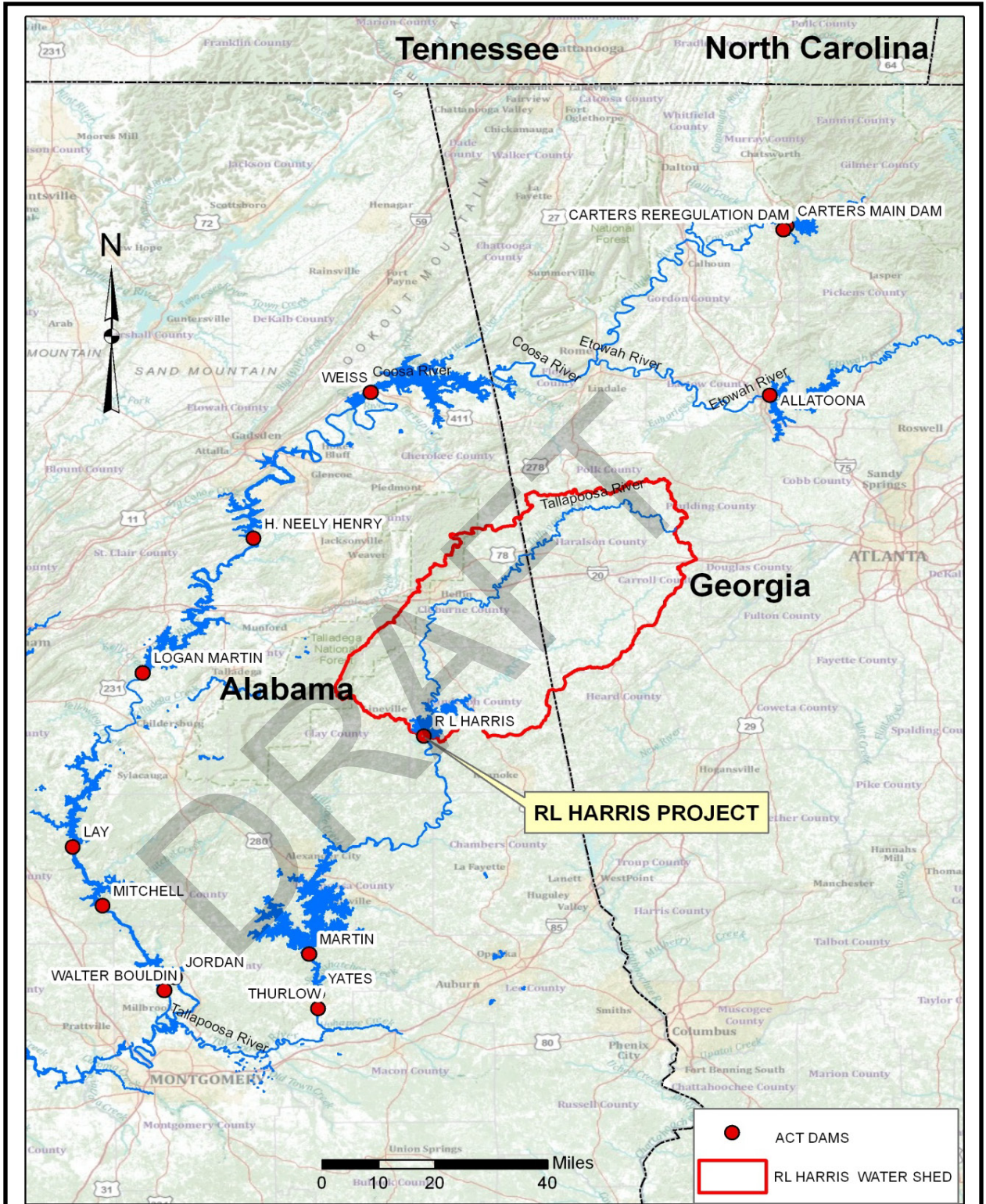


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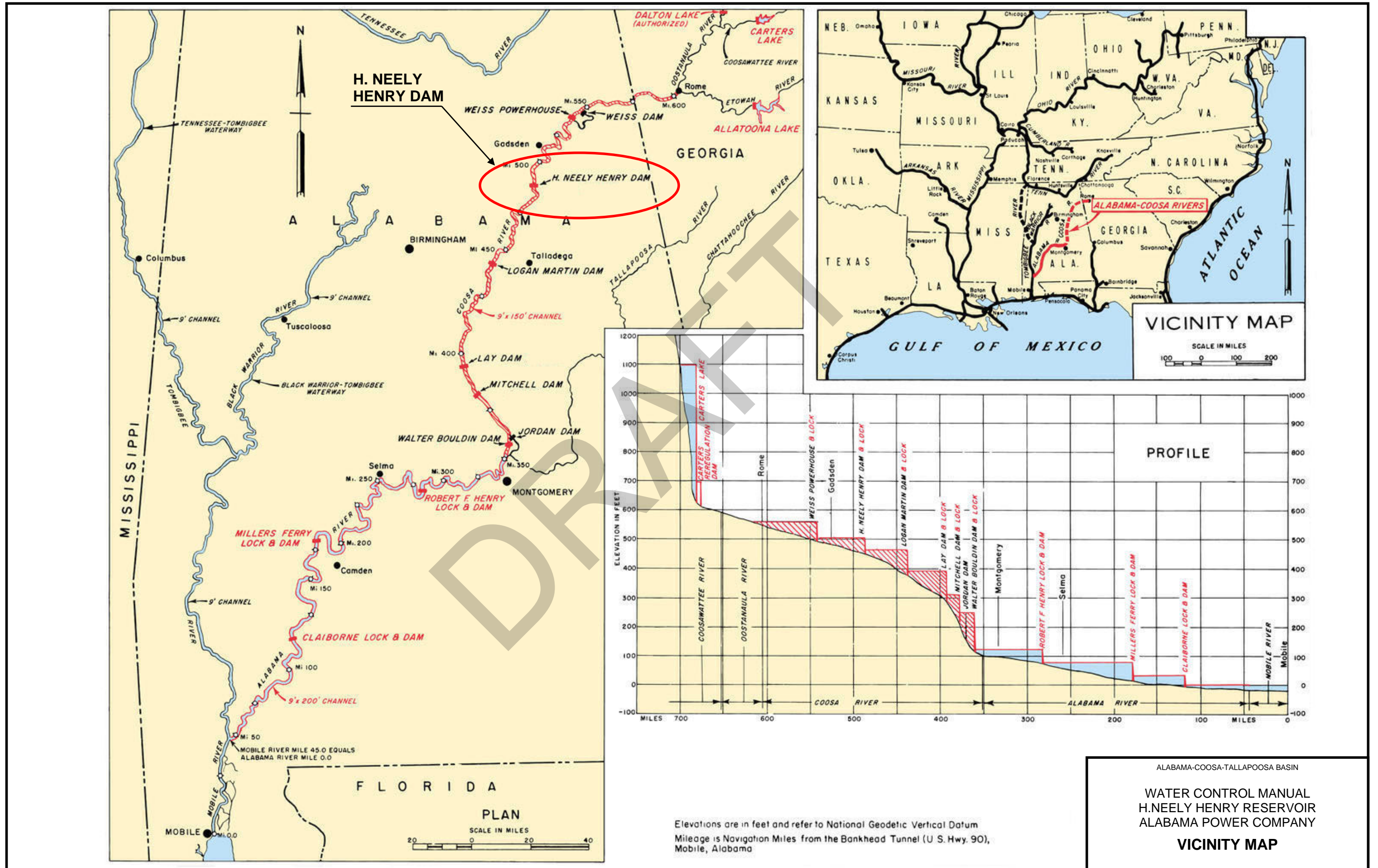
PLATES

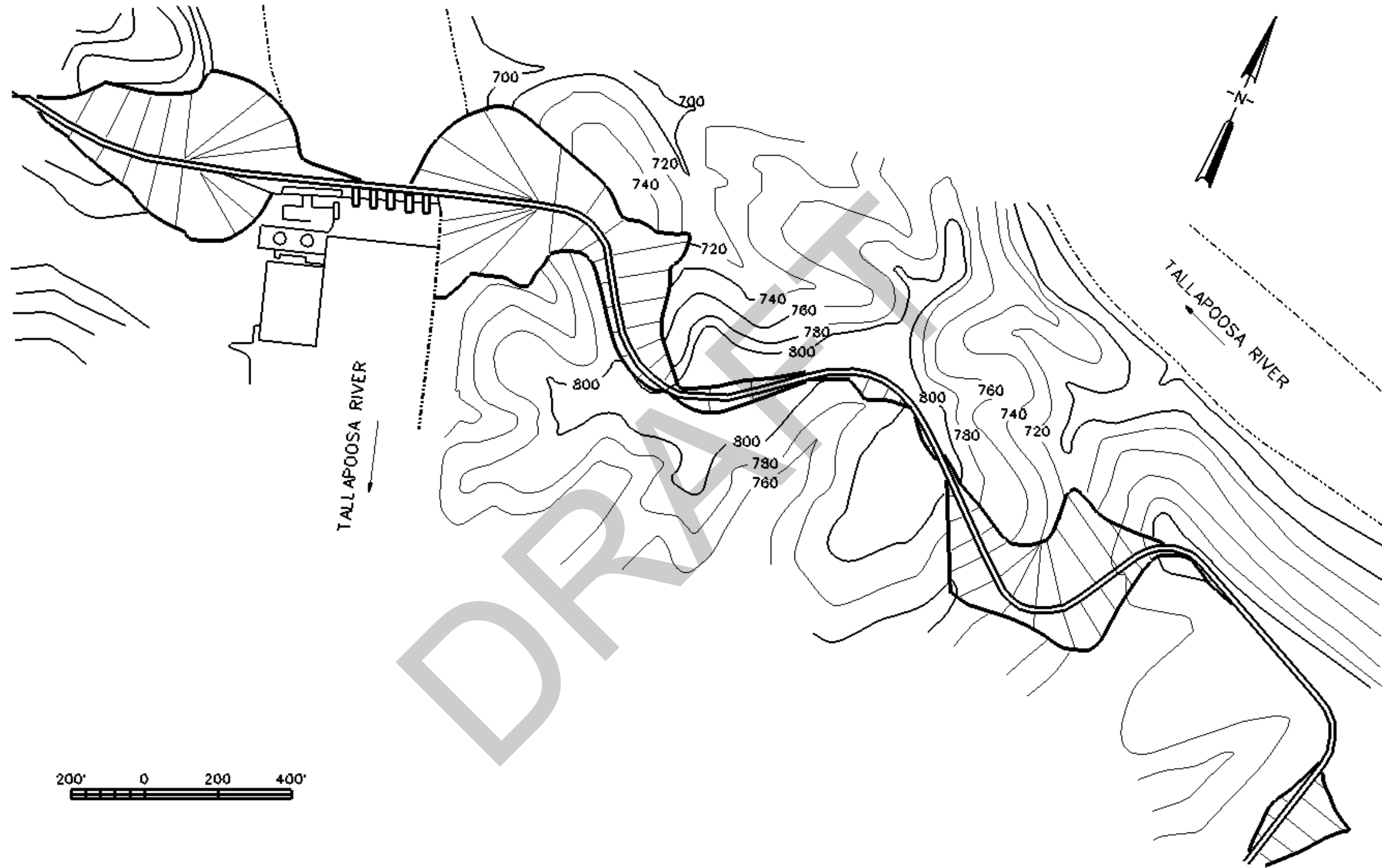
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ALABAMA-COOSA-TALAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY

LOCATION MAP





ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS DAM
ALABAMA POWER COMPANY
PLAN

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHARGE (CFS)																
1	0	1	0	0	0	0	542	551	560	568	576	584	592	600	608	616	624	631	639	639	639	639	639
2	0	1	1	0	0	0	1084	1102	1120	1136	1152	1168	1184	1200	1216	1232	1248	1262	1278	1278	1278	1278	1278
3	0	1	1	1	0	0	1626	1653	1680	1704	1728	1752	1776	1800	1824	1848	1872	1893	1917	1917	1917	1917	1917
4	0	1	1	1	1	0	2168	2204	2240	2272	2304	2336	2368	2400	2432	2464	2496	2524	2556	2556	2556	2556	2556
5	1	1	1	1	1	0	3042	3102	3162	3215	3269	3322	3374	3427	3478	3530	3581	3627	3678	3678	3678	3678	3678
6	1	1	1	1	1	1	3584	3653	3722	3783	3845	3906	3966	4027	4086	4146	4205	4258	4317	4317	4317	4317	4317
7	1	2	1	1	1	1	4542	4626	4710	4786	4864	4939	5014	5089	5162	5236	5308	5375	5447	5447	5447	5447	5447
8	1	2	2	1	1	1	5500	5599	5698	5789	5883	5972	6062	6151	6238	6326	6411	6492	6577	6577	6577	6577	6577
9	1	2	2	2	1	1	6458	6572	6686	6792	6902	7005	7110	7213	7314	7416	7514	7609	7707	7707	7707	7707	7707
10	1	2	2	2	2	1	7416	7545	7674	7795	7921	8038	8158	8275	8390	8506	8617	8726	8837	8837	8837	8837	8837
11	2	2	2	2	2	1	8704	8864	9023	9174	9329	9473	9622	9765	9907	10048	10184	10318	10453	10453	10453	10453	10453
12	2	2	2	2	2	2	9662	9837	10011	10177	10348	10506	10670	10827	10983	11138	11287	11435	11583	11583	11583	11583	11583
13	2	3	2	2	2	2	10622	10813	11003	11185	11371	11545	11723	11895	12066	12235	12398	12560	12722	12722	12722	12722	12722
14	2	3	3	2	2	2	11582	11789	11995	12193	12394	12584	12776	12963	13149	13332	13509	13685	13861	13861	13861	13861	13861
15	2	3	3	3	2	2	12542	12765	12987	13201	13417	13623	13829	14031	14232	14429	14620	14810	15000	15000	15000	15000	15000
16	2	3	3	3	3	2	13502	13741	13979	14209	14440	14662	14882	15099	15315	15526	15731	15935	16139	16139	16139	16139	16139
17	3	3	3	3	3	2	14790	15061	15330	15591	15852	16104	16351	16595	16839	17076	17307	17537	17766	17766	17766	17766	17766
18	3	3	3	3	3	3	15750	16037	16322	16599	16875	17143	17404	17663	17922	18173	18418	18662	18905	18905	18905	18905	18905
19	3	4	3	3	3	3	16712	17016	17317	17610	17901	18185	18462	18736	19009	19275	19535	19793	20050	20050	20050	20050	20050
20	3	4	4	3	3	3	17674	17995	18312	18621	18927	19227	19520	19809	20096	20377	20652	20924	21195	21195	21195	21195	21195

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
21	3	4	4	4	3	3	18636	18974	19307	19632	19953	20269	20578	20882	21183	21479	21769	22055	22340	22340	22340	22340	22340
22	3	4	4	4	4	3	19598	19953	20302	20643	20979	21311	21636	21955	22270	22581	22886	23186	23485	23485	23485	23485	23485
23	4	4	4	4	4	3	20885	21274	21655	22027	22393	22755	23110	23457	23799	24138	24470	24796	25120	25120	25120	25120	25120
24	4	4	4	4	4	4	21847	22253	22650	23038	23419	23797	24168	24530	24886	25240	25587	25927	26265	26265	26265	26265	26265
25	4	5	4	4	4	4	22812	23235	23649	24054	24451	24845	25232	25609	25981	26350	26712	27067	27420	27420	27420	27420	27420
26	4	5	5	4	4	4	23777	24217	24648	25070	25483	25893	26296	26688	27076	27460	27837	28207	28575	28575	28575	28575	28575
27	4	5	5	5	4	4	24742	25199	25647	26086	26515	26941	27360	27767	28171	28570	28962	29347	29730	29730	29730	29730	29730
28	4	5	5	5	5	4	25707	26181	26646	27102	27547	27989	28424	28846	29266	29680	30087	30487	30885	30885	30885	30885	30885
29	5	5	5	5	5	4	26993	27502	28000	28490	28965	29438	29903	30355	30804	31246	31680	32107	32533	32533	32533	32533	32533
30	5	5	5	5	5	5	27958	28484	28999	29506	29997	30486	30967	31434	31899	32356	32805	33247	33688	33688	33688	33688	33688
31	5	6	5	5	5	5	28924	29468	30001	30525	31033	31538	32035	32519	33000	33472	33937	34394	34850	34850	34850	34850	34850
32	5	6	6	5	5	5	29890	30452	31003	31544	32069	32590	33103	33604	34101	34588	35069	35541	36012	36012	36012	36012	36012
33	5	6	6	6	5	5	30856	31436	32005	32563	33105	33642	34171	34689	35202	35704	36201	36688	37174	37174	37174	37174	37174
34	5	6	6	6	6	5	31822	32420	33007	33582	34141	34694	35239	35774	36303	36820	37333	37835	38336	38336	38336	38336	38336
35	6	6	6	6	6	5	33106	33740	34362	34970	35563	36147	36722	37288	37846	38392	38934	39464	39991	39991	39991	39991	39991
36	6	6	6	6	6	6	34072	34724	35364	35989	36599	37199	37790	38373	38947	39508	40066	40611	41153	41153	41153	41153	41153
37	6	7	6	6	6	6	35038	35708	36365	37008	37636	38253	38861	39460	40050	40628	41201	41762	42319	42319	42319	42319	42319
38	6	7	7	6	6	6	36004	36692	37366	38027	38673	39307	39932	40547	41153	41748	42336	42913	43485	43485	43485	43485	43485
39	6	7	7	7	6	6	36970	37676	38367	39046	39710	40361	41003	41634	42256	42868	43471	44064	44651	44651	44651	44651	44651
40	6	7	7	7	7	6	37936	38660	39368	40065	40747	41415	42074	42721	43359	43988	44606	45215	45817	45817	45817	45817	45817
41	6	8	7	7	7	6	38899	39642	40368	41083	41783	42469	43145	43809	44463	45108	45743	46368	46985	46985	46985	46985	46985

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
42	6	8	8	7	7	6	39862	40624	41368	42101	42819	43523	44216	44897	45567	46228	46880	47521	48153	48153	48153	48153	48153
43	6	8	8	8	7	6	40825	41606	42368	43119	43855	44577	45287	45985	46671	47348	48017	48674	49321	49321	49321	49321	49321
44	6	8	8	8	8	6	41788	42588	43368	44137	44891	45631	46358	47073	47775	48468	49154	49827	50489	50489	50489	50489	50489
45	6	9	8	8	8	6	42746	43566	44365	45153	45925	46682	47427	48160	48879	49589	50291	50981	51659	51659	51659	51659	51659
46	6	9	9	8	8	6	43704	44544	45362	46169	46959	47733	48496	49247	49983	50710	51428	52135	52829	52829	52829	52829	52829
47	6	9	9	9	8	6	44662	45522	46359	47185	47993	48784	49565	50334	51087	51831	52565	53289	53999	53999	53999	53999	53999
48	6	9	9	9	9	6	45620	46500	47356	48201	49027	49835	50634	51421	52191	52952	53702	54443	55169	55169	55169	55169	55169
49	6	10	9	9	9	6	46573	47472	48349	49212	50057	50884	51701	52505	53293	54071	54839	55596	56339	56339	56339	56339	56339
50	6	10	10	9	9	6	47526	48444	49342	50223	51087	51933	52768	53589	54395	55190	55976	56749	57509	57509	57509	57509	57509
51	6	10	10	10	9	6	48479	49416	50335	51234	52117	52982	53835	54673	55497	56309	57113	57902	58679	58679	58679	58679	58679
52	6	10	10	10	10	6	49432	50388	51328	52245	53147	54031	54902	55757	56599	57428	58250	59055	59849	59849	59849	59849	59849
53	6	11	10	10	10	6	50380	51356	52316	53253	54174	55077	55966	56840	57700	58547	59385	60207	61019	61019	61019	61019	61019
54	6	11	11	10	10	6	51328	52324	53304	54261	55201	56123	57030	57923	58801	59666	60520	61359	62189	62189	62189	62189	62189
55	6	11	11	11	10	6	52276	53292	54292	55269	56228	57169	58094	59006	59902	60785	61655	62511	63359	63359	63359	63359	63359
56	6	11	11	11	11	6	53224	54260	55280	56277	57255	58215	59158	60089	61003	61904	62790	63663	64529	64529	64529	64529	64529
57	6	12	11	11	11	6	54177	55235	56275	57292	58290	59270	60233	61182	62115	63034	63939	64830	65713	65713	65713	65713	65713
58	6	12	12	11	11	6	55130	56210	57270	58307	59325	60325	61308	62275	63227	64164	65088	65997	66897	66897	66897	66897	66897
59	6	12	12	12	11	6	56083	57185	58265	59322	60360	61380	62383	63368	64339	65294	66237	67164	68081	68081	68081	68081	68081
60	6	12	12	12	12	6	57036	58160	59260	60337	61395	62435	63458	64461	65451	66424	67386	68331	69265	69265	69265	69265	69265
61	6	13	12	12	12	6	57982	59128	60249	61348	62426	63486	64528	65551	66560	67552	68532	69495	70447	70447	70447	70447	70447
62	6	13	13	12	12	6	58928	60096	61238	62359	63457	64537	65598	66641	67669	68680	69678	70659	71629	71629	71629	71629	71629

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
63	6	13	13	13	12	6	59874	61064	62227	63370	64488	65588	66668	67731	68778	69808	70824	71823	72811	72811	72811	72811	72811
64	6	13	13	13	13	6	60820	62032	63216	64381	65519	66639	67738	68821	69887	70936	71970	72987	73993	73993	73993	73993	73993
65	6	14	13	13	13	6	61757	62991	64198	65384	66543	67684	68803	69906	70992	72060	73113	74149	75172	75172	75172	75172	75172
66	6	14	14	13	13	6	62694	63950	65180	66387	67567	68729	69868	70991	72097	73184	74256	75311	76351	76351	76351	76351	76351
67	6	14	14	14	13	6	63631	64909	66162	67390	68591	69774	70933	72076	73202	74308	75399	76473	77530	77530	77530	77530	77530
68	6	14	14	14	14	6	64568	65868	67144	68393	69615	70819	71998	73161	74307	75432	76542	77635	78709	78709	78709	78709	78709
69	6	15	14	14	14	6	65495	66819	68117	69388	70632	71856	73057	74240	75406	76550	77680	78791	79885	79885	79885	79885	79885
70	6	15	15	14	14	6	66422	67770	69090	70383	71649	72893	74116	75319	76505	77668	78818	79947	81061	81061	81061	81061	81061
71	6	15	15	15	14	6	67349	68721	70063	71378	72666	73930	75175	76398	77604	78786	79956	81103	82237	82237	82237	82237	82237
72	6	15	15	15	15	6	68276	69672	71036	72373	73683	74967	76234	77477	78703	79904	81094	82259	83413	83413	83413	83413	83413
73	6	16	15	15	15	6	69192	70611	71998	73358	74690	75997	77284	78549	79795	81016	82225	83410	84583	84583	84583	84583	84583
74	6	16	16	15	15	6	70108	71550	72960	74343	75697	77027	78334	79621	80887	82128	83356	84561	85753	85753	85753	85753	85753
75	6	16	16	16	15	6	71024	72489	73922	75328	76704	78057	79384	80693	81979	83240	84487	85712	86923	86923	86923	86923	86923
76	6	16	16	16	16	6	71940	73428	74884	76313	77711	79087	80434	81765	83071	84352	85618	86863	88093	88093	88093	88093	88093
77	6	17	16	16	16	6	72844	74356	75836	77288	78709	80106	81476	82827	84154	85457	86743	88008	89257	89257	89257	89257	89257
78	6	17	17	16	16	6	73748	75284	76788	78263	79707	81125	82518	83889	85237	86562	87868	89153	90421	90421	90421	90421	90421
79	6	17	17	17	16	6	74652	76212	77740	79238	80705	82144	83560	84951	86320	87667	88993	90298	91585	91585	91585	91585	91585
80	6	17	17	17	17	6	75556	77140	78692	80213	81703	83163	84602	86013	87403	88772	90118	91443	92749	92749	92749	92749	92749
81	6	18	17	17	17	6	76446	78055	79631	81176	82689	84172	85633	87066	88478	89867	91234	92579	93905	93905	93905	93905	93905
82	6	18	18	17	17	6	77336	78970	80570	82139	83675	85181	86664	88119	89553	90962	92350	93715	95061	95061	95061	95061	95061
83	6	18	18	18	17	6	78226	79885	81509	83102	84661	86190	87695	89172	90628	92057	93466	94851	96217	96217	96217	96217	96217

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
84	6	18	18	18	18	6	79116	80800	82448	84065	85647	87199	88726	90225	91703	93152	94582	95987	97373	97373	97373	97373	97373
85	6	19	18	18	18	6	79999	81709	83382	85023	86630	88205	89755	91277	92776	94247	95698	97124	98530	98530	98530	98530	98530
86	6	19	19	18	18	6	80882	82618	84316	85981	87613	89211	90784	92329	93849	95342	96814	98261	99687	99687	99687	99687	99687
87	6	19	19	19	18	6	81765	83527	85250	86939	88596	90217	91813	93381	94922	96437	97930	99398	100844	100844	100844	100844	100844
88	6	19	19	19	19	6	82648	84436	86184	87897	89579	91223	92842	94433	95995	97532	99046	100535	102001	102001	102001	102001	102001
89	6	20	19	19	19	6	83526	85341	87116	88854	90560	92229	93871	95485	97070	98629	100165	101676	103163	103163	103163	103163	103163
90	6	20	20	19	19	6	84404	86246	88048	89811	91541	93235	94900	96537	98145	99726	101284	102817	104325	104325	104325	104325	104325
91	6	20	20	20	19	6	85282	87151	88980	90768	92522	94241	95929	97589	99220	100823	102403	103958	105487	105487	105487	105487	105487
92	6	20	20	20	20	6	86160	88056	89912	91725	93503	95247	96958	98641	100295	101920	103522	105099	106649	106649	106649	106649	106649
93	6	21	20	20	20	6	87023	88947	90829	92669	94472	96241	97976	99683	101360	103008	104632	106230	107802	107802	107802	107802	107802
94	6	21	21	20	20	6	87886	89838	91746	93613	95441	97235	98994	100725	102425	104096	105742	107361	108955	108955	108955	108955	108955
95	6	21	21	21	20	6	88749	90729	92663	94557	96410	98229	100012	101767	103490	105184	106852	108492	110108	110108	110108	110108	110108
96	6	21	21	21	21	6	89612	91620	93580	95501	97379	99223	101030	102809	104555	106272	107962	109623	111261	111261	111261	111261	111261
97	6	22	21	21	21	6	90459	92495	94482	96430	98334	100203	102036	103839	105609	107349	109062	110745	112405	112405	112405	112405	112405
98	6	22	22	21	21	6	91306	93370	95384	97359	99289	101183	103042	104869	106663	108426	110162	111867	113549	113549	113549	113549	113549
99	6	22	22	22	21	6	92153	94245	96286	98288	100244	102163	104048	105899	107717	109503	111262	112989	114693	114693	114693	114693	114693
100	6	22	22	22	22	6	93000	95120	97188	99217	101199	103143	105054	106929	108771	110580	112362	114111	115837	115837	115837	115837	115837
101	6	23	22	22	22	6	93830	95978	98075	100131	102140	104110	106046	107946	109812	111645	113450	115222	116971	116971	116971	116971	116971
102	6	23	23	22	22	6	94660	96836	98962	101045	103081	105077	107038	108963	110853	112710	114538	116333	118105	118105	118105	118105	118105
103	6	23	23	23	22	6	95490	97694	99849	101959	104022	106044	108030	109980	111894	113775	115626	117444	119239	119239	119239	119239	119239
104	6	23	23	23	23	6	96320	98552	100736	102873	104963	107011	109022	110997	112935	114840	116714	118555	120373	120373	120373	120373	120373

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 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
105	6	24	23	23	23	6	97131	99394	101607	103771	105889	107964	110000	112000	113963	115892	117790	119655	121495	121495	121495	121495	121495
106	6	24	24	23	23	6	97942	100236	102478	104669	106815	108917	110978	113003	114991	116944	118866	120755	122617	122617	122617	122617	122617
107	6	24	24	24	23	6	98753	101078	103349	105567	107741	109870	111956	114006	116019	117996	119942	121855	123739	123739	123739	123739	123739
108	6	24	24	24	24	6	99564	101920	104220	106465	108667	110823	112934	115009	117047	119048	121018	122955	124861	124861	124861	124861	124861
109	6	25	24	24	24	6	100357	102743	105072	107347	109577	111760	113898	115999	118062	120088	122082	124042	125972	125972	125972	125972	125972
110	6	25	25	24	24	6	101150	103566	105924	108229	110487	112697	114862	116989	119077	121128	123146	125129	127083	127083	127083	127083	127083
111	6	25	25	25	24	6	101943	104389	106776	109111	111397	113634	115826	117979	120092	122168	124210	126216	128194	128194	128194	128194	128194
112	6	25	25	25	25	6	102736	105212	107628	109993	112307	114571	116790	118969	121107	123208	125274	127303	129305	129305	129305	129305	129305
113	6	26	25	25	25	6	103508	106016	108463	110857	113200	115492	117738	119943	122107	124234	126324	128378	130403	130403	130403	130403	130403
114	6	26	26	25	25	6	104280	106820	109298	111721	114093	116413	118686	120917	123107	125260	127374	129453	131501	131501	131501	131501	131501
115	6	26	26	26	25	6	105052	107624	110133	112585	114986	117334	119634	121891	124107	126286	128424	130528	132599	132599	132599	132599	132599
116	6	26	26	26	26	6	105824	108428	110968	113449	115879	118255	120582	122865	125107	127312	129474	131603	133697	133697	133697	133697	133697
117	6	27	26	26	26	6	106576	109213	111784	114295	116754	119159	121514	123824	126093	128323	130511	132664	134782	134782	134782	134782	134782
118	6	27	27	26	26	6	107328	109998	112600	115141	117629	120063	122446	124783	127079	129334	131548	133725	135867	135867	135867	135867	135867
119	6	27	27	27	26	6	108080	110783	113416	115987	118504	120967	123378	125742	128065	130345	132585	134786	136952	136952	136952	136952	136952
120	6	27	27	27	27	6	108832	111568	114232	116833	119379	121871	124310	126701	129051	131356	133622	135847	138037	138037	138037	138037	138037
121	6	28	27	27	27	6	109563	112332	115028	117661	120236	122757	125225	127644	130020	132352	134643	136894	139109	139109	139109	139109	139109
122	6	28	28	27	27	6	110294	113096	115824	118489	121093	123643	126140	128587	130989	133348	135664	137941	140181	140181	140181	140181	140181
123	6	28	28	28	27	6	111025	113860	116620	119317	121950	124529	127055	129530	131958	134344	136685	138988	141253	141253	141253	141253	141253
124	6	28	28	28	28	6	111756	114624	117416	120145	122807	125415	127970	130473	132927	135340	137706	140035	142325	142325	142325	142325	142325
125	6	29	28	28	28	6	112465	115367	118192	120953	123646	126284	128868	131399	133881	136320	138713	141067	143382	143382	143382	143382	143382

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 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
126	6	29	29	28	28	6	113174	116110	118968	121761	124485	127153	129766	132325	134835	137300	139720	142099	144439	144439	144439	144439	144439
127	6	29	29	29	28	6	113883	116853	119744	122569	125324	128022	130664	133251	135789	138280	140727	143131	145496	145496	145496	145496	145496
128	6	29	29	29	29	6	114592	117596	120520	123377	126163	128891	131562	134177	136743	139260	141734	144163	146553	146553	146553	146553	146553
129	6	30	29	29	29	6	115098	118318	121276	124165	126983	129741	132442	135086	137680	140224	142725	145180	147595	147595	147595	147595	147595
130	6	30	30	29	29	6	115604	119040	122032	124953	127803	130591	133322	135995	138617	141188	143716	146197	148637	148637	148637	148637	148637
131	6	30	30	30	29	6	116110	119762	122788	125741	128623	131441	134202	136904	139554	142152	144707	147214	149679	149679	149679	149679	149679
132	6	30	30	30	30	6	116616	120484	123544	126529	129443	132291	135082	137813	140491	143116	145698	148231	150721	150721	150721	150721	150721
133	6	31	30	30	30	6	116616	120921	124278	127297	130243	133123	135944	138704	141411	144064	146673	149233	151749	151749	151749	151749	151749
134	6	31	31	30	30	6	116616	121358	125012	128065	131043	133955	136806	139595	142331	145012	147648	150235	152777	152777	152777	152777	152777
135	6	31	31	31	30	6	116616	121795	125746	128833	131843	134787	137668	140486	143251	145960	148623	151237	153805	153805	153805	153805	153805
136	6	31	31	31	31	6	116616	122232	126480	129601	132643	135619	138530	141377	144171	146908	149598	152239	154833	154833	154833	154833	154833
137	6	32	31	31	31	6	116616	122232	126903	130348	133423	136431	139372	142250	145073	147839	150556	153224	155845	155845	155845	155845	155845
138	6	32	32	31	31	6	116616	122232	127326	131095	134203	137243	140214	143123	145975	148770	151514	154209	156857	156857	156857	156857	156857
139	6	32	32	32	31	6	116616	122232	127749	131842	134983	138055	141056	143996	146877	149701	152472	155194	157869	157869	157869	157869	157869
140	6	32	32	32	32	6	116616	122232	128172	132589	135763	138867	141898	144869	147779	150632	153430	156179	158881	158881	158881	158881	158881
141	6	33	32	32	32	6	116616	122232	128172	132968	136523	139659	142722	145724	148664	151545	154372	157148	159877	159877	159877	159877	159877
142	6	33	33	32	32	6	116616	122232	128172	133347	137283	140451	143546	146579	149549	152458	155314	158117	160873	160873	160873	160873	160873
143	6	33	33	33	32	6	116616	122232	128172	133726	138043	141243	144370	147434	150434	153371	156256	159086	161869	161869	161869	161869	161869
144	6	33	33	33	33	6	116616	122232	128172	134105	138803	142035	145194	148289	151319	154284	157198	160055	162865	162865	162865	162865	162865
145	6	34	33	33	33	6	116616	122232	128172	134105	139193	142807	145999	149125	152185	155180	158123	161008	163845	163845	163845	163845	163845
146	6	34	34	33	33	6	116616	122232	128172	134105	139583	143579	146804	149961	153051	156076	159048	161961	164825	164825	164825	164825	164825

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GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
147	6	34	34	34	33	6	116616	122232	128172	134105	139973	144351	147609	150797	153917	156972	159973	162914	165805	165805	165805	165805	165805
148	6	34	34	34	34	6	116616	122232	128172	134105	140363	145123	148414	151633	154783	157868	160898	163867	166785	166785	166785	166785	166785
149	6	35	34	34	34	6	116616	122232	128172	134105	140363	145497	149199	152450	155631	158746	161805	164803	167749	167749	167749	167749	167749
150	6	35	35	34	34	6	116616	122232	128172	134105	140363	145871	149984	153267	156479	159624	162712	165739	168713	168713	168713	168713	168713
151	6	35	35	35	34	6	116616	122232	128172	134105	140363	146245	150769	154084	157327	160502	163619	166675	169677	169677	169677	169677	169677
152	6	35	35	35	35	6	116616	122232	128172	134105	140363	146619	151554	154901	158175	161380	164526	167611	170641	170641	170641	170641	170641
153	6	36	35	35	35	6	116616	122232	128172	134105	140363	146619	151882	155698	159004	162240	165416	168530	171588	171588	171588	171588	171588
154	6	36	36	35	35	6	116616	122232	128172	134105	140363	146619	152210	156495	159833	163100	166306	169449	172535	172535	172535	172535	172535
155	6	36	36	36	35	6	116616	122232	128172	134105	140363	146619	152538	157292	160662	163960	167196	170368	173482	173482	173482	173482	173482
156	6	36	36	36	36	6	116616	122232	128172	134105	140363	146619	152866	158089	161491	164820	168086	171287	174429	174429	174429	174429	174429
157	6	37	36	36	36	6	116616	122232	128172	134105	140363	146619	152866	158378	162302	165662	168958	172188	175359	175359	175359	175359	175359
158	6	37	37	36	36	6	116616	122232	128172	134105	140363	146619	152866	158667	163113	166504	169830	173089	176289	176289	176289	176289	176289
159	6	37	37	37	36	6	116616	122232	128172	134105	140363	146619	152866	158956	163924	167346	170702	173990	177219	177219	177219	177219	177219
160	6	37	37	37	37	6	116616	122232	128172	134105	140363	146619	152866	159245	164735	168188	171574	174891	178149	178149	178149	178149	178149
161	6	38	37	37	37	6	116616	122232	128172	134105	140363	146619	152866	159245	164973	169012	172428	175776	179062	179062	179062	179062	179062
162	6	38	38	37	37	6	116616	122232	128172	134105	140363	146619	152866	159245	165211	169836	173282	176661	179975	179975	179975	179975	179975
163	6	38	38	38	37	6	116616	122232	128172	134105	140363	146619	152866	159245	165449	170660	174136	177546	180888	180888	180888	180888	180888
164	6	38	38	38	38	6	116616	122232	128172	134105	140363	146619	152866	159245	165687	171484	174990	178431	181801	181801	181801	181801	181801
165	6	39	38	38	38	6	116616	122232	128172	134105	140363	146619	152866	159245	165687	171676	175827	179298	182698	182698	182698	182698	182698
166	6	39	39	38	38	6	116616	122232	128172	134105	140363	146619	152866	159245	165687	171868	176664	180165	183595	183595	183595	183595	183595
167	6	39	39	39	38	6	116616	122232	128172	134105	140363	146619	152866	159245	165687	172060	177501	181032	184492	184492	184492	184492	184492

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GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
168	6	39	39	39	39	6	116616	122232	128172	134105	140363	146619	152866	159245	165687	172252	178338	181899	185389	185389	185389	185389	185389
169	6	40	39	39	39	6	116616	122232	128172	132689	140363	146619	152866	159245	165687	172252	178541	182748	186269	186269	186269	186269	186269
170	6	40	40	39	39	6	116616	122232	128172	131273	140363	146619	152866	159245	165687	172252	178744	183597	187149	187149	187149	187149	187149
171	6	40	40	40	39	6	116616	122232	128172	129857	140363	146619	152866	159245	165687	172252	178947	184446	188029	188029	188029	188029	188029
172	6	40	40	40	40	6	116616	122232	128172	128441	140363	146619	152866	159245	165687	172252	179150	185295	188909	188909	188909	188909	188909
173	7	40	40	40	40	6	117895	123548	129524	129828	141783	148072	154352	160761	167233	173828	180755	186928	190570	190570	190570	190570	190570
174	8	40	40	40	40	6	119167	124858	130871	131210	143201	149524	155836	162277	168780	175405	182362	188565	192235	192235	192235	192235	192235
175	9	40	40	40	40	6	120429	126161	132211	132588	144614	150971	157317	163791	170326	176982	183969	190203	193902	193902	193902	193902	193902
176	10	40	40	40	40	6	121680	127452	133544	133958	146020	152413	158794	165301	171869	178557	185577	191840	195570	195570	195570	195570	195570
177	11	40	40	40	40	6	122921	128735	134867	135320	147421	153850	160266	166809	173410	180132	187182	193476	197238	197238	197238	197238	197238
178	12	40	40	40	40	6	124159	130018	136192	136686	148826	155294	161747	168324	174961	181716	188800	195127	198920	198920	198920	198920	198920
179	13	40	40	40	40	6	125384	131289	137507	138043	150223	156730	163220	169835	176507	183297	190415	196775	200601	200601	200601	200601	200601
180	14	40	40	40	40	6	126592	132544	138808	139388	151609	158156	164685	171338	178047	184873	192026	198420	202278	202278	202278	202278	202278
181	15	40	40	40	40	6	127782	133785	140095	140719	152983	159571	166141	172832	179579	186441	193630	200058	203951	203951	203951	203951	203951
182	16	40	40	40	40	6	128797	135005	141364	142034	154343	160974	167584	174316	181101	188000	195225	201690	205617	205617	205617	205617	205617
183	17	40	40	40	40	6	129701	136101	142616	143334	155688	162362	169015	175787	182612	189551	196813	203314	207276	207276	207276	207276	207276
184	18	40	40	40	40	6	130591	137016	143792	144614	157016	163735	170431	177245	184111	191088	198389	204927	208926	208926	208926	208926	208926
185	19	40	40	40	40	6	131474	137925	144726	145881	158334	165099	171840	178697	185605	192623	199963	206539	210575	210575	210575	210575	210575
186	20	40	40	40	40	6	132352	138830	145658	146838	159644	166458	173244	180146	187096	194156	201536	208153	212227	212227	212227	212227	212227
187	21	40	40	40	40	6	133215	139721	146575	147782	160664	167798	174632	181580	188574	195676	203098	209754	213868	213868	213868	213868	213868
188	22	40	40	40	40	6	134062	140596	147477	148711	161619	168882	176002	182996	190036	197182	204646	211343	215498	215498	215498	215498	215498

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GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																						
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)															
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)															
189	23	40	40	40	40	6	134892	141454	148364	149625	162560	169849	177150	184394	191480	198671	206179	212918	217114	217114	217114	217114
190	24	40	40	40	40	6	135703	142296	149235	150523	163486	170802	178128	185604	192906	200143	207695	214479	218716	218716	218716	218716
191	25	40	40	40	40	6	136496	143119	150087	151405	164396	171739	179092	186594	194177	201598	209196	216022	220303	220303	220303	220303
192	26	40	40	40	40	6	137268	143923	150922	152269	165289	172660	180040	187568	195177	202925	210677	217550	221874	221874	221874	221874
193	27	40	40	40	40	6	138020	144708	151738	153115	166164	173564	180972	188527	196163	203936	212058	219059	223427	223427	223427	223427
194	28	40	40	40	40	6	138751	145472	152534	153943	167021	174450	181887	189470	197132	204932	213079	220489	224964	224964	224964	224964
195	29	40	40	40	40	6	139460	146215	153310	154751	167860	175319	182785	190396	198086	205912	214086	221521	226439	226439	226439	226439
196	30	40	40	40	40	6	139966	146937	154066	155539	168680	176169	183665	191305	199023	206876	215077	222538	227481	227481	227481	227481
197	31	40	40	40	40	6	139966	147374	154800	156307	169480	177001	184527	192196	199943	207824	216052	223540	228509	228509	228509	228509
198	32	40	40	40	40	6	139966	147374	155223	157054	170260	177813	185369	193069	200845	208755	217010	224525	229521	229521	229521	229521
199	33	40	40	40	40	6	139966	147374	155223	157433	171020	178605	186193	193924	201730	209668	217952	225494	230517	230517	230517	230517
200	34	40	40	40	40	6	139966	147374	155223	157433	171410	179377	186998	194760	202596	210564	218877	226447	231497	231497	231497	231497
201	35	40	40	40	40	6	139966	147374	155223	157433	171410	179751	187783	195577	203444	211442	219784	227383	232461	232461	232461	232461
202	36	40	40	40	40	6	139966	147374	155223	157433	171410	179751	188111	196374	204273	212302	220674	228302	233408	233408	233408	233408
203	37	40	40	40	40	6	139966	147374	155223	157433	171410	179751	188111	196663	205084	213144	221546	229203	234338	234338	234338	234338
204	38	40	40	40	40	6	139966	147374	155223	157433	171410	179751	188111	196663	205322	213968	222400	230088	235251	235251	235251	235251
205	39	40	40	40	40	6	139966	147374	155223	157433	171410	179751	188111	196663	205322	214160	223237	230955	236148	236148	236148	236148
206	40	40	40	40	40	6	139966	147374	155223	156017	171410	179751	188111	196663	205322	214160	223440	231804	237028	237028	237028	237028
207	40	40	40	40	40	7	140932	148358	156224	157036	172447	180805	189182	197750	206425	215280	224575	232955	238194	238194	238194	238194
208	40	40	40	40	40	8	141895	149340	157224	158054	173483	181859	190253	198838	207529	216400	225712	234108	239362	239362	239362	239362
209	40	40	40	40	40	9	142853	150318	158221	159070	174517	182910	191322	199925	208633	217521	226849	235262	240532	240532	240532	240532

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
210	40	40	40	40	40	10	143806	151290	159214	160081	175547	183959	192389	201009	209735	218640	227986	236415	241702	241702	241702	241702	241702
211	40	40	40	40	40	11	144754	152258	160202	161089	176574	185005	193453	202092	210836	219759	229121	237567	242872	242872	242872	242872	242872
212	40	40	40	40	40	12	145707	153233	161197	162104	177609	186060	194528	203185	211948	220889	230270	238734	244056	244056	244056	244056	244056
213	40	40	40	40	40	13	146653	154201	162186	163115	178640	187111	195598	204275	213057	222017	231416	239898	245238	245238	245238	245238	245238
214	40	40	40	40	40	14	147590	155160	163168	164118	179664	188156	196663	205360	214162	223141	232559	241060	246417	246417	246417	246417	246417
215	40	40	40	40	40	15	148517	156111	164141	165113	180681	189193	197722	206439	215261	224259	233697	242216	247593	247593	247593	247593	247593
216	40	40	40	40	40	16	149433	157050	165103	166098	181688	190223	198772	207511	216353	225371	234828	243367	248763	248763	248763	248763	248763
217	40	40	40	40	40	17	150337	157978	166055	167073	182686	191242	199814	208573	217436	226476	235953	244512	249927	249927	249927	249927	249927
218	40	40	40	40	40	18	151227	158893	166994	168036	183672	192251	200845	209626	218511	227571	237069	245648	251083	251083	251083	251083	251083
219	40	40	40	40	40	19	152110	159802	167928	168994	184655	193257	201874	210678	219584	228666	238185	246785	252240	252240	252240	252240	252240
220	40	40	40	40	40	20	152988	160707	168860	169951	185636	194263	202903	211730	220659	229763	239304	247926	253402	253402	253402	253402	253402
221	40	40	40	40	40	21	153851	161598	169777	170895	186605	195257	203921	212772	221724	230851	240414	249057	254555	254555	254555	254555	254555
222	40	40	40	40	40	22	154698	162473	170679	171824	187560	196237	204927	213802	222778	231928	241514	250179	255699	255699	255699	255699	255699
223	40	40	40	40	40	23	155528	163331	171566	172738	188501	197204	205919	214819	223819	232993	242602	251290	256833	256833	256833	256833	256833
224	40	40	40	40	40	24	156339	164173	172437	173636	189427	198157	206897	215822	224847	234045	243678	252390	257955	257955	257955	257955	257955
225	40	40	40	40	40	25	157132	164996	173289	174518	190337	199094	207861	216812	225862	235085	244742	253477	259066	259066	259066	259066	259066
226	40	40	40	40	40	26	157904	165800	174124	175382	191230	200015	208809	217786	226862	236111	245792	254552	260164	260164	260164	260164	260164
227	40	40	40	40	40	27	158656	166585	174940	176228	192105	200919	209741	218745	227848	237122	246829	255613	261249	261249	261249	261249	261249
228	40	40	40	40	40	28	159387	167349	175736	177056	192962	201805	210656	219688	228817	238118	247850	256660	262321	262321	262321	262321	262321
229	40	40	40	40	40	29	160096	168092	176512	177864	193801	202674	211554	220614	229771	239098	248857	257692	263378	263378	263378	263378	263378
230	40	40	40	40	40	30	160602	168814	177268	178652	194621	203524	212434	221523	230708	240062	249848	258709	264420	264420	264420	264420	264420

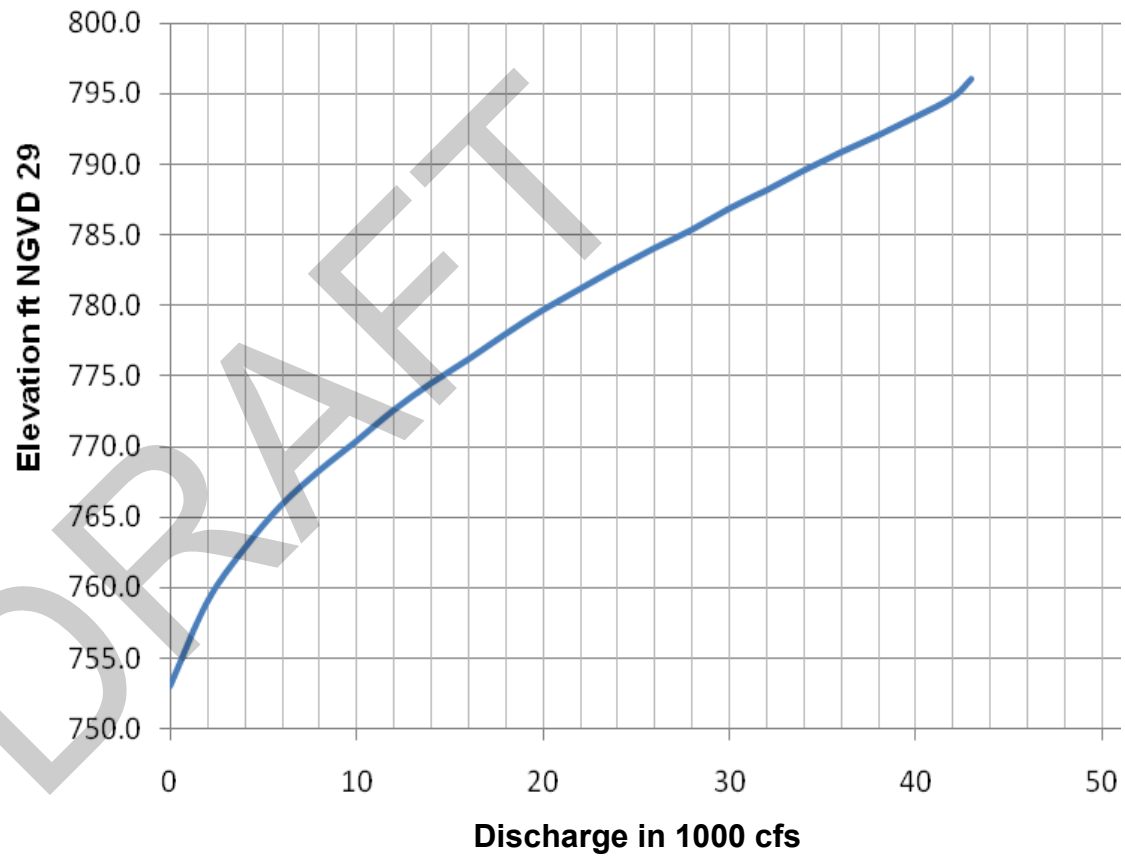
ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

GATE OPENING SCHEDULE																							
GATE STEP	GATE NUMBER						POOL ELEVATION (FT NGVD 29)																
	1	2	3	4	5	6	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
	OPENING IN RATCHET STEPS						SPILLWAY DISCHAGE (CFS)																
231	40	40	40	40	40	31	160602	169251	178002	179420	195421	204356	213296	222414	231628	241010	250823	259711	265448	265448	265448	265448	265448
232	40	40	40	40	40	32	160602	169251	178425	180167	196201	205168	214138	223287	232530	241941	251781	260696	266460	266460	266460	266460	266460
233	40	40	40	40	40	33	160602	169251	178425	180546	196961	205960	214962	224142	233415	242854	252723	261665	267456	267456	267456	267456	267456
234	40	40	40	40	40	34	160602	169251	178425	180546	197351	206732	215767	224978	234281	243750	253648	262618	268436	268436	268436	268436	268436
235	40	40	40	40	40	35	160602	169251	178425	180546	197351	207106	216552	225795	235129	244628	254555	263554	269400	269400	269400	269400	269400
236	40	40	40	40	40	36	160602	169251	178425	180546	197351	207106	216880	226592	235958	245488	255445	264473	270347	270347	270347	270347	270347
237	40	40	40	40	40	37	160602	169251	178425	180546	197351	207106	216880	226881	236769	246330	256317	265374	271277	271277	271277	271277	271277
238	40	40	40	40	40	38	160602	169251	178425	180546	197351	207106	216880	226881	237007	247154	257171	266259	272190	272190	272190	272190	272190
239	40	40	40	40	40	39	160602	169251	178425	180546	197351	207106	216880	226881	237007	247346	258008	267126	273087	273087	273087	273087	273087
240	40	40	40	40	40	40	160602	169251	178425	179130	197351	207106	216880	226881	237007	247346	258211	267975	273967	273967	273967	273967	273967

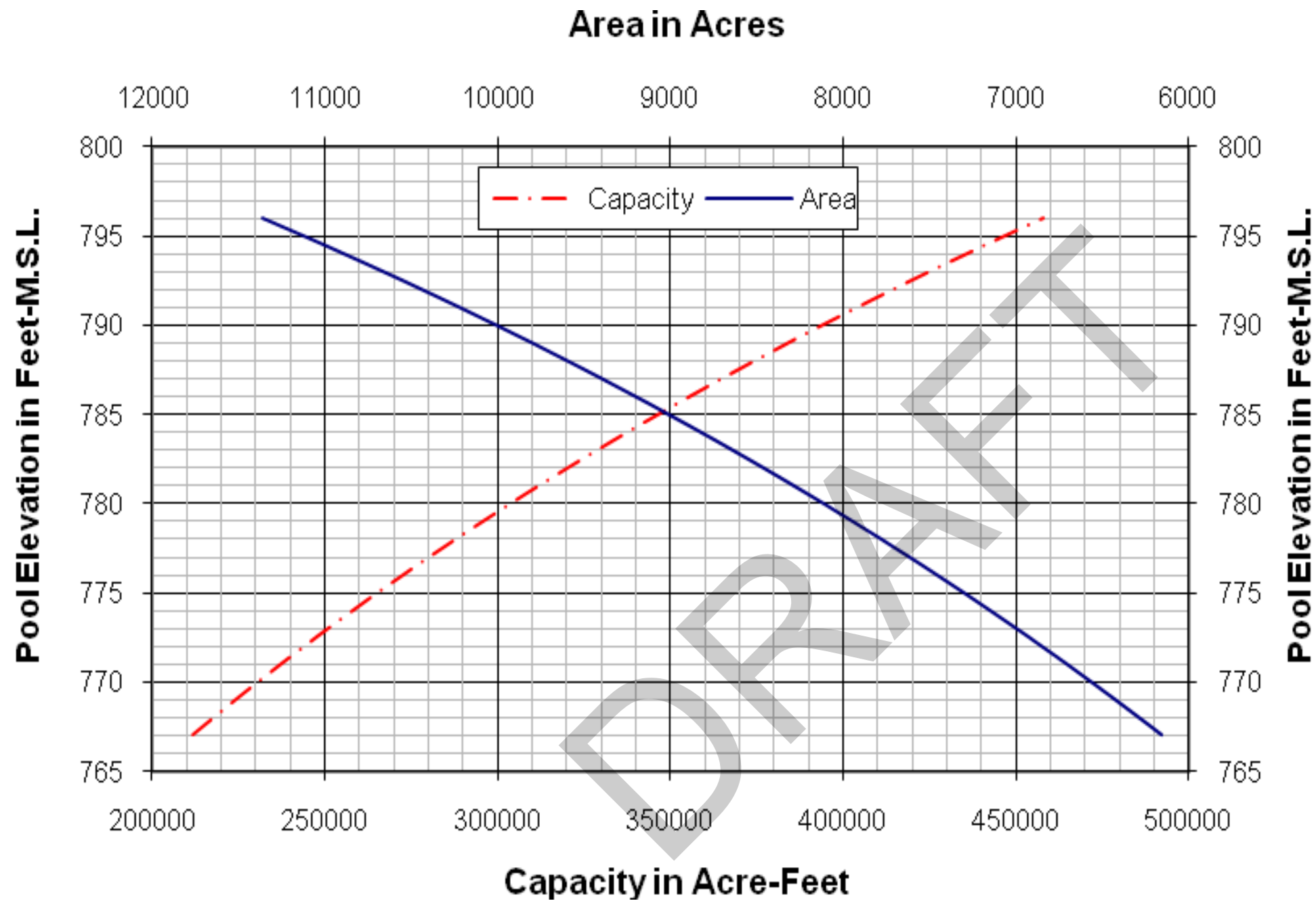
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ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
GATE OPENING SCHEDULE

Discharge in 1000 cfs	Elevation ft NGVD 29
0	753.0
2	759.0
4	762.8
6	765.9
8	768.3
10	770.4
12	772.6
14	774.5
16	776.2
18	778.0
20	779.7
22	781.2
24	782.7
26	784.1
28	785.4
30	786.9
32	788.2
34	789.6
36	790.9
38	792.1
40	793.4
42	794.8
43	796.1

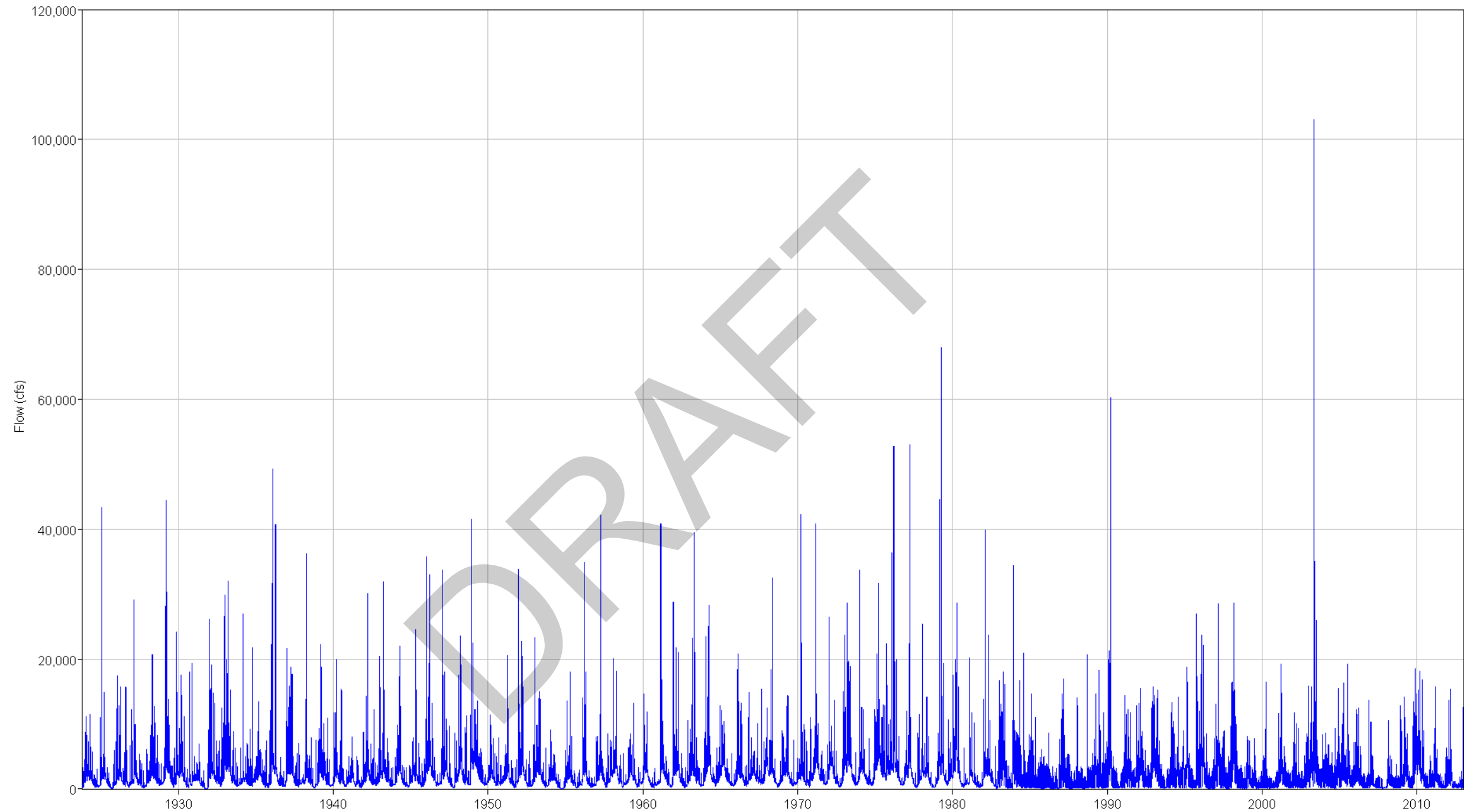


ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
**SPILLWAY DISCHARGE RATING
 FOR A SINGLE GATE**



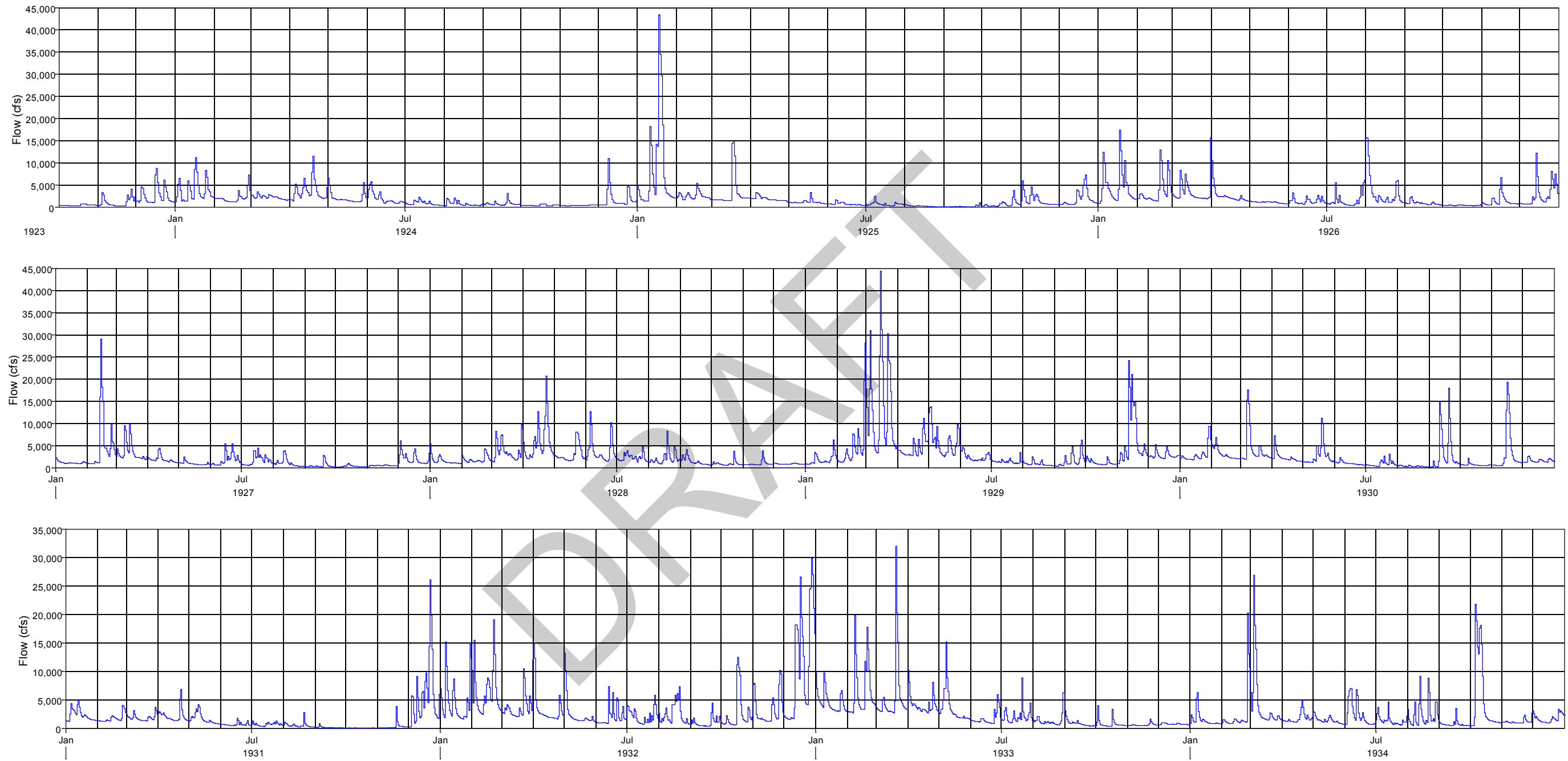
Pool Elev.	Total Area	Total Storage	Pool Elev.	Total Area	Total Storage
767	6156	211812	781.5	8375	316244
767.5	6223	214901	782	8463	320445
768	6291	218025	782.5	8552	324692
768.5	6359	221181	783	8642	328982
769	6428	224373	783.5	8733	333319
769.5	6497	227599	784	8825	337701
770	6567	230858	784.5	8918	342128
770.5	6638	234154	785	9012	346603
771	6709	237485	785.5	9106	351125
771.5	6781	240853	786	9202	355695
772	6854	244254	786.5	9299	360312
772.5	6927	247694	787	9397	364979
773	7001	251171	787.5	9496	369693
773.5	7076	254683	788	9596	374459
774	7151	258234	788.5	9697	379275
774.5	7228	261823	789	9799	384141
775	7304	265449	789.5	9903	389058
775.5	7382	269134	790	10007	394028
776	7460	272818	790.5	10113	399051
776.5	7539	276562	791	10220	404126
777	7619	280344	791.5	10328	409254
777.5	7700	284168	792	10437	414438
778	7781	288031	792.5	10548	419675
778.5	7864	291935	793	10660	424969
779	7947	295881	793.5	10773	430319
779.5	8031	299869	794	10887	435725
780	8115	303898	794.5	11003	441190
780.5	8201	307969	795	11120	446711
781	8287	312086	795.5	11239	452291
			796	11359	457932

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
AREA CAPACITY CURVES



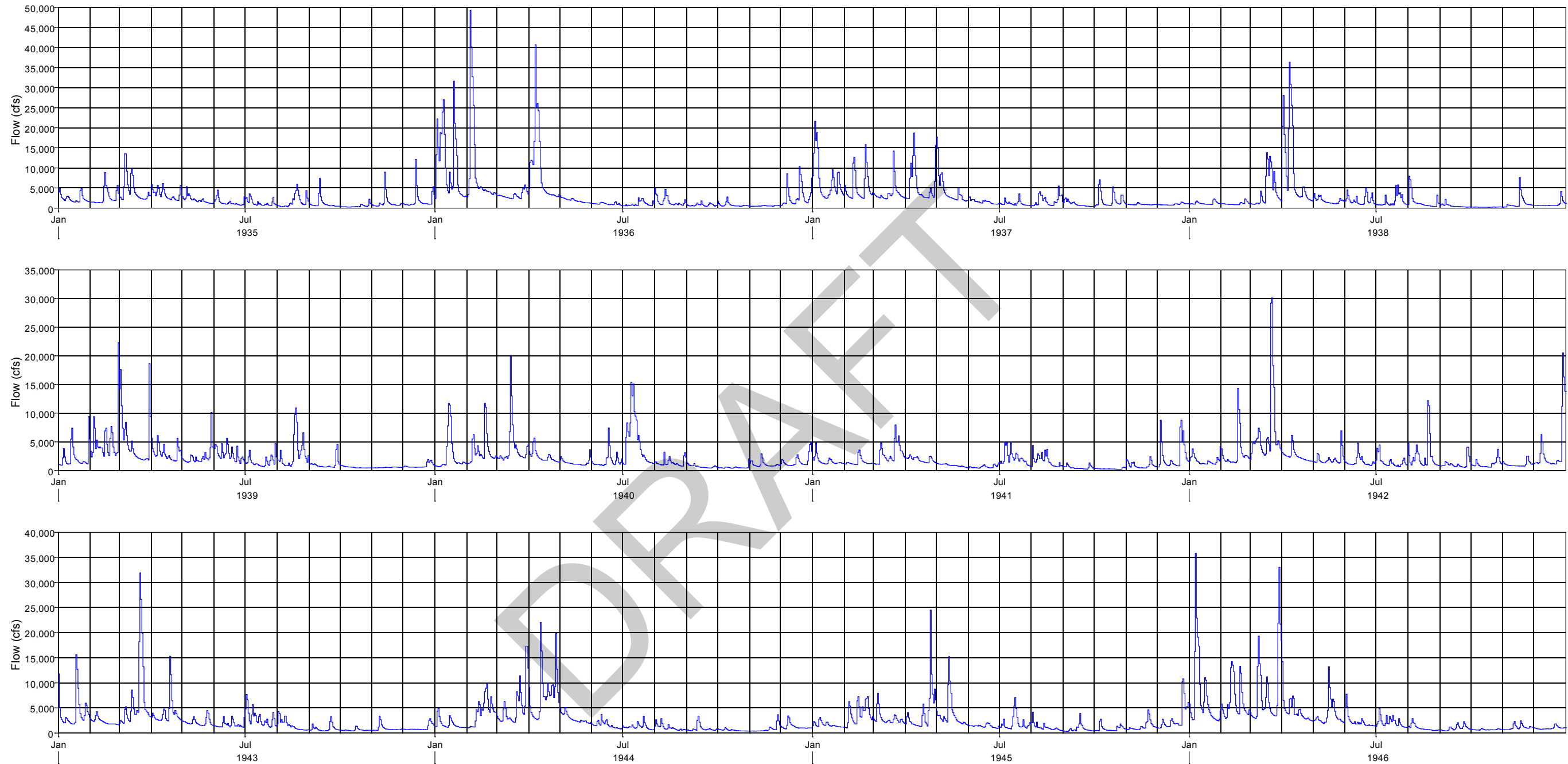
MEAN DAILY FLOW (USGS GAGE 02414500)
TALLAPOOSA RIVER AT WADLEY AL ABAMA
1 OCT 1923 TO 31 DEC 2012

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



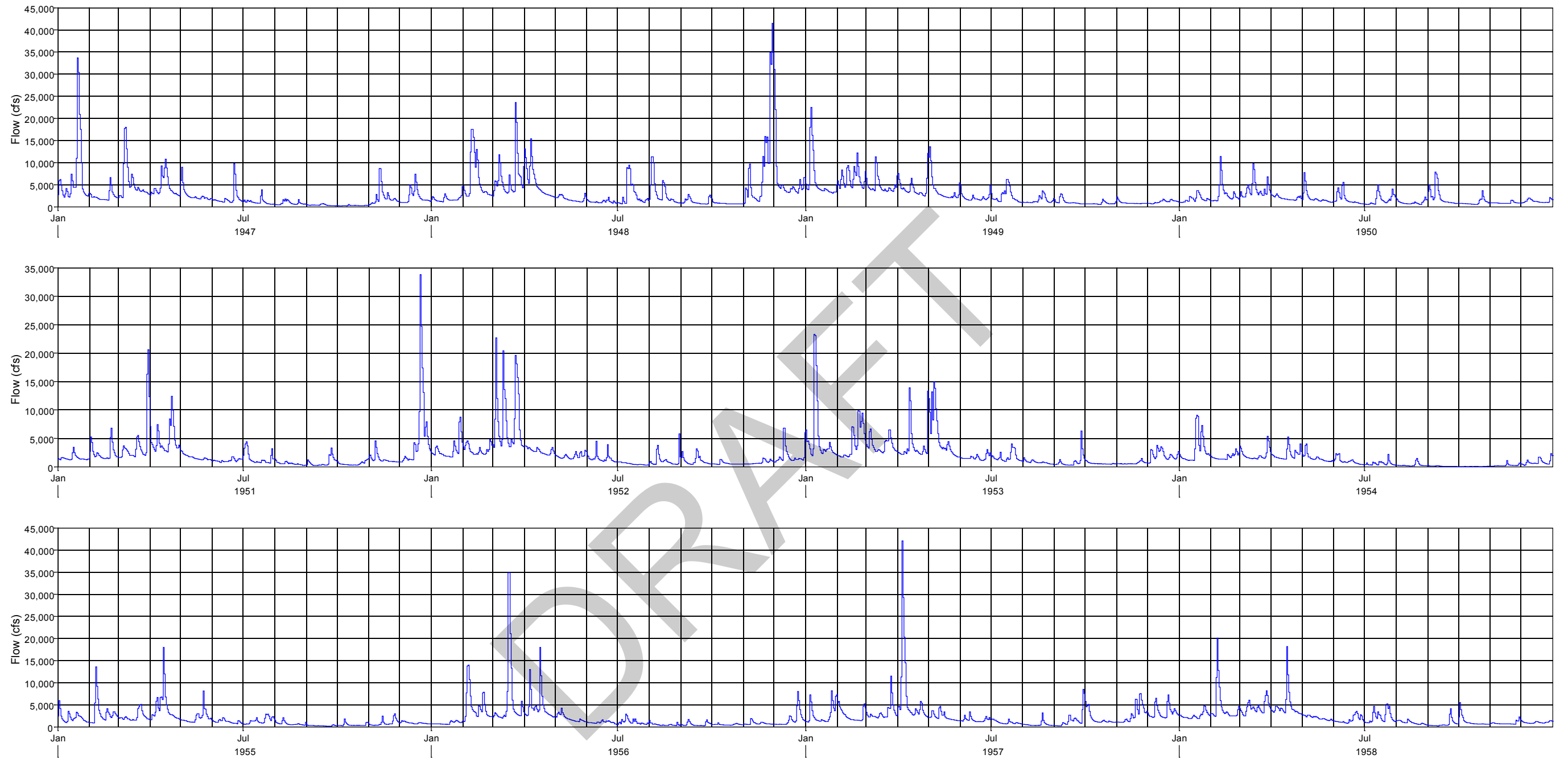
MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

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DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



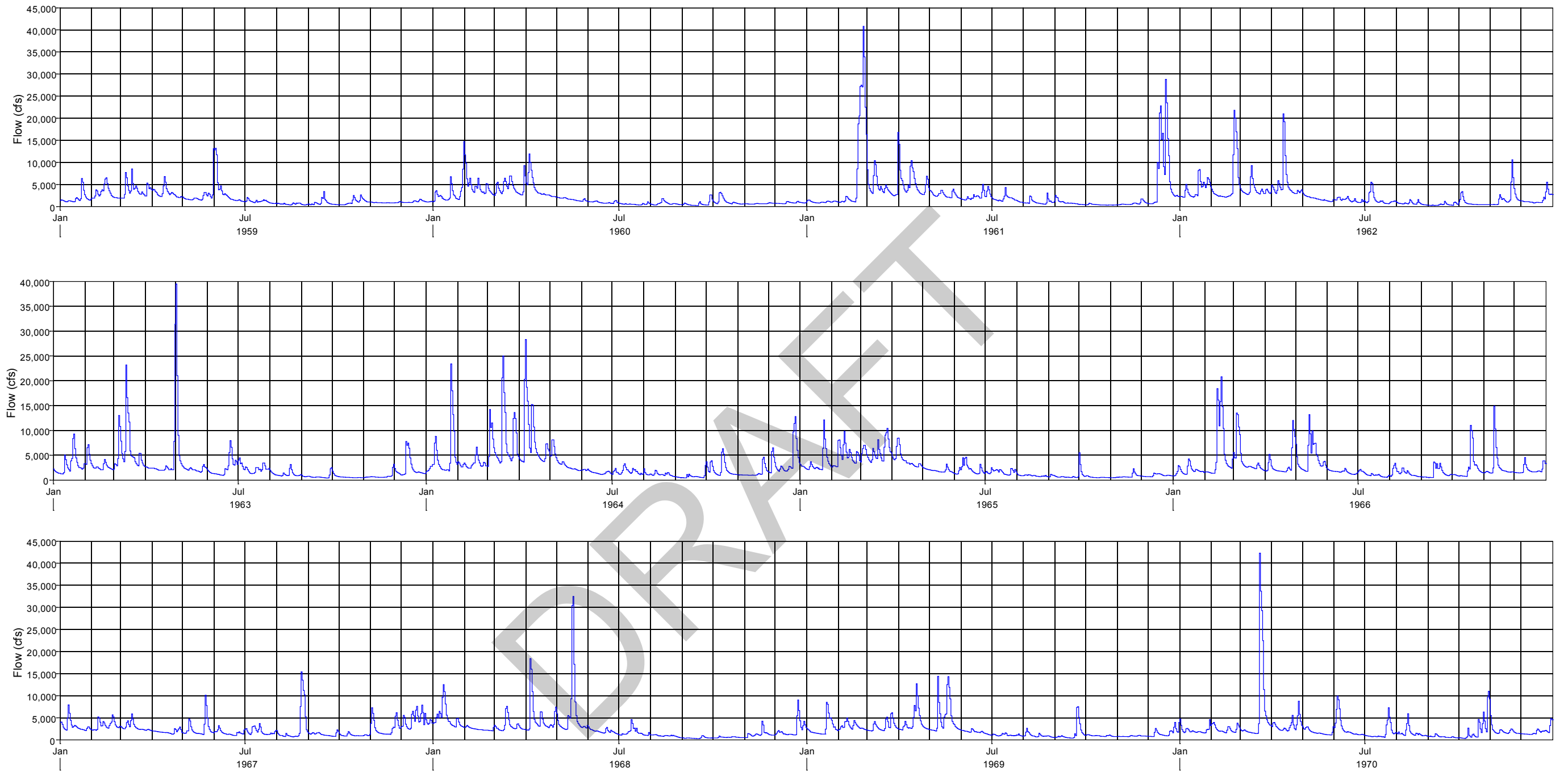
MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

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DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



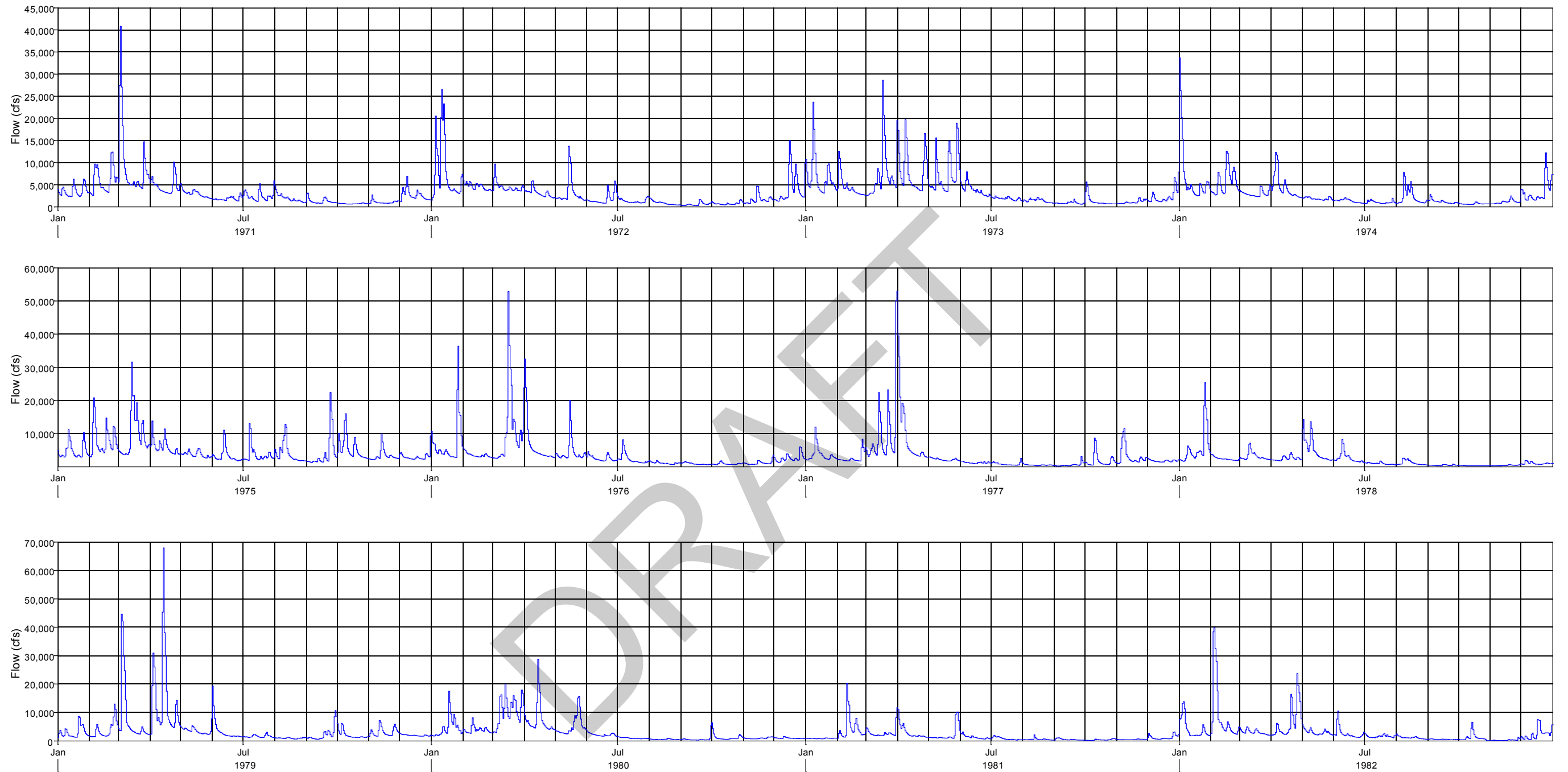
MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



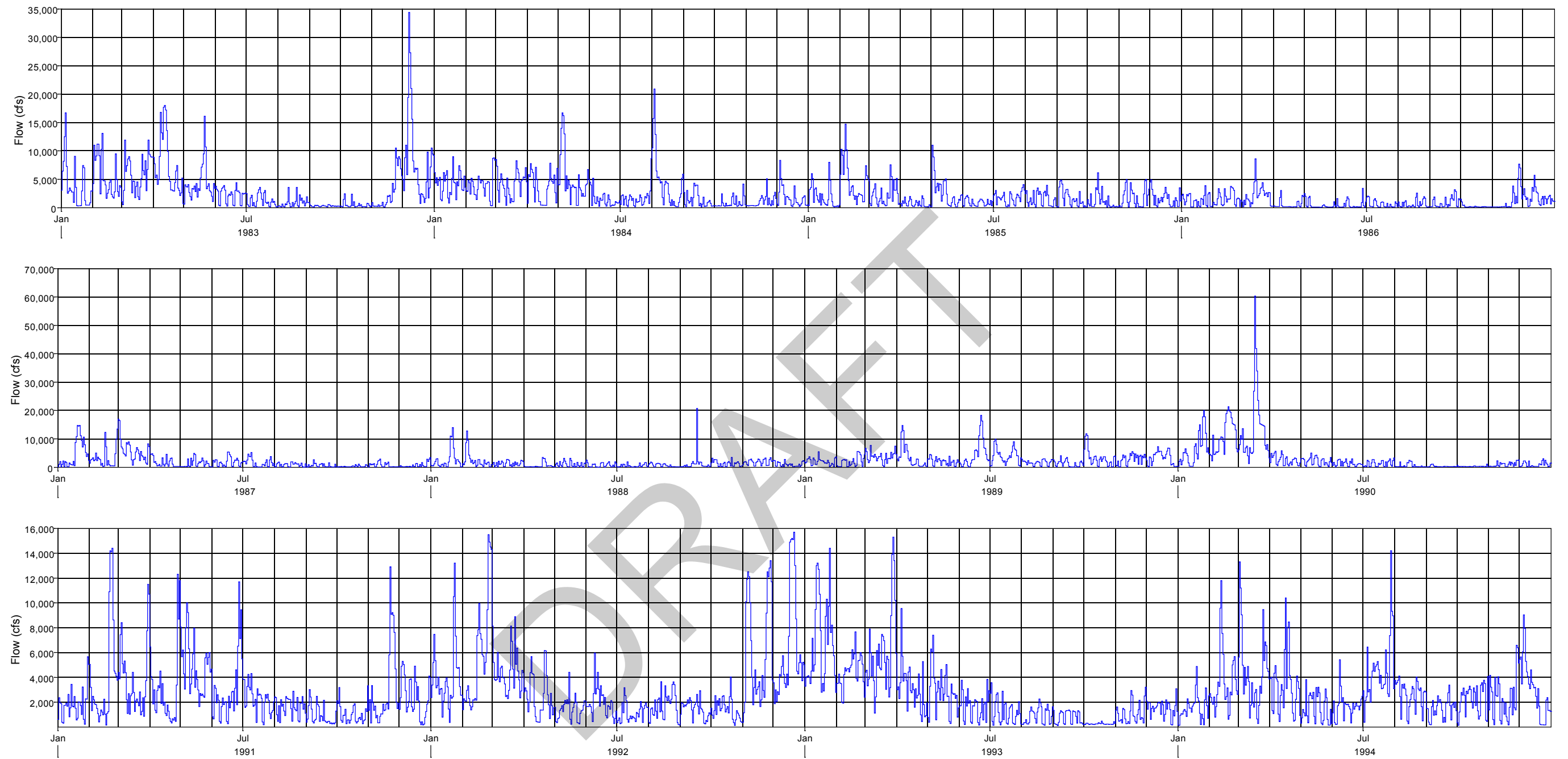
MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

ALABAMA-COOSA-TALLAPOOSA BASIN
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DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



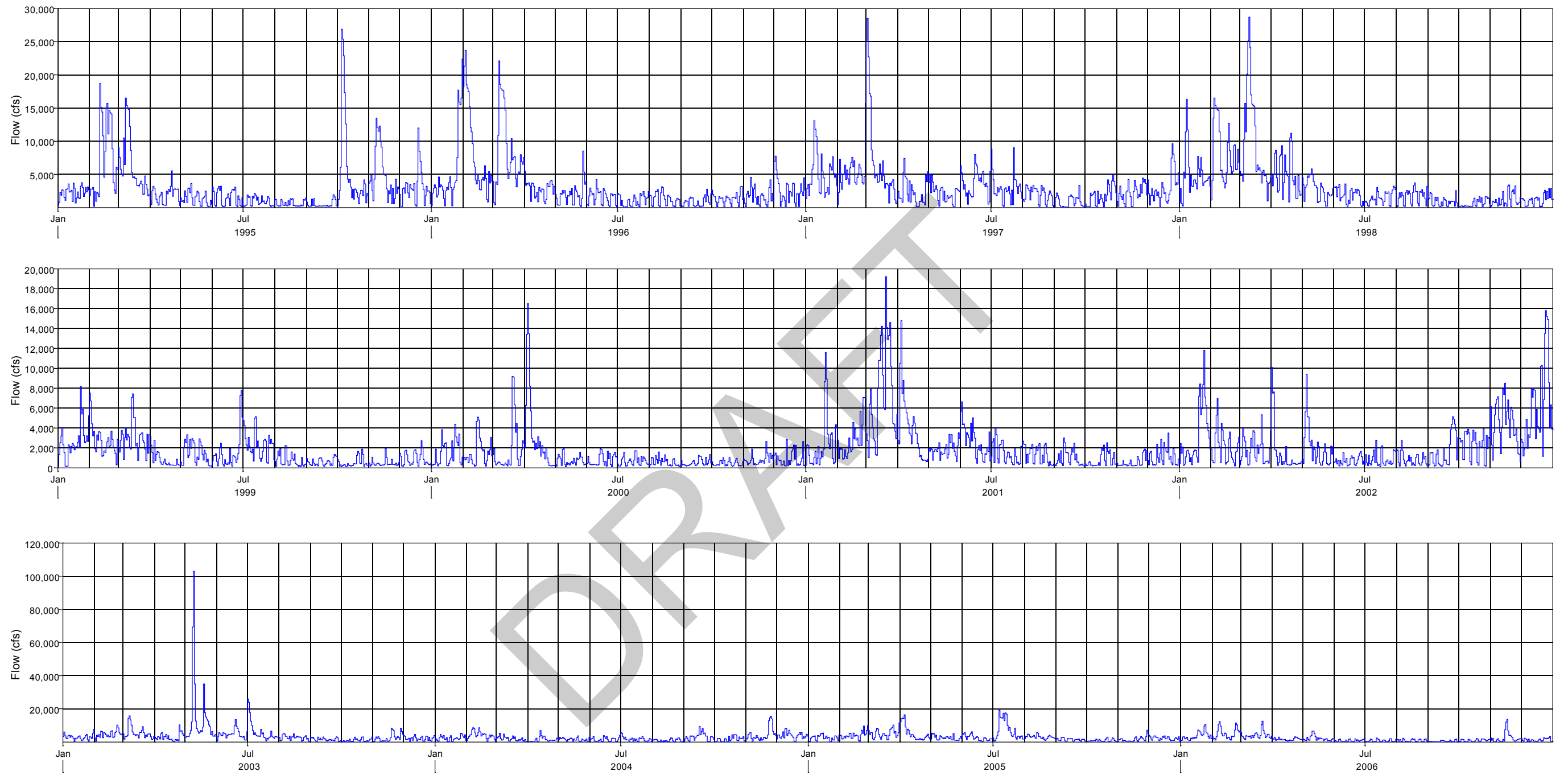
— MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



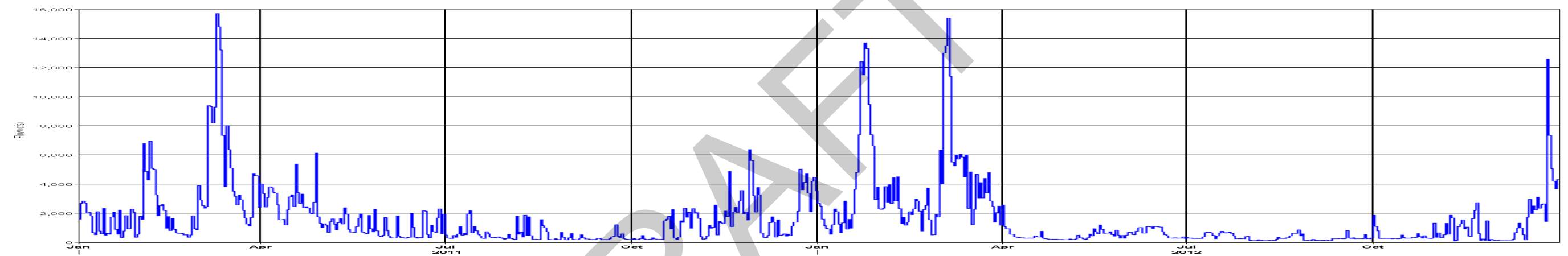
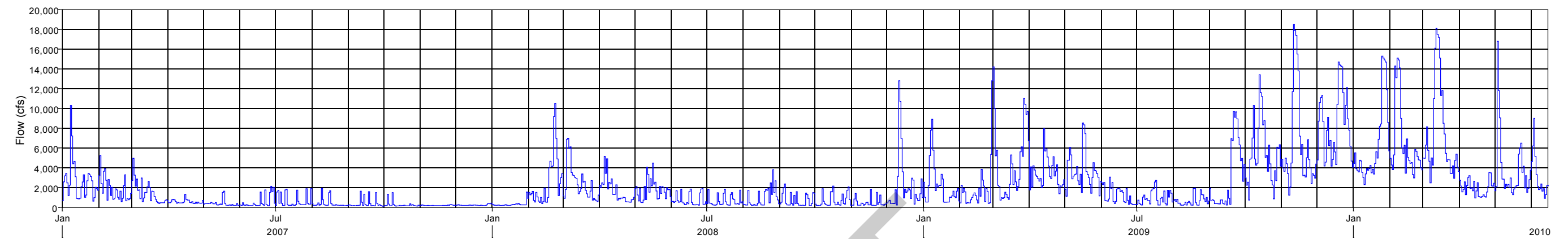
— MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
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ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
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ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500



MEAN DAILY FLOW (USGS GAGE 02414500) TALLAPOOSA RIVER AT WADLEY AL ABAMA

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ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean Ann	Max Monthly	Min Monthly	Max Daily	Min Daily
1924	3828	2148	2239	3668	2113	1950	883	755	800	435	395	1818	1753	3828	395	11500	280
1925	8240	2570	3105	1886	1141	721	689	224	160	682	1592	1883	1908	8240	160	43400	60
1926	4618	3679	3470	2563	1084	1384	1588	3478	924	418	1364	2844	2285	4618	418	17400	300
1927	1200	5260	3635	1904	998	1834	1709	1089	527	357	507	2040	1755	5260	357	29100	180
1928	1597	1916	3790	5886	3025	3859	2347	2186	1459	970	987	889	2409	5886	889	20700	580
1929	1842	4850	14087	4426	5977	2435	1444	900	1657	1183	6562	2820	4015	14087	900	44400	350
1930	3082	3143	4354	2332	2804	1042	939	366	3459	703	3301	1612	2261	4354	366	19300	150
1931	2313	1824	1928	2209	1679	730	735	562	182	85	363	5892	1542	5892	85	26100	70
1932	4844	6454	3859	3316	2485	2155	2220	2527	1107	2699	3353	11211	3853	11211	1107	29900	380
1933	4696	6553	5615	4229	3510	1762	2179	1484	905	839	645	786	2767	6553	645	32000	380
1934	1518	2644	4190	1798	1427	2511	1422	2528	777	5151	1221	1778	2247	5151	777	26900	380
1935	2394	2724	4562	3467	2056	1414	1308	1630	1134	508	1331	1927	2038	4562	508	13500	225
1936	10809	9381	3221	9214	1889	1049	1054	1669	775	777	527	2936	3608	10809	527	49300	405
1937	6903	5280	3676	5565	4355	1571	1133	1831	969	1879	896	930	2916	6903	896	21600	355
1938	1215	1108	4339	9696	1836	1974	1726	1553	548	224	1178	929	2194	9696	224	36300	166
1939	2346	5109	5217	3068	2406	2856	1550	2980	1051	564	524	827	2375	5217	524	22300	429
1940	2578	3492	3962	2400	1408	1716	4980	1397	697	532	1061	1647	2156	4980	532	19900	382
1941	1660	1467	2938	1914	896	647	2160	1703	529	300	902	2510	1469	2938	300	8760	200
1942	1728	3066	6889	2536	1979	1500	1469	2624	1178	1131	1076	3596	2398	6889	1076	30100	542
1943	4268	2279	6840	4061	2163	1690	2929	1530	905	611	918	1025	2435	6840	611	31900	404
1944	1794	4278	5364	7847	2877	1596	1251	1084	890	558	816	1273	2469	7847	558	22000	360
1945	1647	3910	2911	4238	3752	1384	1939	1135	815	894	1343	2921	2241	4238	815	24500	308
1946	7515	6538	8494	4475	3688	2311	2109	976	967	677	1121	990	3322	8494	677	35800	410
1947	7000	2410	5385	4499	2643	1996	1123	862	400	287	2234	2230	2589	7000	287	33700	231
1948	1803	6202	6619	5455	1793	1172	2800	3129	1212	785	9649	5898	3876	9649	785	41500	615
1949	5829	6551	4798	4267	3811	2099	2425	1483	1123	786	910	1158	2937	6551	786	22500	548
1950	1777	2920	3857	2016	1995	1712	1653	999	2257	1010	915	1285	1866	3857	915	11400	536
1951	1558	2515	4031	4749	1646	1125	1507	581	795	564	1375	5467	2159	5467	564	33800	231
1952	3007	3008	8288	2793	1890	1514	523	1151	1078	589	765	1958	2214	8288	523	22700	300
1953	5245	4247	3825	3804	5241	1656	1719	805	925	594	653	2045	2563	5245	594	23300	284
1954	2998	1761	2122	2172	1552	990	590	322	111	65	274	831	1149	2998	65	9080	45
1955	2124	3255	2345	4296	2132	1209	1454	776	287	507	930	909	1685	4296	287	18000	162
1956	888	4735	6185	4780	1970	1039	1141	535	623	545	833	1745	2085	6185	535	34900	269
1957	2846	2698	3279	7007	2330	1658	1048	597	1615	1860	2921	3409	2606	7007	597	42100	251
1958	2591	4601	4413	4773	2086	1653	2308	986	745	1185	888	1046	2273	4773	745	20100	201
1959	1844	3092	3813	3098	2380	3267	1125	554	834	1094	885	1106	1924	3813	554	13200	330
1960	3067	4613	4424	4046	1616	959	546	688	641	1125	651	838	1935	4613	546	14700	212
1961	1057	9562	4752	5402	2682	2403	1662	1059	881	397	700	7318	3156	9562	397	40800	316

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
SUMMARY FLOW DATA
USGS GAGE 02414500
TALLAPOOSA R. AT WADLEY, AL

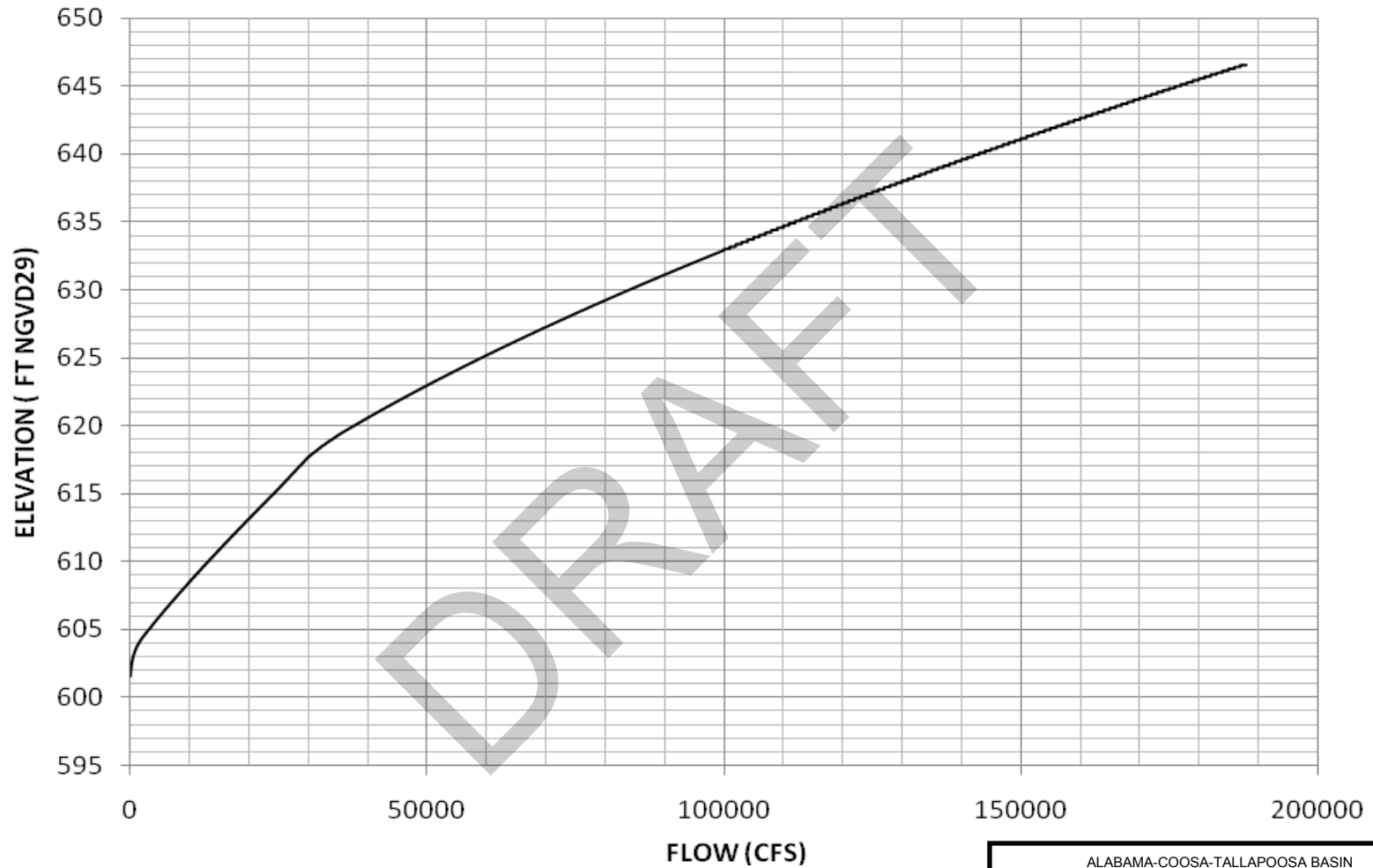
1962	3949	5321	3762	5285	1781	1469	1541	727	462	814	1992	1619	2394	5321	462	21800	230
1963	3028	3108	6224	3422	4419	2419	2380	1234	747	649	779	2393	2567	6224	649	39500	411
1964	4824	3306	8349	8237	3446	1599	1737	1189	722	2207	1457	3860	3411	8349	722	28300	430
1965	3435	4939	5801	4112	1964	2165	1683	894	674	887	772	935	2355	5801	674	12100	477
1966	1911	5643	4114	3203	4511	1654	1114	1448	1405	2356	2771	2081	2684	5643	1114	20800	477
1967	3156	3362	2905	1850	2551	1582	1901	2899	1273	1060	2676	4545	2480	4545	1060	15400	663
1968	4934	2447	3167	4971	6084	1947	1680	890	434	561	1305	2363	2565	6084	434	32500	264
1969	2735	3083	3128	4026	4937	1752	1077	999	1476	908	830	1582	2211	4937	830	14400	385
1970	2204	2454	6637	3333	1785	2671	1584	1570	690	2427	1956	1880	2433	6637	690	42300	318
1971	3554	6056	9305	4661	2953	1845	2468	1921	1294	721	1071	2655	3209	9305	721	40800	624
1972	8142	4601	4479	3153	3187	1843	1337	858	585	754	1639	4268	2904	8142	585	26500	253
1973	6905	4466	7335	8059	7447	3888	1875	1375	869	1266	1098	2344	3911	8059	869	28600	592
1974	6786	5731	3077	4484	1851	1337	1036	2275	1183	676	1101	3489	2752	6786	676	33700	544
1975	4801	8101	9576	6021	3717	3285	3616	3906	3977	5455	3315	3074	4904	9576	3074	31600	1330
1976	7131	3552	11143	6439	4521	2539	2319	1124	916	887	1183	2607	3697	11143	887	52800	600
1977	3588	2715	10518	8720	2211	1240	860	522	609	1849	3168	1767	3147	10518	522	53000	214
1978	5668	2421	3138	2489	5024	2671	985	1170	462	307	414	1023	2148	5668	307	25400	275
1979	3018	3872	7985	14755	3635	3362	1620	971	2298	2086	3187	1965	4063	14755	971	67900	574
1980	4682	3886	10641	7506	5268	2174	974	560	610	1282	951	968	3292	10641	560	28700	260
1981	868	4552	2905	2916	2265	1340	805	553	498	390	496	1227	1568	4552	390	20200	182
1982	4199	9219	3071	6748	3098	2576	1622	1140	539	1154	283	2490	3012	9219	283	39800	92
1983	3678	5556	5925	7390	4249	2252	1226	900	301	500	2707	8336	3585	8336	301	34400	104
1984	4286	3971	4191	3560	5111	1415	1604	4331	1362	840	1058	1740	2789	5111	840	20900	151
1985	1902	4752	2267	723	2703	892	1773	1533	1556	1135	1766	1593	1883	4752	723	14700	94
1986	1248	1607	2175	542	444	521	612	639	876	234	1313	1790	1000	2175	234	8610	70
1987	4628	3169	5848	1647	1305	1819	1596	872	594	313	767	729	1941	5848	313	17000	41
1988	2545	2437	1294	595	988	788	527	678	1384	1298	1832	1029	1283	2545	527	20700	54
1989	2023	1999	3727	3442	2073	4664	4066	1686	1271	3334	2833	3276	2866	4664	1271	18300	114
1990	6109	10893	13267	2472	2143	1283	1302	585	320	321	1009	967	3389	13267	320	60300	133
1991	1856	3927	3753	2995	4891	2960	2239	1634	920	1059	3030	2402	2639	4891	920	14400	151
1992	3945	5698	4515	2409	1443	1994	1160	1719	1481	1433	6246	6366	3201	6366	1160	15700	123
1993	6757	4491	6086	3159	2906	1693	1229	910	783	253	1091	1514	2573	6757	253	15300	106
1994	1553	3630	4410	3406	1529	1707	4497	2635	1498	2256	2381	3040	2712	4497	1498	14200	133
1995	2241	7359	6281	1910	1361	1542	922	629	504	5599	4946	3018	3026	7359	504	26900	94
1996	5257	8423	8557	2792	2081	1633	1051	1289	859	1374	1666	2592	3131	8557	859	23700	92
1997	4979	5220	7003	2280	2210	3644	2963	1955	894	1771	2227	3000	3179	7003	894	28500	74
1998	4868	8274	9682	5031	2829	1862	1495	1733	893	625	1184	1205	3307	9682	625	28700	89
1999	2616	2770	2992	816	1459	1549	2310	724	597	510	458	872	1473	2992	458	8180	109
2000	1452	1581	1745	3337	716	799	668	573	534	450	813	902	1131	3337	450	16500	111
2001	2379	2763	7440	3875	1882	2689	1465	1270	976	778	556	1114	2266	7440	556	19200	178

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500
TALLAPOOSA R. AT WADLEY, AL

2002	3115	2106	1801	1455	2013	721	860	866	1585	2353	4471	6179	2294	6179	721	15800	126
2003	2926	4722	5426	3051	14319	4819	6027	2628	1548	1126	2652	2151	4283	14319	1126	103000	187
2004	2233	4159	1931	1494	1545	1560	1728	972	3180	1719	4493	3919	2411	4493	972	15500	105
2005	2555	4164	5128	5162	2526	2575	7058	3030	1418	952	1661	2198	3202	7058	952	19200	283
2006	3615	5104	4152	1638	2177	915	789	902	482	984	2599	1297	2055	5104	482	13700	137
2007	2624	1846	1466	555	381	538	651	383	375	254	185	220	790	2624	185	10300	96
2008	299	2581	2439	1656	1794	715	648	936	721	665	466	2183	1259	2581	299	12800	163
2009	2213	1819	4482	3435	3661	1199	979	655	3092	5477	6436	8426	3490	8426	655	18500	197
2010	6255	6638	7483	1956	3772	2158	1136	628	432	965	1259	1142	2819	7483	432	18100	173
2011	1417	2189	5305	2828	1148	886	585	574	325	818	2037	1993	1675	5305	325	15700	186
2012	4093	2327	5135	476	482	674	455	284	265	450	820	2165	1469	5135	265	15400	104
Average	3485	4183	5024	3966	2776	1845	1710	1345	1019	1161	1743	2483	2562	6629	642	26278	279

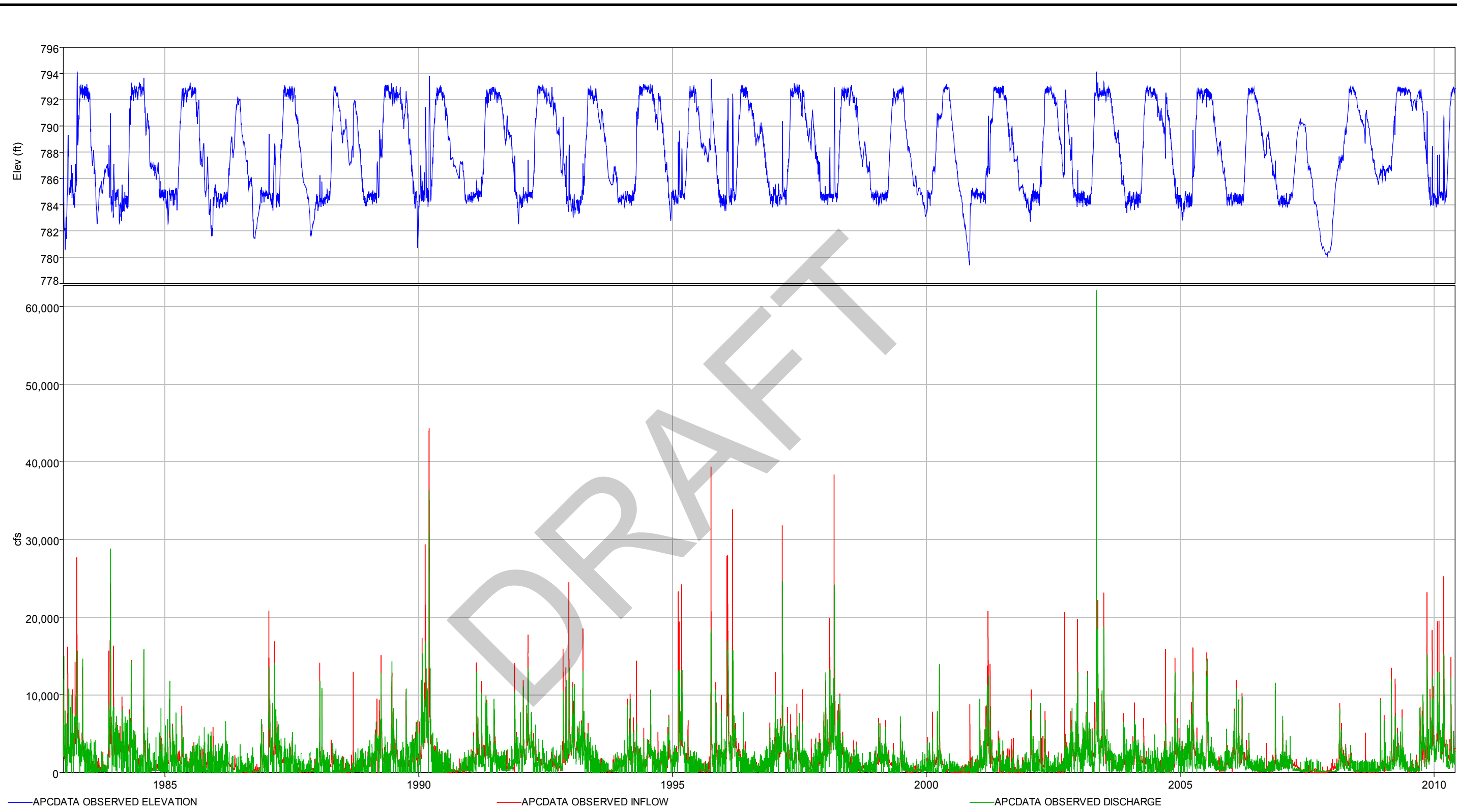
DRAFT

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
DISCHARGE HYDROGRAPHS
USGS GAGE 02414500
 TALLAPOOSA R. AT WADLEY, AL



Rating Curve updated October 11, 2012

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
RL HARRIS RESERVOIR
ALABAMA POWER COMPANY
RATING CURVE
AT USGS 02414500 GAGE AT WADLEY, AL

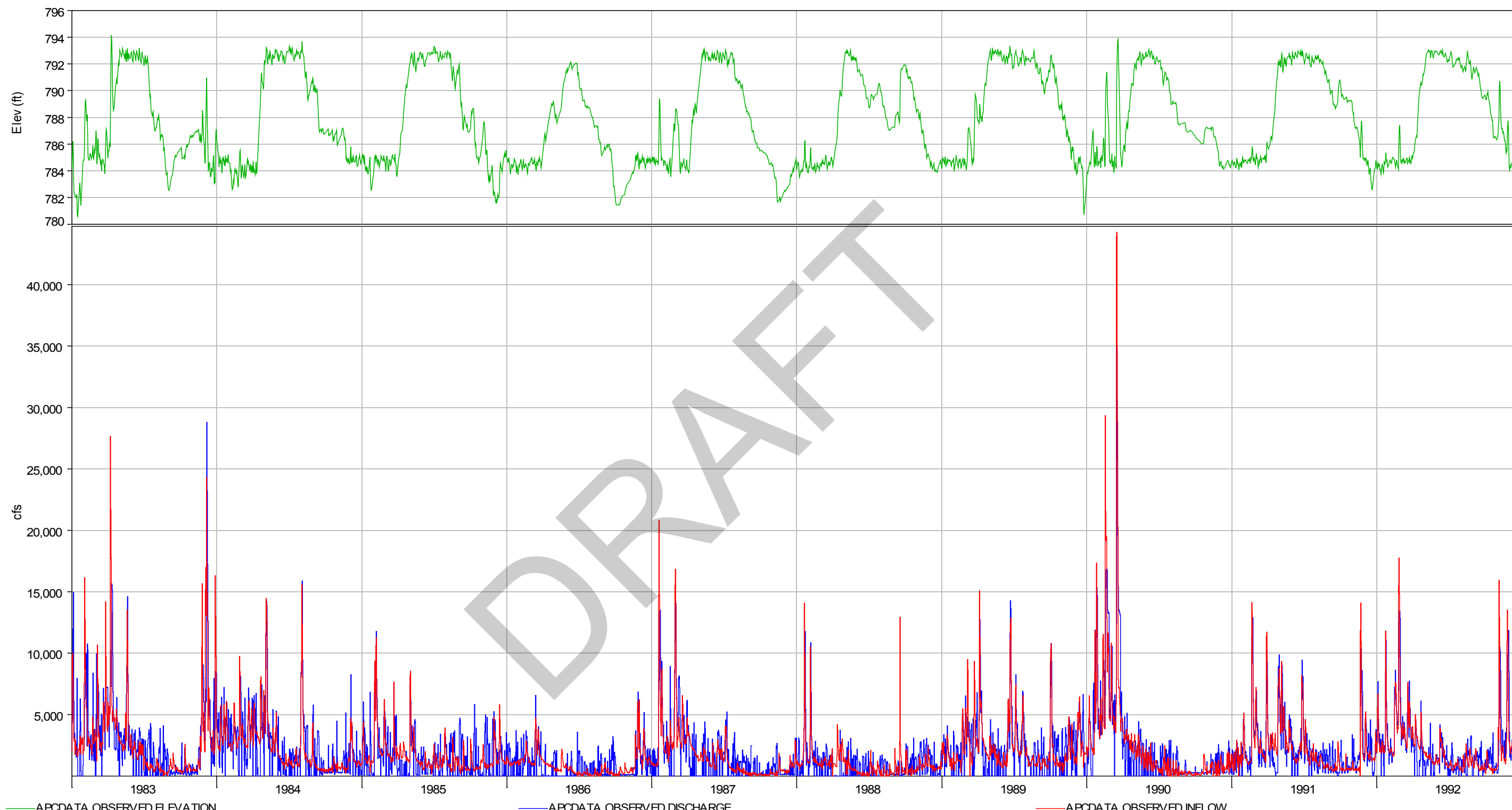


— APCDATA OBSERVED ELEVATION

— APCDATA OBSERVED INFLOW

— APCDATA OBSERVED DISCHARGE

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
**INFLOW-OUTFLOW-POOL
HYDROGRAPHS**



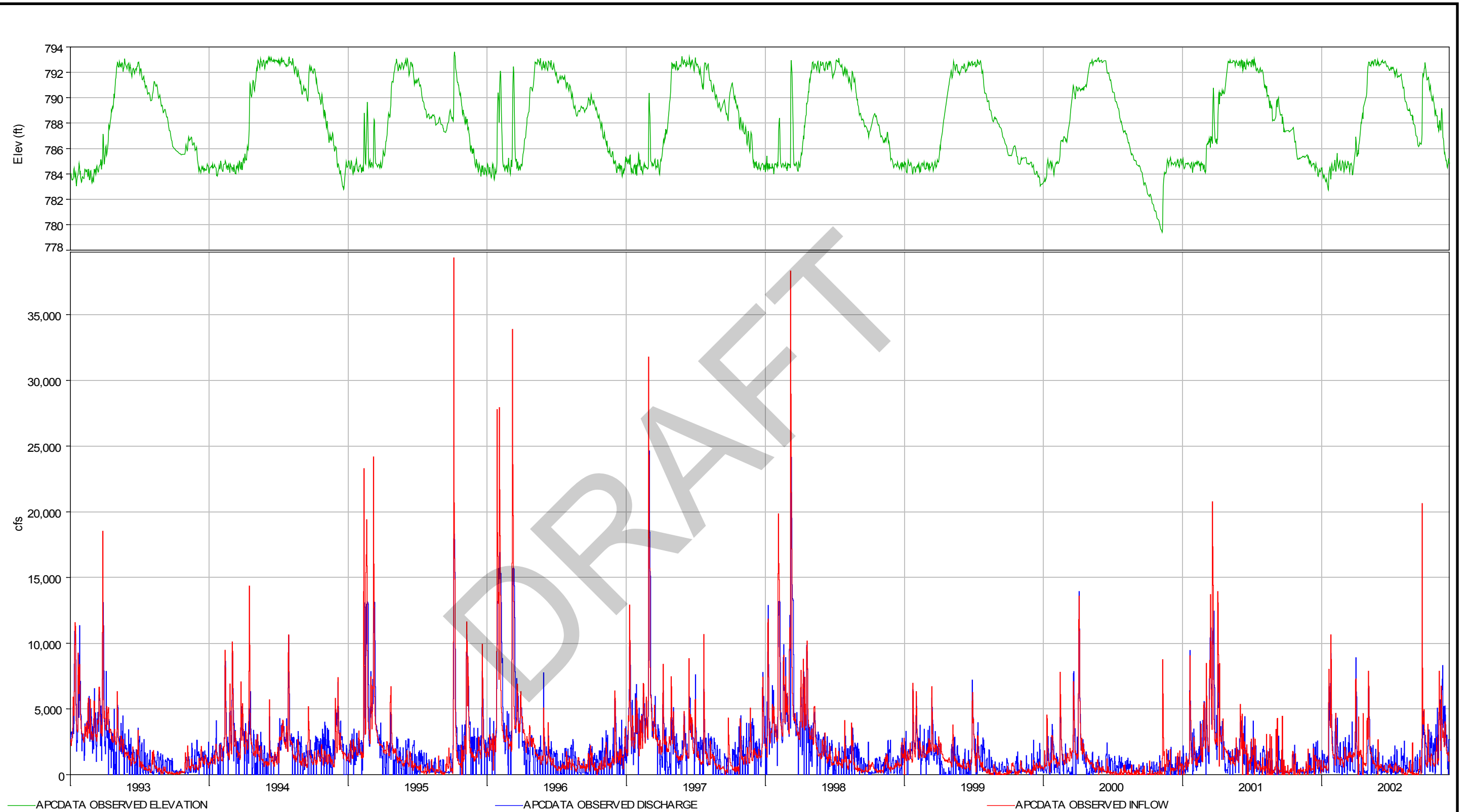
— APCDATA OBSERVED ELEVATION

— APCDATA OBSERVED DISCHARGE

— APCDATA OBSERVED INFLOW

*Hydrographs represent daily midnight values

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
**INFLOW-OUTFLOW-POOL
HYDROGRAPHS**



— APCDATA OBSERVED ELEVATION

— APCDATA OBSERVED DISCHARGE

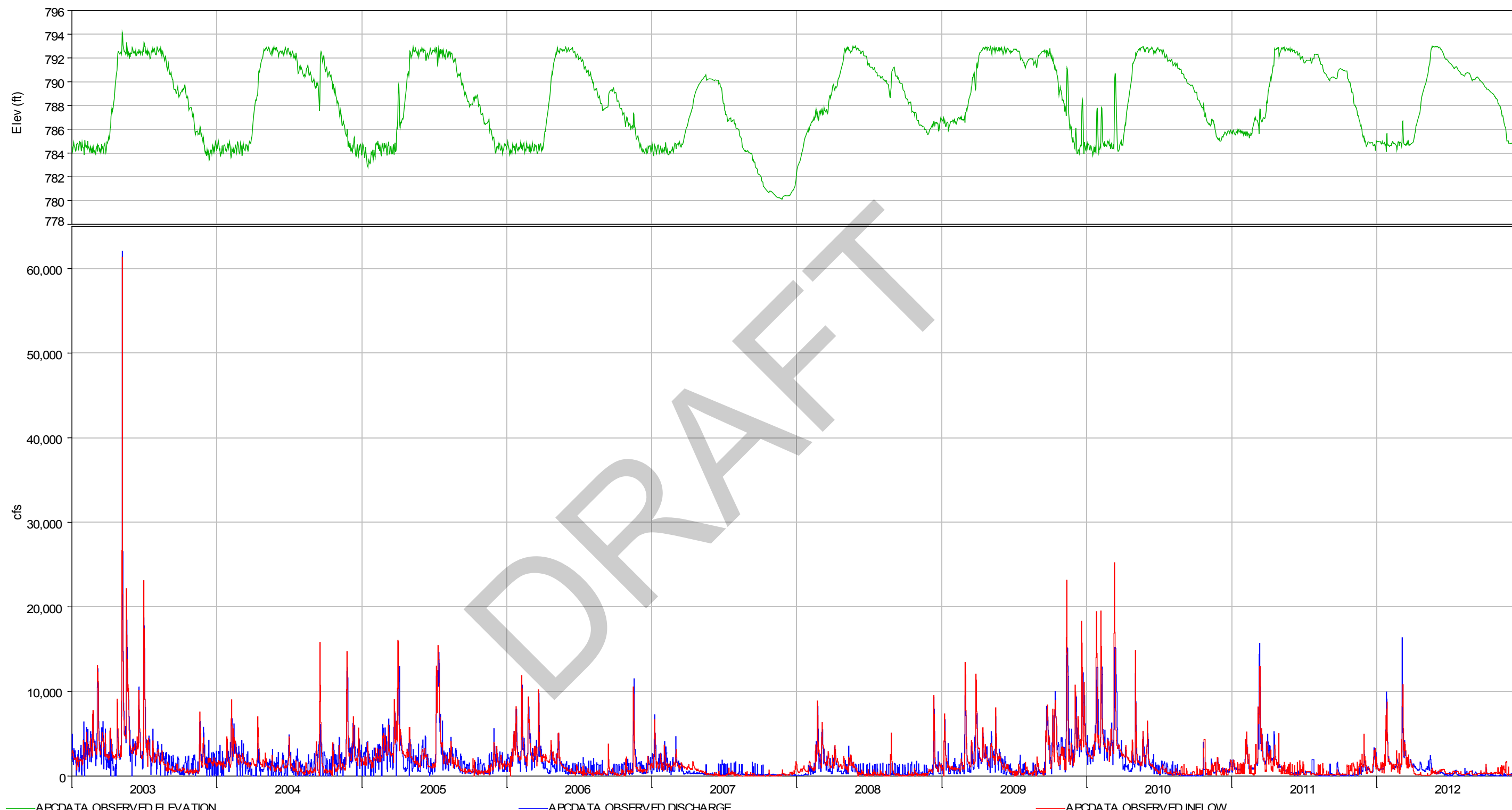
— APCDATA OBSERVED INFLOW

*Hydrographs represent daily midnight values

ALABAMA-COOSA-TALLAPOOSA BASIN

RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY

**INFLOW-OUTFLOW-POOL
HYDROGRAPHS**



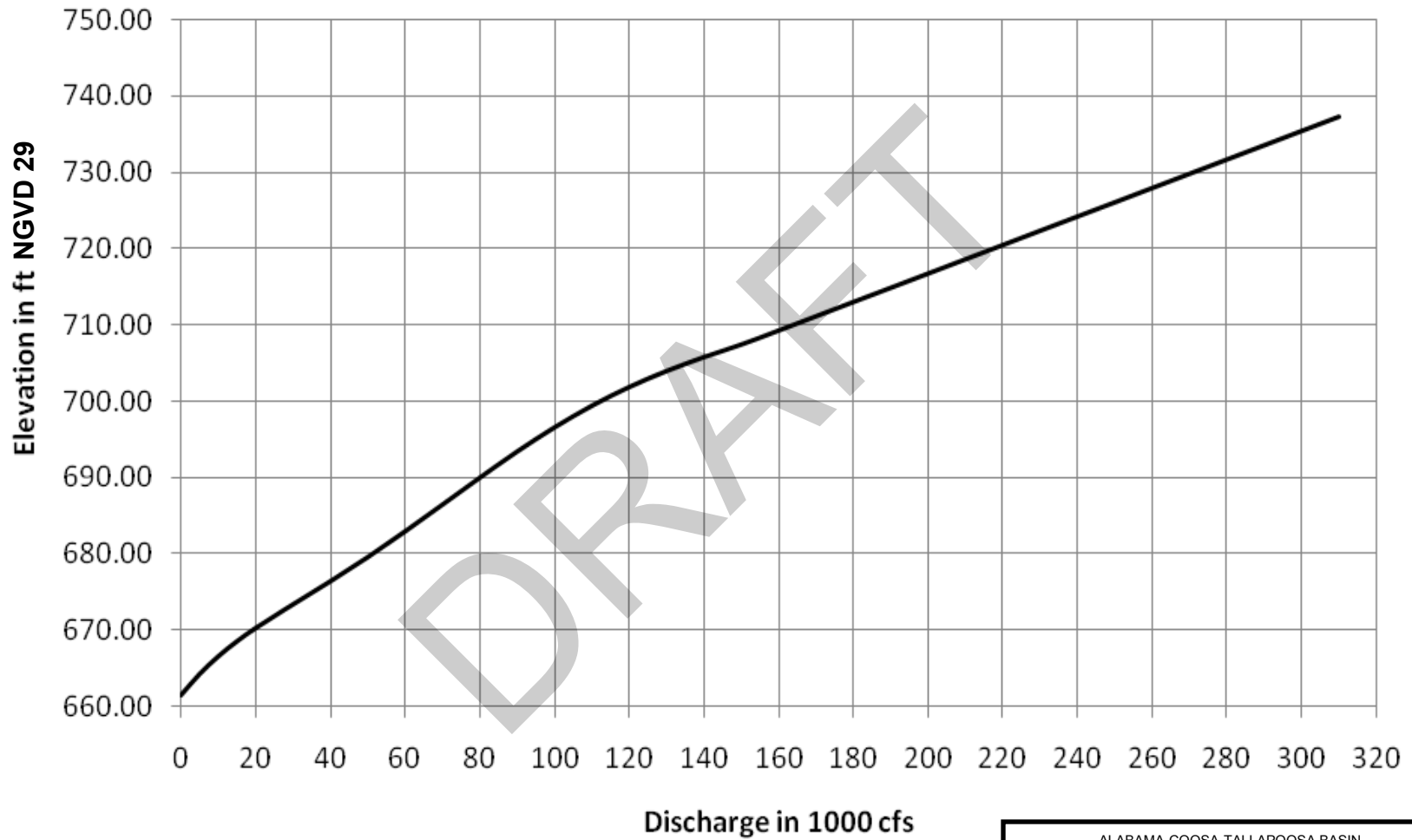
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— APCDATA OBSERVED DISCHARGE

— APCDATA OBSERVED INFLOW

*Hydrographs represent daily midnight values

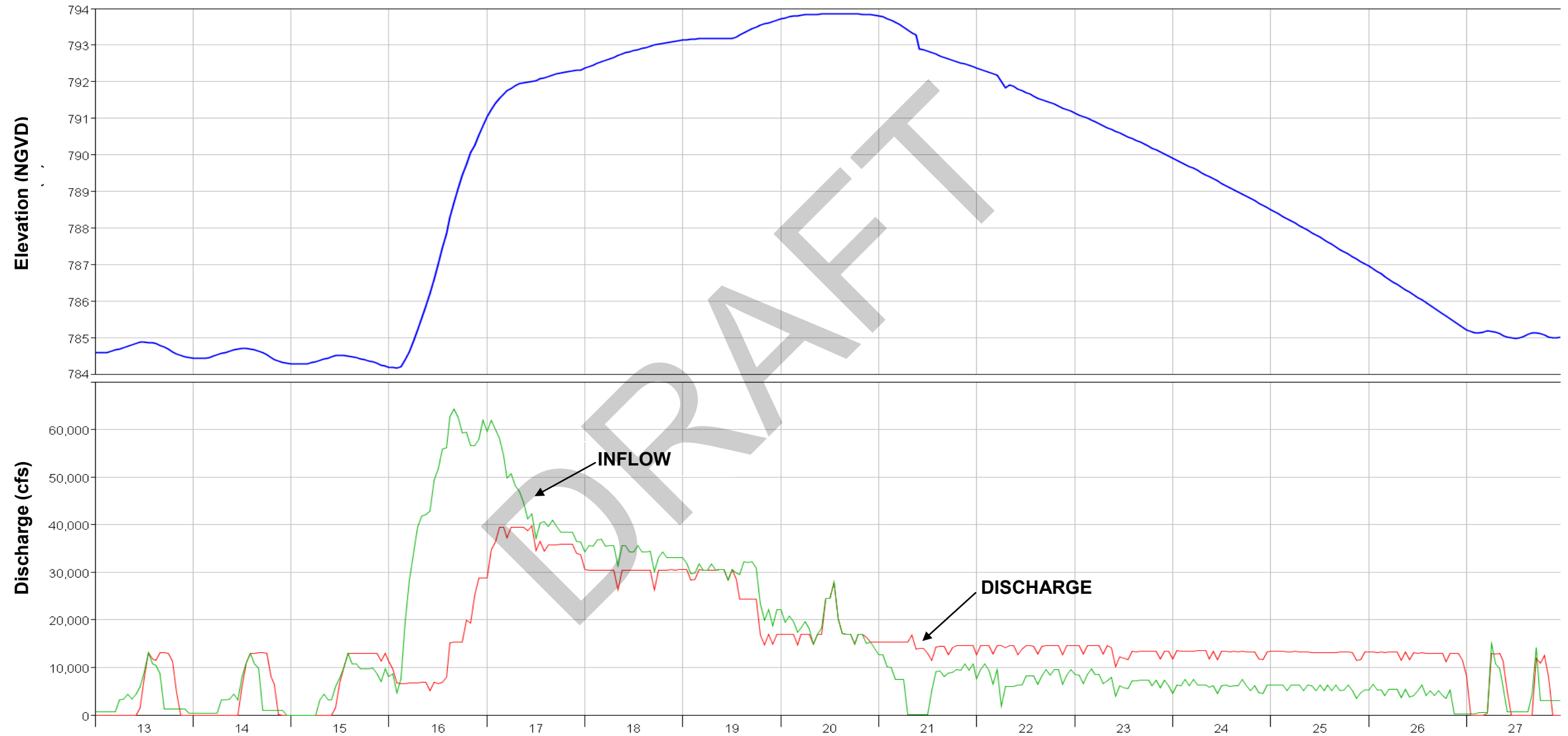
ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
**INFLOW-OUTFLOW-POOL
HYDROGRAPHS**



* Data provided to Alabama Power to support ResSim model development

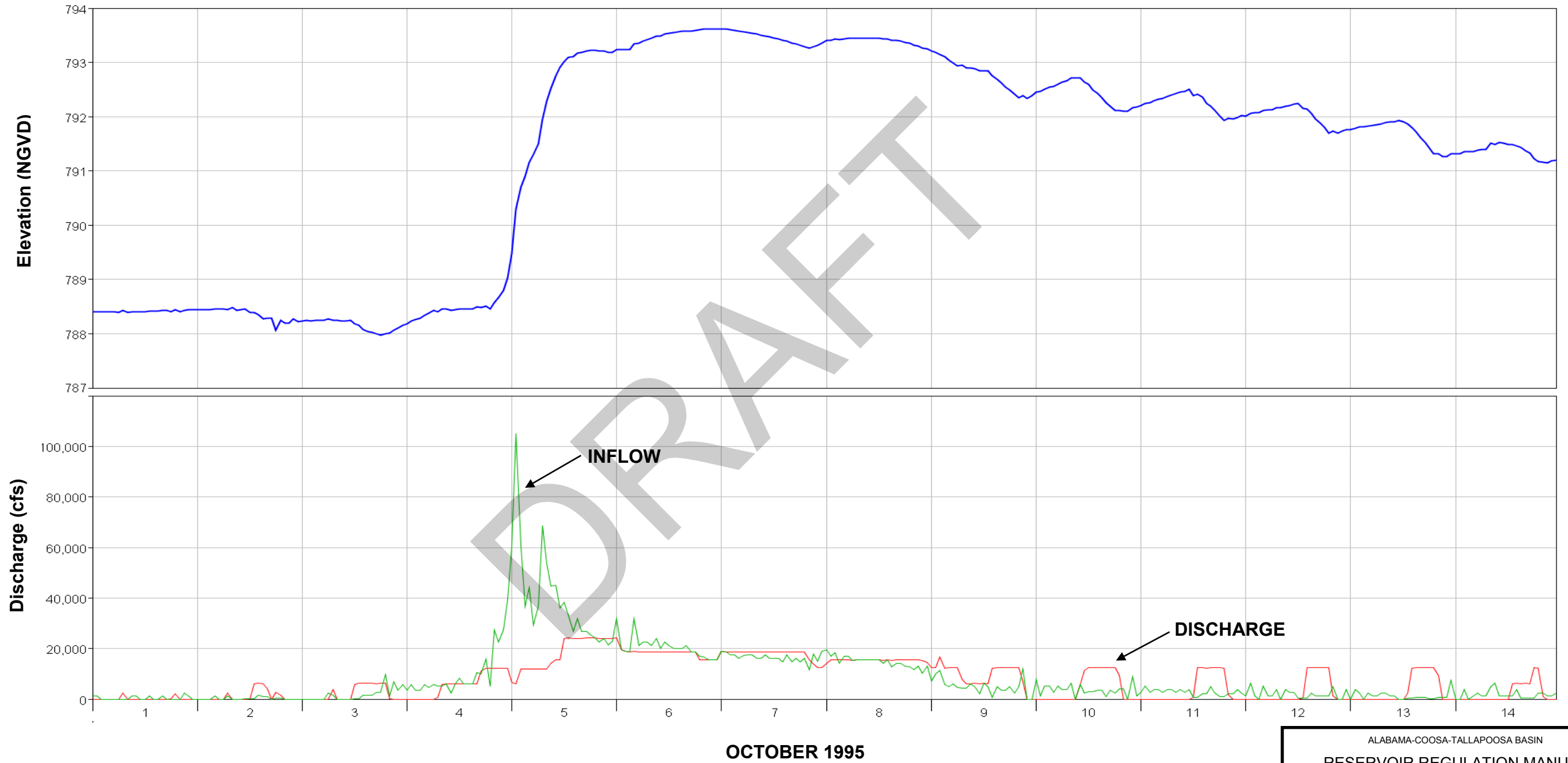
ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
RL HARRIS RESERVOIR
ALABAMA POWER COMPANY
TAILWATER RATING CURVE

FLOW, DISCHARGE, AND POOL FOR MARCH 1990 FLOOD



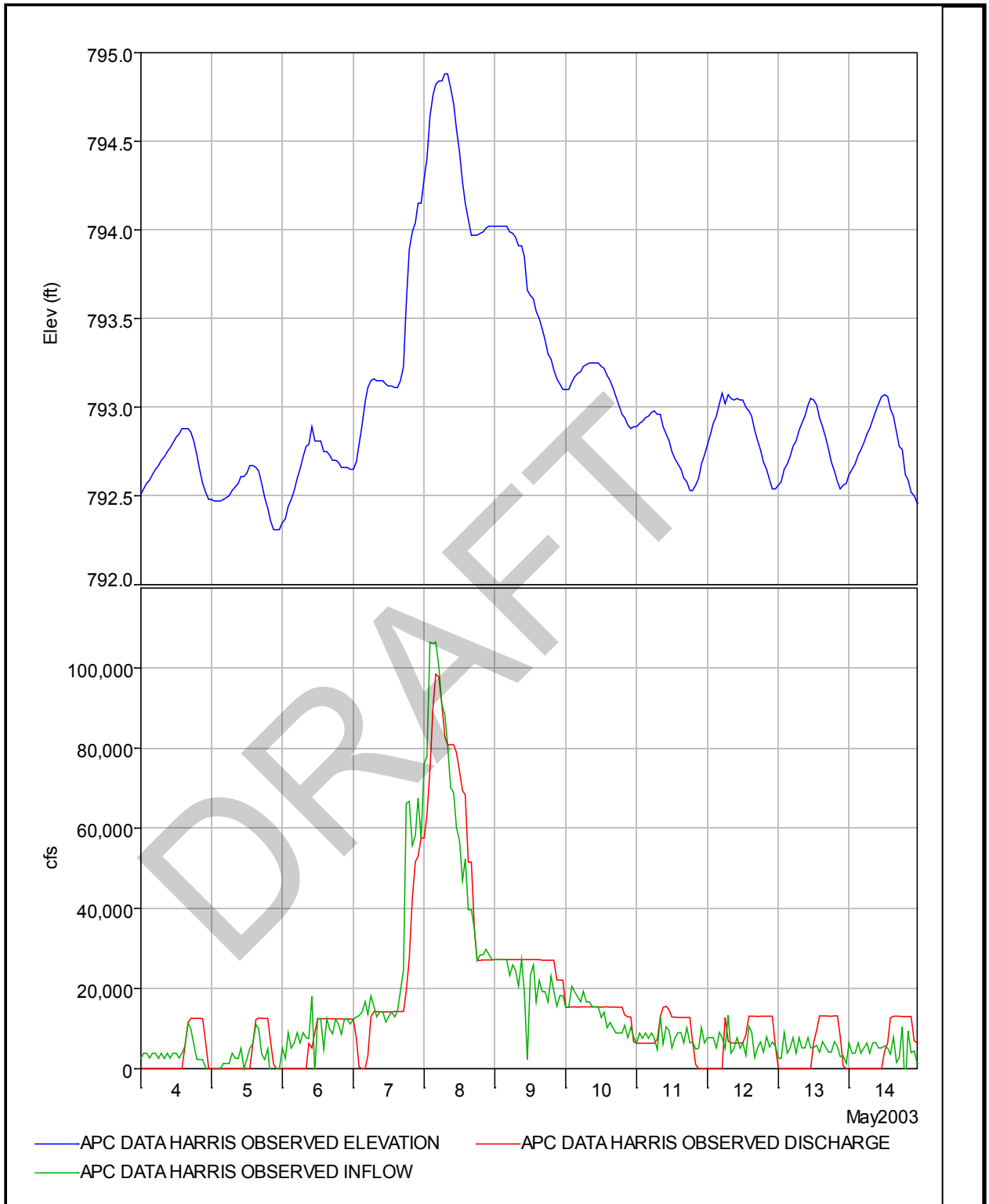
ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
MARCH 1990 FLOOD
FLOW, DISCHARGE, AND POOL

FLOW, DISCHARGE, AND POOL FOR OCTOBER 1995 FLOOD



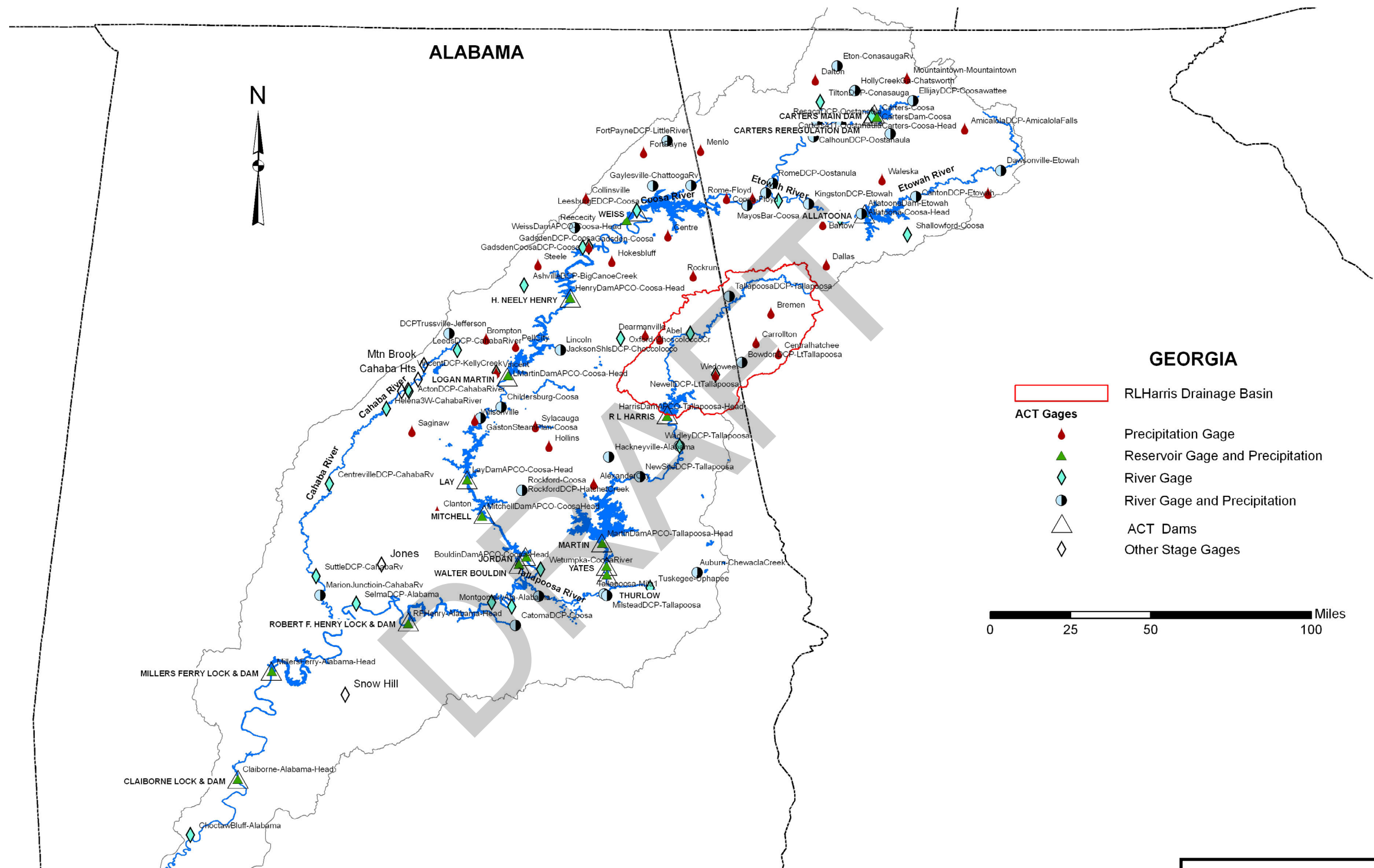
APC Hourly data

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
HARRIS RESERVOIR
ALABAMA POWER COMPANY
**OCTOBER 1995 FLOOD
FLOW, DISCHARGE, AND POOL**



Data from APC hourly values

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
FLOOD OF 2003
INDUCED SURCHARGE REGULATION
HOURLY VALUES



RLHarris Drainage Basin

ACT Gages

- ▲ Precipitation Gage
- ▲ Reservoir Gage and Precipitation
- ◆ River Gage
- River Gage and Precipitation
- △ ACT Dams
- ◇ Other Stage Gages

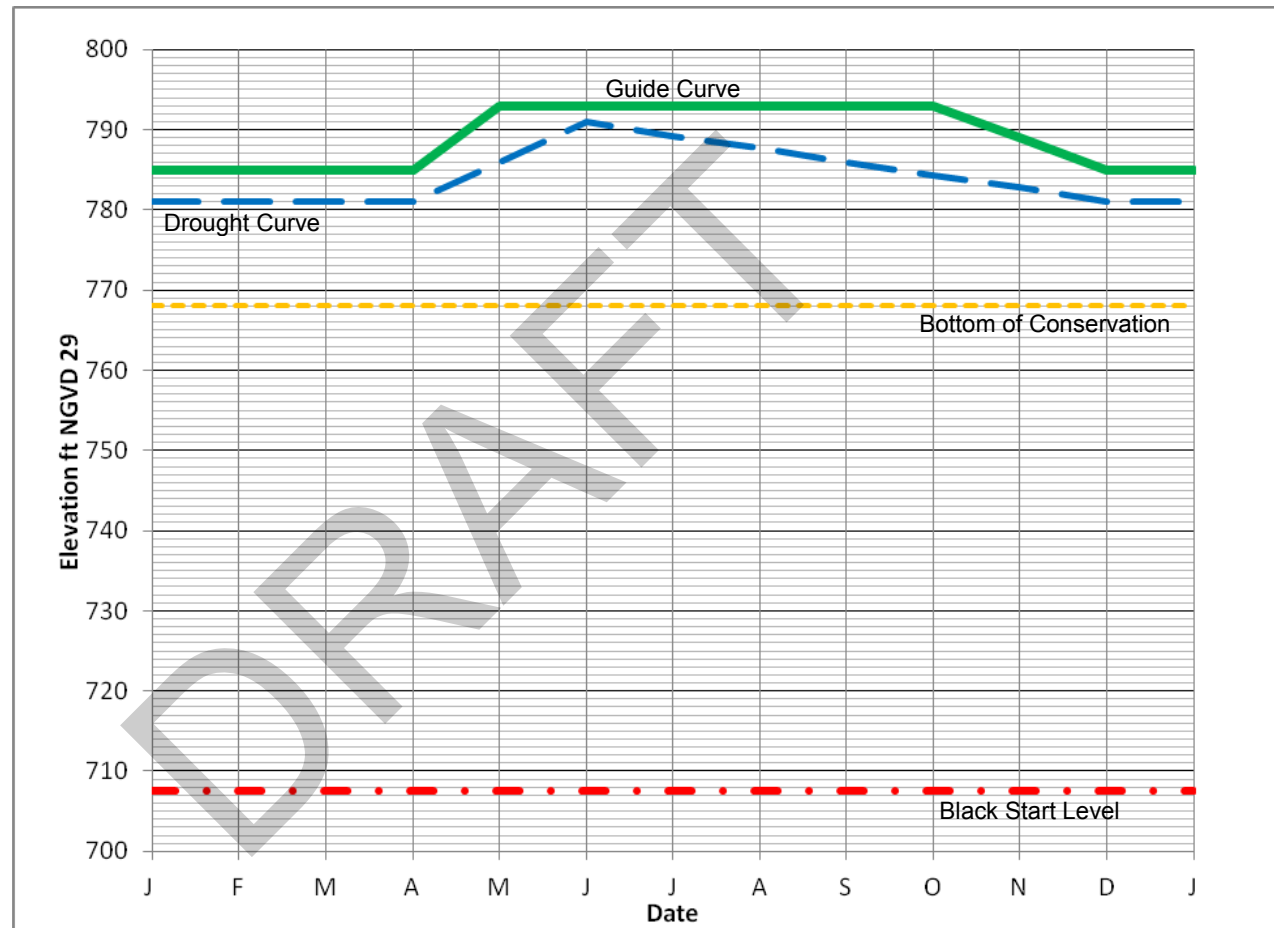
0 25 50 100 Miles

ALABAMA-COOSA-TALLAPOOSA BASIN

RESERVOIR REGULATION MANUAL
 HARRIS RESERVOIR
 ALABAMA POWER COMPANY
ACT REPORTING STATIONS

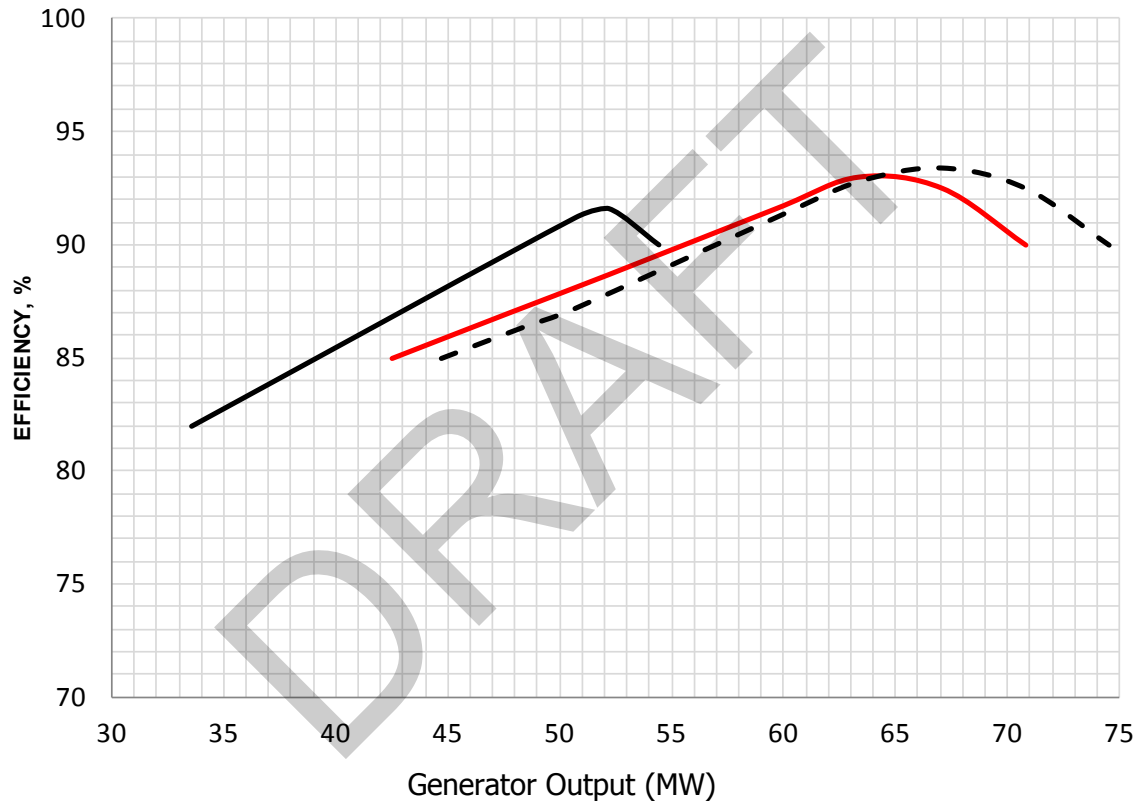
Guide Curve Elevation ft NGVD 29	Date Month*
785	J
785	F
785	M
785	A
793	M
793	J
793	J
793	A
793	S
793	O
789	N
785	D
785	J

* All months apply to the first day of the month



ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 RL HARRIS RESERVOIR
 ALABAMA POWER COMPANY
GUIDE CURVE

GUARANTEED HYDROPOWER PERFORMANCE CURVES

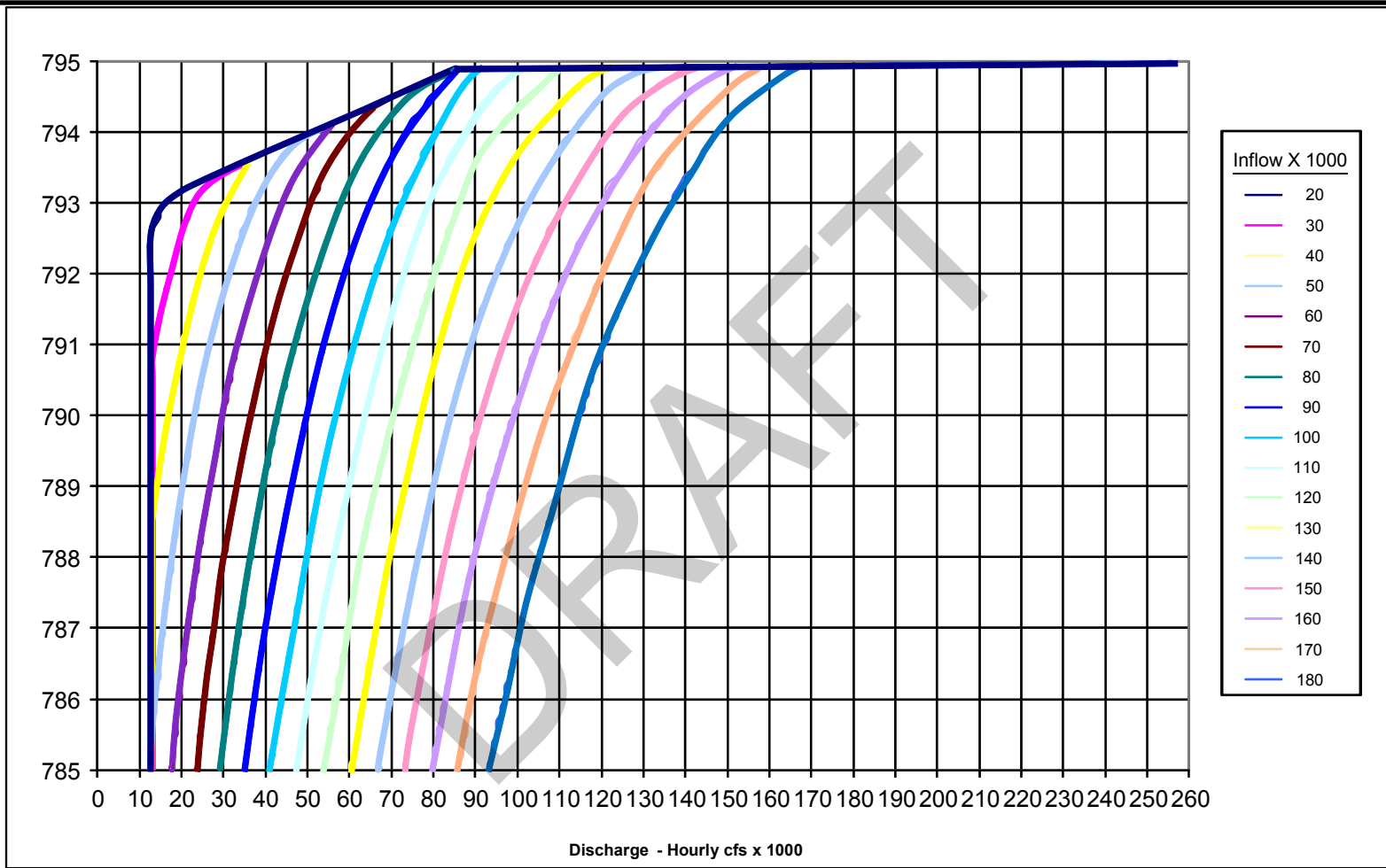


— HEAD = 100 FEET — HEAD = 121 FEET - - HEAD = 126 FEET

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
RL HARRIS RESERVOIR
ALABAMA POWER COMPANY
**HYDROPOWER PERFORMANCE
CURVES**

Rule	Condition	Harris Outflow	Operation
1	Below Guide Curve		Operate power plant to satisfy system load requirements.
2	At or above Guide Curve and below elev. 790.00	13,000 cfs or less depending on Wadley stage	Operate to discharge 13,000 cfs or an amount that will not cause the gage at Wadley to exceed 13.0 feet, unless greater discharge amounts are required by the Induced Surcharge Schedule. Discharge rates determined by the Harris real-time water control model may be substituted for those indicated by the Induced Surcharge Curves. If the model produces outflows in excess of those identified by the Induced Surcharge Schedule for three (3) consecutive periods, the operator shall notify the Water Management Section before making any further gate movements.
3	Above Guide Curve and rising	16,000 cfs or greater	Discharge 16,000 cfs or greater if required by the Induced Surcharge Curves Releases may be made through the spillway gates or powerhouse or a combination of both. Discharge rates determined by the Harris real-time water control model may be substituted for those indicated by the Induced Surcharge Curves. If the model produces outflows in excess of those identified by the Induced Surcharge Schedule for three (3) consecutive periods, the operator shall notify the Water Management Section before making any further gate movements.
4	Above Guide Curve and falling		When the reservoir begins to fall, maintain current gate settings and power- house discharge until the pool recedes to the Guide Curve, then return to normal operation.

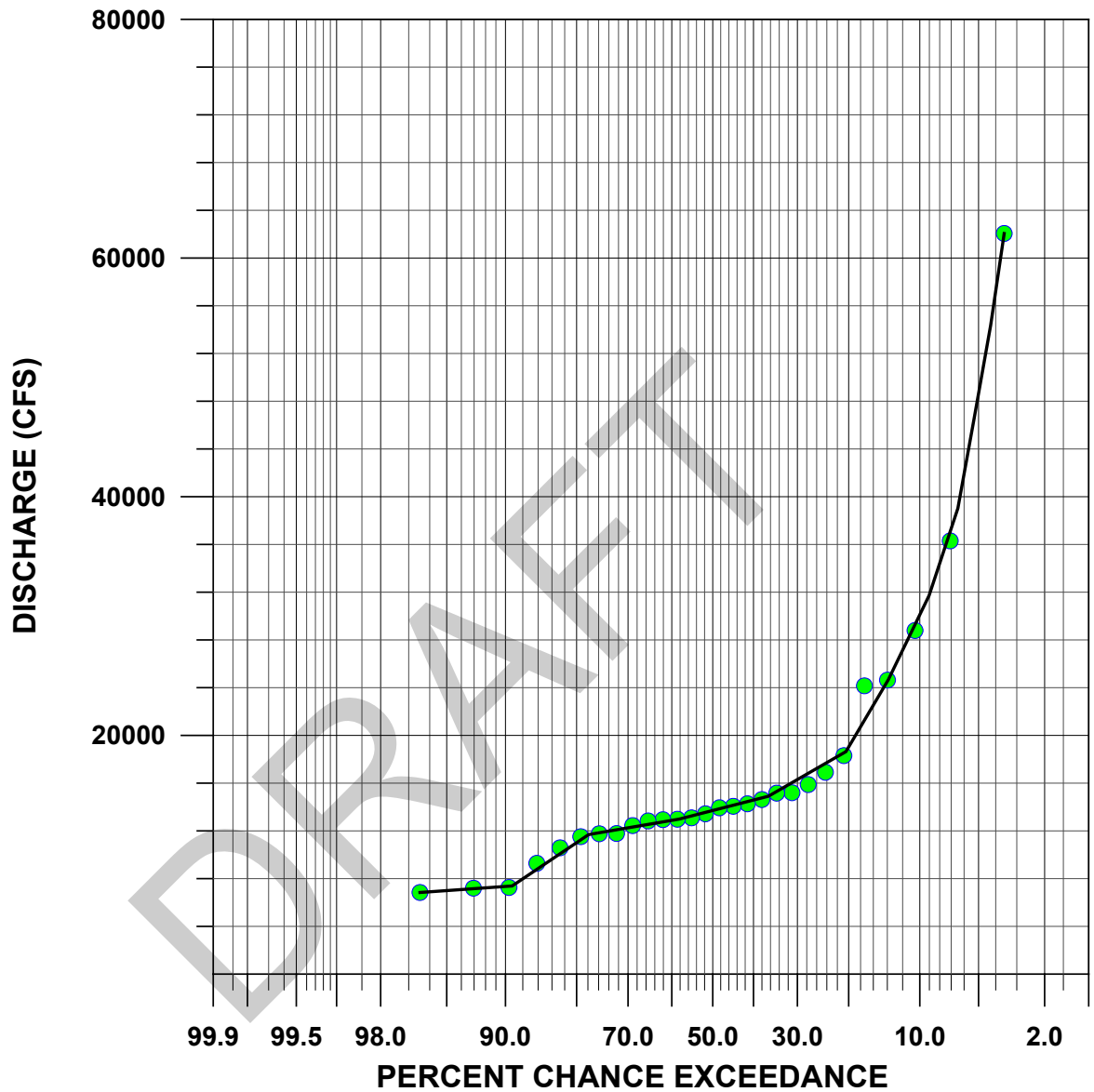
ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 RL HARRIS RESERVOIR
 ALABAMA POWER COMPANY
**FLOOD CONTROL REGULATION
 SCHEDULE**



Operating Instructions:

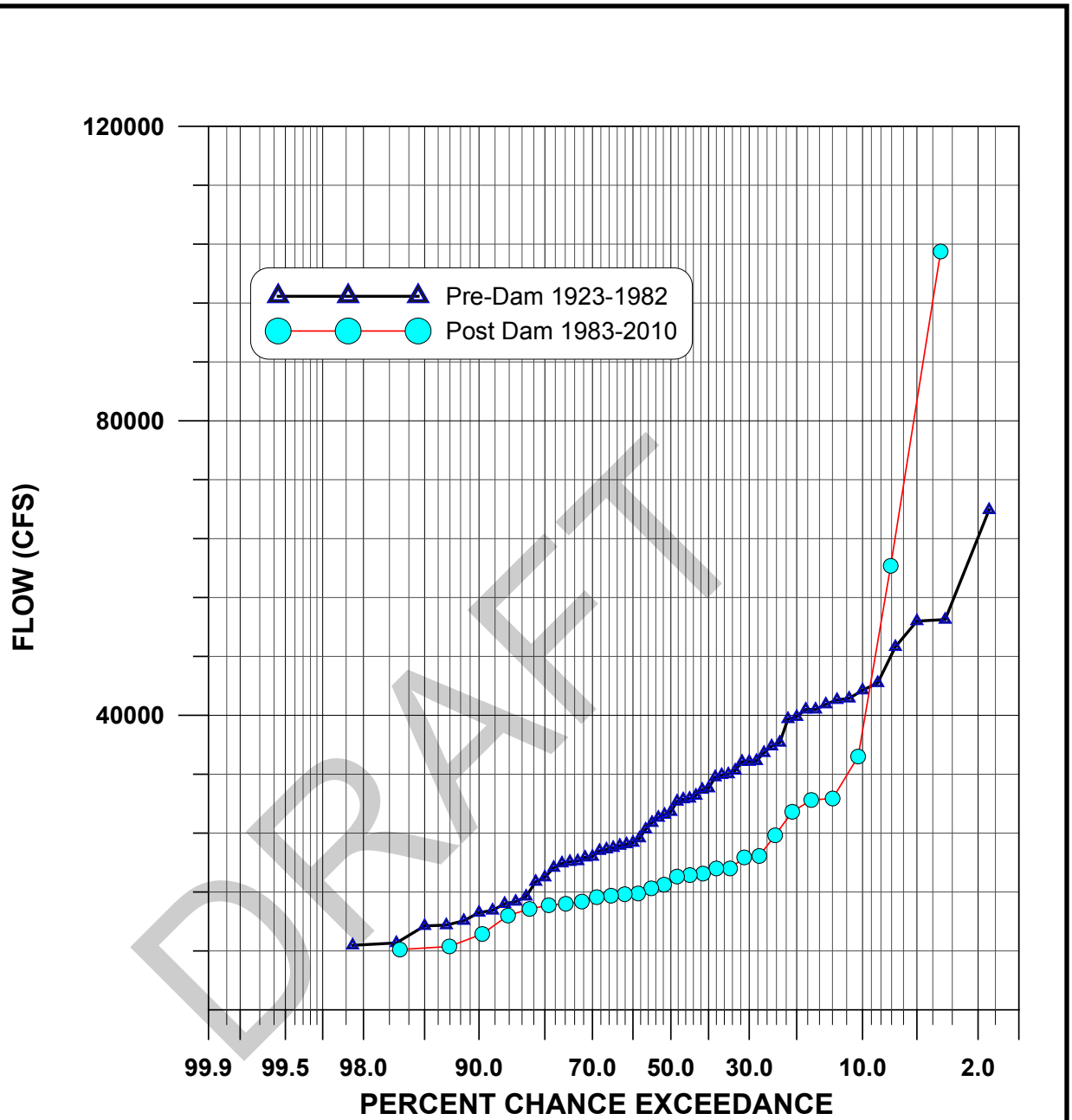
1. Follow regular flood control regulation as shown on Plate 7-3 until releases are required by this schedule.
2. Adjust the outflow hourly based on the average inflow for the preceding three hours and the current reservoir level as indicated by these curves.
3. When the reservoir level begins to fall maintain the current gate openings and power plant discharge in effect at that time until the reservoir recedes to the top of the Power Guide Curve, then follow regular flood regulations.
4. The Spillway Gate will be opened in accordance with the gate opening schedule to produce a discharge as near as practical to those prescribed under this schedule.

ALABAMA-COOSA-TALLAPOOSA BASIN
 RESERVOIR REGULATION MANUAL
 RL HARRIS RESERVOIR
 ALABAMA POWER COMPANY
INDUCED SURCHARGE CURVES



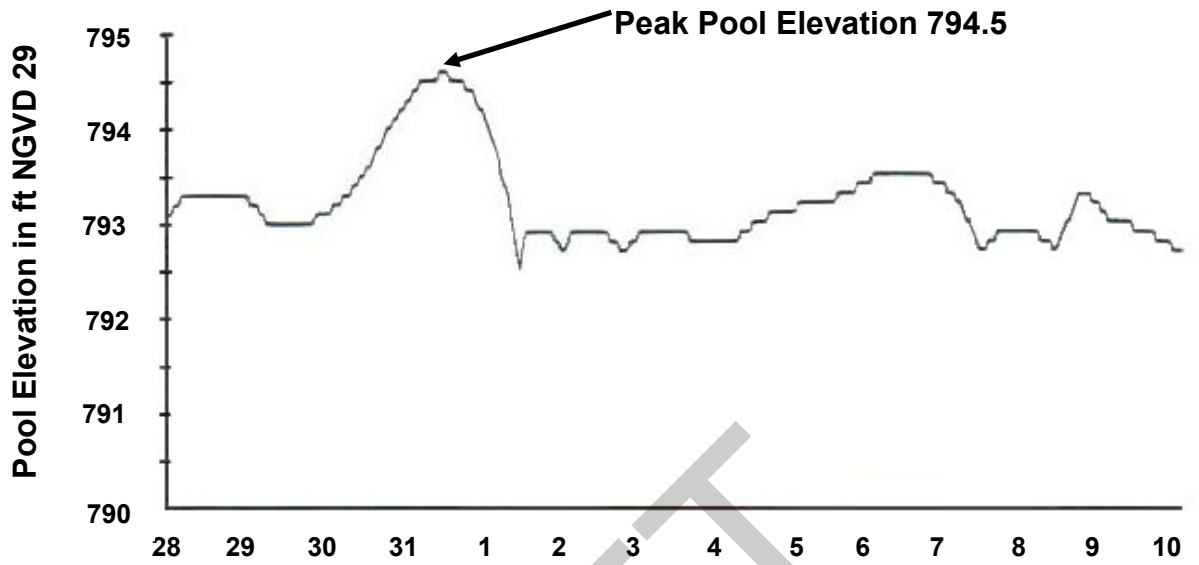
Developed from ave daily
data from APC for period
1983 – 2010

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
**DISCHARGE FREQUENCY
AT R.L. HARRIS DAM**

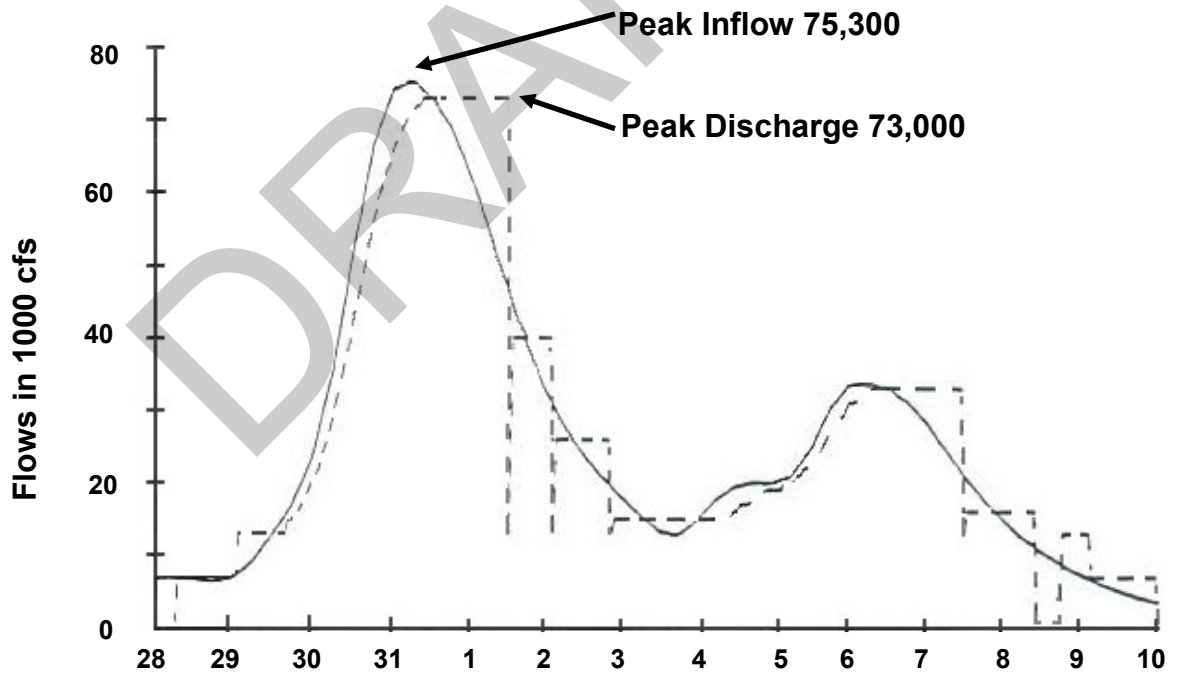


Data from ave daily data at USGS
gage 02414500

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
DISCHARGE FREQUENCY
AT USGS GAGE 02414500 AT WADLEY, AL



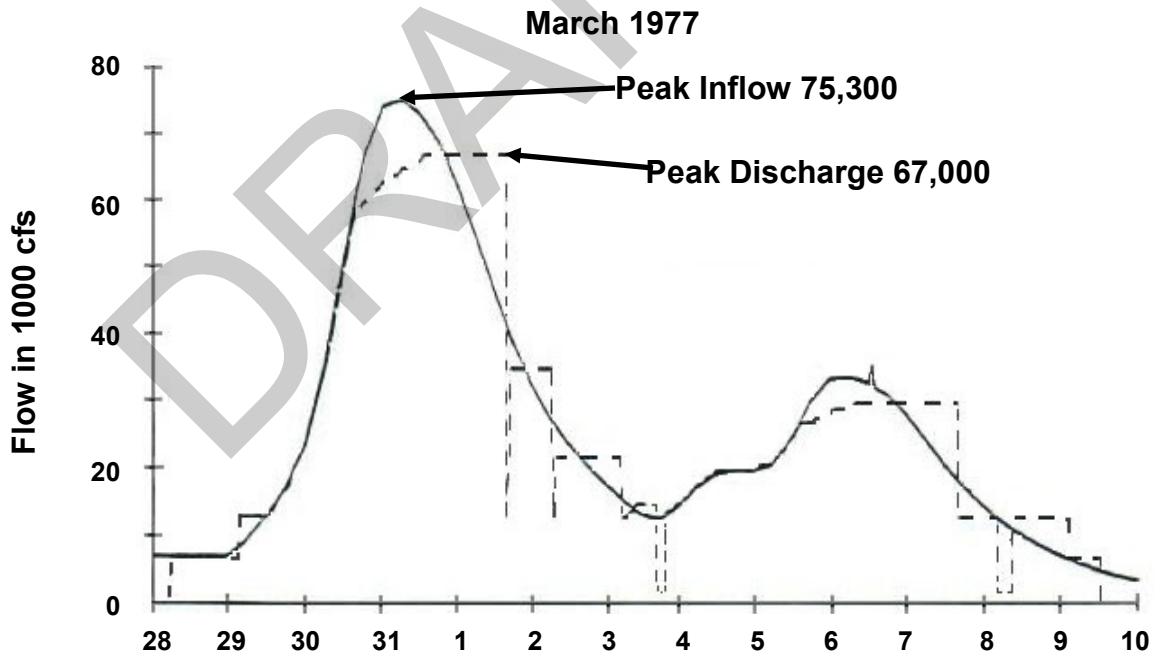
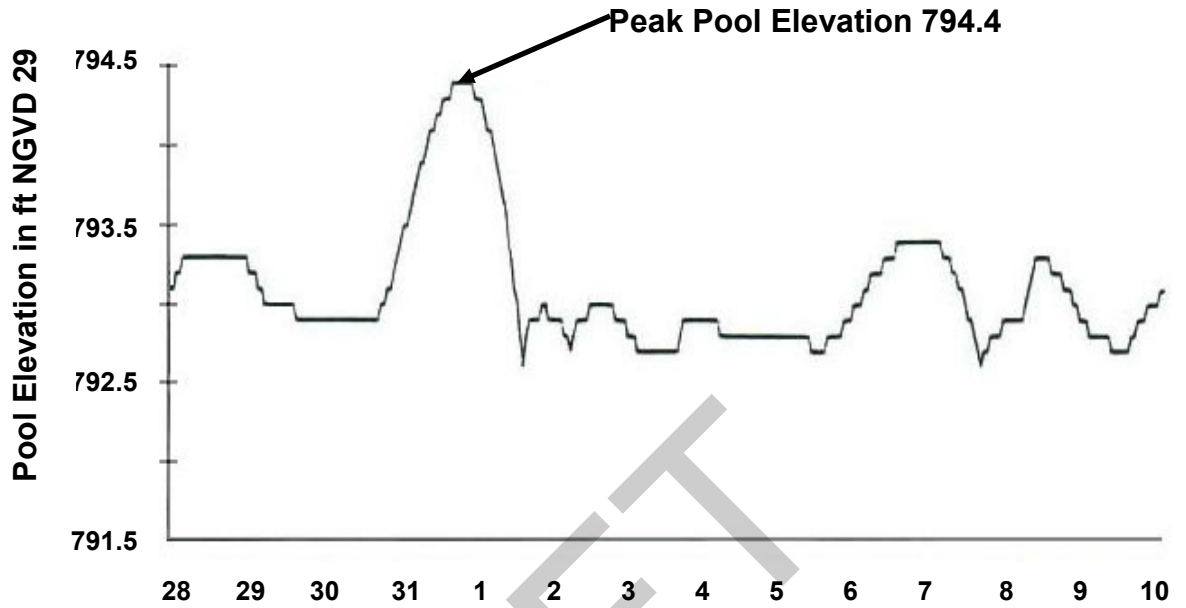
March 1977



March 1977

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY

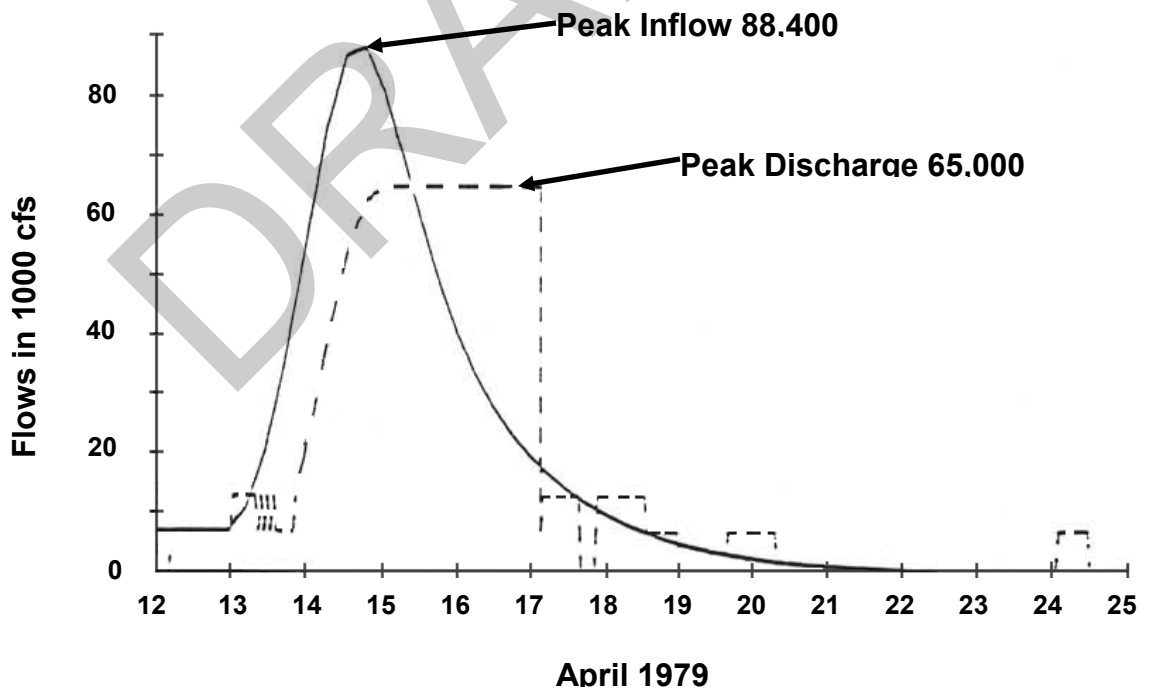
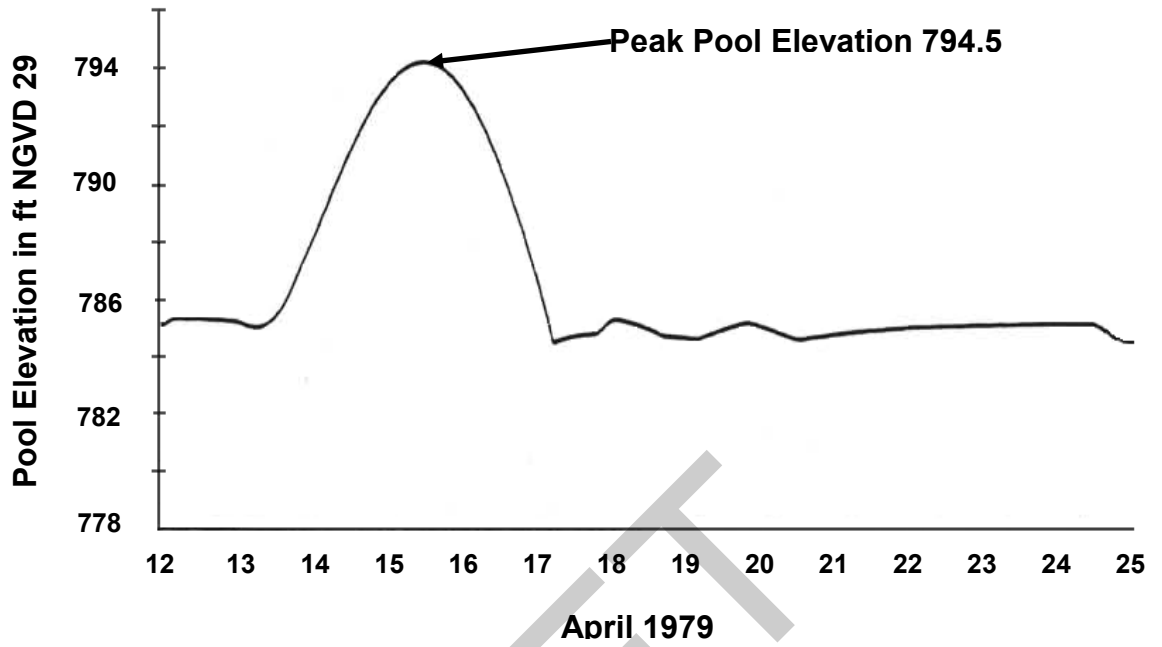
1977 FLOOD
INDUCED SURCHARGE REGULATION



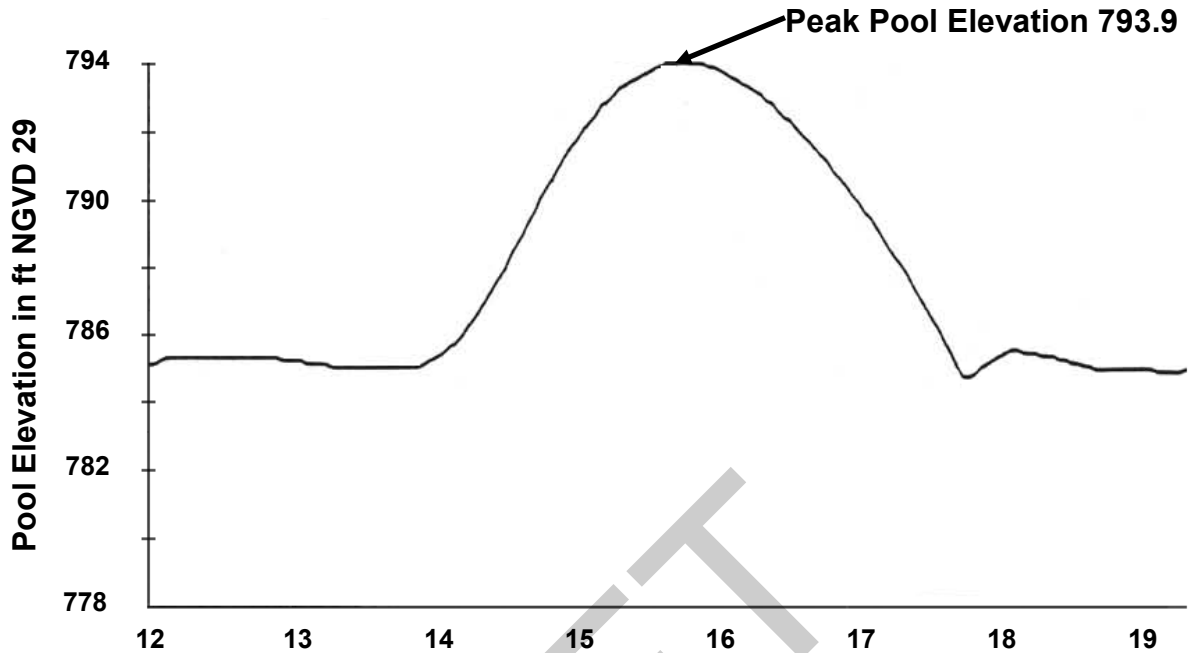
March 1977

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY

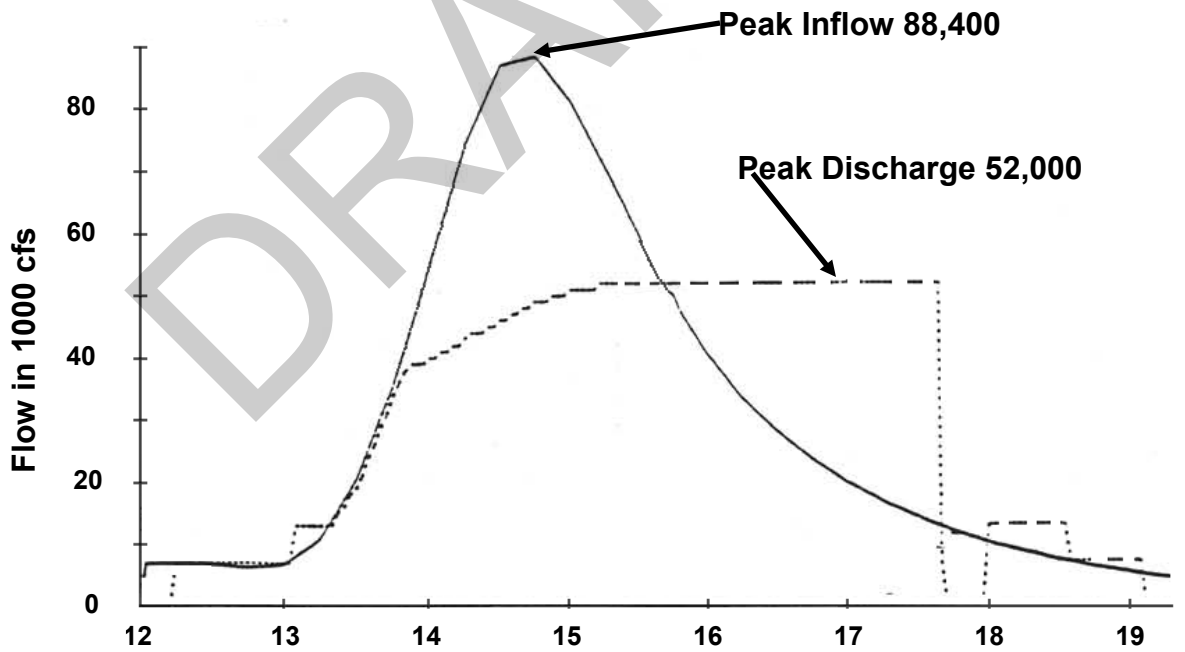
**FLOOD OF 1977
BASIN MODEL REGULATION**



ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
FLOOD OF 1979
INDUCED SURCHARGE REGULATION

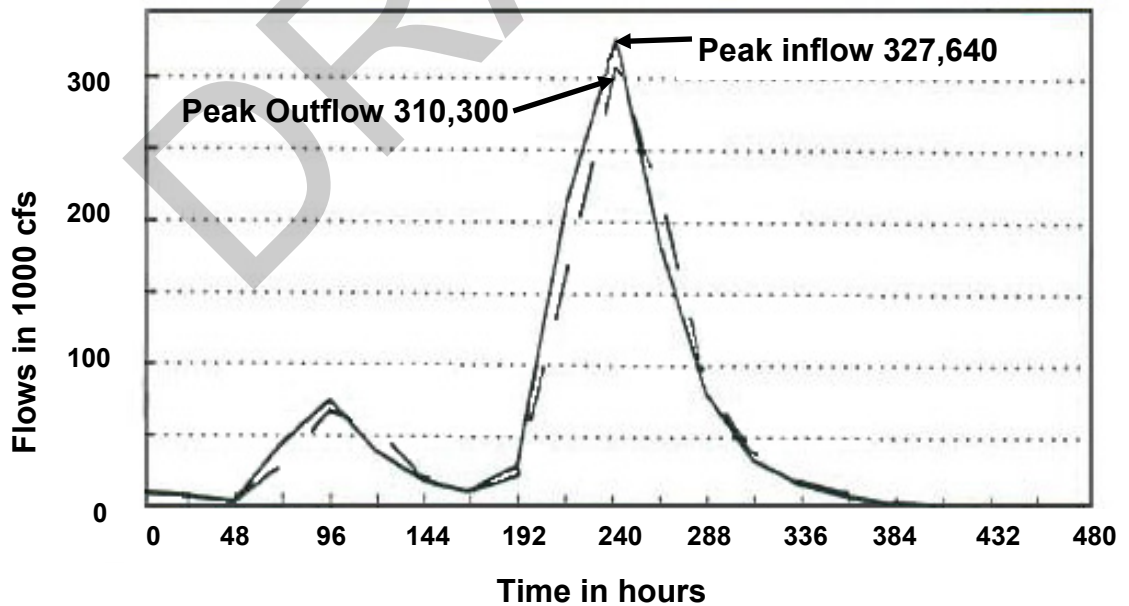
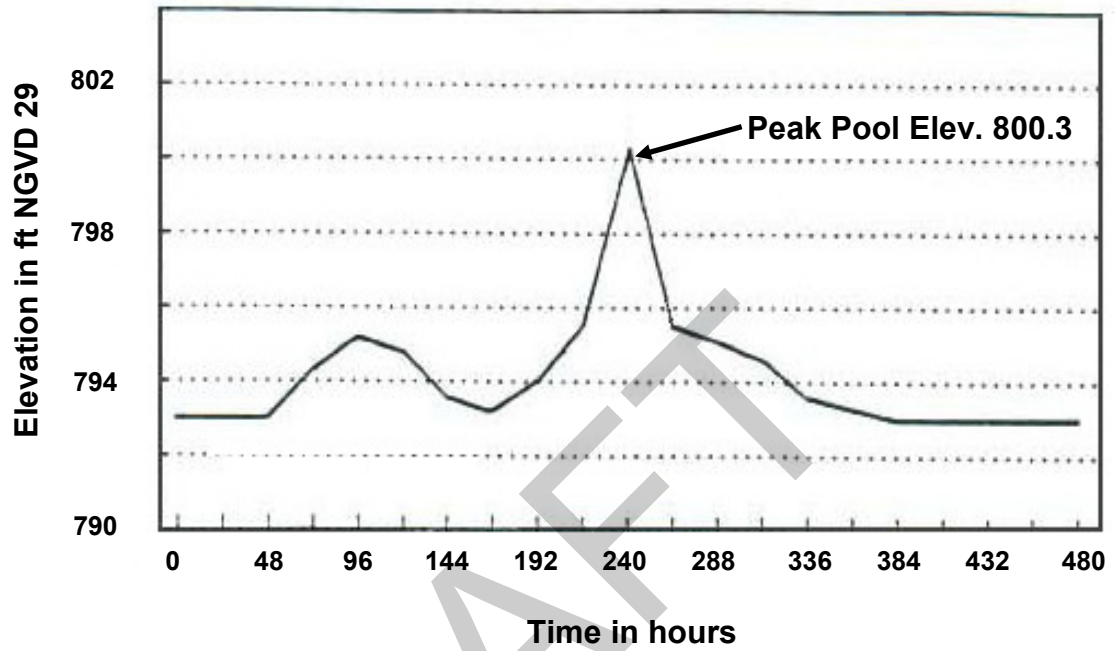


April 1979

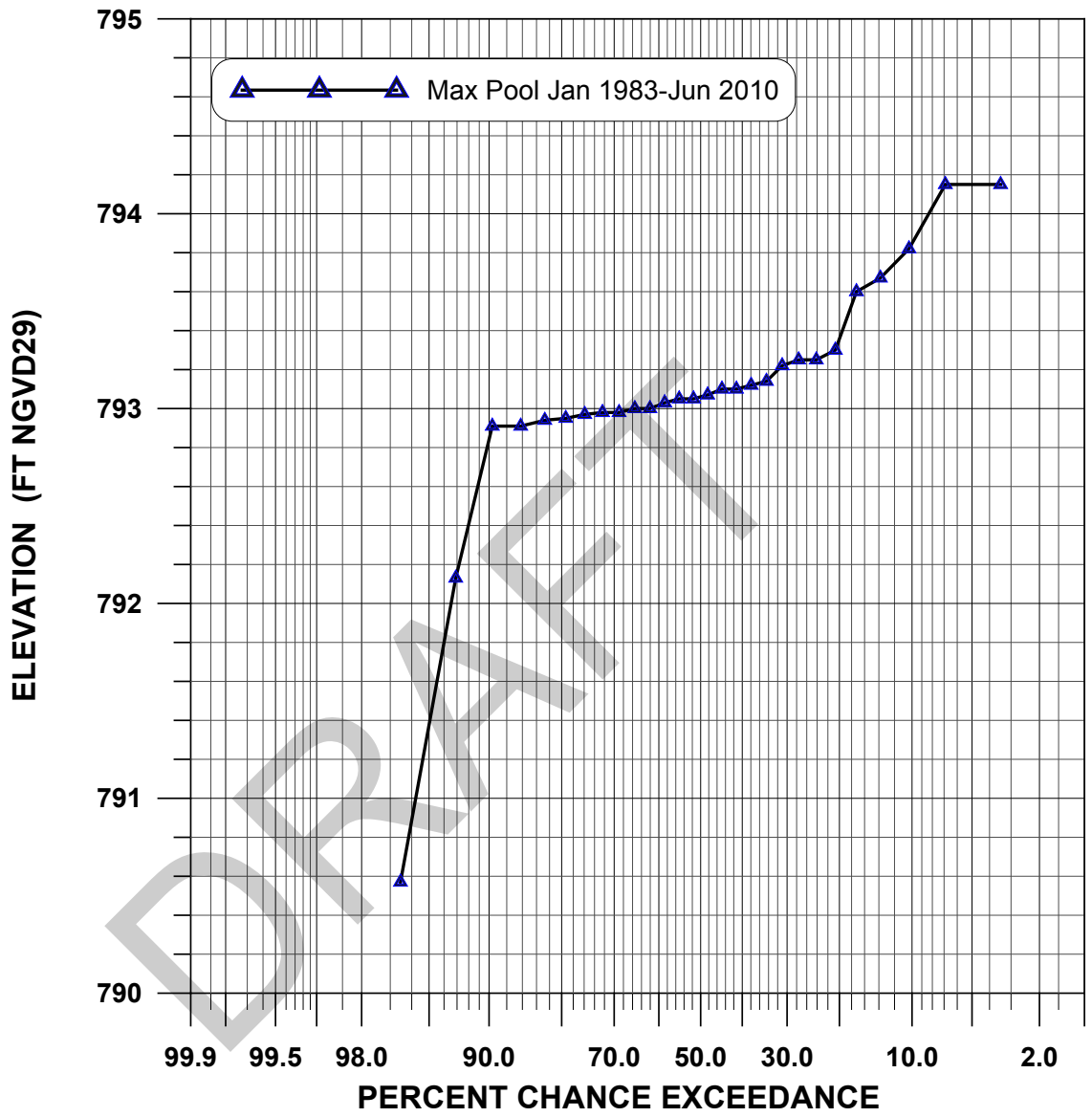


April 1979

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
FLOOD OF 1979
BASIN MODEL REGULATION

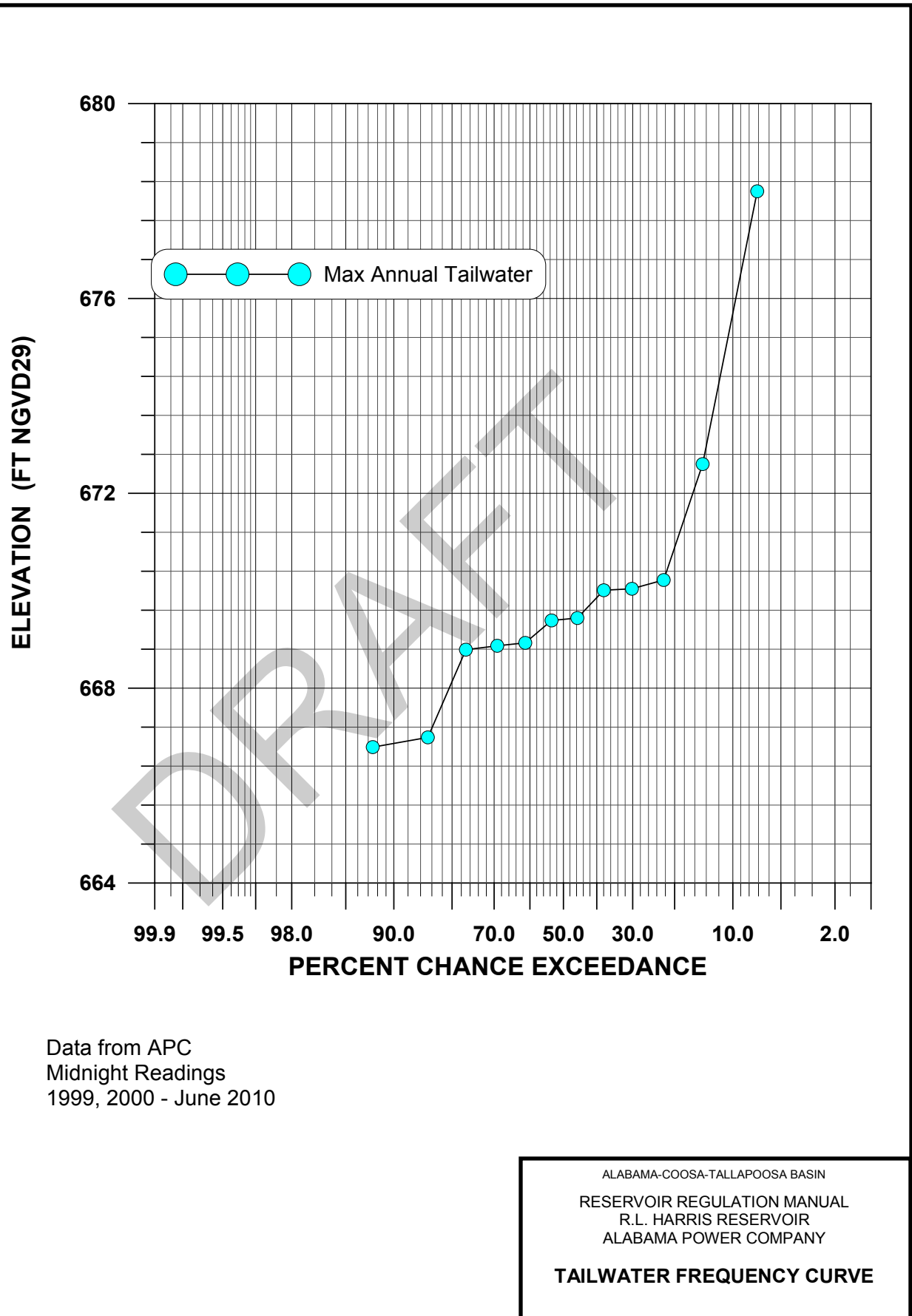


ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
PROBABLE MAXIMUM FLOOD



Data from APC
Midnight Readings

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
HEADWATER FREQUENCY CURVE



Data from APC
Midnight Readings
1999, 2000 - June 2010

ALABAMA-COOSA-TALLAPOOSA BASIN
RESERVOIR REGULATION MANUAL
R.L. HARRIS RESERVOIR
ALABAMA POWER COMPANY
TAILWATER FREQUENCY CURVE