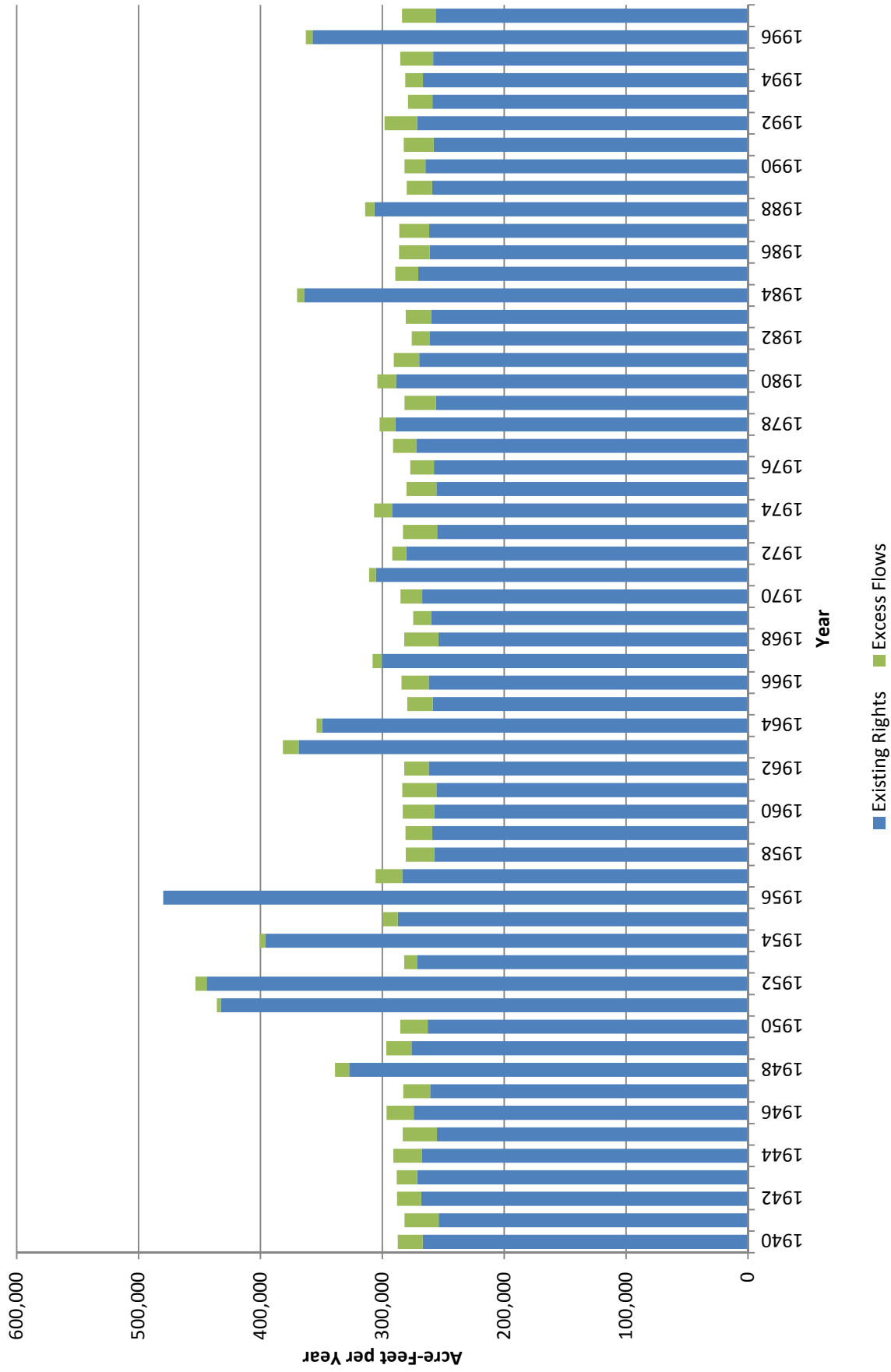


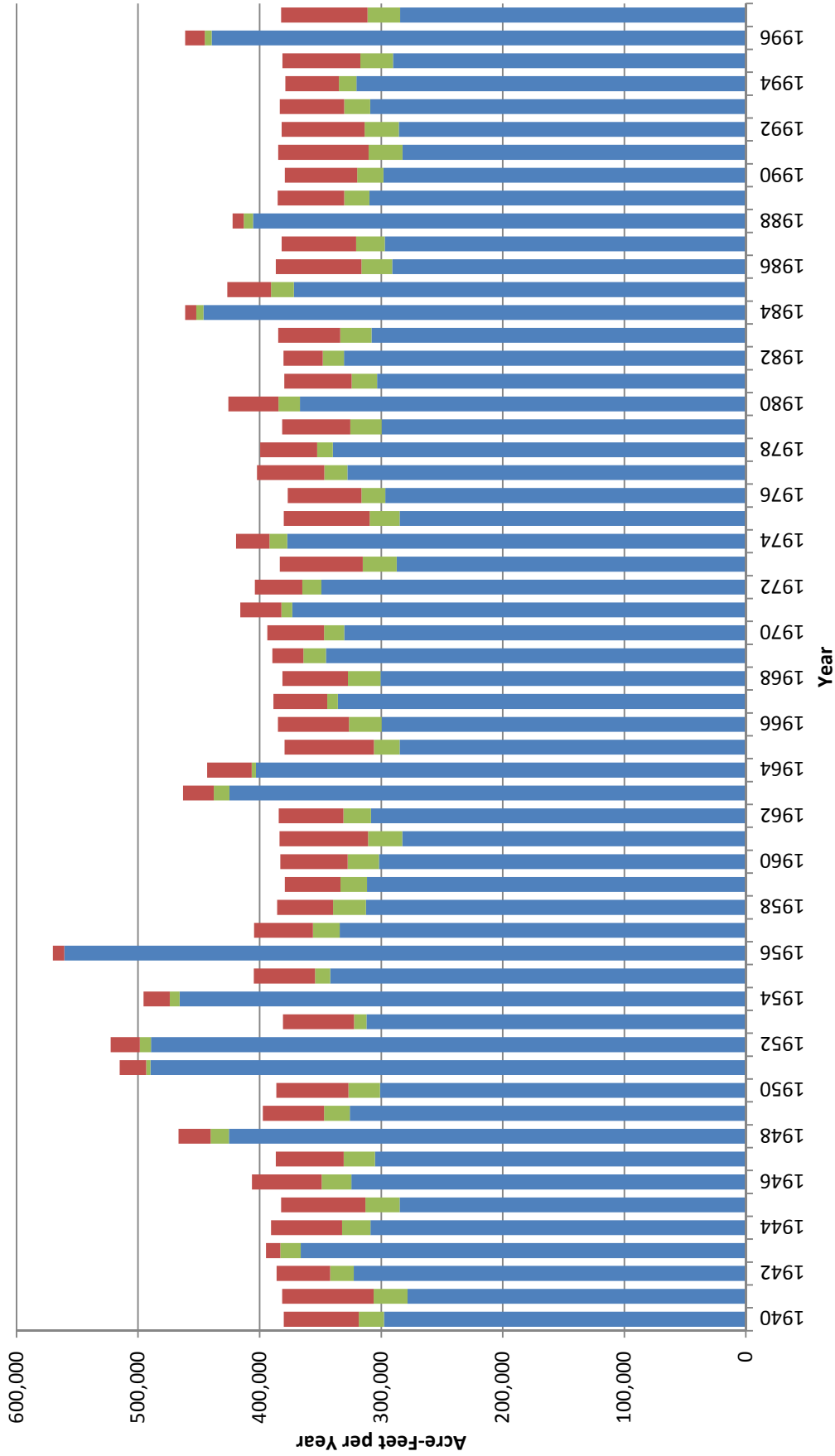
Appendix G-4

Operational Modeling Results

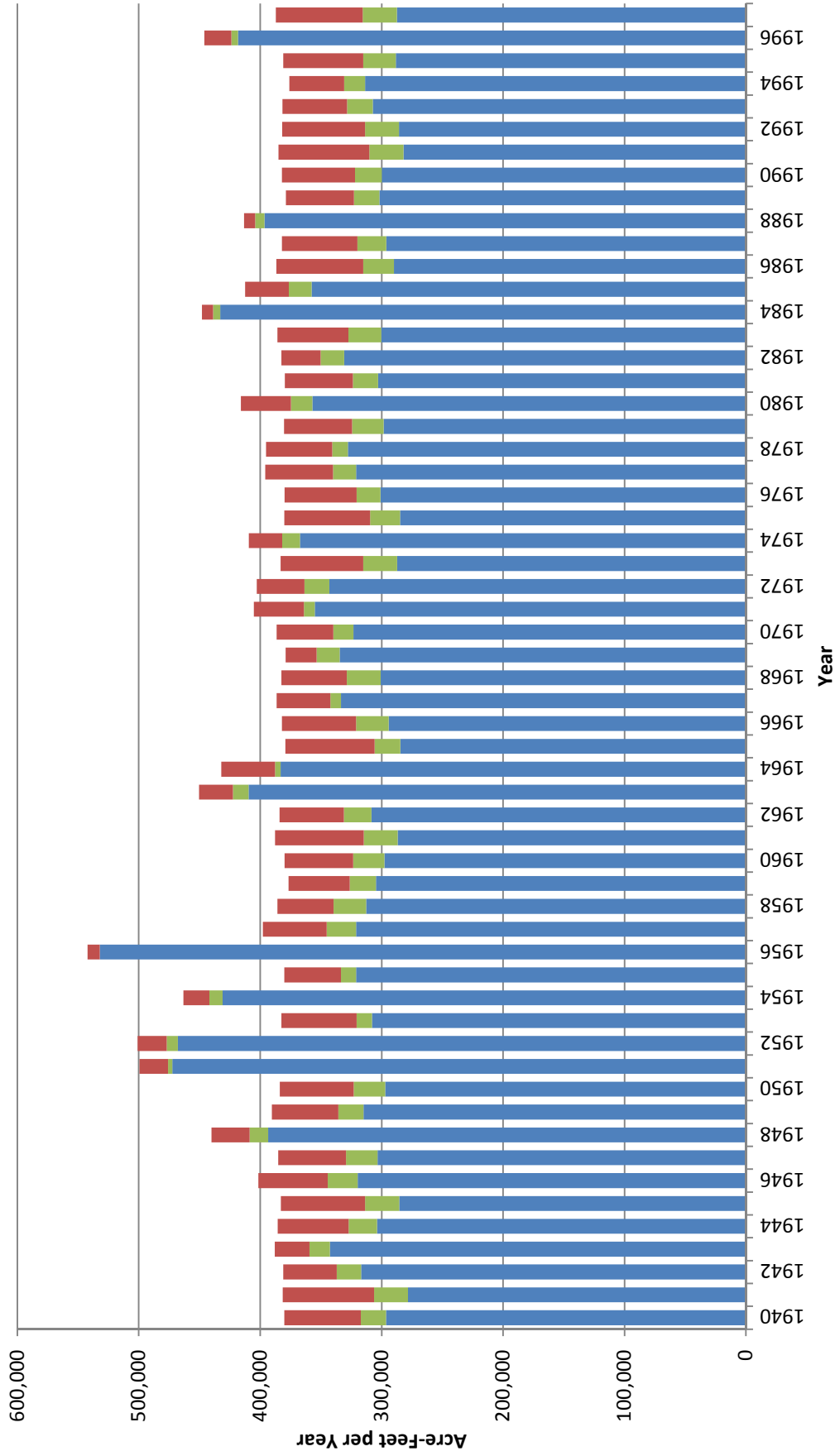
**Figure G.4.1 - Annual Water Use
Scenario 1 Current Conditions**



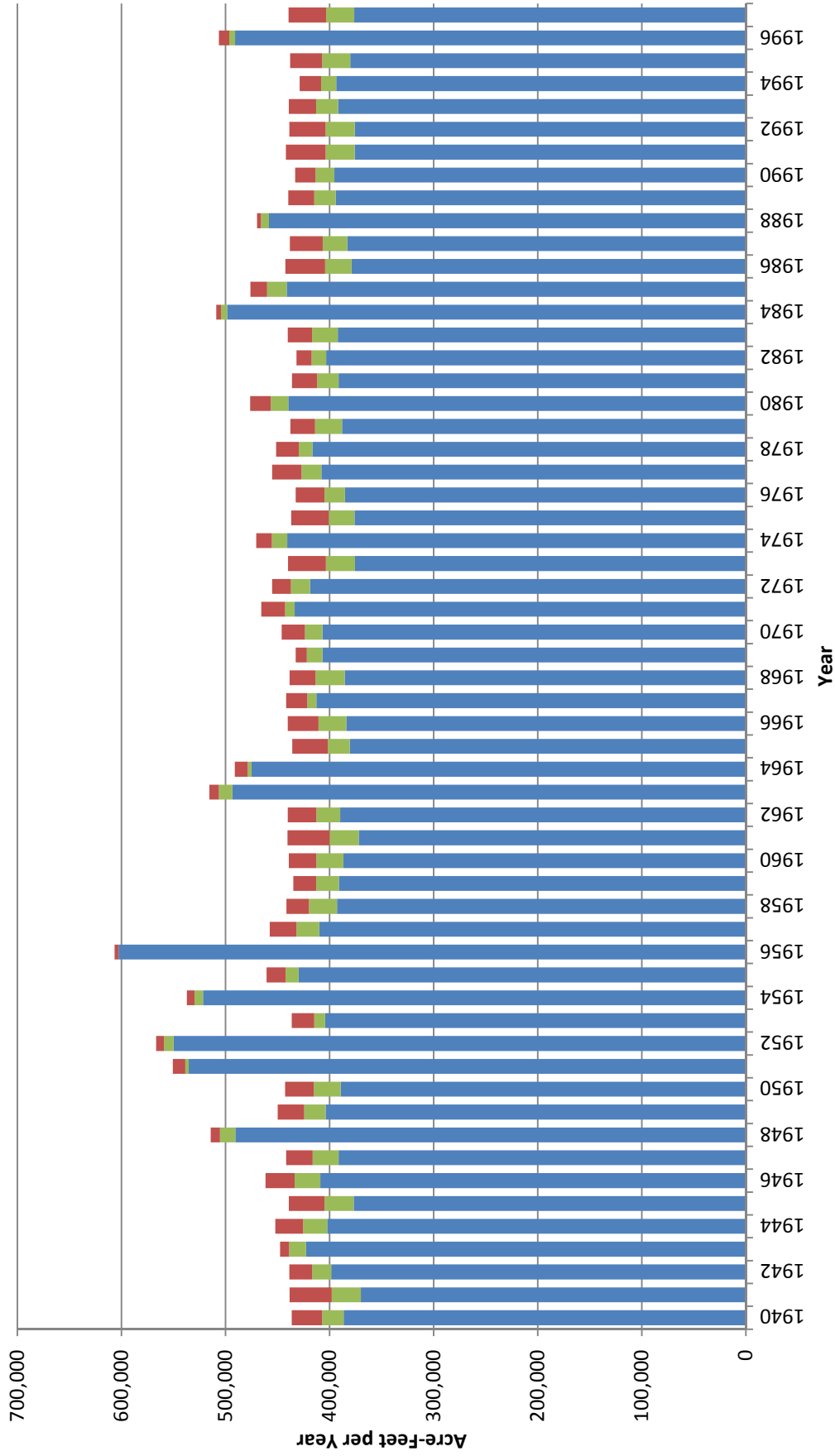
**Figure G.4.2 - Annual Water Use
Scenario 2 - 2025 Conditions - BRA Return Flows
(Executive Director's Approach)**



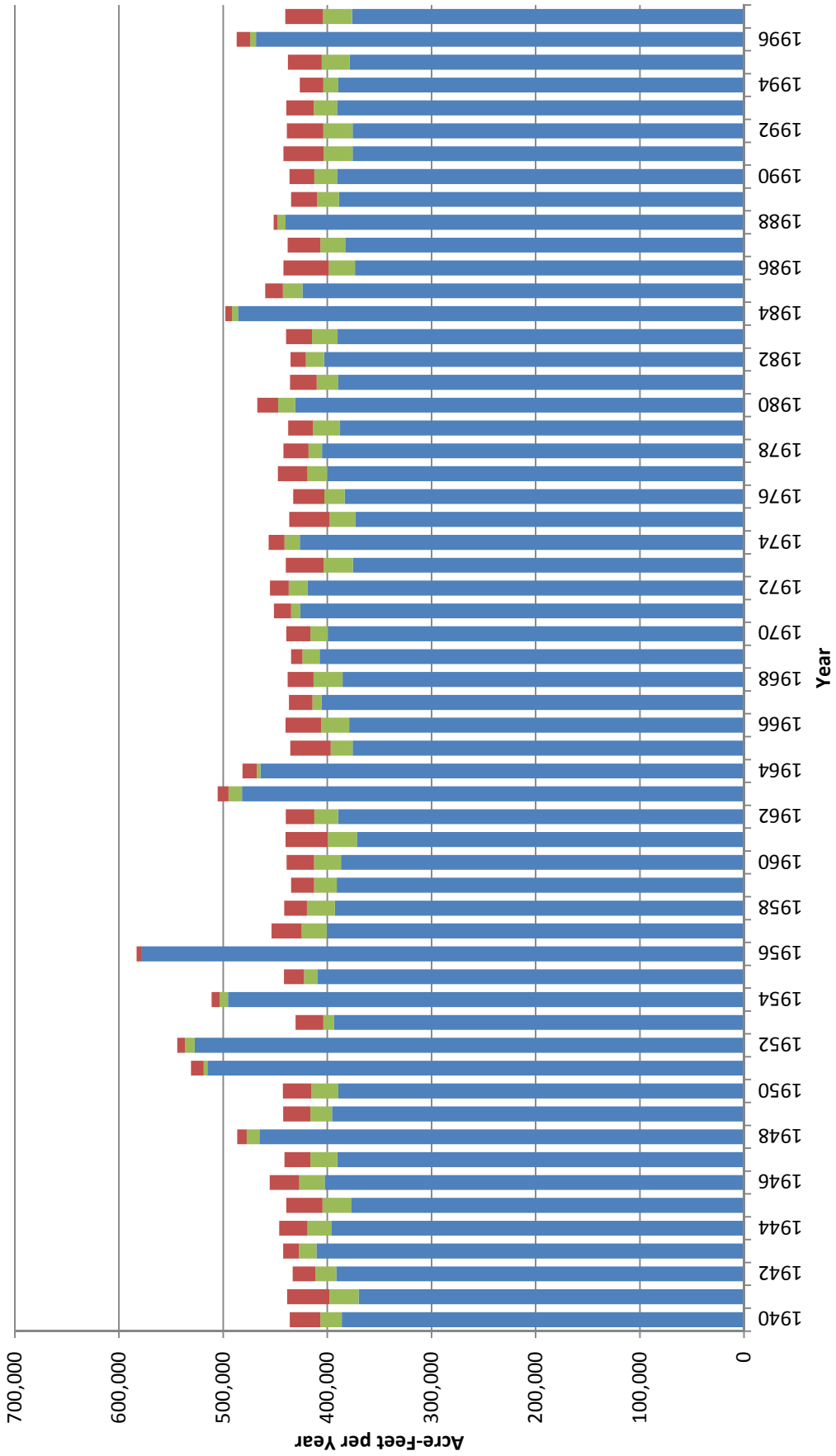
**Figure G.4.3 - Annual Water Use
Scenario 2 - 2025 Conditions, All Return Flows
(BRA Approach)**



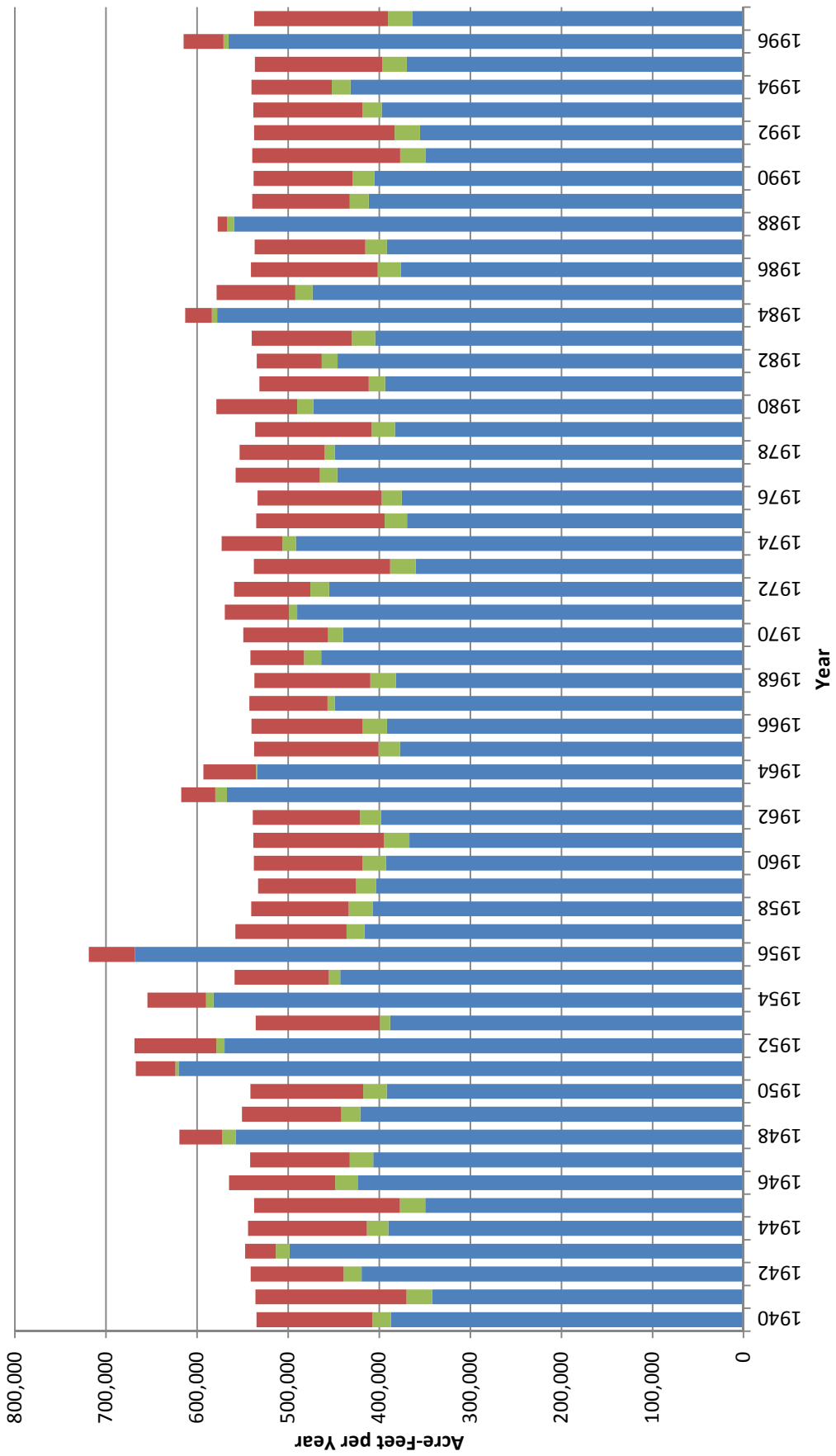
**Figure G.4.4 - Annual Water Use
Scenario 3 - 2025 Conditions With CPNPP Expansion, BRA Return Flows
(Executive Director's Approach)**



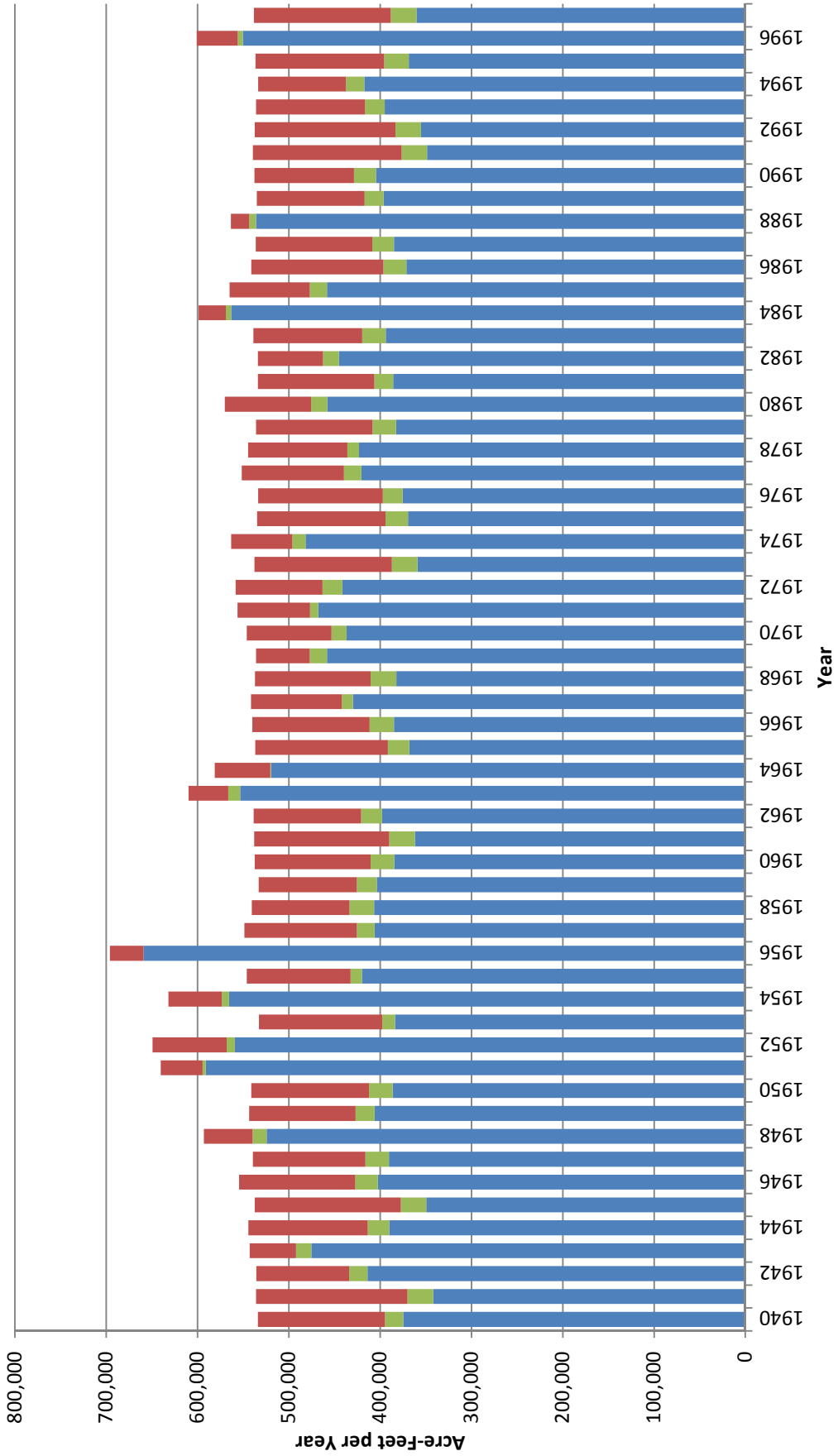
**Figure G.4.5 - Annual Water Use
Scenario 3 - 2025 Conditions With CPNPP Expansion, All Return Flows
(BRA Approach)**



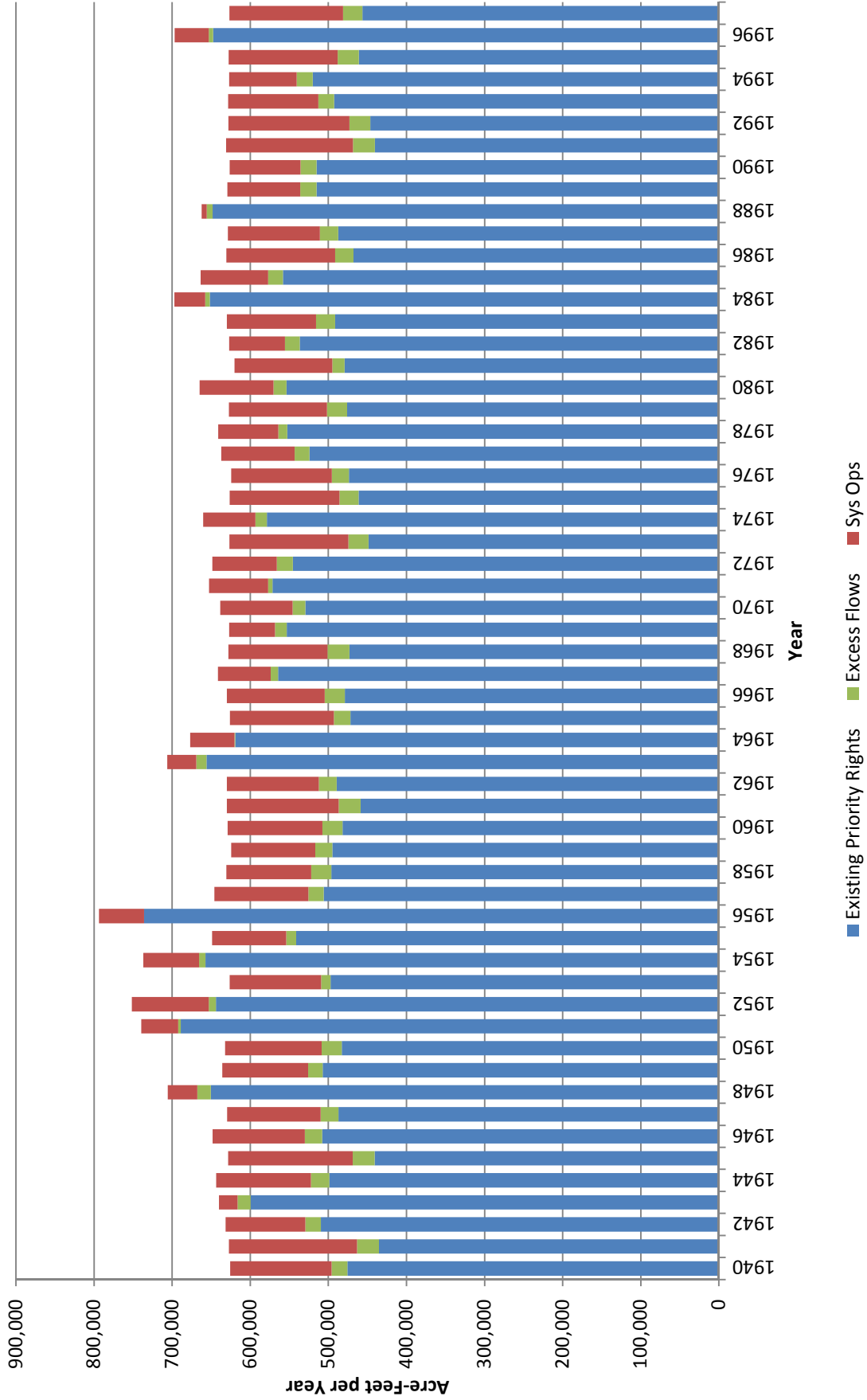
**Figure G.4.6 - Annual Water Use
Scenario 4 - 2060 Conditions, BRA Return Flows
(Executive Director's Approach)**



**Figure G.4.7 - Annual Water Use
Scenario 4 - 2060 Conditions, All Return Flows
(BRA Approach)**



**Figure G.4.8 - Annual Water Use
Scenario 5 - 2060 Conditions With CPNPP Expansion, BRA Return Flows
(Executive Director's Approach)**



**Figure G.4.9 - Annual Water Use
Scenario 5 - 2060 Conditions With CPNPP Expansion, All Return Flows
(BRA Approach)**

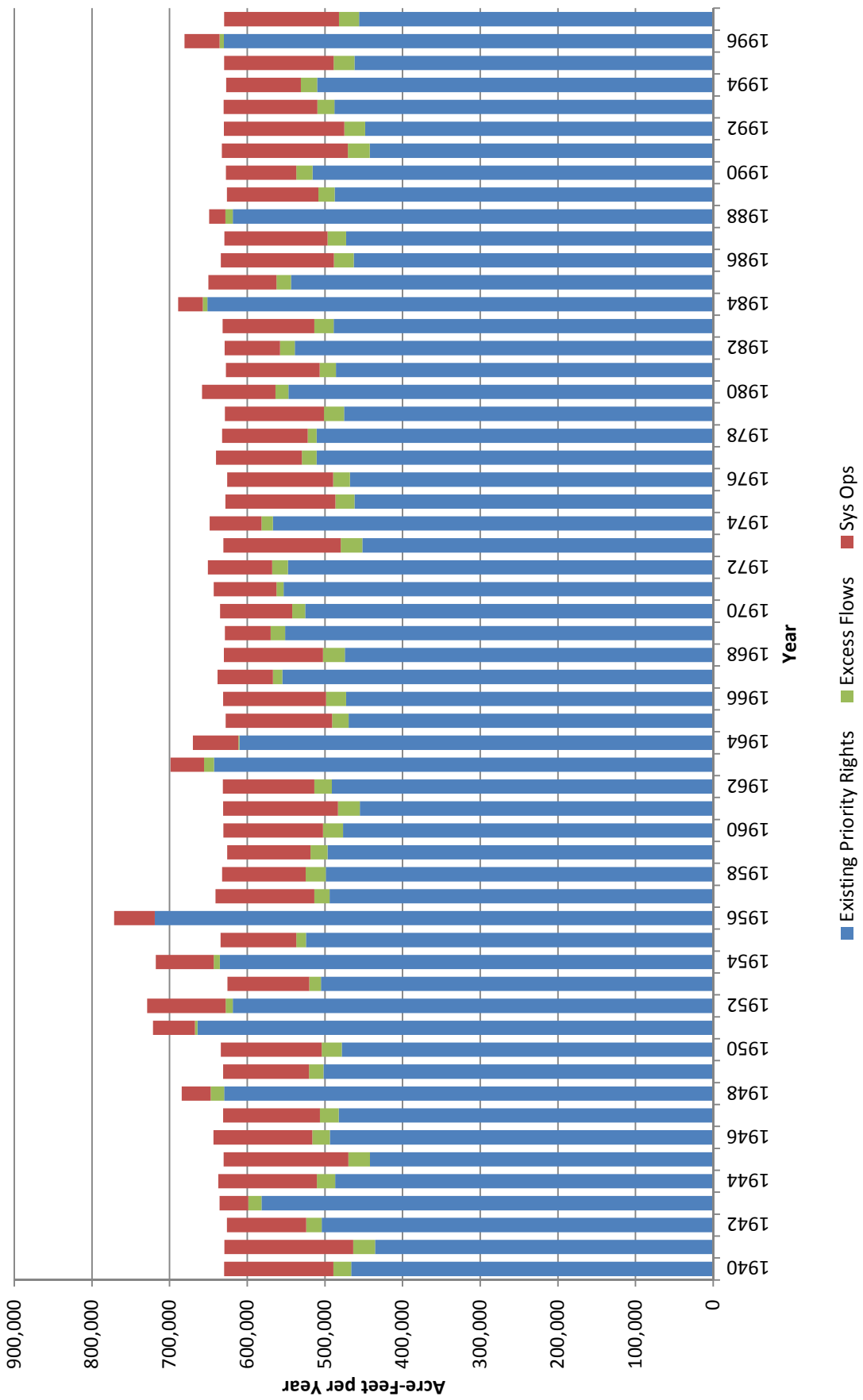


Table G.4.1 - Brazos at Glen Rose Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	0	0	0	1,207	1,124	0	0	1,206	1,123
5%	855	1,072	757	2,625	2,614	1,290	1,149	2,612	2,604
15%	1,614	2,093	1,983	3,340	3,321	2,133	2,045	3,324	3,249
30%	2,443	3,566	3,187	4,674	4,564	3,793	3,348	4,417	4,351
Median	12,724	15,114	14,805	12,063	11,690	14,946	15,063	12,378	12,453
70%	44,736	50,792	49,013	40,268	39,283	49,522	47,172	40,352	39,627
85%	128,857	129,431	127,988	117,868	116,515	128,866	127,107	119,109	118,184
Max	2,554,871	2,522,858	2,522,060	2,517,978	2,517,215	2,522,004	2,521,189	2,517,098	2,516,336

Table G.4.2 - Brazos nr Highbank Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	132	164	196	1,325	1,454	828	638	676	1,454
5%	6,684	7,382	7,364	7,842	8,200	7,262	7,392	8,151	8,773
15%	18,838	16,221	15,413	15,440	14,491	15,441	15,123	14,584	14,872
30%	34,353	35,541	33,963	34,318	33,884	34,454	33,951	32,297	32,416
Median	73,071	80,446	79,454	76,566	75,518	78,370	78,540	76,183	75,847
70%	125,484	144,706	144,389	136,295	135,383	144,693	143,787	136,935	135,991
85%	261,316	274,790	273,956	274,790	272,358	273,503	270,433	274,517	271,103
Max	3,393,384	3,384,317	3,381,251	3,379,242	3,376,607	3,382,680	3,380,029	3,378,025	3,375,389

Table G.4.3 - Brazos at Richmond Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	27,540	31,700	31,760	30,714	31,188	36,674	38,078	37,008	39,154
5%	44,675	47,183	46,195	45,130	45,330	52,470	52,317	54,395	53,514
15%	67,166	73,813	69,988	68,839	66,494	76,367	73,083	73,643	72,315
30%	101,636	115,397	111,564	112,702	108,230	113,263	105,684	109,596	102,971
Median	187,521	201,843	197,822	198,896	189,906	199,148	194,774	192,980	190,967
70%	416,053	440,612	429,149	440,057	432,797	430,287	421,956	425,898	412,767
85%	840,265	866,830	845,320	852,925	839,132	840,516	836,121	832,891	818,382
Max	5,804,957	5,806,296	5,797,403	5,798,989	5,795,195	5,779,133	5,737,217	5,775,790	5,736,528

Table G.4.4 - Brazos at Rosharon Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	894	2,347	13	1,944	13	2,347	13	1,944	13
5%	20,978	21,507	17,108	21,743	17,893	21,097	16,876	21,486	17,885
15%	34,378	39,947	33,705	40,357	35,030	35,090	31,812	34,541	32,008
30%	77,231	87,108	84,299	87,154	84,269	84,255	75,839	79,465	72,058
Median	168,852	178,951	171,034	182,184	172,630	166,383	161,383	165,134	161,375
70%	404,911	421,350	413,257	424,017	409,102	407,992	392,563	399,687	385,774
85%	876,747	892,972	879,577	889,153	862,933	871,274	862,647	851,656	830,232
Max	5,986,610	5,983,956	5,972,135	5,980,585	5,973,814	5,949,720	5,905,207	5,946,408	5,904,523

Table G.4.5 - Little River nr Cameron Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	1,112	1,230	1,190	1,230	1,190	1,230	1,190	1,230	1,190
5%	3,930	6,643	5,811	6,596	5,808	6,154	5,516	6,430	5,593
15%	7,491	10,412	9,541	10,022	9,250	8,995	8,259	8,995	8,341
30%	13,038	17,248	16,681	15,548	15,611	15,212	14,351	15,244	14,562
Median	27,480	30,840	30,184	30,048	29,778	27,369	27,172	27,210	26,263
70%	77,975	78,631	76,741	79,073	77,190	71,945	70,747	71,718	70,915
85%	196,571	195,231	193,077	198,746	193,077	187,532	185,853	187,066	186,816
Max	1,410,455	1,412,765	1,411,571	1,412,765	1,411,571	1,409,104	1,407,911	1,409,104	1,408,034

Table G.4.6 - Yegua Creek nr Somerville Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	9	21	0	21	0	21	0	21	0
5%	14	26	0	26	0	26	0	26	0
15%	17	30	1	30	1	30	2	30	2
30%	26	40	12	38	10	39	11	40	12
Median	1,161	2,615	2,377	1,998	1,740	3,733	4,091	4,125	4,094
70%	11,050	11,279	11,302	11,279	11,085	11,590	10,970	11,697	10,925
85%	39,057	39,368	39,173	39,368	38,962	39,300	39,236	39,486	39,381
Max	249,032	249,150	248,991	249,150	248,991	249,088	248,929	249,088	248,929

Table G.4.7 -Navasota River nr Easterly Flow Statistics
Values in acft/month

Statistic	Scenario 1 - Current	Scenario 2 - 2025 All Return Flow	Scenario 2 - 2025 BRA Return Flow	Scenario 3 - 2025 w CPNPP All Return Flow	Scenario 3 - 2025 w CPNPP BRA Return Flow	Scenario 4 - 2060 All Return Flow	Scenario 4 - 2060 BRA Return Flow	Scenario 5 - 2060 w CPNPP All Return Flow	Scenario 5 - 2060 w CPNPP BRA Return Flow
Min	93	0	0	0	0	0	0	0	0
5%	253	315	153	299	153	323	194	323	194
15%	526	519	403	521	403	528	415	528	415
30%	893	882	901	872	899	884	901	881	899
Median	2,186	2,166	2,206	2,142	2,206	2,149	2,206	2,142	2,240
70%	9,268	10,167	8,958	9,890	8,958	9,594	9,084	9,632	9,084
85%	47,790	48,552	47,848	48,552	47,848	48,833	48,129	48,833	48,129
Max	309,403	311,118	308,849	311,118	308,849	311,996	309,729	311,996	309,729

