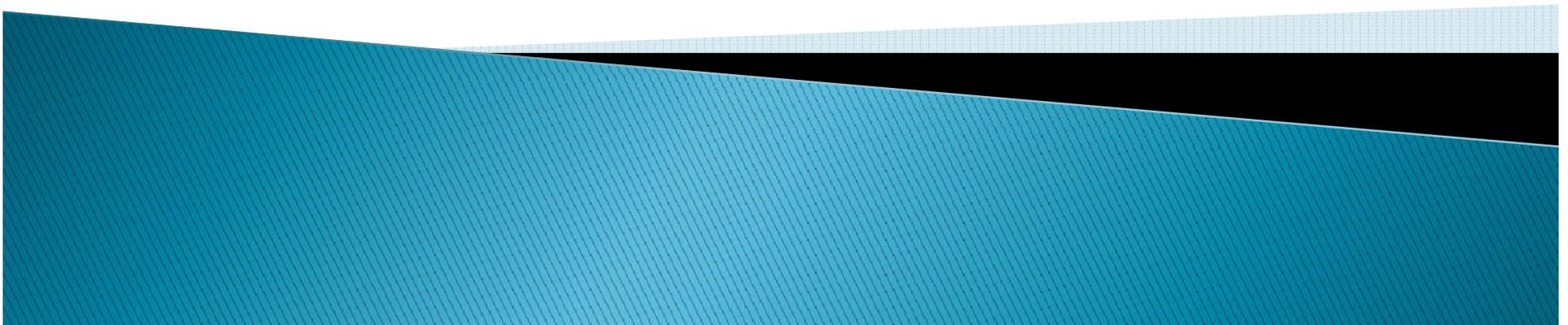


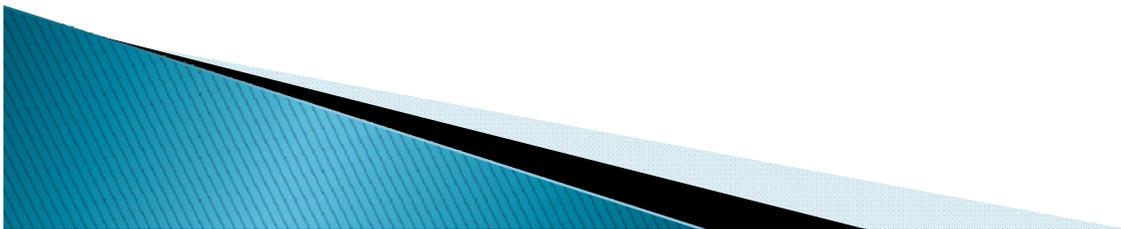
Revised Yield Memorandum–Response to Comments

SRBA Board Meeting
January 2016



Purpose of Technical Memo

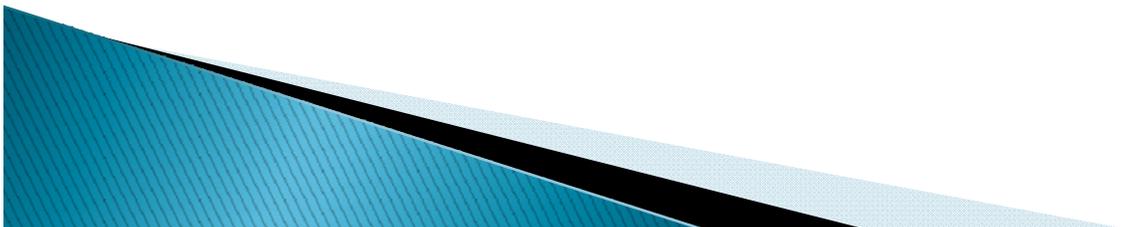
As directed by SRBA, the purpose of the Technical Memo was to give the US Army Corps of Engineers the information that they must have to start their required processes. What the Corps requires is a documented need for water to consider an increase in conservation storage (pool raise) at Wright Patman.



Summary of Comments on Technical Memo

- 10 - about grammar and/or text clarity
(comments 1 - 9 and 14)
- 2 - about JCPD and local share
(comments 10 and 11)
- 2 - about goals and release date
(comments 12 and 13)

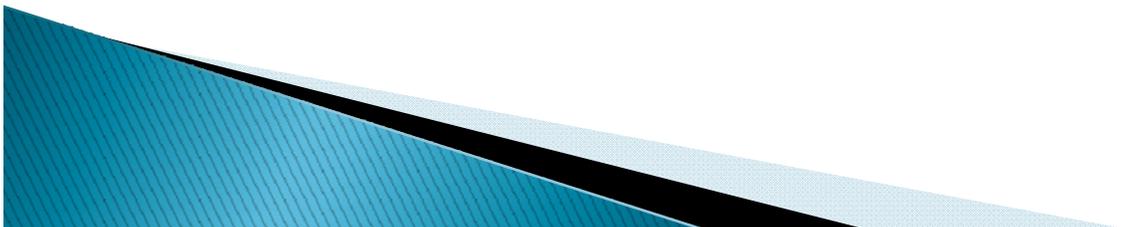
14



Missing Table References

Comments 1-6

- 1 Page 2 of 14 in Attachment 2. Combination Yields, last sentence first paragraph. "The data used to make Combination Yields, last sentence first paragraph. "the data used to make the graph" are shown in **Error! Reference source not found.**
- 2 Page 5 of 14 in Attachment 2. Impact of Modeling Assumption on Yield. "In order to determine how much each assumption is impacting the yield, they are treated as four on-off switches" **Error! Reference source not found.**
- 3 Page 6 of 14 in Attachment 2. Impact on Stand-Alone Yields. Twice in the paragraph you have the **Error! Reference not found.**
- 4 Page 9 of 14 in Attachment 2. Impact of Assumptions on Combination Yields. Again there is **Error! Reference source not found.**
- 5 Page 10 of 14 in Attachment 2. Impacts of Alternative Model Assumptions. Again there is **Error! Reference source not found.**
- 6 Page 11 of 14 in Attachment 2. Impacts of Alternative Model Assumptions. Three times it reads **Error! Reference source not found.**



Comment #1

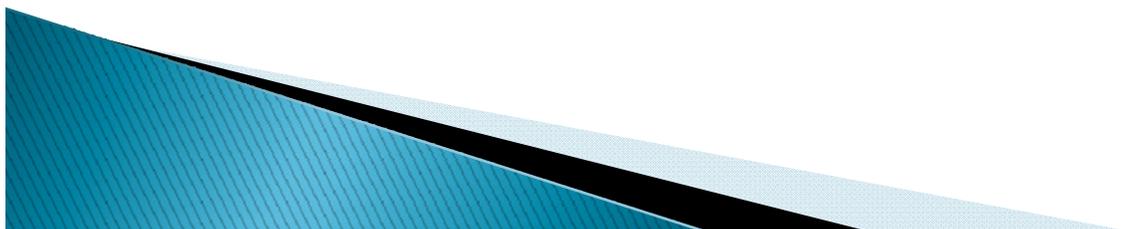
Page 2 of 14 in Attachment 2. “*Combination Yields, last sentence first paragraph. “The data used to make Combination Yields, last sentence first paragraph. “the data used to make the graph” are shown in **Error! Reference source not found.**”*”



Original Memo

Combination Yields

Figure 2-1 shows the Marvin Nichols Reservoir and Lake Wright Patman reallocation that were used to determine configurations that meet the supply goals. The black line shows the conservation elevation combinations that meet the 604,000 acre-feet per year supply goal. The blue dots represent the individual runs that were used to determine the black line. The red dots show the yields with Marvin Nichols at 313.5 feet or 328 feet conservation with various elevations of Wright Patman reallocation. The red dots are intended to bracket the results. The data used to make the graph are shown in **Error! Reference source not found.**



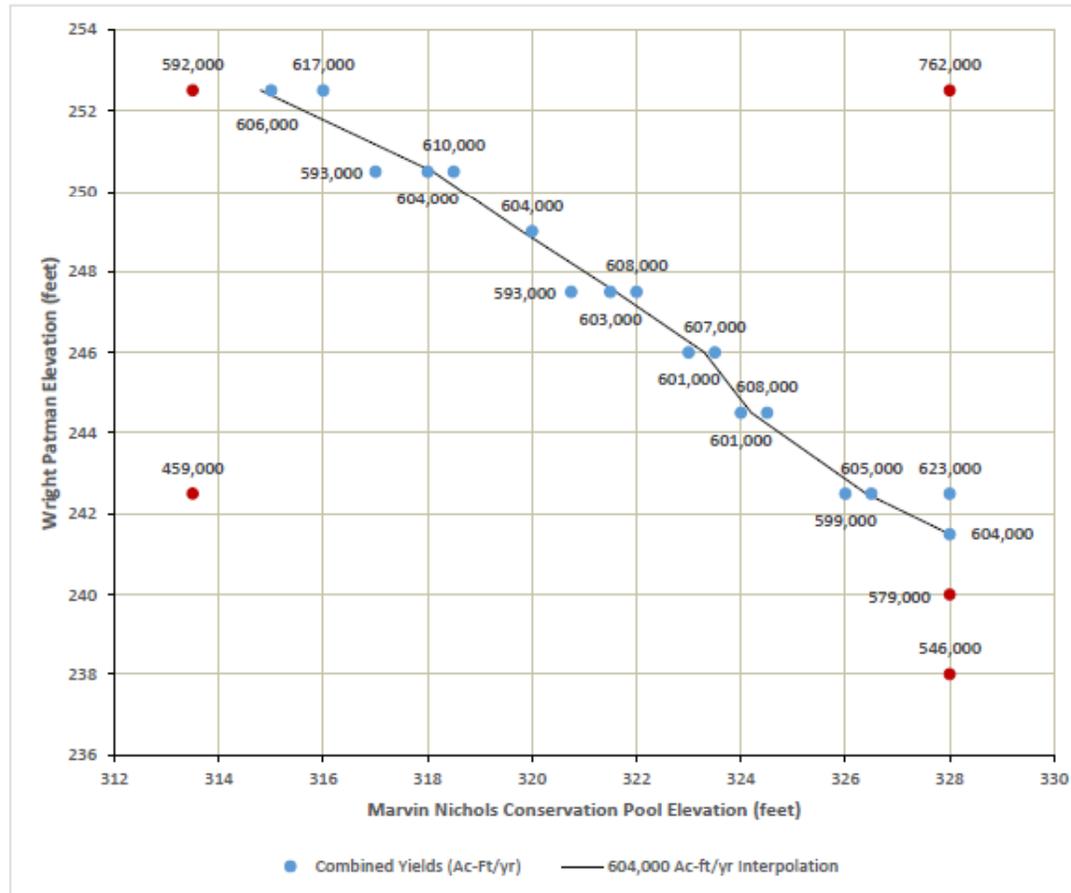


Figure 2-1: Combined Yields of Wright Patman Reallocation and the Proposed Marvin Nichols Reservoir

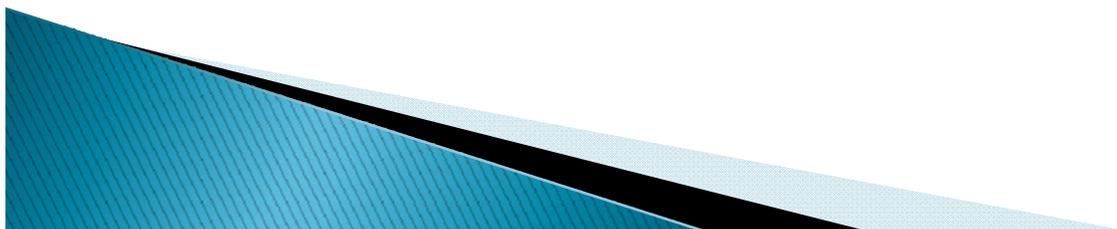




Table 2-3: Combined Yields of Wright Patman Reallocation and the Proposed Marvin Nichols Reservoir

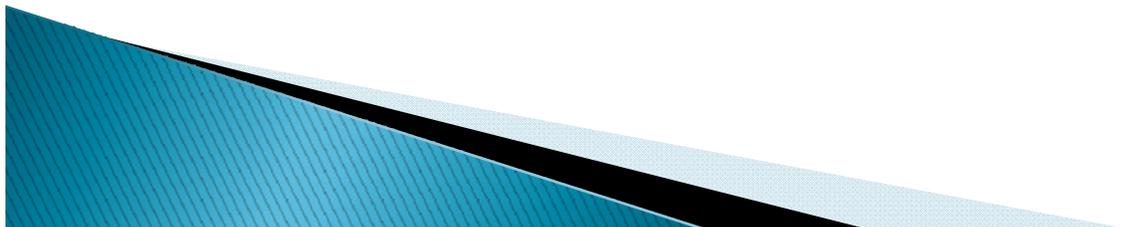
Patman Elevation (feet)	Marvin Nichols Elevation (feet)	New Patman Yield (acre-feet/year)	Marvin Nichols Yield (acre-feet/year)	Combined Yield (acre-feet/year)
238.0	328.0	81,000	464,000	545,000
240.0	328.0	113,000	466,000	579,000
241.5	328.0	137,000	467,000	604,000
242.5	313.5	159,000	299,000	458,000
242.5	326.0	159,000	440,000	599,000
242.5	326.5	159,000	446,000	605,000
242.5	328.0	159,000	464,000	623,000
244.5	324.0	184,000	417,000	601,000
244.5	324.5	184,000	423,000	607,000
246.0	323.0	195,000	406,000	601,000
246.0	323.5	195,000	412,000	607,000
247.5	320.8	214,000	380,000	594,000
247.5	321.5	214,000	390,000	604,000
247.5	322.0	213,000	395,000	608,000
249.0	320.0	234,000	371,000	605,000
250.5	317.0	258,000	336,000	594,000
250.5	318.0	258,000	347,000	605,000
250.5	318.5	258,000	353,000	611,000
252.5	313.5	293,000	299,000	592,000
252.5	328.0	291,000	471,000	762,000
252.5	315.0	292,000	314,000	606,000
252.5	316.0	292,000	325,000	617,000



Corrected Memo

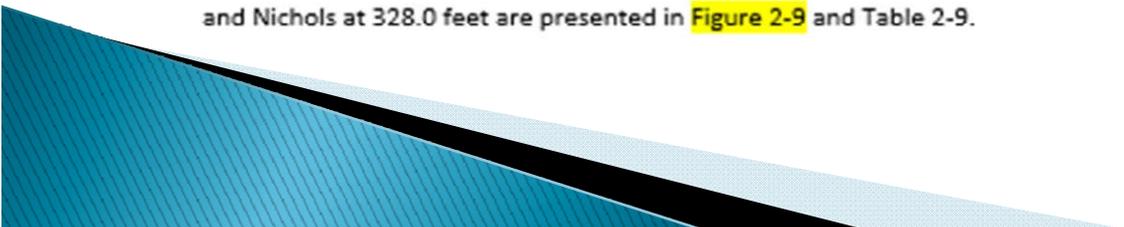
Combination Yields

Figure 2-1 shows the Marvin Nichols Reservoir and Lake Wright Patman reallocation that were used to determine configurations that meet the supply goals. The black line shows the conservation elevation combinations that meet the 604,000 acre-feet per year supply goal. The blue dots represent the individual runs that were used to determine the black line. The red dots show the yields with Marvin Nichols at 313.5 feet or 328 feet conservation with various elevations of Wright Patman reallocation. The red dots are intended to bracket the results. The data used to make the graph are shown in [Table 2-3](#).



Missing Table References

Comments 2-6

- 2 Page 5 of 14 in Attachment 2. Impact of Modeling Assumption on Yield. "In order to determine how much each assumption is impacting the yield, they are treated as four on-off switches" **Error! Reference source not found.**
- Releases. More information on these assumptions may be found in Attachment 1. In order to determine how much each assumption is impacting the yield, they are treated as **four on-off switches (Figure 2-2)** as follows:
- Corrected Reference
- 3 Page 6 of 14 in Attachment 2. Impact on Stand-Alone Yields. Twice in the paragraph you have the **Error! Reference source not found.**
- Stand-alone yields for Marvin Nichols Reservoir with various combinations of these switches are shown in **Figure 2-3** and Table 2-4. These yields assume a conservation pool elevation of 313.5 feet. Stand-alone yields for Lake Wright Patman (i.e. without Nichols Reservoir upstream) at a conservation pool elevation of 242.5 feet are presented in **Figure 2-4** and Table 2-5. The yields reported for Patman are the firm yields in excess of
- Corrected Reference
- 4 Page 9 of 14 in Attachment 2. Impact of Assumptions on Combination Yields. Again there is **Error! Reference source not found.**
- The impact of the four modeling switches on the combined yields for Nichols at 313.5 feet and Patman reallocation at 242.5 feet are presented in **Figure 2-5** and Table 2-6. The WAM yields from the *Watershed Overview Sulphur River Basin Report* are included for comparison purposes.
- Corrected Reference
- 5 Page 10 of 14 in Attachment 2. Impacts of Alternative Model Assumptions. Again there is **Error! Reference source not found.**
- much yield could be won back by modifying each assumption, they are treated as three different on-off switches **(Figure 2-6)** as follows:
- Corrected Reference
- 6 Page 11 of 14 in Attachment 2. Impacts of Alternative Model Assumptions. Three times it reads **Error! Reference source not found.**
- and Nichols at 328.0 feet are presented in **Figure 2-7** and Table 2-7. Combined yields for Patman at 237.5 feet and Nichols at 328.0 feet are presented in **Figure 2-8** and Table 2-8. Combined yields for Patman at 242.5 feet and Nichols at 328.0 feet are presented in **Figure 2-9** and Table 2-9.
- Corrected Reference
- 

Comment #7

Page 7 of 7 in Attachment 1.

“Table 1–7 Monthly Total Flows at Lake Wright Patman contains an asterick that is unexplained. On page 5 of 7, Table 1–5 Monthly Flows at Marvin Nichols Site contains an asterick that is explained at the bottom of the Table. Is the explanation the same or different for Table 1–7 compared to Table 1–5?”

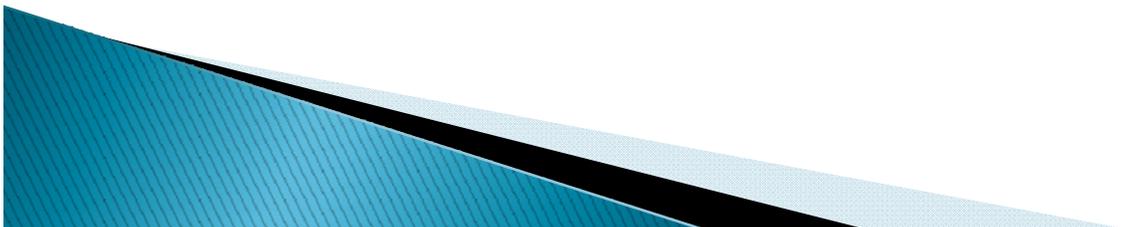


Table 1-7: Monthly Total Flows at Lake Wright Putman
Values in acre-feet per month

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938	1,046,787	719,799	183,680	899,904	31,243	183,194	8,217	5,230	1,137	305	6,345	580	3,063,183
1939	32,139	290,791	318,401	556,680	30,023	20,476	8,867	124	7	0	2	969	1,278,474
1940	443	32,123	10,701	343,799	283,660	362,409	296,634	2,762	4,851	516	155,096	569,459	2,042,432
1941	290,895	194,091	418,150	234,589	1,018,549	586,513	204,723	33,096	7,592	29,639	24,159	170,570	3,270,569
1942	43,783	72,636	201,115	1,065,826	689,650	255,873	27,335	5,267	25,651	1,882	22,230	64,662	2,475,706
1943	153,183	21,942	314,595	156,495	36,941	299,253	9,783	813	1,351	9,771	7,172	29,664	1,063,467
1944	97,132	222,031	62,737	253,032	914,763	289,027	4,236	5,303	25,235	590	51,290	258,796	2,748,993
1945	382,208	459,776	1,310,646	1,821,927	129,038	942,421	161,946	9,343	15,384	432,707	36,365	6,039	5,326,970
1946	476,937	862,741	224,608	253,137	821,795	651,143	14,562	17,164	14,983	2,534	906,168	346,126	4,591,898
1947	127,008	22,815	206,286	275,560	466,132	29,300	3,428	6,976	7,130	1,119	84,957	522,401	1,753,112
1948	324,005	366,306	437,343	104,274	693,063	61,708	17,923	4,634	599	684	1,671	4,817	2,017,209
1949	326,722	612,711	479,512	218,789	230,984	69,711	20,342	11,340	6,247	430,308	173,367	58,452	2,618,485
1950	806,638	1,238,196	183,444	41,081	822,209	102,091	42,323	79,906	583,671	43,256	2,906	1,918	3,743,642
1951	44,404	515,229	95,161	27,156	65,056	391,997	63,760	4,280	8,558	13,676	23,340	51,633	1,304,258
1952	161,769	69,315	127,896	980,930	300,181	97,848	11,820	1,786	48	38	56,823	336,389	2,146,343
1953	138,418	194,972	202,030	275,950	1,026,830	8,370	47,874	5,874	10,338	1,120	21,619	117,064	2,050,459
1954	299,017	149,291	28,192	74,342	598,840	49,002	537	48	13	98,759	130,147	12,979	1,441,167
1955	19,737	98,849	182,890	287,146	39,251	9,365	45,174	21,131	23,493	82,174	867	1,483	813,586
1956	2,197	344,912	21,134	6,543	153,076	5,739	3,061	883	737	871	24,415	3,621	567,409
1957	22,923	116,983	197,382	939,982	1,250,292	677,926	48,340	15,839	62,019	136,680	831,134	113,545	4,413,045
1958	429,183	74,596	281,569	373,302	1,317,761	106,155	179,057	9,091	31,944	14,408	73,694	40,515	2,931,278
1959	12,577	228,793	170,092	147,233	34,760	106,102	117,338	84,385	11,753	71,601	63,077	375,305	1,421,012
1960	527,879	147,695	205,771	16,078	35,050	61,129	158,651	19,262	80,632	157,040	40,437	643,773	2,093,397
1961	299,846	175,878	220,781	475,300	36,268	40,702	78,681	11,834	13,527	6,507	61,654	351,101	1,772,074
1962	202,862	280,469	314,043	144,559	205,151	86,997	83,113	7,112	181,728	86,076	154,445	193,894	1,940,439
1963	116,883	13,795	124,090	40,790	114,574	14,665	22,571	2,807	151	16	53	1,513	451,848
1964	386	7,171	61,609	202,477	204,791	72,541	293	3,030	73,644	32,540	109,039	53,075	820,587
1965	88,672	552,838	117,709	25,454	388,890	82,668	1,117	116	12,390	1,230	951	930	1,272,955
1966	4,948	129,046	12,007	516,264	1,210,244	17,099	3,154	23,278	28,831	57,062	2,564	39,492	2,043,989
1967	63,815	29,945	39,991	319,176	525,939	526,170	52,631	505	48,003	79,358	200,067	222,965	1,908,564
1968	189,289	222,714	566,539	269,712	595,084	240,527	160,622	29,471	84,621	19,197	129,200	314,348	2,821,324
1969	147,548	696,442	488,065	258,192	738,719	54,055	1,460	123	70	11,386	10,305	79,824	2,486,189
1970	106,379	222,124	593,338	228,337	314,525	12,550	8,020	2,101	24,304	167,275	43,275	11,211	1,736,439
1971	10,619	56,641	34,120	1,679	15,514	3,211	22,055	90,027	4,763	391,572	97,653	1,101,354	1,827,208
1972	103,626	21,878	15,551	5,397	2,805	5,095	1,929	364	2,687	36,116	280,674	212,826	668,948
1973	143,662	340,620	704,207	654,871	277,649	297,717	5,729	950	192,144	284,277	702,789	427,237	4,031,852
1974	422,900	126,463	34,823	137,894	138,816	448,255	5,822	2,202	195,495	126,205	643,872	511,686	2,794,433
1975	85,893	688,341	299,618	213,184	382,794	234,436	17,781	9,218	673	1,190	1,354	1,934,667	
1976	2,379	6,253	115,615	215,420	263,589	181,337	350,681	2,453	13,150	43,276	18,268	143,887	1,356,308
1977	96,063	330,670	344,342	638,045	61,151	28,361	2,852	5,543	1,120	75	51,990	11,548	1,571,760
1978	46,757	89,086	192,900	52,888	23,055	16,152	94	6	3	0	30,915	16,953	468,803
1979	282,103	202,802	386,127	455,105	510,573	259,808	35,473	48,599	49,093	2,960	25,875	134,031	2,392,549
1980	325,744	305,104	36,521	218,584	180,360	37,930	2,490	2,334	22,956	48,804	16,538	83,944	1,281,309
1981	7,334	36,655	54,491	14,459	301,812	626,472	72,631	2,393	2,855	516,341	251,741	8,275	1,895,459
1982	22,961	99,673	126,437	77,184	759,022	421,005	155,671	22,775	1,739	2,909	115,404	887,199	2,691,979
1983	113,613	292,265	421,911	87,183	55,492	49,243	91,131	966	106	84	3,121	49,282	1,421,179
1984	18,261	111,203	363,582	277,006	87,907	2,481	4,004	923	473	221,128	303,864	495,514	1,886,346
1985	115,183	257,016	582,403	344,134	301,294	105,491	9,524	726	71	12,887	137,921	477,982	2,344,612
1986	13,943	386,317	36,365	440,575	201,892	266,027	95,747	368	12,467	21,720	144,913	213,783	1,834,617
1987	164,502	151,103	736,447	29,909	17,922	41,657	16,352	2,029	43,483	37,629	492,998	874,063	2,608,094
1988	413,260	156,983	161,047	158,421	2,322	439	82,128	3,872	3,101	8,652	294,968	316,274	1,601,467
1989	174,506	766,258	310,480	246,556	699,739	712,660	260,780	36,761	11,615	1,252	707	1,373	3,222,667
1990	241,043	392,372	1,106,258	651,017	992,211	253,092	17,423	14,868	18,959	40,035	126,485	257,142	4,110,905
1991	545,576	275,050	216,022	480,204	457,944	68,739	11,312	6,296	11,140	120,345	502,765	953,151	3,648,544
1992	301,454	360,107	688,351	56,894	220,596	215,024	446,308	385,270	47,393	7,569	100,091	643,389	3,472,446
1993	458,832	276,458	710,790	312,490	132,959	21,924	4,852	5,463	5,048	467,286	161,666	635,021	3,193,669
1994	137,593	215,229	515,944	45,680	233,357	120,513	237,494	19,612	14,480	41,524	435,043	488,904	2,505,393
1995	481,154	194,353	264,307	390,919	697,825	114,449	7,188	3,865	11,457	1,692	857	2,797	2,170,883
1996	9,952	3,727	7,584	19,028	98,380	45,601	14,015	114,878	60,470	104,681	580,882	627,117	1,686,315
1997	112,421	952,368	687,186	541,287	272,311	177,947	7,291	9,610	370	10,067	24,127	326,446	3,121,429
1998	912,774	371,307	386,644	51,045	33,405	4,818	390	924	45,512	222,884	161,744	590,537	2,781,784
1999	270,277	210,185	301,351	168,437	99,634	42,105	6,625	219	417	2,358	1,994	27,781	1,131,383
2000	9,084	28,758	186,536	160,925	337,369	550,892	182,850	536	613	526	593,665	512,147	2,563,901
2001	748,339	977,725	1,181,579	322,776	74,401	79,447	30,042	10,298	90,982	176,584	18,971	1,073,934	4,785,028
2002	122,909	352,581	488,702	633,998	122,499	4,967	9,657	5,262	5,424	293,547	72,447	127,729	2,239,722
2003	157,664	147,794	256,155	18,970	40,726	49,826	3,710	658	2,051	1,737	2,691	2,454	683,936
2004	16,840	151,014	203,266	22,833	85,254	143,794	37,407	1,803	821	6,962	97,724	85,433	753,141
2005	257,798	119,396	80,429	61,637	6,937	1,950	3,817	3,555	3,823	1,824	1,041	1,228	543,435
2006	4,079	9,023	357,343	57,332	6,121	3,482	4,230	2,190	337	2,775	6,175	38,910	491,997
2007	489,852	51,662	27,680	86,009	97,804	297,923	747,043	100,214	11,621	31,215	3,518	55,929	2,000,450
2008	12,328	307,497	946,139	672,807	560,289	54,054	17,506	12,244	17,869	23,860	14,874	17,854	2,156,038
2009	21,215	19,198	193,331	155,463	1,275,379	11,036	45,739	163,999	155,459	1,592,539	413,219	384,502	4,431,078
2010	256,545	826,702	282,901	132,656	37,476	66,699	12,345	1,493	7,749	8,401	12,371	4,070	1,629,408
2011	23,352	32,331	17,510	43,841	217,985	7,350	942	1,884	1,815	1,090	2,709	47,798	398,606
2012	174,243	233,419	583,995	198,055	38,067	16,216	8,639	1,242	2,337	3,869	3,883	8,594	1,272,359
2013	27,805	24,000	8,378	41,500	47,781	55,442	4,089	923	19,451	31,404	92,500	261,708	614,981

Table 1-5: Monthly flows at Marvin Nichols Sta.
Values in acre-feet per month

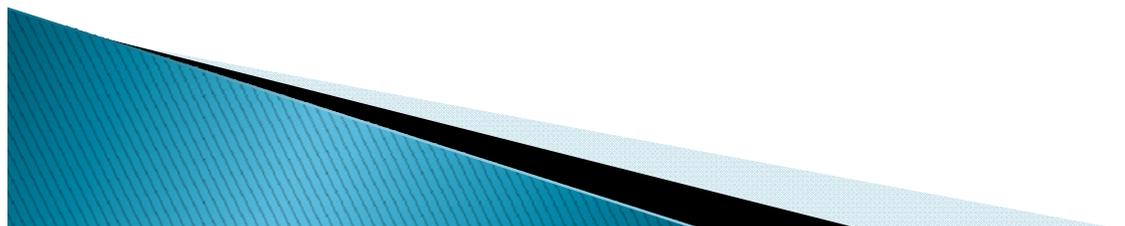
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938	642,783	352,796	76,911	481,224	30,579	88,312	4,348	2,706	628	37	3,482	279	1,684,305
1939	18,739	179,466	175,388	291,980	30,977	11,256	4,535	47	1	0	1	559	693,922
1940	210	7,062	6,208	189,242	166,121	183,980	158,861	748	2,595	277	107,916	301,222	1,124,437
1941	147,385	103,434	231,870	153,865	525,217	319,127	113,539	12,591	3,523	16,311	42,443	96,280	1,785,549
1942	17,858	40,429	308,281	622,532	343,343	133,140	8,814	4,073	16,633	1,105	14,492	47,843	1,358,543
1943	67,674	11,571	185,359	74,067	28,580	158,023	4,572	364	651	4,754	3,944	16,644	556,200
1944	51,721	130,053	333,965	112,829	498,338	135,742	2,466	4,123	12,159	281	31,224	145,037	1,457,938
1945	187,904	297,109	894,496	737,405	67,510	335,441	86,742	6,404	10,370	227,739	18,252	2,811	2,672,183
1946	249,072	457,432	114,712	130,352	470,249	294,950	7,395	15,795	6,179	1,349	491,286	175,597	2,413,868
1947	66,666	8,523	111,370	139,152	236,500	13,675	804	6,548	3,255	588	53,517	275,297	915,895
1948	168,624	195,828	227,083	52,131	372,238	21,296	9,872	2,179	279	391	938	3,222	1,054,081
1949	250,566	294,321	243,245	101,349	113,925	39,234	11,329	5,211	3,594	241,902	42,192	32,989	1,379,857
1950	336,019	656,641	77,782	21,505	445,607	53,232	33,744	30,784	335,980	12,996	1,121	886	2,006,477
1951	21,580	288,988	32,589	16,123	35,162	283,829	30,204	2,070	4,762	9,383	11,300	21,667	757,448
1952	76,441	33,393	68,277	543,465	136,438	38,732	4,386	1,717	2	0	37,736	145,875	1,088,462
1953	67,678	99,796	115,035	215,510	475,294	3,085	23,069	2,780	2,324	692	13,609	61,615	1,080,576
1954	158,226	67,665	6,623	45,521	341,673	26,219	234	22	1	80,300	56,929	6,805	790,033
1955	9,170	58,361	118,571	142,346	25,860	4,231	28,368	13,943	14,879	43,651	440	773	460,593
1956	1,347	203,042	5,545	4,365	88,387	3,812	1,444	876	699	536	11,217	3,556	324,826
1957	19,870	63,098	143,257	692,807	819,981	426,976	16,379	10,087	52,653	79,477	492,181	56,782	2,871,498
1958	192,767	20,528	168,566	243,890	656,342	74,721	81,442	6,529	20,609	6,707	40,215	13,067	1,525,381
1959	9,278	101,972	60,572	62,294	15,242	106,102	117,338	31,477	11,202	55,965	48,043	268,034	887,697
1960	253,145	72,703	82,353	7,402	34,640	60,642	97,974	17,318	80,632	115,225	34,356	446,754	1,281,144
1961	171,663	89,043	175,641	185,274	24,265	26,818	28,907	3,316	10,676	3,435	47,223	169,762	996,023
1962	113,459	109,361	303,674	113,386	74,263	86,997	62,117	3,952	158,307	73,090	154,445	65,180	1,118,239
1963	62,664	5,078	62,119	30,071	39,592	4,567	20,658	462	52	11	40	1,968	226,682
1964	297	3,675	45,487	148,689	70,966	56,534	134	2,708	53,968	9,746	97,598	21,045	510,827
1965	77,963	386,331	36,637	11,094	307,196	22,120	230	304	20,568	195	829	894	854,141
1966	3,187	85,852	4,572	536,264	518,426	8,029	567	14,034	18,118	33,612	2,006	30,044	1,224,711
1967	18,648	9,323	20,308	359,176	276,066	247,723	47,873	190	44,651	79,358	117,722	176,874	1,357,938
1968	126,586	134,212	416,476	246,418	392,272	240,527	79,739	19,730	78,178	16,097	129,200	236,301	2,095,736
1969	147,548	542,789	319,018	122,258	621,193	16,949	777	75	70	11,388	7,645	79,824	1,879,536
1970	62,386	202,062	359,398	211,214	300,863	9,598	983	924	22,705	136,142	31,243	9,434	1,346,939
1971	7,078	32,513	14,982	1,153	12,237	909	14,809	67,823	4,324	366,649	33,867	747,328	1,303,672
1972	46,309	6,897	12,158	1,057	1,948	2,275	541	356	2,687	35,301	177,285	107,573	394,387
1973	113,215	176,533	511,603	455,777	303,716	174,829	2,078	835	193,854	257,634	451,496	209,293	2,648,663
1974	220,600	42,300	13,619	101,975	59,311	318,653	1,589	1,005	173,693	80,540	454,619	244,633	1,692,539
1975	44,409	380,452	165,366	101,609	226,223	173,882	12,370	2,977	261	71	1,190	1,103	1,109,913
1976	2,070	3,175	48,264	146,054	136,675	117,532	244,621	1,294	11,615	43,276	11,459	129,672	895,707
1977	86,422	209,595	317,137	327,946	19,541	21,395	1,247	4,368	849	42	11,794	4,708	1,005,044
1978	22,875	61,825	122,130	18,899	21,432	13,823	29	6	3	0	30,418	16,953	308,392
1979	248,919	143,517	235,289	224,757	404,766	197,202	22,398	20,490	17,476	1,061	9,482	102,794	1,628,171
1980	128,521	146,944	14,280	93,360	118,101	18,694	134	2	22,956	38,789	7,590	70,217	659,588
1981	3,303	13,137	42,758	7,971	180,682	435,588	26,139	1,799	2,683	444,643	196,239	5,212	1,361,654
1982	15,802	69,883	85,611	61,889	759,022	272,486	56,166	13,889	1,609	2,791	115,404	501,955	1,956,487
1983	31,936	262,520	240,941	36,808	58,729	21,640	70,019	430	134	738	2,134	11,219	737,048
1984	7,217	91,556	358,096	95,211	86,062	1,418	4,004	707	454	142,731	110,108	250,514	1,348,076
1985	48,405	145,468	274,594	154,033	171,678	43,488	7,180	221	3	12,887	126,825	221,325	1,206,107
1986	4,574	179,160	14,817	219,047	91,624	161,825	60,870	129	12,004	21,562	144,913	100,872	1,011,397
1987	93,265	95,650	286,327	8,319	17,922	23,774	10,149	901	41,959	37,629	303,376	410,073	1,329,344
1988	131,076	76,864	79,259	80,882	1,382	307	43,120	2,640	3,070	8,652	179,715	101,228	708,195
1989	121,635	420,506	179,834	84,137	421,644	488,201	230,299	17,017	10,534	938	439	1,973	1,976,547
1990	202,122	227,624	537,685	323,885	544,500	113,813	8,114	2,756	16,525	31,588	64,590	106,734	2,179,938
1991	256,321	122,577	76,546	279,418	195,932	50,136	5,192	6,296	8,673	120,345	256,042	594,227	1,969,903
1992	162,136	183,057	278,700	17,741	199,338	169,756	220,161	151,291	28,739	4,697	49,410	276,359	1,721,383
1993	176,529	200,448	306,252	171,423	78,484	16,294	4,341	5,588	4,967	274,719	89,353	323,430	1,651,189
1994	68,667	116,212	228,547	29,420	208,228	58,583	144,523	10,251	13,731	40,090	249,183	247,897	1,415,312
1995	242,814	60,730	149,943	211,434	460,904	83,496	4,630	3,256	8,818	1,253	687	2,336	1,280,238
1996	8,362	1,196	7,384	14,667	51,428	36,203	14,015	39,414	37,357	72,451	470,005	216,663	991,343
1997	43,545	574,707	282,007	396,885	64,389	90,190	1,215	1,322	88	9,892	12,230	229,857	1,676,105
1998	381,642	175,561	198,820	23,613	14,839	934	0	719	20,945	101,564	90,982	313,580	1,322,999
1999	152,720	75,589	114,952	79,161	41,655	23,749	3,946	1	159	2,358	787	24,341	519,420
2000	6,887	21,144	308,824	70,619	171,021	257,505	57,214	478	613	319	459,358	348,484	1,502,463
2001	310,330	566,198	803,768	167,053	48,464	54,364	13,650	10,298	80,337	71,972	14,687	628,373	2,569,494
2002	91,923	209,076	297,625	340,317	58,184	1,218	4,646	5,262	3,463	240,468	28,627	93,609	1,374,416
2003	56,296	96,012	90,888	7,317	23,950	30,952	764	1,705	1,315	2,385	2,454	313,898	556,200
2004	14,529	81,714	44,839	12,762	24,630	72,393	13,855	1,189	452	6,328	97,724	51,876	422,111
2005	197,848	79,296	47,607	29,964	1,018	1,623	2,916	1,724	3,305	1,126	1,041	765	368,233
2006	3,854	7,125	247,213	18,939	3,695	2,985	4,230	1,552	95	2,758	5,619	38,920	336,975
2007	245,625	38,515	19,575	39,763	77,161	280,122	895,025	61,792	8,581	29,520	3,519	47,579	1,246,575
2008	7,020	136,782	687,809	314,717	51,866	23,394	2,009	8,520	10,330	11,223	7,681	6,303	1,267,654
2009	7,980	7,887	87,576	100,140	784,633	6,381	25,547	55,226	98,272	938,079	165,393	211,477	2,486,591
2010	159,261	451,224	161,850	41,643	18,852	20,932	7,600	695	7,584	5,489	6,924	3,381	887,435
2011	13,593	21,314	6,146	43,226	171,793	3,201	662	1,874	1,632	980	2,201	33,129	299,741
2012	174,243	90,331	380,664	89,518	27,347	11,924	8,402	304	2,337	2,799	1,719	6,784	796,372
2013	18,871	11,428	7,194	23,798	37,806	30,540	3,477	391	14,478	14,095	31,402	114,718	308,198
2014	24,452	29,222	47,759	94,394	133,902	30,108	19,626	14,616	13,435	18,017	5,428	13,637	444,596
Min	210	3,175	4,572	1,057	1,018	307	0	1	1	0	1	329	226,682
Max	6												



Table 1-7 (Continued)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1995	481,154	194,353	264,307	390,919	697,825	114,449	7,188	3,865	11,457	1,692	857	2,797	2,170,863
1996	9,952	3,727	7,584	19,028	98,380	45,601	14,015	114,878	60,470	104,681	380,882	627,117	1,686,315
1997	112,421	932,366	687,186	541,287	272,311	177,947	7,291	9,610	370	10,067	24,127	326,446	3,121,429
1998	912,774	371,307	386,644	51,045	33,405	4,818	390	924	45,312	222,884	161,744	390,537	2,781,784
1999	270,277	210,185	301,351	168,437	99,634	42,105	6,625	219	417	2,358	1,994	27,781	1,131,383
2000	9,084	28,758	186,536	160,925	337,369	550,882	182,850	536	613	526	393,665	312,147	2,563,901
2001	748,339	977,725	1,181,579	322,776	74,401	79,447	30,042	10,298	90,932	176,384	18,971	1,073,934	4,785,028
2002	122,909	352,581	488,702	633,998	122,499	4,967	9,657	5,262	5,424	293,547	72,447	127,729	2,239,722
2003	157,664	147,794	256,155	18,970	40,726	49,826	3,210	658	2,051	1,737	2,691	2,454	683,936
2004	16,840	151,014	103,266	22,833	85,254	143,784	37,407	1,803	821	6,962	97,724	85,433	753,141
2005	257,798	119,396	80,429	61,637	6,937	1,950	3,817	3,555	3,823	1,824	1,041	1,228	543,435
2006	4,079	9,023	357,343	57,332	6,121	3,482	4,230	2,190	337	2,775	6,175	38,910	491,997
2007	489,831	51,662	27,660	86,009	97,804	297,923	747,043	100,214	11,621	31,215	3,519	55,929	2,000,450
2008	12,328	207,497	946,339	672,307	160,789	34,054	17,505	12,255	17,869	23,360	14,373	17,354	2,156,030
2009	21,215	19,198	193,331	155,463	1,275,378	11,036	45,739	163,999	155,459	1,392,539	413,219	384,502	4,431,078
2010	256,345	826,702	262,901	132,656	37,476	66,699	12,345	1,493	7,749	8,401	12,371	4,070	1,629,408
2011	23,351	32,331	17,510	43,841	217,985	7,350	942	1,884	1,815	1,090	2,709	47,798	398,606
2012	174,243	233,419	583,995	198,055	38,067	16,216	8,639	1,242	2,337	3,869	3,683	8,594	1,272,359
2013	27,805	24,000	8,378	41,500	47,781	55,442	4,089	923	19,451	31,404	92,500	261,708	614,981
2014	91,207	86,379	96,261	198,261	189,949	57,051	27,120	20,549	14,053	19,002	6,937	18,371	825,140
Min	386	3,727	7,384	1,679	2,322	439	94	6	2	0	2	380	398,606
Max	1,046,787	1,238,199	1,310,646	1,621,927	1,317,761	712,660	747,043	385,270	383,671	1,392,539	906,168	1,101,354	5,206,970
Median	127,008	194,972	216,022	213,184	204,791	69,711	17,423	4,614	11,140	14,408	31,990	113,545	2,000,450

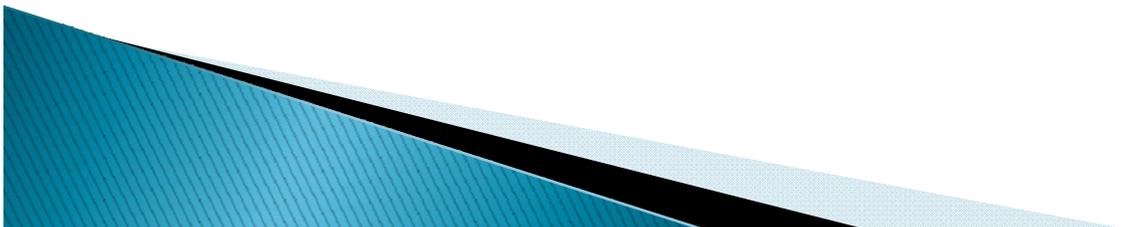
* includes flows originating above Lake Ralph Hall, Lake Chapman and the Marvin Nichols site.



Comment #8

Page 6 of 7 in Attachment 1. Table 1-6:
Monthly Marvin Nichols Passage for Lake
Wright Patman Senior Right.

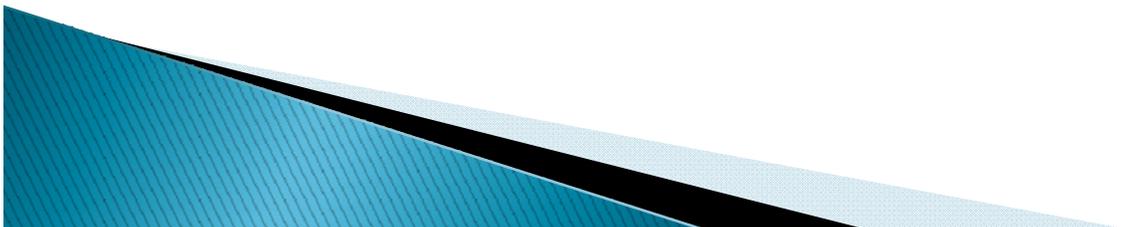
“It does not have an asterick, although the table before it and the table after it contain an asterick. It is unknown whether the omission of an asterick is consistent with the analysis used in Table 1-5 and Table 1-7.”



Response to Comment #8

Table 1-5 and 1-7 refer to Monthly Total Flows (as labeled.) The asterisk was added to ensure clarity that the total flows included those originating above the upstream reservoirs. Table 1-6, as labeled, refers specifically to Monthly Marvin Nichols passage flows, which are the flows passed downstream for Texarkana's senior water right.

Therefore, a label was not needed for clarification on Table 1-6; as a result no asterisk was intended or needed.



Comment #9

Seven pages in Attachment 1.

“On seven pages of Attachment 1 at the bottom, the date June 3, 2015 appears and that date is not the same date as the date of the Memorandum and is not the same date of each of the pages displayed for Attachment 2. Also, the numbering of these pages (Attachment 2) is not consistent with the numbering of pages in Attachment 1.”

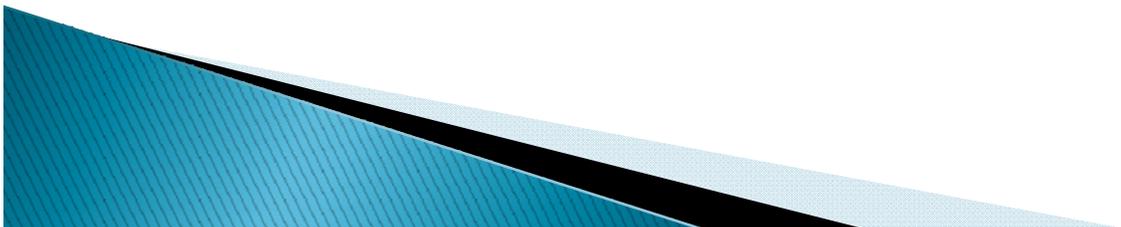
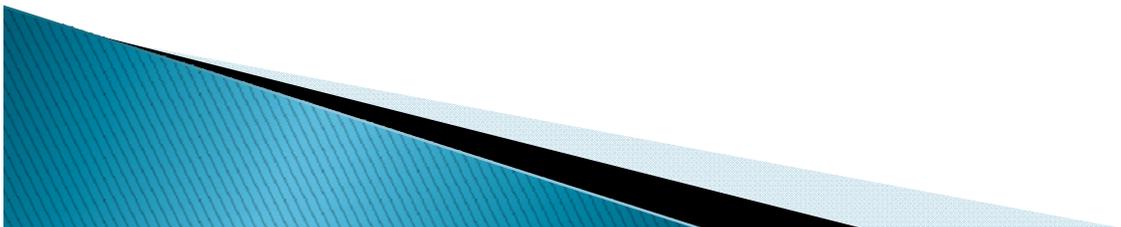


Table 1-7: Monthly Total Flows at Lake Wright Patman*
Values in acre-feet per month

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938	1,046,787	719,799	188,680	889,904	31,243	163,156	8,217	5,230	1,137	105	6,345	580	3,061,183
1939	32,139	290,791	338,401	556,680	30,023	20,476	8,867	124	2	0	2	969	1,278,474
1940	443	12,123	10,701	343,798	283,660	362,409	296,614	2,762	4,851	516	155,096	569,459	2,042,432
1941	290,895	194,091	428,150	234,589	1,018,549	586,518	204,723	33,096	7,590	29,639	34,150	170,570	3,270,569
1942	43,783	72,636	201,115	1,065,626	689,650	255,875	27,335	5,267	25,651	1,882	22,230	64,662	2,475,706
1943	152,185	21,946	334,195	158,495	36,841	299,255	9,783	815	1,351	9,771	7,172	29,664	1,061,467
1944	97,131	222,031	627,575	253,052	934,763	289,027	4,236	5,303	25,235	590	51,290	258,796	2,748,993
1945	382,208	459,776	1,310,646	1,621,927	129,008	642,421	161,446	9,343	15,264	432,707	36,385	6,059	5,206,970
1946	476,897	862,743	224,608	253,137	823,795	651,343	14,562	17,564	2,534	906,168	346,128	4,597,898	4,597,898
1947	127,008	22,815	206,386	273,560	466,132	29,208	3,428	6,976	7,182	1,139	84,057	522,403	1,753,112
1948	324,005	366,809	437,843	104,274	893,063	61,708	17,923	4,614	599	684	1,871	4,817	2,027,209
1949	326,722	612,711	479,512	218,789	230,984	69,711	20,542	13,340	6,247	430,308	173,367	58,452	2,618,485
1950	606,638	1,238,199	183,444	41,081	822,209	102,091	42,323	75,906	583,671	43,256	2,906	1,918	3,743,642
1951	44,404	515,229	95,361	27,156	65,056	391,997	63,790	4,280	8,558	13,676	23,348	51,633	1,304,258
1952	161,769	69,515	127,896	980,930	300,181	97,848	11,820	3,786	48	38	56,823	336,389	2,146,843
1953	158,418	194,972	202,030	275,950	1,038,830	8,370	47,874	5,874	30,338	1,120	21,619	117,064	2,050,450
1954	299,017	149,191	28,182	74,342	598,840	49,002	537	48	11	88,759	130,147	12,979	1,443,167
1955	19,737	98,649	182,890	287,146	39,251	9,365	45,174	23,131	23,493	82,174	867	1,483	813,540
1956	2,197	344,912	21,334	6,543	153,076	5,759	3,061	883	737	871	24,415	3,621	567,409
1957	22,923	116,983	197,382	939,982	1,250,292	677,926	48,340	15,819	62,019	136,680	831,134	113,545	4,413,045
1958	429,183	74,599	281,569	373,302	1,317,761	106,155	179,057	9,091	31,944	14,408	73,694	40,515	2,931,278
1959	13,477	736,781	570,067	147,944	64,360	106,107	119,948	64,983	11,763	71,601	63,077	476,994	1,475,012
1960	527,879	147,695	205,771	16,078	35,050	61,129	158,851	19,282	80,632	157,040	40,437	643,773	2,093,397
1961	299,846	175,878	220,781	475,306	36,298	40,702	78,681	11,834	13,527	6,502	61,654	351,101	1,772,074
1962	202,862	280,469	314,043	144,559	205,151	86,997	83,113	7,112	181,728	86,076	154,445	193,884	1,940,439
1963	116,883	13,795	124,090	40,730	114,574	14,665	22,571	2,807	151	16	53	1,513	451,848
1964	386	7,171	61,609	202,477	204,791	72,541	293	3,010	73,644	32,549	109,039	53,075	820,587
1965	89,622	552,888	117,709	25,454	388,890	82,668	1,117	116	12,390	1,230	951	920	1,272,955
1966	4,948	129,046	12,007	516,264	1,210,244	17,099	3,154	23,278	28,831	57,062	2,564	39,492	2,043,989
1967	63,815	29,945	39,991	319,176	525,938	326,170	52,611	565	48,003	79,358	200,067	222,965	1,908,564
1968	189,289	222,734	566,539	269,732	595,084	240,527	160,622	29,471	84,621	19,197	129,200	316,348	2,821,324
1969	147,548	696,442	488,065	258,187	728,719	54,055	1,460	123	78	11,386	30,305	79,824	2,486,189
1970	309,179	222,134	593,338	228,337	314,525	12,550	8,020	2,303	24,303	167,275	43,775	11,211	1,798,439
1971	10,619	56,643	34,120	1,679	13,514	3,211	22,055	90,027	4,761	391,571	97,653	1,301,854	1,827,208
1972	103,616	21,878	15,551	5,397	2,805	5,095	1,919	364	2,687	16,138	280,674	212,828	688,948
1973	143,662	340,620	704,207	654,871	277,649	297,717	5,729	950	182,144	284,277	702,789	427,237	4,031,852
1974	422,900	126,463	34,823	137,894	138,816	448,255	5,822	2,202	195,495	126,206	643,872	511,686	2,794,433
1975	85,893	688,341	299,618	213,184	382,794	254,436	17,781	9,218	673	185	1,190	1,354	1,934,667
1976	2,379	6,253	115,615	215,420	263,589	181,197	350,681	2,453	13,156	43,276	18,268	143,887	1,856,308
1977	96,063	330,670	344,342	638,045	61,151	28,361	2,852	5,543	1,120	75	51,990	21,548	1,571,760
1978	46,757	89,080	192,900	52,888	23,055	16,152	94	8	3	0	30,915	16,953	468,803
1979	282,103	202,802	386,127	455,105	510,573	259,808	35,473	48,599	49,093	2,960	25,875	134,031	2,392,549
1980	325,744	305,104	36,521	218,584	180,360	37,930	2,490	2,334	22,956	48,804	16,538	83,944	1,281,309
1981	7,234	36,655	54,491	14,459	301,812	626,472	72,631	2,393	2,855	516,341	251,741	8,275	1,895,459
1982	22,961	99,673	126,437	77,184	759,022	421,005	155,671	22,775	1,739	2,909	115,404	887,199	2,691,979
1983	113,815	262,520	421,911	87,785	65,292	49,543	91,131	646	180	842	3,151	24,383	1,121,179
1984	18,261	111,203	363,582	277,006	87,907	2,481	4,004	923	473	221,128	303,864	495,514	1,886,346
1985	115,163	257,018	582,403	344,134	301,294	106,491	9,524	726	71	12,887	137,921	477,982	2,344,612
1986	13,943	386,217	36,865	440,575	201,892	266,027	95,747	368	12,467	21,720	144,913	213,783	1,834,617
1987	164,502	151,103	736,447	29,909	17,922	41,657	16,352	2,029	43,483	37,629	492,998	874,063	2,808,094
1988	413,260	156,983	161,047	158,421	2,322	439	82,128	3,872	3,101	8,652	294,968	316,274	1,601,467
1989	174,506	786,258	310,460	246,556	699,739	712,660	260,780	36,761	11,615	1,252	707	1,373	3,222,667
1990	241,043	392,372	1,106,258	651,017	992,211	253,092	17,423	14,868	18,959	40,035	126,485	257,142	4,110,905
1991	545,576	275,056	216,022	480,204	457,944	68,739	11,312	6,296	11,146	120,345	502,785	953,151	3,648,544
1992	301,454	360,107	688,351	56,894	220,596	215,024	446,308	385,270	47,393	7,569	100,091	643,389	3,472,446
1993	458,832	276,458	710,790	312,496	132,959	21,324	4,852	5,463	5,048	467,266	161,666	635,921	3,193,669
1994	137,593	215,229	515,944	45,686	233,257	120,513	237,494	19,612	14,486	41,524	435,043	488,924	2,505,393
1995	481,154	194,353	264,307	390,919	697,825	114,449	7,188	3,865	11,457	7,692	857	7,797	2,170,963
1996	9,952	3,727	7,584	19,029	88,380	45,601	14,015	114,878	90,470	104,681	580,882	67,117	1,686,315
1997	112,421	952,588	687,186	541,287	272,311	177,947	7,291	9,610	379	10,067	24,127	326,446	3,127,429
1998	912,774	371,107	386,644	51,043	33,405	4,818	390	924	45,311	222,384	161,744	590,537	2,781,794
1999	770,277	230,185	301,351	168,437	99,634	42,105	6,625	219	437	2,358	1,994	27,781	1,131,383
2000	9,084	28,758	186,536	160,925	337,369	550,392	182,850	536	613	506	593,665	512,147	2,563,901
2001	748,339	977,725	1,181,539	322,776	74,401	79,447	30,042	10,298	90,932	176,584	18,971	1,073,934	4,785,028
2002	122,909	352,581	488,702	633,998	122,499	4,967	9,657	5,262	5,424	293,547	72,447	127,729	2,239,722
2003	157,664	147,794	256,155	18,970	40,726	49,826	3,210	658	2,052	1,737	2,691	2,454	683,936
2004	16,840	151,014	103,266	22,833	85,254	143,784	37,407	1,803	821	6,962	97,724	85,433	753,141
2005	257,798	119,396	80,429	61,637	6,937	1,950	3,817	3,555	3,823	1,804	1,041	1,228	543,435
2006	4,079	9,023	357,343	57,352	6,121	3,482	4,230	2,190	337	2,775	6,175	38,910	491,997
2007	489,851	51,662	27,680	86,009	97,804	297,923	747,043	100,214	11,621	31,215	3,519	55,929	2,000,450
2008	12,328	207,497	946,339	673,307	180,789	54,054	17,505	12,255	17,869	23,380	14,373	17,854	2,156,030
2009	21,215	19,198	193,331	155,463	1,275,378	11,036	45,739	163,999	155,459	1,592,539	413,219	384,502	4,431,079
2010	256,545	826,702	262,901	132,656	37,476	66,699	12,345	1,493	7,749	8,401	12,371	4,070	1,629,408
2011	23,351	32,331	17,510	43,841	217,985	7,350	942	1,884	1,815	1,090	2,709	47,798	398,606
2012	174,243	213,419	583,995	198,065	38,067	16,216	8,619	1,242	2,337	3,869	3,683	8,594	1,272,359
2013	27,805	24,000	8,379	41,505	47,781	55,442	4,089	923	19,451	31,404	92,500	261,708	8

Response to Comment #9

The date shown at the bottom of the referenced printout reflects the date that particular Excel file/table was finalized. To avoid confusion, the date reference on the file printout has been deleted and the page numbers have been deleted and replaced with consecutive numbering within the memorandum.

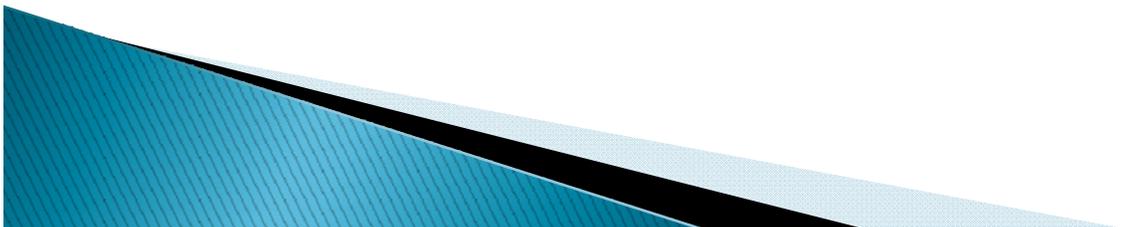


Comment #14

(addressing out of numerical sequence)

Page 2 of 6 in the Memorandum.

“There is a grammatical error. In Results section, the sentence reads....Lake Wright Patman reallocation that that meet the 604,000...”

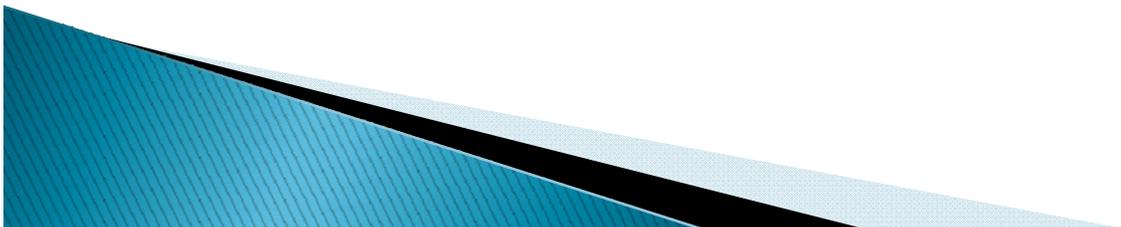


Original Memo

Results

Table 1 and Figure 1 show the combinations of Marvin Nichols Reservoir and Lake Wright Patman reallocation **that that** meet the 604,000 acre-feet per year supply goal. These yields have the following assumptions:

- The yields represents “new” supplies and do not include the 180,000 acre-feet per year water right held by Texarkana in Lake Wright Patman.
- Priority releases from upstream reservoirs and Marvin Nichols for the existing Lake Wright Patman water right. Marvin Nichols does not, however, make priority releases for the new storage and diversions associated with the Patman reallocation.
- Environmental flow releases based on the Lyons method.
- A 96 cfs release from Lake Wright Patman from May to October, with a 10 cfs release at other times of the year.



Duplicate word deleted

Results

Table 1 and Figure 1 show the combinations of Marvin Nichols Reservoir and Lake Wright Patman reallocation **that** meet the 604,000 acre-feet per year supply goal. These yields have the following assumptions:

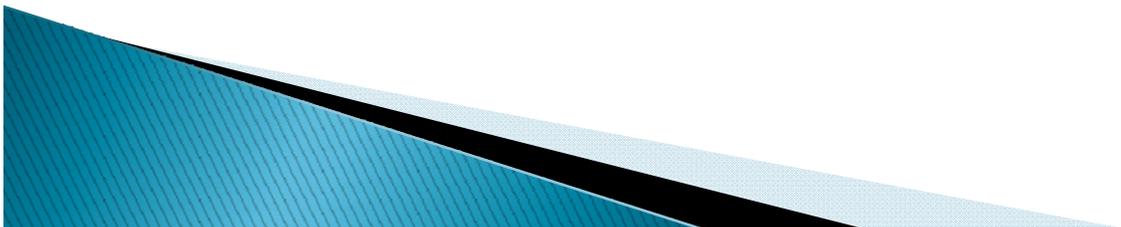
- The yields represents “new” supplies and do not include the 180,000 acre-feet per year water right held by Texarkana in Lake Wright Patman.
- Priority releases from upstream reservoirs and Marvin Nichols for the existing Lake Wright Patman water right. Marvin Nichols does not, however, make priority releases for the new storage and diversions associated with the Patman reallocation.
- Environmental flow releases based on the Lyons method.
- A 96 cfs release from Lake Wright Patman from May to October, with a 10 cfs release at other times of the year.



Comment #10

Page 1 of the Memorandum.

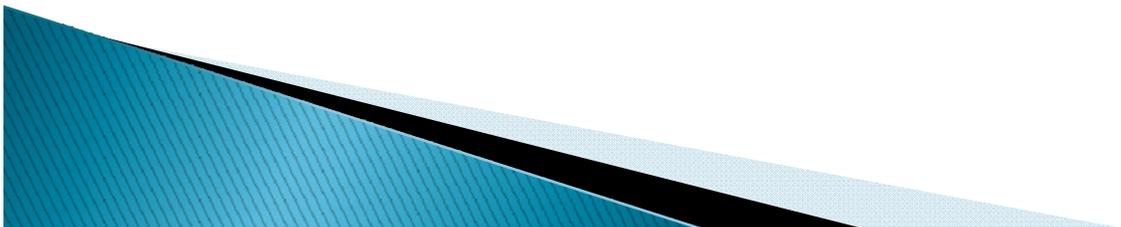
“The supply goals were set by the Joint Committee for Program Development (JCPD) according to the third sentence of the first paragraph of the first page of the Memorandum. The Memorandum makes no mention of the position of the SRBA Board of Directors in relation to the goal.”



Response to Comment #10

Two separate briefings on the data within the Technical Memorandum:

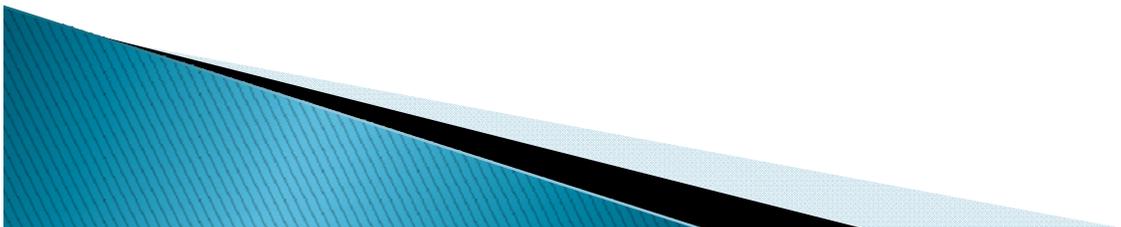
- ▶ May 22, 2015 meeting of the Joint Committee for Program Development (JCPD), of which SRBA is a member.
- ▶ June 16, 2015 SRBA Board Meeting (presentation at: <http://srbatx.org/wp-content/uploads/2015/10/Revised-Yield-Study-SRBA-Presentation-6-16-2015.pdf>)



Comment #11

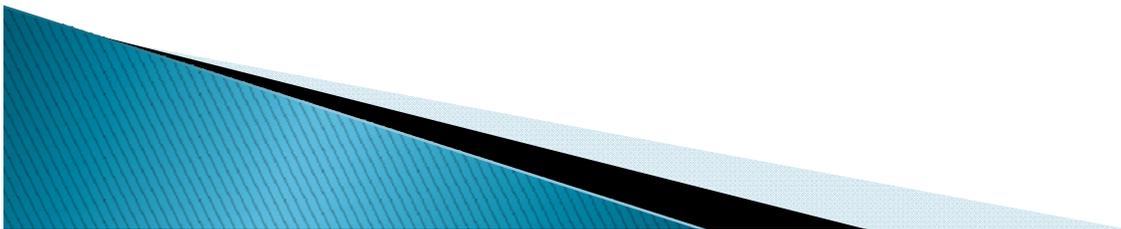
Page 1 of the Memorandum.

“Local share is not correctly stated. The supply goals do not assure that 20% will be made available for local use. The law provides that the local share for Marvin Nichols Reservoir would be at least 20%. The contract signed by SRBA contemplates that 20% will be allocated to local use and 80% will be allocated to remote use. The memorandum states the total goal is 604,000 acre feet per year. It also describes that Region C will be allocated 584,000 acre feet of the total 604,000. That percentage is greater than 96.6%, not 80%.”



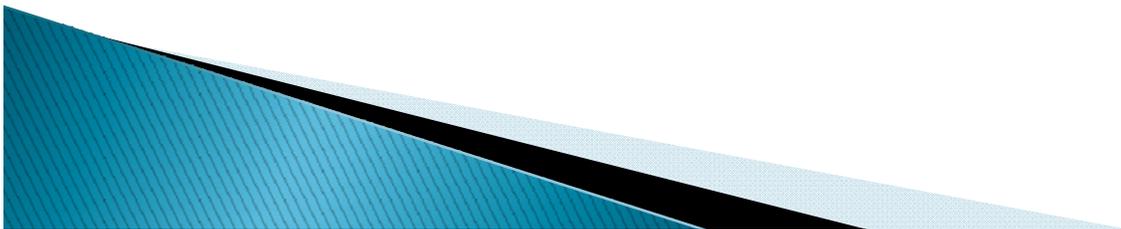
Response to comment #11

To answer Comment #11 we must distinguish between the components of **project need** required to get the USACE started on reallocation analysis and **contractual local share**. The technical memorandum addresses project need.



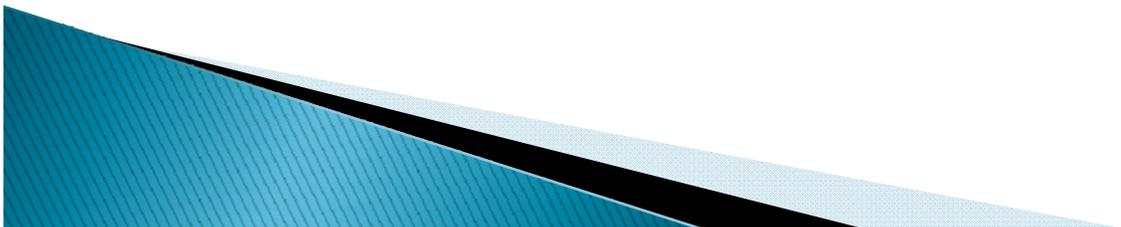
Need: In-Basin 2060 Summary

- ▶ Using the most aggressive population growth scenario of the 30 considered, municipal demand estimated at **64,000 af/yr**
- ▶ Industrial demand estimated at **210,000 af/yr**
- ▶ Total demand estimated at **274,000 af/yr**



Availability – Summary

- ▶ Jim Chapman Lake – 18,000 af/yr
- ▶ Wright Patman Lake – 201,000 af/yr
- ▶ Cross-basin providers – 35,600 af/yr
- ▶ Total availability – **254,600 af/yr**



Need: In-Basin 2060 Summary

- ▶ Using the most aggressive population growth scenario, municipal demand estimated at **64,000 af/yr**
- ▶ Industrial demand estimated at **210,000 af/yr**
- ▶ Total demand estimated at **274,000 af/yr**

- ▶ Availability from previous slide is **254,000 af/yr**

- ▶ Estimated Remaining in-basin need is **20,000 af/yr**

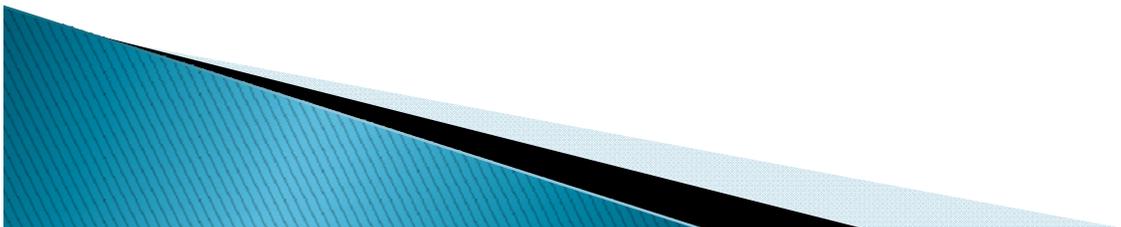


Need: Sulphur Basin Supplies Needed by other JCPD Members (per 2012 State Water Plan)

	Amount Allocated through 2060 from New Sulphur Basin Supplies
DWU	112, 100 (Wright Patman)
TRWD	280,000 (Marvin Nichols)
NTMWD	174,800 (Marvin Nichols)
UTRWD	17,500 (Marvin Nichols)
Irving	0
TOTAL	584,400

Need:

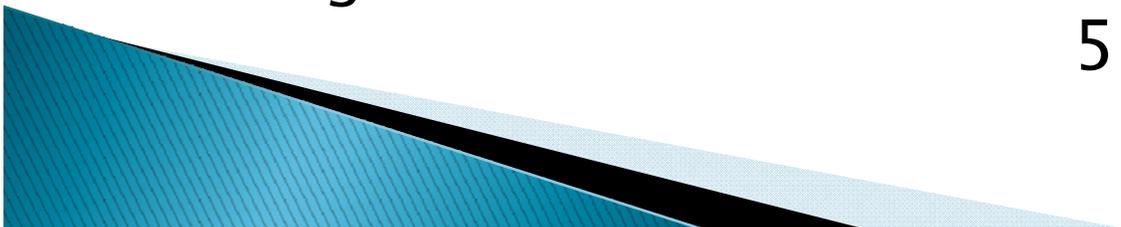
- ▶ Estimated Additional In-Basin Need: 20,000 af/yr
- ▶ Region C Out-of-Basin Need: 584,000 af/yr
- ▶ Total Need: **604,000 af/yr**



EXAMPLE

Need Versus Contractual Local Share

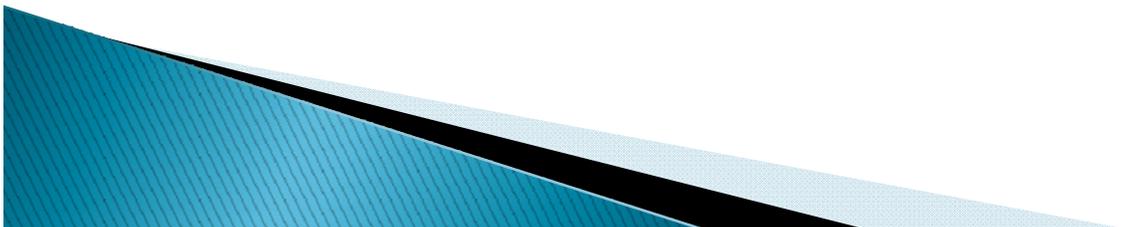
- ▶ Project Need: 604,000 af/yr
- ▶ Environmental Flows: 20% maximum
120,800 af/yr
- ▶ Total Purpose & Need: 724,800 af/yr
- ▶ Contractual (80/20)
 - Region D 20%
144,960 af/yr
 - Region C 80%
579,840 af/yr



Comment #12

Page 1 of the Memorandum.

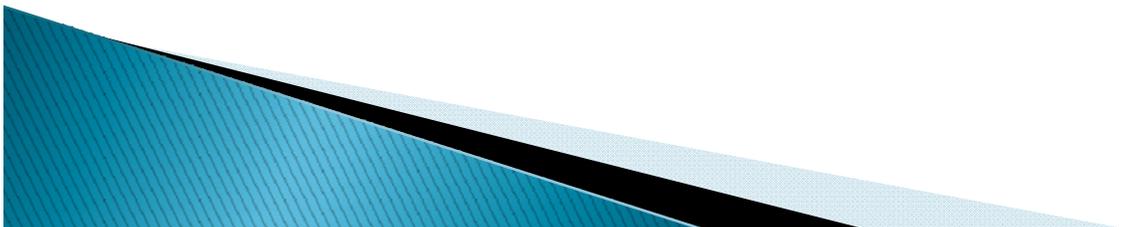
“Source of total goal is not sufficiently explained. The contract signed by SRBA provides an intention to find 727,500 acre feet as the volume in total terms. The memorandum is not consistent with the contract and the Memorandum provides no explanation for the departure from the intention described in the contract. The total amount is not consistent with the amount described in a contract signed by SRBA.”



Response to Comment #12

The Answer – Gross or Net

- ▶ The project need discussed in the previous slides reflects a requirement “net” of environmental flows (Eflows).
- ▶ The exact requirement of Eflow is not known at this time, but has been estimated to be between 5 and 20% over and above project yield.

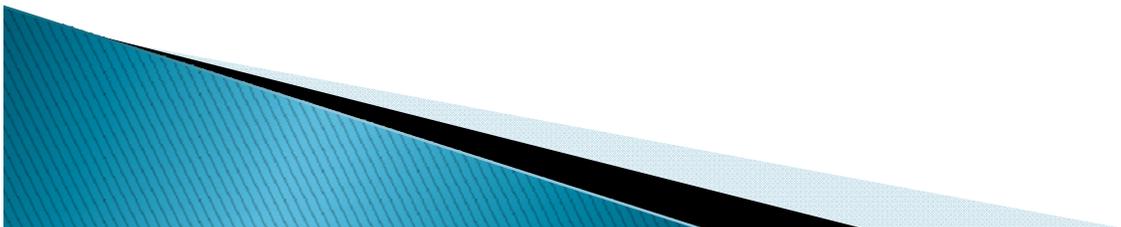


Response to Comment #12

EXAMPLE

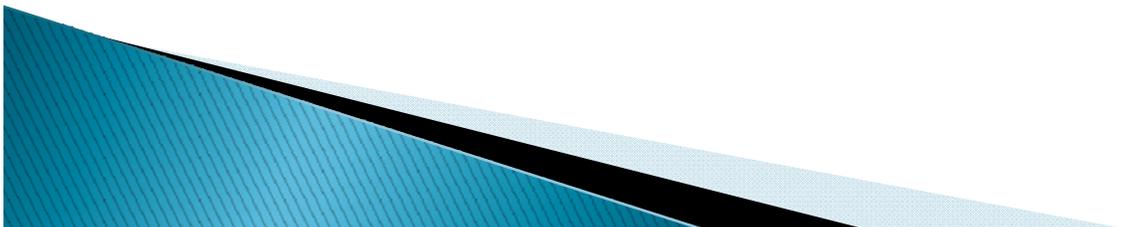
Gross or Net

- ▶ If the Eflow requirement is 20%, the “gross” project size would be 724,800 af/yr in order to generate a “net” supply of 604,000 af/yr.
- ▶ This is not appreciably different than the 727,500 af/yr as identified in SRBA funding agreements with various JCPD members.



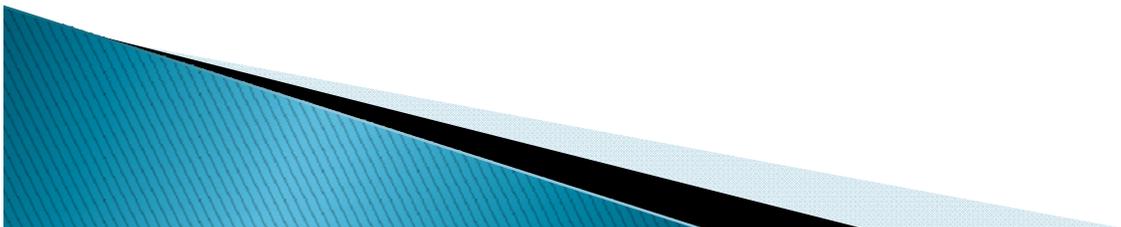
Comment #13

Public Release date. *“The Memorandum provides no explanation why it is dated June 4, 2015 but was not released to the public until October of 2015.”*



Response to Comment #13

- ▶ SBG completed a draft on June 4, 2015.
- ▶ Briefed the Board at the June 2015 Board Meeting,
- ▶ Board approved to release to the public and place technical memorandum on website at the October 2015 meeting.



Questions?

