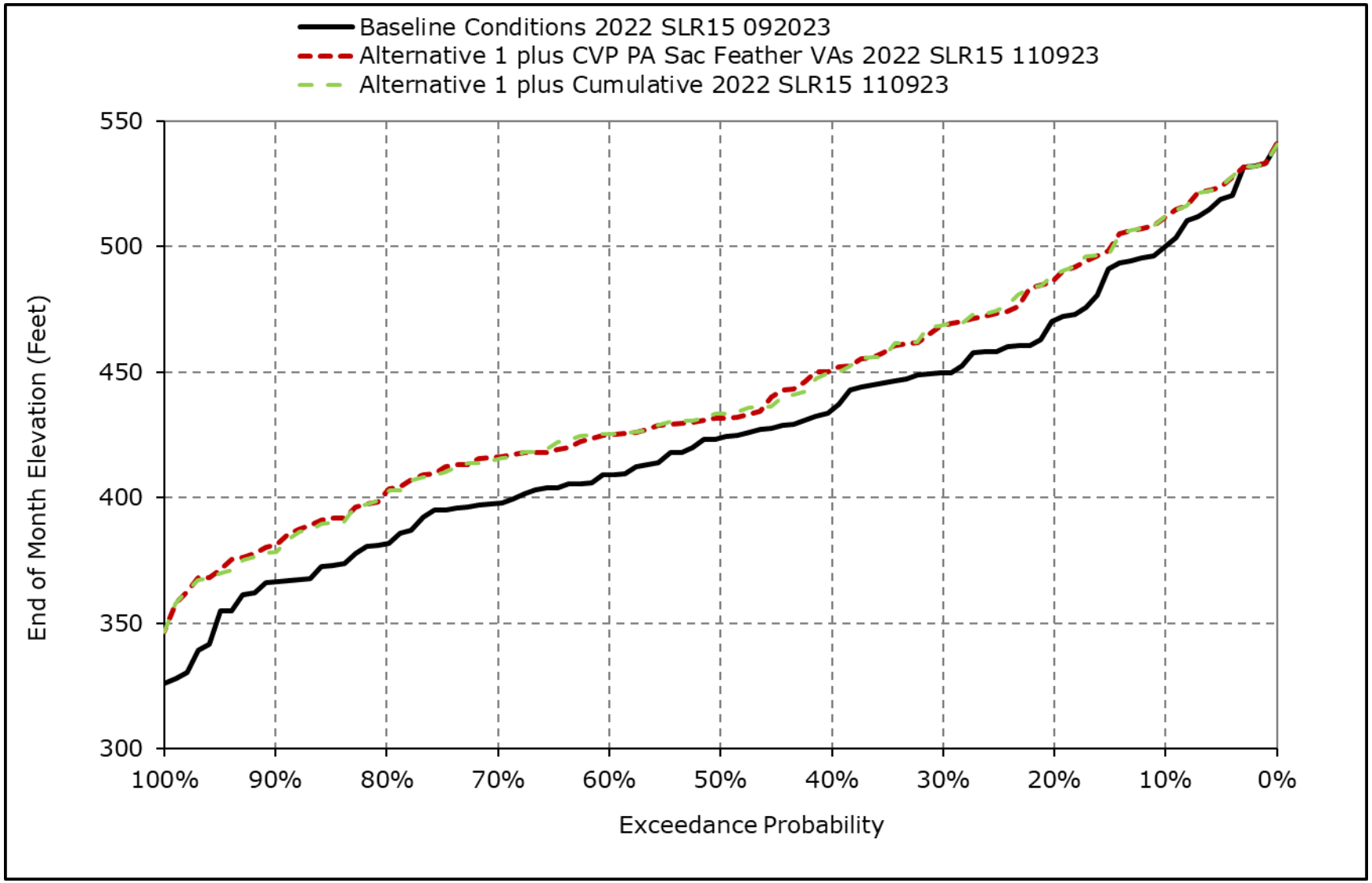
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3h. San Luis Reservoir (SWP and CVP), May



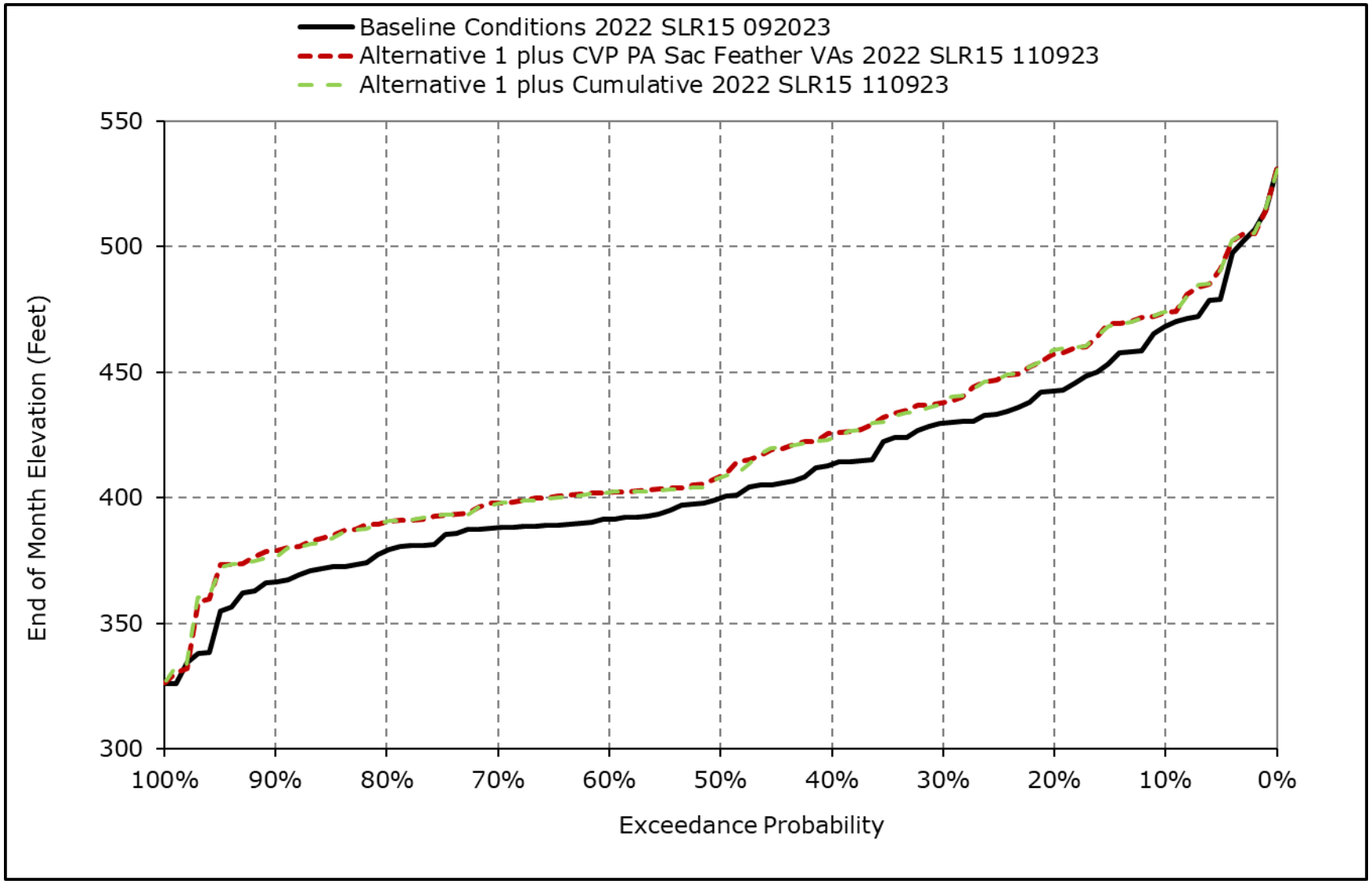
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3i. San Luis Reservoir (SWP and CVP), June



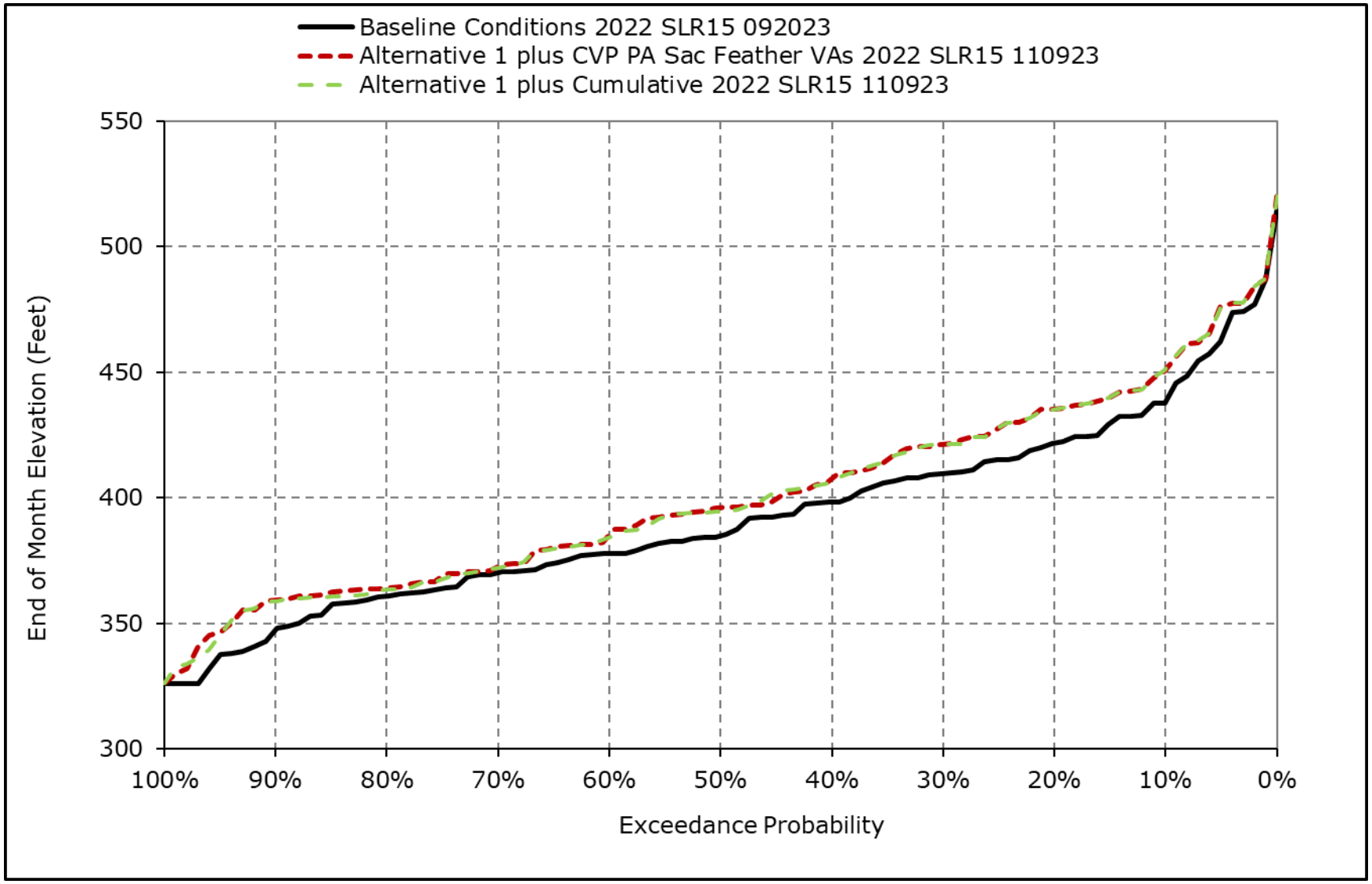
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3j. San Luis Reservoir (SWP and CVP), July



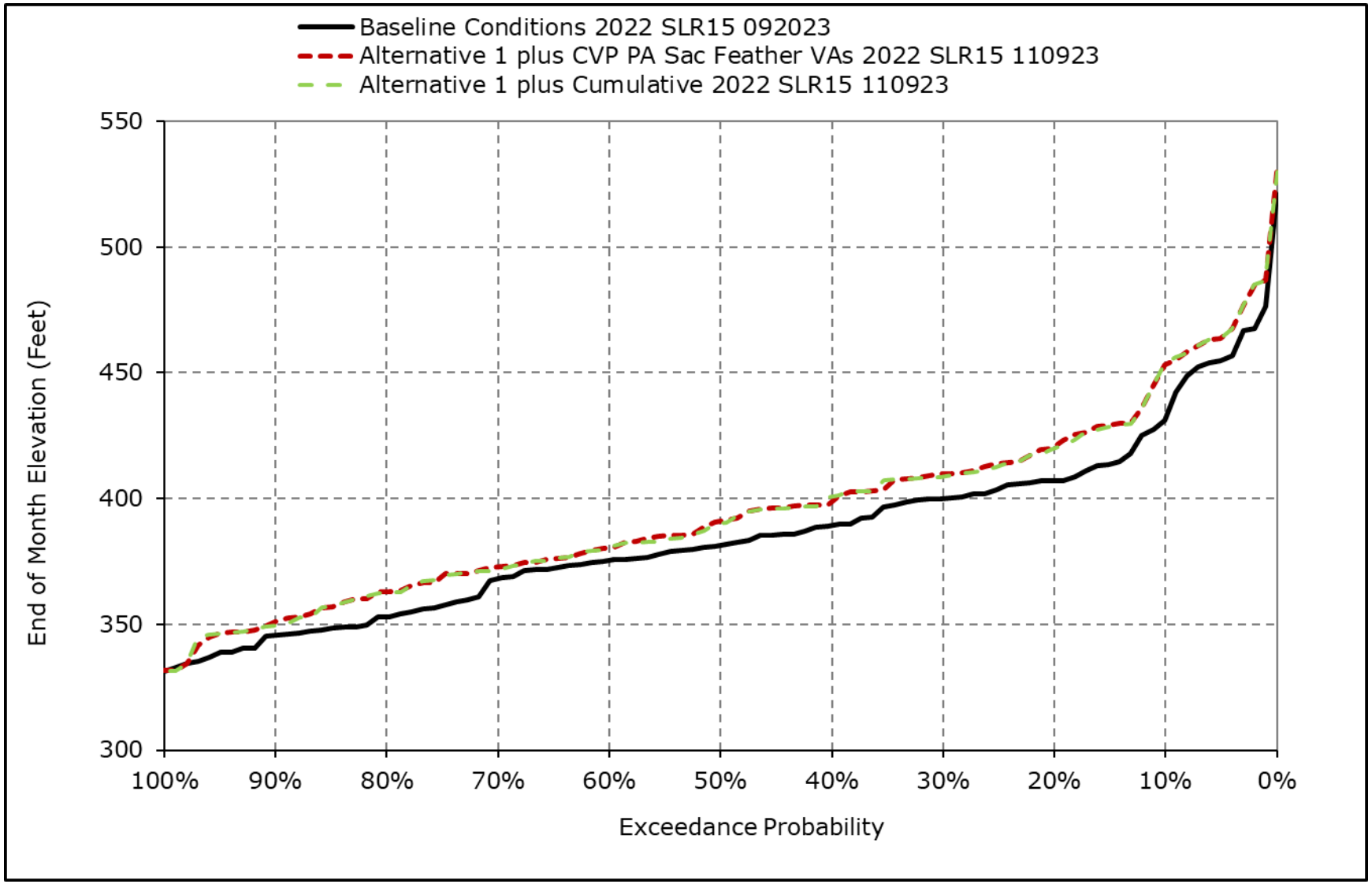
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3k. San Luis Reservoir (SWP and CVP), August



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure 4H-1-3l. San Luis Reservoir (SWP and CVP), September



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.