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

- 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.

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..



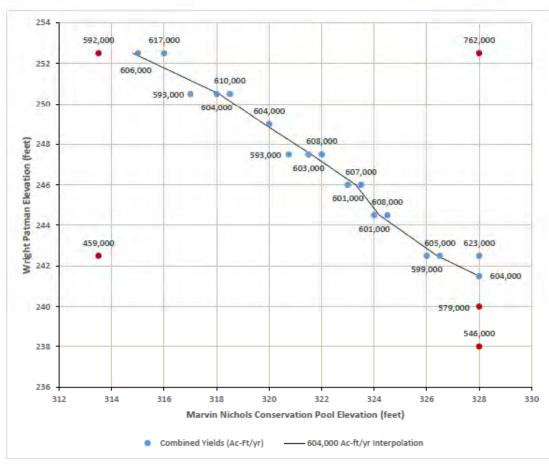


Figure 2-1: Combined Yields of Wright Patman Reallocation and the Proposed Marvin Nichols Reservoir



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	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 they are treated as four on-off switches" Error! Reference source not found.	g the yield,
	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 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

Page 7 of 7 in Attachment 1.

"Table 1–7 Monthly Total Flows at Lake Wright Patman contains at 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	et lake	Wright	Patmar
	Without	to some facility	white makes	ortio.	

Year	Jan	Feb	Mer	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1938	1,045,787	719,799	188,680	839,904	31,243	163,156	8,217	5,230	1,137	105	6,345	530	3,061,183
1939	32,139	290,791	338,401	556,680	30,023	20,476	8,867	124	2	- 0	2	969	1,278,47
1940	- 443	12,123	10,701	343,798	283,660	362,409	296,614	2,762	4,851	516	155,096	569,459	2,042,43
1941	290,895	194,091	428,150	234,589	1,018,549	586,518	204,723	31,096	7,590	29,639	74,153	170,570	\$,270,56
1942	43,783	72,830	201,115	1,065,826	689,650	255,875	27,335	5,267	25,651	1,382	22,230	84,462	2,475,70
1945	152,185 97,131	21,940	354,295 627,575	158,495 258,032	36,841 914,763	299,255 289,027	9,783	5,303	1,351 25,235	9,771	7,172 S1.290	29,664 258,786	1,061,46
1945	382,208	459,776	1,310,646	1,621,927	129,008	642,421	161,446	9,143	15,264	432,707	36,365	5,059	5,206,97
1946	476,937	862,741	274.608	253.137	821,795	651,143	14.562	17,164	14.985	2.534	906.168	346.126	4,591.89
1947	127,008	22,815	206,286	273,560	466,132	29,300	3,428	6,976	7,130	1,119	84,957	522,401	1,751,11
1948	324,005	355,309	457,343	104,274	693,063	81,708	17,923	4,614	598	684	1,871	4,817	2,017,20
1945	526,722	612,711	479,512	218,789	230,984	69,711	20,342	11,340	6,247	410,308	173,367	58,452	2,618,48
1950	606,638	1,238,199	183,444	41,081	322,209	102,091	42,323	75,906	583,671	43,256	2,906	1,918	3,743,64
1951	44,404	515,229	95,181	27,156	65,056	391,397	63,760	4,280	8,558	13,676	23,348	51,633	1,304,25
1952	161,769	69,315	127,896	980,930	300,181	97,848	11,820	3,786	48	38	56,823	336,389	2,146,84
1953	138,418	194,972	202,080	275,950	1,026,830	8,370	47,874	5,874	10,338	1,120	21,619	117,064	2,050,45
1954	299,017	149,291	28,192	74,342	598,840	49,002	537	48	13	98,759	130,147	12,979	1,441,16
1955	19,737	38,849	182,890	287,146	30,251	9,365	45,174	23,131	25,495	82,174	867	1,483	813,56
1956	2,197	344,912	21,334	6,543	153,076	5,759	3,061	883	737	871	24,415	3,621	567,40
1957	22,923 429,183	74,599	197,382 281,569	939,982 373,302	1,250,292	677,926 106,155	48,340 179,057	15,839 9,091	62,019	136,680 14,408	831,134 73,694	113,545 40,515	4,413,04 2,931,27
1959	12 577	226,791	170,092	147.233	34,760	106 102	117.338	84.383	11,753	71,601	63,077	375.305	1,421,01
1960	527,879	147,695	205,771	18,078	35,050	81,129	158.651	19,262	30,632	157,040	40,437	543,773	2,093,39
1961	299,846	175,878	220,781	475,300	36,268	40,702	78,681	11,854	13,527	6,502	61,654	351,101	1,772,07
1962	202,852	280,469	314,043	144,559	205,151	88,997	83,113	7,112	181,728	86,076	154,445	193,884	1,940,49
1963	116,883	13,795	124,090	40,730	114,574	14,665	22,571	2,807	151	16	53	1,513	451,84
1964	386	7,171	61,809	202,477	204,791	72,541	293	3,010	73,646	32,549	109,039	53,075	820,58
1965	88,622	552,838	117,709	25,454	388,890	82,668	1,117	116	12,390	1,230	951	920	1,272,95
1966	4,948	129,046	12,007	516,264	1,210,244	17,099	3,154	23,278	28,831	57,062	2,584	39,492	2,043,98
1967	63,815	29,945	39,991	319,176	525,938	376,170	52,631	505	48,003	79,358	200,067	222,965	1,908,56
1968	189,289	222,714	566,539	269,712	595,084	240,527	160,622	25,471	84,621	19,197	129,200	314,348	2,821,32
1969	147,548	536,442 222,124	488,065 593,358	258,192 228,337	738,719	54,055 12,550	1,460 8,020	123 2,101	70 24,304	11,386	10,305	79,824	2,486,181 1,736,431
1971	10.619	56,641	34,120	1,679	13.514	3,211	22.055	90.027	4,763	391.572	97.653	1,101,354	1,756,49
1971	103,626	21.878	15.551	5 397	2,805	5,095	1,929	364	2,687	391,572	260,674	212.826	568,94
1973	143.662	340,620	704,207	654.871	277,649	297,717	5,729	950	197,144	284.277	702,789	427.237	4.031.85
1974	422,900	126,463	34,823	137,894	138.816	448.255	5.822	2.202	195,495	126,205	643,872	511,636	2,794.43
1975	85.893	688,341	299,618	213,184	382,794	234,436	17,781	9,218	673	185	1.190	1,354	1,934,66
1976	2,379	6,253	115,615	215,420	263,589	181,337	950,681	2,453	15,150	43,276	18,268	143,887	1,356,300
1977	96,063	330,670	344,342	638,045	61,151	23,361	2,852	5,543	1,120	75	51,990	11,548	1,571,760
1978	46,757	89,080	192,900	52,388	23,055	16,152	94	6	3	0	30,915	16,953	468,80
1979	282,303	202,802	386,127	455,105	510,573	259,808	35,473	48,599	49,093	2,960	25,875	154,031	2,392,54
1980	325,744	305,104	36,521	218,584	180,360	37,930	2,490	2,384	22,956	48,834	16,538	\$3,944	1,281,30
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	1,895,450
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	2,691,975
1984	18,261	111,203	363,582	277,006	87,907	2,481	4,004	973	473	221,128	303.864	495,514	1,886,346
1985	115,163	257,016	58Z,403	344,134	301,294	105,491	9,524	726	7/2	12.887	137,921	477.982	2,344.61
1985	13,943	386,317	16,865	440.575	201,892	256,027	95,747	368	12,467	21,720	144,913	213,783	1,834,61
1987	164,502	151,109	736,447	29,900	17,922	41,657	16,352	2.029	45,483	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	315,274	1,601,46
1989	174,506	765,258	310,460	246,556	699,739	712,680	260,780	36,761	11,615	1,252	707	1,373	3,222,66
1990	241,043	202,572	1,106,258	651,017	992,211	253,092	17,423	14,368	18,959	40,035	126,485	257,147	4,110,905
1991	545,576	275,050	216,022	480,204	457,944	63,739	11,312	6,296	11,140	120,345	502,765	953,151	3,643,54
1992	301,454	360,107	688,351	56,894	220,596	215,024	446,308	385,270	47,393	7,569	100,091	643,589	3,472,446
1993	458,832	276,458	710,790	317,490	132,959	21,924	4,852	5,463	5,048	467,266	161,666	635,921	3,193,66
1994	137,593	215,229	515,944	45,680	233,357	120,513	237,494	19,612	14,480	41,524	435,043	488,924	2,505,39
1995	481,154	194,353	264,307	390,919	697,825	114,449	7,188	3,365	11,457	1,692	857	2,797	2,170,86
1996 1997	9,952	952,366	7,584 687,186	19,028 541,287	272,311	177,347	7,291	114,878 9,610	60,470	104,681	580,882 24,127	627,117 326,446	1,686,315 3,121,425
1998	312,774	371,307	386,644	51.045	33.405	4,818	390	924	45,312	222.884	161,744	590.537	2,781,78
1999	270.277	210,185	301,351	168,437	99,634	42,105	8.825	219	417	2,358	1,994	27,781	1,131,38
2000	9,084	28,758	186,536	160,925	337,369	550,892	182,850	536	613	526	593,665	512,147	2,563,90
2001	748,339	977,725	1,181,579	322,776	74,401	79,447	30,042	10,298	90,932	176,584	18,971	1,073,934	4,785,02
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	2,239,72
2003	157,664	147,794	256,155	18,970	40,726	49,826	3,210	658	2,051	1,737	2,691	2,454	683,33
2034	16,840	151,014	103,266	22,833	85,254	143,784	37,407	1,803	821	6,962	97,724	85,433	753,14
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	543,43
2006	4,079	9,023	357,343	57,332	6,121	3,482	4,230	2,190	337	2,775	6,175	38,930	491,99
2007	489,851	51,662	27,660	36,009	57,804	297,923	747,043	100,214	11,621	31,215	3,519	55,929	2,000,450
2009	12,328 21,215	19,198	948,339 193,331	155,463	180,789	54,054 11,036	45,739	12,258	17,869	1,502,539	413,219	17,354 384,502	4,431,076
2010	256,545	826,702	262,901	132,656	37,476	55,699	12,345	1,493	7,749	8,401	12,371	4,070	1,629,40
2011	23,351	32,531	17,510	48.841	217,985	7,350	942	1,884	1.815	1.090	2,709	47,798	398,600
2012	174,243	233,419	583,995	198,055	38 067	15,215	8,639	1,242	2,337	3,369	3,683	8,594	1,272,35
2013	27,805	24,000	8,378	41,500	47,781	55,442	4,089	923	19,451	31,404	92,500	261,708	614,98
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	825,14
										1			
Min	386	3,727	7,584	1,679	2,322	430	- 34	- 6		- 0	2	580	398,600
Max	1,046,737	1,238,199	1,310,646	1,621,927	1,317,761	712,660	747,043	385,270	585,671	1,592,539	906,168	1,101,354	5,206,970
Median	127,008	194,972	216,022	215,184	204,791	69,711	17,423	4.614	11,140	14,408	51,990	113,545	2.000.450

Asterisk Without Explanatory Comment

Table 1-5:	Monthly	Flows (et l	Maryin	Nichols	Site
	Values in	arren fen		rant House	erie.	

				-			- 12			-	-		-
	Mart 642,783	552,790	Mar 76,911	Apr 481,224	May 10,579	Jun 88,312	Jul 4,346	2,706	Sep 626	Oct 37	Nov 3,462	Dec 329	1,564,105
935	19,739	179,460	175,386	291,980	10,977	11,256	4,516	47	1	0	2,402	559	693,922
940	210	7/062	6,208	189,242	166,121	183,980	158,861	748	2,590	277	107,916	901,222	1,124,437
941 1	147,385	109,434	281,870	155,865	525,217	319,122	113,528	12,591	3,523	16,311	42,443	96,260	1,765,549
942	17,858	40,429	108,281	622,532	343,343	133,140	8,814	4,073	16,633	1,105	14,492	47,843	1,358,543
943	67,674	11,571	185,359	74,067	28,580	158,020	4,572	364	651	4,754	3,944	16,644	556,200
944	51,721	130,053	333,965 694,496	117,829 737,405	498,338	135,742	2,466	4,123	17,159	281	31,224	145,037	7,672,183
	187,904	297,109 457,432	114,712	130,352	67,510 470,249	335,441 294,950	7,395	15,295	10,370	1,349	18,252 491,286	2,811 175,597	2,413,868
947	66,666	8,523	111,370	139,152	236,500	13,575	804	6,548	5,255	588	33,517	275,297	915,395
	168,624	195,828	227,083	52,181	372,238	21,296	9,872	2,179	279	391	938	3,222	1,054,081
	150,586	294,321	243,245	101,349	113,925	39,234	11,379	5,211	3,594	241,902	42,192	32,989	1,379,857
950	136,019	656,641	77,782	21,505	445,607	53,232	33,744	30,784	335,980	12,996	1,321	866	2,006,477
951	21,580	288,980	32,589	16,123	35,162	783,828	30,204	2,070	4,762	9,383	11,100	21,667	757,448
952	76,441	33,393	68,277	543,465	136,438	38,732	4,386	1,717	2	0	37,736	145,875	1,086,462
953	67,676	39,796	115,035	215,510	475,294	3,085	23,069	2,780	2,326	697	13,698	61,615	1,080,576
	158,226	67,665	6,623	45,521	341,673	26,219	234	22	8	80,308	56,929	5,605	790,033
955	9,170	58,361	118,571 5,545	142,346	25,860	-4,231	28,368 1,444	13,943	14,879	43,651	440	773	460,593
957	19,870	203,042	3,343	4,365	88,337 819,981	3,812 426,976	16,379	10.097	57,653	536 79,477	11,217	3,556	324,826
_	192,767	20,526	168,566	245,890	656,342	74,721	81,442	6,529	20,609	6,707	40,215	13,067	1,575,381
955	9,276	101,972	60,752	-62,294	15,242	105,202	117,338	51,477	11,202	55,965	48,043	268,034	887,697
_	151,145	72,708	87,353	7,402	34,640	80,842	97,974	17,318	80,632	115,225	14,356	446,754	1,281,144
961 1	171,663	89,043	175,641	185,274	24,265	76,318	28,907	3,316	10,676	3,435	47,223	169,762	936,023
	113,459	109,361	103,574	113,386	74,263	86,997	62,117	3,952	158,307	73,098	154,445	65,180	1,118,239
963	62,684	5,078	62,119	30,071	39,592	4,567	20,658	462	52	- 11	40	1,368	226,682
964	297	3,675	45,487	148,669	70,966	56,534	134	2,708	55,968	9,746	97,598	21,045	510,827
965	77,963	386,331	36,637	11,094	307,196	22,120	210	104	10,568	195	829	214	854,141
968	18,648	85,852 9,323	4,572 20,326	518,264 319,176	518,426 276,066	247,723	47,873	14,034	18,118 44,651	33,612 79,358	2,006	20,044 176,874	1,357,930
	176,586	114.212	416,476	246,418	392,272	240,527	79,739	19,730	78,178	16.097	129,200	238.301	2,095,736
	147,548	542,789	379,016	122,258	621,193	16,949	717	75	70,470	11,386	7,645	79,824	1,879,530
970	62,386	202,081	359,386	211,214	100,863	9,598	983	924	22,705	136,142	31,243	9,434	1,146,933
971	7,078	32,513	14,982	1,153	12,237	909	14,809	67,823	4,324	366,649	33,867	747,528	1,303,672
972	46,300	6,897	12,158	1,057	1,948	2,275	541	356	2,687	35,301	177,285	107,573	394,387
973 :	113,215	176,533	511,603	455,777	103,716	174,329	2,078	835	191,854	257,634	451,496	209,293	2,648,863
	120,600	42,302	13,619	101,975	59,311	318,653	1,539	1,005	173,693	60,540	454,619	244,633	1,692,539
975	44,400	380,452	165,366	101,509	226,223	173,882	12,370	2,977	261	71	1,190	1,103	1,109,913
976	2,070	3,175	43,264	146,054	136,675	117,532	244,621	1,294	11,615	43,276	11,459	129,672	895,707
977	85,422	209,595	317,137	327,946	19,541	21,395	1,247	4,368	849	42	11,794	4,708	1,005,044
978 979 - 2	22,875	61,825	235,289	224,757	21,432 404,766	13,823	22,398	20,490	17,476	1.081	30,418 9,482	16,953	1,628,171
	128,521	146,944	14,280	93,360	118,101	18,694	134	2	22,956	38,789	7,590	70,217	657.588
981	3,303	13,137	42,258	7,571	180,682	435,588	26,139	1,799	2,683	444,643	198,239	5,212	1,361,654
982	15,802	69,883	85,611	61,889	759,022	272,486	56,166	13,869	1,609	2,791	115,404	501,955	1,956,487
983	31,936	262,520	240,941	36,508	58,729	21,640	70,019	430	134	738	2,134	11,219	737,048
984	7,217	91,556	358,096	95,211	26,067	1,416	4,004	707	454	142,751	110,108	250,514	1,148,076
985	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
986	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
987	93,265	95,650	286,327	8,319	17,922	23,774	20,149	901	41,959	37,629	103,176	410,073	1,329,344
	131,076	75,864	79,259	80,882	1,382	307	43,120	2,640	3,070	8,652	179,715	101,228	708,195
	121,635	420,506	179,824	84,137	421,644	483,201	230,299	17,017	10,534	938	439	1,373	1,976,547
	102,122 156,321	122,577	537,685 76,546	323,885 279,418	544,500 195,932	113,813 50,136	8,114 5,192	2,756 6,296	16,525	31,588 120,345	64,590 256,042	106,734 594,227	1,969,905
	162,136	183.057	278,700	17,741	199,338	169,756	220,161	131,291	28,739	4.697	49.410	276,359	1,721,385
_	176,529	200,449	306,252	171,423	78,484	16,294	4,141	5,168	4,967	274,719	89,353	323,410	1,681,189
994	68,667	116,211	228,547	29,420	208,228	58,581	144,523	10,251	13,731	40,093	249,163	247,897	1,415,312
	242,814	60,710	149,943	211,434	460,904	83,496	4,610	3,256	8,816	1,253	687	2,336	1,230,239
996	8,362	3,196	7,584	14,667	51,428	36,201	14,015	59,414	37,357	72,451	470,005	215,663	991,343
997	43,545	574,707	282,007	366,385	64,369	90,190	1,215	1,322	86	9,692	12,730	229,857	1,676,105
	181,642	175,561	198,820	23,613	14,839	934	0	719	20,945	101,564	90,982	313,380	1,322,999
	152,720	75,589	114,952	79,161	41,655	23,749	3,948	1	159	2,358	787	24,341	519,420
000	6,387	21,140	108,824	70,619	171,021	257,505	57,214	478	613	319	459,358	348,434	1,502,462
	91,923	566,198 209,076	603,768	167,083 340,317	48,464	54,364 1,216	13,650	10,298	80,337	71,972	14,687	628,373	2,569,494
002	91,973	96,012	90.888	7,317	58,184 23,950	30,952	4,646 764	5,262	3,463 1,395	240,468 1,315	28,627	93,609 2,454	313,898
904	14,529	81,714	44,639	12,782	24,630	72,393	13,855	1,189	452	6,328	97,724	51,876	422,111
	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
906	3,854	7,125	247,213	18,939	3,695	2,985	4,230	1,552	95	2,758	5,619	38,910	335,975
907 2	145,625	18,515	19,573	59,763	77,151	280,122	395,025	61,792	8,581	29,520	3,519	47,579	1,246,575
300	7,020	136,782	687,309	314,717	51,866	23,394	2,009	8,520	10,330	11,223	7,681	8,909	1,267,654
909	7,980	7,887	87,576	100,140	754,633	6,381	25,547	55,226	98,272	936,079	165,393	211,477	2,486,591
	159,261	451,224	161,850	41,543	18,852	20,932	7,600	695	7,584	5,489	8,974	3,381	887,435
m1	13,593	21,314	6,146	43,226	171,793	3,201	662	1,874	1,632	980	2,201	53,119	299,741
	174,243	90,331	380,664	89,518	27,347	11,924	8,402	304	2,337	2,790	1,719	5,784	796,372 308,198
			1,000										308,198 444,596
-	24,452	27,222	47,739	39,356	433,342	30,108	=9,046	14,015	43,435	48,047	3,468	43,037	THE 390
	210	3,175	4,572	1,057	1,018	307	0	1	- 1	Ö	- 1	329	226,682
-	642,783	656,641	694,496	737,405	819,981	488,201	395,025	151,291	335,980	936,079	492,181	747,328	2,871,498
i	67,676	96,012	114,952	101,349	91,624	39,234	8,814	2,706	6,873	11,223	31,224	65,180	1,148,076
01.3	18,871 24,452 210 642,783 67,676		3,175 656,641 96,012	11,428 7,154 29,222 47,759 3,175 4,572 856,641 694,496 98,012 114,952	11,428 7,194 25,798 29,222 47,759 94,394 3,175 4,572 1,057 856,641 694,496 737,405	11,428 7,194 23,798 37,806 29,222 47,759 94,394 133,902 3,175 4,572 1,057 1,018 856,841 694,496 737,405 319,981 86,022 114,952 100,349 91,624	11,428 7,194 21,798 37,806 30,540 29,222 47,759 34,394 133,902 30,103 3,175 4,572 1,057 1,018 307 856,641 694,496 737,405 819,981 488,201 86,022 114,952 101,469 91,674 39,234	11,428 7,194 21,798 37,808 30,540 3,477 29,222 47,759 94,594 133,902 30,108 19,626 3,175 4,572 1,057 1,018 307 9 856,841 694,496 737,408 819,981 488,201 395,025 46,032 114,952 103,349 91,624 39,234 8,814	11,428 7,194 21,798 37,806 30,540 3,477 391 29,222 47,799 94,394 133,902 30,103 19,626 14,616 3,175 4,572 1,057 1,018 307 9 1 856,641 694,496 737,405 319,901 488,201 295,025 131,291 86,022 114,952 103,349 95,624 39,234 8,814 2,708	11,428 7,194 21,798 37,806 30,540 3,477 391 14,478 29,222 47,759 34,394 133,902 30,103 19,626 14,616 11,435 3,175 4,572 1,657 1,018 307 0 1 1 1 856,641 694,496 737,405 319,981 488,201 395,025 131,291 335,900 8,022 114,952 101,349 91,624 39,234 8,814 2,706 8,873	11,428 7,194 21,798 37,806 30,540 3,477 391 14,478 14,095 22,222 47,799 94,394 133,902 30,103 19,626 14,616 11,435 18,017 31,175 4,572 1,057 1,018 307 9 1 1 1 0 856,641 694,496 737,405 319,901 488,201 295,025 131,291 335,960 396,079 86,027 114,952 103,349 95,624 39,234 8,814 2,708 6,873 31,223	11,428 7,194 21,798 37,806 30,540 3,477 391 24,478 34,095 31,402 29,222 47,799 34,904 133,902 30,108 19,626 14,616 13,435 18,017 5,428 31,195 4,572 1,057 1,018 307 0 1 1 0 0 1 856,641 694,406 737,405 819,981 483,201 395,025 131,291 335,800 396,079 492,131 498,012 114,982 101,449 91,624 29,224 8,814 2,706 8,873 11,223 33,234	11,428 7,294 21,798 37,806 30,540 3,477 391 14,478 14,995 31,402 114,718 22,222 47,739 34,304 133,902 30,103 19,626 14,616 11,435 18,017 5,473 13,617 3,175 4,572 1,057 1,018 307 0 1 1 1 0 1 3379 856,641 694,496 737,405 319,901 488,201 395,025 131,291 335,900 396,079 492,181 747,528 86,022 114,952 103,349 91,624 39,234 8,814 2,708 6,873 11,233 31,224 65,180

Asterisk With Explanatory Comment

Modeling Approach for Combination Yield Evaluation June 4, 2015 Page 17 of 22



Table 1-7 (Continued)

Year	Jan	Fen	Mar	Apr	65ay	Bun.	300	Aug	569	Ed	Nov	Dec	Total
1005	481,194	194,333	264,307	399,315	997,523	214 649	7.138	3,565	11,437	1,650	257	2.797	2,170,963
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	952,366	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	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
2.000	9,084	28,758	186,536	1.60,925	337,369	550,892	182,850	536	613	526	593,665	512,147	2,563,901
2.001	748,339	977,725	1,181,579	322,776	74,401	79,447	30,042	10,298	90,932	176,584	18,971	1,073,934	4,785,028
2.002	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
2.003	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
2.004	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
2.005	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
2.006	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
2.007	489,851	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
2.008	12,328	207,497	946,339	672,307	160,789	54,054	17,505	12,255	17,869	23,360	14,373	17,354	2,156,030
2.009	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	4,431,078
2.010	236,343	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
2.011	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
2.012	174,243	233,419	583,995	1.98,055	38,067	16,216	8,639	1,242	2,337	3,869	3,683	8,594	1,272,359
2.013	27,805	24,000	8,378	41,500	47,781	55,442	4,089	923	19,451	31,404	9.2,500	261,708	614,981
2.014	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	583,671	1,592,539	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	51,990	113,545	2,000,450

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

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.

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 core-feet per month

Year													
	Jan	feb	Mar	Apr	May	Jun	Juli	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	305	6,345	530	3,061,183
1939	32,139	290,791	338,401	556,680	30,023	20,476	8,867	124	- 2	Ú	- 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	204.725	31.096	7,590	29 639	74,150	170.570	3,270,589
1942	43.783	72,630	201.115	1065.826	689,650	255.875	27.335	3.267	25,651	1.882	22,730	64.462	2,475,706
1943	152,185	21,940	334.195	158,495	36.841	299,255	9.785	815	1,351	9,771	7.172	29,664	1.061.467
1944	97,131	222,031	627,575	253,032	914.763	289,027	4,230	5.303	25,235	590	51,290		2,748,993
												258,786	
1945	382,208	455,776	1,310,646	1,621,927	129,008	642,421	161,446	9,143	15,264	432,707	36,365	6,059	5,206,970
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	273,560	466,132	29,300	3,428	6,976	7,130	1,119	84,957	522,401	1,751,112
1948	324,005	366,309	437,343	104,274	693,063	61,708	17,925	4,614	598	684	1,871	4,817	2,017,209
1949	326,722	612,711	479,512	218,789	230,984	69,711	20,342	11,340	6,147	410,308	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	95,161	27,156	65,056	391,997	63,760	4,280	8,558	13,676	25,348	51,633	1,304,258
1952	161.789	69.315	127.896	980 930	300.181	97,848	11.820	3,786	48	38	58,823	336 539	2 146 843
1953	138,418	194,972	202 030	275,950	1.026.830	8,370	47,874	5,874	10,338	1,120	21,519	117,064	2,050,459
1954	299,017	149,291	28,192	74,342	598,840	48,002	537	48	15	98,759	130,147	12,979	1,441,167
1955	19,737	98,849	182,890	287,146	39,251	3,365	45,174	23,131	23,493	82,174	367	1,485	813,560
1958	2.197	344,912	21,334	6,543	153.076	5,750	3.061	383	737	871	24,415	3,621	587,409
1957	22,923	116,985	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	74,599	281,589	573,302	1,317,761	106,155	179,057	9,091	31,944	14,408	73,694	40,515	2,931,278
1959	12,577	226,791	170,002	147,783	84,760	106,100	117,938	84 383	11,754	71,A01	63,071	375, 856	1,421,012
1960	527,379	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	78,631	11,834	15,527	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	40,750	114,574	14,565	22,571	2,807	151	16	53	1,513	451,848
1964	386	7,171	61,609	202,477	204,791	72,541	295	3.010	73,646	32,549	109,039	53,075	820.587
1965	88.622	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
1968	4,948 63,815		39,991	519,176	1,210,244 525,938		52,631		48.003	79.358	2,564	39,492 222,965	1,908,564
	189,289	29,945	568 539		575,938 595,084	326,170 240,527		505		19,158			2,821,324
1968	-	222,714	-	269,712	-		160,622	29,471	84,621	-	129,200	314,348	
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	109,379	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	13,514	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	260,674	212,825	668,943
1973	143,662	340,620	704,207	854,871	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	5,872	2,202	195,495	128,205	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	185	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
	-					and the same of	94	3,343	4,120	73	-		
1978	46,757 287,103	89,080	192,900	52,888 455,105	23,055 510,573	16,152	35.471	48.599	49.093	2.960	30,915 25,875	16,955	468,803 2,992,549
		202,802				259,808				-		134,031	
1980	325,744	305,104	36,521	718,584	180,360	37,930	2,490	2,334	22,956	48,304	26,538	83,944	1,781,308
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	887,196	2,891,979
1983	113,815	262,520	421,911	87,785	65,292	49,543	91,131	646	160	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	257,016	582,408	344,134	301,294	105,491	9,524	726	71	12,887	137,921	477,982	2,344,612
1986	13,943	386,317	36,865	440,575	201,892	256,027	95,747	368	12,467	21,720	144,913	213,783	1,634,617
1987	164.502	151 108	736,447	29.900	17,922	41.657	16.352	2.029	43,483				
1988	413.260									37.629	492,998	874 063	2.608.094
1989	174,506	156,983	161.047		7.877	439		3.872				874,068	2,508,094
			161,047	158,421	-	439 712 660	82,128	3,872	3,101	8,652	294,968	374,063 316,274	1,601,467
1990		766,258	161,047 310,460	158,421 246,556	699,739	712,660	82,128 260,780	3,872 36,761	3,101	8,652 1,252	294,968 707	874,065 316,274 1,373	1,601,467 3,222,667
	241,043	766,258 392,372	161,047 310,460 1,106,258	158,421 246,556 651,017	699,739 992,211	712,660 753,092	82,128 260,780 17,423	3,872 36,761 14,868	3,101 11,615 18,959	8,652 1,252 40,035	294,968 707 126,485	874,068 316,274 1,373 257,142	1,601,467 3,222,667 4,110,905
1991	241,043 545,576	766,258 392,372 275,050	161,047 310,460 1,106,258 216,022	158,421 246,556 651,017 480,204	699,739 997,211 457,944	712,660 253,092 68,739	82,128 260,780 17,423 11,312	3,872 36,761 14,368 6,296	3,101 11,615 18,959 11,140	8,652 1,252 40,035 120,345	294,968 707 126,485 502,765	874,065 316,274 1,373 257,142 953,151	1,601,467 3,222,667 4,110,905 3,648,544
1997	241,043 545,576 301,454	766,258 392,372 275,050 360,107	161,047 310,460 1,106,258 216,022 683,351	158,421 246,556 651,017 480,204 56,894	699,739 997,211 457,944 220,596	712,660 253,092 68,739 215,024	82,128 260,780 17,423 11,312 446,308	3,872 36,761 14,368 6,296 385,270	3,101 11,615 18,959 11,140 47,393	8,652 1,252 40,035 120,345 7,569	294,968 707 126,485 502,765 100,091	874,063 316,274 1,373 257,142 953,151 643,389	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446
1997 1993	241,043 545,576 301,454 458,832	766,258 392,372 275,050 360,107 276,458	161,047 310,460 1,106,258 216,022 688,351 710,790	158,421 246,556 651,017 480,204 56,894 512,490	699,739 992,211 457,944 220,596 132,959	712,660 253,092 68,739 215,024 21,924	82,128 260,780 17,423 11,312 446,308 4,852	3,872 36,761 14,868 6,296 385,270 5,463	3,101 11,615 18,959 11,140 47,393 5,048	8,652 1,252 40,035 120,345 7,569 467,266	794,968 707 126,485 502,765 100,091 161,566	874,063 316,274 1,373 257,142 953,151 643,389 635,021	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,680
1997 1993 1994	241,043 545,576 301,454 458,832 187,593	766,258 392,372 275,050 360,107 276,458 215,229	181,047 310,460 1,106,258 218,022 683,351 710,790 515,944	158,421 246,556 651,017 480,204 56,894 512,490 45,680	699,739 992,211 457,944 220,596 132,959 233,357	712,660 253,092 68,739 215,024 21,924 120,513	82,128 260,780 17,423 11,312 446,308 4,852 237,494	3,872 36,761 14,868 6,296 385,270 5,463 19,612	3,101 11,615 18,959 11,140 47,393 5,048 14,480	8,652 1,252 40,035 120,345 7,569 467,266 41,524	294,968 207 126,485 502,765 100,091 161,666 435,043	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,669 2,505,393
1997 1993 1994 1995	241,043 545,576 301,454 458,832 137,593 481,154	766,258 392,372 275,050 360,107 276,458	181,047 310,460 1,106,258 218,022 683,351 710,790 515,944 284,307	158,421 246,556 651,017 480,204 56,894 512,490	699,739 992,211 457,944 220,596 132,959	712,660 753,092 68,739 215,024 21,924 120,513 114,449	82,128 260,780 17,425 11,312 446,308 4,852 237,494 7,188	3,872 36,761 14,868 6,296 385,270 5,463 19,612 3,865	3,101 11,615 18,959 11,140 47,393 5,048	8,652 1,252 40,035 120,345 7,569 467,266	794,968 707 126,485 502,765 100,091 161,566	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924 2,797	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,689 2,505,393 2,170,863
1997 1993 1994	241,043 545,576 301,454 458,832 187,593	768,258 392,372 275,050 360,107 276,458 215,229 194,353 3,727	181,047 310,460 1,106,258 218,022 683,351 710,790 515,944	158,421 246,556 651,017 480,204 56,894 512,490 45,680	699,739 992,211 457,944 220,596 132,959 233,357	712,660 253,092 68,739 215,024 21,924 120,513	82,128 260,780 17,423 11,312 446,308 4,852 237,494	3,872 36,761 14,868 6,296 385,270 5,463 19,612	3,101 11,615 18,959 11,140 47,393 5,048 14,480	8,652 1,252 40,035 120,345 7,569 467,266 41,524	294,968 207 126,485 502,765 100,091 161,666 435,043	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,669 2,505,393
1997 1993 1994 1995	241,043 545,576 301,454 458,832 137,593 481,154	766,258 392,372 275,050 360,107 276,458 215,229 194,353	181,047 310,460 1,106,258 218,022 683,351 710,790 515,944 284,307	158,421 246,556 651,017 480,204 56,894 512,490 45,680 390,919	619,739 992,211 457,944 220,596 132,959 233,357 697,825	712,660 753,092 68,739 215,024 21,924 120,513 114,449	82,128 260,780 17,425 11,312 446,308 4,852 237,494 7,188	3,872 36,761 14,868 6,296 385,270 5,463 19,612 3,865	3,101 31,615 18,959 11,140 47,393 5,048 14,480 11,457	8,652 1,252 40,035 120,345 7,569 467,266 41,524 1,692	294,968 707 126,485 502,765 100,091 161,666 435,043 857	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924 2,797	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,689 2,505,393 2,170,863
1997 1993 1994 1995 1996	241,043 543,576 301,454 458,832 137,593 481,154 9,952	768,258 392,372 275,050 360,107 276,458 215,229 194,353 3,727	161,047 310,460 1,106,258 216,022 683,351 710,790 515,944 264,307 7,584	158,421 246,556 651,017 480,204 58,894 512,490 45,680 390,919	699,739 992,211 457,944 220,596 132,959 233,357 697,825 98,380	712,660 253,092 88,739 215,024 21,924 120,513 114,449 45,601	82,128 260,780 17,425 11,312 446,308 4,852 237,494 7,188 14,015	3,872 36,761 14,868 5,296 385,270 5,463 19,612 3,865 114,878	3,101 11,615 18,959 11,140 47,993 5,048 14,480 11,457 80,470	8,652 1,252 40,035 120,345 7,569 467,266 41,524 1,692 104,681	294,968 707 126,485 502,765 100,091 161,586 435,043 857 580,882	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924 2,797 627,117	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,669 2,505,393 2,170,883 1,686,315
1997 1993 1994 1995 1996 1997 1998	241,043 543,576 301,454 458,832 157,593 481,154 9,952 112,471 912,774	766,258 397,377 275,050 360,107 276,458 215,229 194,353 3,727 957,366 371,307	161,047 310,460 1,106,258 216,022 683,351 710,790 513,944 264,307 7,584 687,186 386,644	158,421 246,556 651,017 480,204 58,894 512,490 45,680 390,919 19,022 541,287 51,045	699,739 992,211 457,944 220,596 132,959 233,357 697,825 98,380 272,311 33,405	712,660 253,092 68,739 215,024 21,924 120,513 114,449 45,601 177,947 4,818	82,128 260,780 17,423 11,312 446,308 4,852 237,494 7,188 14,015 7,291	3,872 36,761 14,888 6,296 385,270 5,463 19,612 3,885 114,878 9,610	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 45,312	8,652 1,252 40,035 120,345 7,569 467,266 41,524 1,692 104,681 10,067	294,968 707 126,485 502,765 100,091 161,586 435,043 857 580,882 24,127 161,744	874,063 316,274 1,373 257,142 953,151 643,389 635,921 488,924 488,924 627,117 326,446 990,537	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,660 2,505,393 2,170,863 1,686,315 3,121,429 2,781,784
1997 1993 1994 1995 1996 1997	241,043 545,576 301,454 458,832 187,593 481,154 9,952 112,471 912,774 270,277	766,258 397,372 275,050 360,107 276,458 215,229 194,353 3,727 952,366	161,047 310,460 1,106,258 216,022 683,351 710,790 513,944 264,307 7,584 687,186 386,644	158,421 246,556 851,017 480,204 56,894 512,490 45,680 390,919 19,023 541,287	699,739 997,211 457,944 220,596 132,959 213,357 607,825 98,380 772,311 33,405 99,634	712,660 253,092 88,739 215,024 21,924 120,513 114,449 45,601 177,947 4,818 42,205	82,128 260,780 17,423 11,312 446,308 4,852 237,494 7,188 14,015 7,291 390 6,625	3,872 36,761 14,388 6,296 385,270 5,463 19,612 1,385 114,878 9,610	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 370 45,312	8,652 1,252 40,035 120,345 7,589 467,266 41,534 1,692 124,681 10,067 222,884	294,968 707 126,485 502,765 100,091 161,586 435,043 857 580,882 24,127	874,063 316,274 1,373 257,142 953,151 643,339 635,921 488,924 2,797 627,117 326,646 990,537 27,781	1,601,467 3,222,667 4,110,905 3,648,544 3,472,446 3,193,660 2,505,393 2,170,863 1,686,315 3,121,429
1997 1993 1994 1995 1996 1997 1998 1999	241,043 543,576 301,454 458,832 157,593 481,154 9,952 112,471 912,774	766,258 392,372 275,050 360,107 276,458 215,229 194,353 3,727 952,366 371,307 210,185	161,047 310,460 1,106,258 216,022 683,351 710,790 513,944 264,307 7,584 687,186 386,644	158,421 246,556 851,017 480,704 56,884 312,490 45,680 390,919 19,029 541,287 51,045 168,437 160,925	699,739 992,211 457,944 220,596 132,959 233,357 697,825 98,380 272,311 33,405	712,660 253,092 68,739 215,024 21,924 120,513 114,449 45,601 177,947 4,818	82,128 260,780 17,423 11,312 446,308 4,852 237,494 7,188 14,015 7,291	3,872 36,761 14,388 5,296 385,270 5,463 19,612 3,865 114,878 9,610 924 219	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 45,312	8,652 1,252 40,035 120,345 7,589 467,266 41,524 1,692 104,681 10,067 222,884 2,358	294,968 707 126,485 502,785 100,091 161,686 435,043 857 580,882 24,127 161,744 1,994	874,063 316,274 1,373 257,142 953,151 643,339 635,921 488,924 2,797 627,117 326,446 900,537 27,781 512,147	1,601,467 3,222,667 4,110,905 3,648,544 3,193,689 2,505,393 2,170,883 1,586,315 3,121,429 2,781,784 1,131,383
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	241,043 545,576 301,454 488,832 157,583 481,154 9,952 112,471 912,774 270,277 9,084 748,339	766,258 392,372 275,050 360,107 276,458 215,229 194,353 3,727 952,366 371,307 210,135 28,758	161,047 310,460 1,106,258 1206,258 683,351 710,790 515,944 264,307 7,584 687,186 386,644 301,351 118,536	158,421 246,556 851,017 480,204 512,490 45,680 390,319 19,028 541,287 51,045 168,437 160,925 322,776	699,739 997,211 457,944 220,596 132,959 253,357 697,825 98,380 272,311 33,405 99,834 357,369 74,401	712,660 253,092 88,739 215,024 219,24 120,513 114,449 45,601 177,947 4,818 42,205 550,392 79,447	82,128 260,780 17,425 11,312 448,308 4,852 237,494 7,188 14,015 7,291 390 6,625 182,850 30,042	3,872 36,761 14,388 6,296 385,270 5,463 19,612 3,365 114,878 9,610 9214 219 3,36	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 370 45,312 613 90,932	8,652 1,252 40,035 7,589 467,266 41,524 1,692 104,681 10,067 222,884 2,358 526 176,584	294,968 707 126,485 502,765 100,091 161,586 435,043 557 580,882 24,127 161,744 1,994 1,995	874,063 316,274 1,373 257,142 953,151 643,389 685,921 488,924 2,797 627,117 326,446 900,537 27,781 512,147 1,073,934	1,601,467 3,222,667 4,110,905 3,648,544 3,193,649 2,905,399 2,170,869 1,586,315 3,121,429 2,781,784 1,131,389 1,583,901 4,785,028
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	241,043 545,576 301,454 458,832 187,589 481,154 9,952 112,471 912,774 270,277 9,084 748,339 122,906	766,258 392,372 275,050 360,107 276,458 215,229 134,353 3,727 957,366 371,307 210,185 28,758 977,725 352,581	161,047 310,460 1,106,258 16,022 688,351 710,790 515,944 264,307 7,584 687,186 386,644 301,351 1,381,579 488,702	158,421 246,556 851,017 480,204 58,894 512,490 45,680 390,319 19,023 541,287 51,045 168,437 160,925 322,776 833,998	699,739 997,211 457,944 220,596 132,959 253,357 697,825 98,380 272,311 33,405 99,634 357,369 74,401 122,489	712,660 253,092 88,739 215,024 219,24 120,513 114,449 45,601 177,947 4,818 42,205 550,892 79,447 4,967	82,128 260,780 17,425 11,312 446,308 4,852 237,494 7,188 14,015 7,291 390 6,625 182,850 30,042 9,657	3,872 36,761 14,888 5,296 5,463 19,612 3,865 114,878 9,610 924 219 5,36 10,298 5,262	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 570 45,312 41,7 51,00 5	8,652 1,252 40,035 120,345 7,589 467,266 61,524 1,692 104,681 10,067 222,884 2,358 528 176,584 293,547	294,963 707 126,485 502,765 109,091 161,586 435,043 857 580,882 24,127 161,744 1,994 503,665 18,971 72,447	874,063 316,274 1,373 257,142 953,151 643,339 635,921 488,924 2,797 627,117 326,446 590,537 27,731 512,147 1,073,934 127,729	1,601,467 3,222,687 4,110,905 3,648,544 3,472,446 3,193,689 2,506,399 2,170,863 1,886,315 3,121,429 2,781,784 1,151,383 2,563,901 4,785,023 2,239,722
1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2002	241,043 545,576 301,454 458,832 157,583 481,154 9,952 112,471 912,774 270,277 9,084 748,339 122,909 157,664	766,258 392,372 275,050 380,107 276,458 215,229 194,353 3,727 952,366 371,307 210,185 28,758 977,725 352,581 147,794	161,047 310,460 1,106,258 216,022 683,351 710,790 513,944 264,307 7,584 687,186 386,644 381,351 118,536 488,702 256,155	158,421 246,556 651,017 480,304 58,894 512,490 45,680 190,919 19,023 541,287 51,045 168,437 160,925 322,776 833,998 11,970	699,739 997,211 457,944 220,596 132,959 233,357 697,825 98,380 272,311 33,405 99,634 357,369 74,401 122,489 40,726	712,660 753,092 68,733 215,024 21,924 120,513 114,449 45,601 177,947 4,818 42,205 550,892 79,447 4,967 49,828	82,128 260,780 17,423 11,312 446,308 4,852 237,494 7,188 14,015 7,291 390 6,625 182,850 30,042 9,657 3,210	3,872 36,761 14,868 6,276 385,270 5,463 19,612 3,865 114,878 9,610 924 219 136 10,298 5,262 658	3,101 11,615 18,959 11,140 47,393 5,048 14,480 11,457 60,470 570 45,312 613 90,932 5,642 5,742 613 90,932 5,742 613	8,652 1,252 40,035 7,589 467,286 41,524 1,692 104,681 10,067 222,884 2,358 526 178,584 1,737	294,968 707 126,485 502,765 100,091 161,686 435,043 857 580,882 24,127 161,744 1,994 503,665 18,972 72,467 72,467	\$74,065 316,774 1,373 257,142 953,151 643,339 655,921 488,924 488,924 7,797 627,117 326,646 27,747 1,073,934 127,739 1,454	1,601,467 3,222,667 4,110,905 3,643,544 3,193,660 2,505,393 2,170,863 1,586,315 3,121,429 2,781,784 1,131,383 2,563,901 4,785,028 2,283,722 683,936
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	241,043 543,576 301,454 488,832 157,593 481,154 9,952 112,471 912,774 270,277 9,084 748,339 127,964 16,840	766,258 902,372 275,050 360,107 276,458 215,229 194,353 5,727 952,366 371,018 28,758 977,725 352,531 144,794 151,014	161,047 310,460 1,106,258 216,022 683,351 710,790 513,944 254,307 7,538 687,186 386,644 1181,579 483,707 254,180 1181,579	158,421 246,556 851,017 480,204 58,894 512,490 45,880 390,919 19,022 541,287 51,045 186,437 160,925 822,776 833,908 18,909 22,833	659,739 992,211 457,944 220,596 132,959 233,357 697,825 98,380 272,311 33,405 99,634 99,634 97,401 122,499 40,726 85,254	712,660 253,092 88,739 215,024 21,924 120,513 114,449 45,601 177,947 4,818 42,105 550,392 79,447 4,967 49,826 143,784	82,129 260,780 17,423 11,432 446,308 4,852 237,494 7,188 14,015 7,291 390 30,042 9,557 3,210 37,407	3,872 36,751 14,868 6,279 5,463 19,512 1,365 114,878 9,510 924 219 336 10,298 5,262 5,262	3,101 11,615 18,959 11,146 147,993 5,048 14,480 11,480 80,470 45,312 41,72 613 90,932 5,624 2,051 821	8,652 1,752 40,005 120,348 7,569 467,266 41,524 1,852 100,67 272,884 2,356 178,584 1,787 1,787 1,787 1,787	294,968 707 126,485 502,765 502,765 100,091 161,866 435,043 24,127 161,744 1,994 503,665 18,971 72,447 72,447 2,691 97,724	\$74,065 316,274 1,373 257,142 953,151 643,389 625,921 458,924 2,797 627,173 336,446 990,537 27,781 1,073,934 127,729	1,601,467 3,222,667 4,110,905 3,548,544 3,472,446 3,193,689 2,505,393 2,505,393 1,886,315 3,122,429 2,702,883 1,886,315 4,785,028 2,583,901 4,785,028 2,293,722 883,936 753,141
1997 1993 1994 1995 1996 1997 1998 2000 2001 2002 2002 2004 2005	241,043 545,576 301,454 458,832 157,559 481,154 9,552 112,471 912,774 270,277 9,084 748,339 122,909 157,664 16,840 257,798	766,258 302,372 275,050 371,5050 371,458 215,229 194,335 371,307 220,135 28,735 377,725 352,531 147,794 119,396	181,047 313,460 1,106,258 216,072 683,351 710,790 7,534 224,307 7,534 382,644 301,351 186,356 118,356	158,421 246,556 551,017 480,204 56,894 512,490 45,880 390,919 39,023 541,387 51,045 168,437 160,925 522,776 633,990 18,970 22,887 61,637	699,739 992,211 457,944 213,959 213,357 697,825 98,836 37,2511 33,405 99,834 317,369 74,401 112,489 40,726 85,237	712,860 753,992 88,739 215,004 21,924 120,513 114,449 45,601 177,947 4,812 42,005 550,392 79,447 4,957 48,226 143,794 113,794	82,128 260,780 17,425 11,511 446,308 4,852 237,836 14,015 7,291 390 6,625 32,086 32,086 32,086 33,216 37,407 33,216 37,407 38,21	3,872 36,761 14,388 6,796 585,270 5,463 19,512 114,878 9,510 124 219 336 10,738 5,262 658 1,823 3,555	3,101 11,615 18,559 11,146 47,393 5,048 14,457 80,470 45,370 45,370 61,330 90,392 5,424 2,051 3,673	8,852 1,252 40,035 7,589 467,268 61,234 1,692 104,881 10,067 222,884 2,358 5,26 178,534 1,737 1,737	294,968 707 126,468 502,765 502,765 502,765 100,091 161,566 431,565 580,882 24,127 161,744 1,964 18,971 72,447 2,691 97,724 1,041	\$74,065 316,274 1,373 257,142 953,151 643,399 645,501 488,924 488,924 277,117 326,446 90,517 27,781 512,147 1,073,724 1,273,724 1,273,724 1,274,724 1,273,724 1,274,72	1,601,467 3,222,667 4,110,905 3,643,544 3,643,544 3,643,544 3,193,669 2,170,863 2,170,863 3,121,429 2,761,784 1,131,383 2,761,784 2,763,784 4,765,028 2,293,722 681,936 543,435
1997 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2005	241,043 545,576 501,454 488,832 157,503 481,154 9,952 112,471 912,774 170,277 9,084 748,319 122,909 127,968 4,079	766,258 302,372 775,050 370,458 215,229 194,353 371,307 210,135 28,758 377,725 352,551 147,714 151,034 113,339 9,023	281,047 3310,460 1,106,258 216,022 683,351 710,790 531,944 264,307 710,790 687,718 386,644 301,351 1181,579 483,703 296,135 103,286 303,296 303,296 303,296 303,296 303,296 303,296 303,296	136,421 246,556 551,017, 480,204 56,894 512,490 190,919 13,028 541,287 51,045 160,927 522,776 633,970 22,833 61,837 57,332	99,739 992,711 457,946 270,946 132,959 253,357 697,825 99,634 357,369 76,401 112,469 40,726 40,726 40,726 40,726 40,726 40,726	712,860 753,992 83,799 215,024 21,924 21,924 45,501 177,947 4,518 42,205 550,392 79,447 4,925 43,826 143,784 1,936 3,482	82,128 260,780 17,423 11,312 448,508 4,832 237,404 7,188 14,015 7,291 300 6025 182,850 30,042 3,532 37,407 3,210 3,210 3,210 4,230 4,230	3,872 36,761 14,388 5,796 385,270 3,855 19,612 3,865 114,875 4,610 214 219 3,365 10,798 5,262 658 1,803 3,558 1,803 3,558 1,803 1,903	3,101 11,615 18,959 11,146 47,393 5,048 14,480 11,480 60,470 570 613 90,932 45,312 5,424 2,051 821 3,823 333	8,852 1,252 40,035 120,345 7,569 467,256 41,524 1,682 104,861 110,067 222,884 2,355 176,544 283,577 1,737 6,962 1,824 2,775	294,968 707 126,485 502,795 100,091 161,866 435,043 597,75 580,882 24,127 161,744 1,994 593,665 18,977 72,467 1,994 1,09	\$74,065 316,274 1,373 257,142 953,151 643,393 488,924 2,797 627,112 326,446 90,537 27,731 512,147 1,073,934 1,073,934 1,073,934 1,073,934 1,274 2,454 85,433 1,285 85,433	1,601,467 3,222,667 4,110,903 3,648,544 3,472,446 3,193,669 2,170,863 1,686,315 1,121,429 2,781,788 1,131,388 1,583,903 4,783,783,783 2,783,783 4,
1997 1993 1994 1995 1996 1997 1998 2000 2001 2002 2002 2004 2005	241,043 545,576 301,484 458,832 137,583 481,154 9,952 112,471 912,774 748,339 122,993 157,564 16,840	766,258 392,372 275,050 385,107 276,458 215,229 194,353 4,752 952,366 371,307 210,138 28,758 977,725 382,581 147,784 151,014 151,014 151,014 151,014	181,047 313,460 1,106,258 216,072 683,351 710,790 7,534 224,307 7,534 381,644 301,351 186,356 118,356	158,422 246,556 651,017 651,017 56,834 512,580 390,919 39,029 51,045 168,437 160,925 522,776 633,998 61,837 52,837 61,837 88,009	99,739 992,211 457,944 220,506 132,959 213,357 98,380 272,311 33,405 99,834 257,262 40,726 40	712,860 753,992 88,739 215,004 21,924 120,513 114,449 45,601 177,947 4,812 42,005 550,392 79,447 4,957 48,226 143,794 113,794	82,128 260,780 17,423 11,312 446,508 4,852 27,644 7,188 14,015 19,25 300 6,625 30,042 9,557 3,220 37,407 3,317 4,233 17,407	3,872 36,761 14,388 6,796 585,270 5,463 19,512 114,878 9,510 124 219 336 10,738 5,262 658 1,823 3,555	3,101 11,615 18,959 11,369 14,799 5,048 14,489 11,457 60,470 45,312 45,312 90,932 5,424 2,051 821 3,823 301 31,823 31,823	8,852 1,252 40,035 7,569 467,266 41,524 1,862 104,851 110,057 222,884 2,358 178,584 293,547 1,787 8,962 1,834 2,775 3,1215	294,968 707 126,468 502,765 502,765 502,765 100,091 161,566 431,565 580,882 24,127 161,744 1,964 18,971 72,447 2,691 97,724 1,041	\$74,065 316,274 1,373 257,142 953,131 643,339 635,921 488,924 2,797 27,781 326,646 90,537 27,7781 1,073,934 1,277,729 2,854 1,228 38,925	1,601,467 3,222,667 4,110,903 3,643,544 3,472,446 3,193,689 2,503,993 2,170,868 1,586,315 2,781,784 1,131,388 2,781,784 1,131,388 2,781,784 1,131,388 2,783,782 2,883,938 753,141 543,435 753,441 543,435
1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2004 2005 2006 2007 2007 2008 2009 2009 2009 2009 2009 2009 2009	241,043 545,576 301,484 488,832 187,563 481,154 9,952 112,441 9,952 102,777 9,084 788,319 122,909 157,664 158,798 40,09 48,351 12,238	766,258 392,372 275,050 395,107 276,458 215,229 371,309 210,135 28,738 377,725 352,531 147,714 113,396 9,023 207,439	281,047 3310,460 11,06,258 216,022 683,351 710,790 513,944 284,307 7,588 687,186 386,644 381,351 186,556 1381,579 256,135 27,660 37,348 37,348 37,348 37,348 37,348 37,348 37,348 37,348	136,422 246,556 551,072 480,204 56,894 52,2400 190,319 19,023 541,287 150,925 122,776 633,990 12,970 22,833 61,857 97,352	99,739 992,711 457,946 270,946 132,959 253,357 697,825 99,634 357,369 76,401 112,469 40,726 40,726 40,726 40,726 40,726 40,726	712,860 753,992 83,799 215,024 21,924 21,924 45,501 177,947 4,518 42,205 550,392 79,447 4,925 43,826 143,784 1,936 3,482	82,128 260,780 17,423 11,312 448,508 4,852 237,494 7,188 14,015 7,291 39,00 30,02 30,02 32,20 37,407 4,230 4,230 37,407 4,230	3,872 36,761 14,388 5,796 385,270 3,855 19,612 3,865 114,875 4,610 214 219 3,365 10,798 5,262 658 1,803 3,558 1,803 3,558 1,803 1,903	3,101 11,615 18,959 11,146 47,391 5,048 14,499 11,457 60,470 45,312 417 613 50,092 5,424 2,051 3,623 3,723 11,621 17,869	8,852 1,252 40,003 120,345 7,569 487,268 41,524 1,692 104,881 10,067 272,884 1,797 1,797 8,962 1,795 1,205 1	294,968 707 125,485 502,765 100,091 161,866 435,043 857 24,127 161,744 1,994 593,665 18,972 72,467 2,692 97,724 1,044 1,519	\$74,065 316,774 1,373 257,142 953,151 643,389 645,921 485,921 485,921 527,117 27,781 57,781 57,781 1,073,934 127,783 1,284 85,433 1,228 88,930 55,929	1,601,467 3,222,667 4,110,903 3,648,544 3,472,446 3,193,669 2,170,863 1,686,315 1,121,429 2,781,788 1,131,388 1,583,903 4,783,783,783 2,783,783 4,
1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	241,043 545,576 301,484 458,832 137,583 481,154 9,952 112,471 912,774 748,339 122,993 157,564 16,840	766,258 392,372 275,050 395,107 276,458 215,229 371,309 210,135 28,738 377,725 352,531 147,714 113,396 9,023 207,439	281,047 331,460 1,106,258 2316,022 683,351 751,944 284,337 7,534 887,138 386,644 301,351 118,336 1,181,579 488,702 256,135 103,266 80,429 307,286 307,286	158,422 246,556 651,017 651,017 56,834 512,580 390,919 39,029 51,045 168,437 160,925 522,776 633,998 61,837 52,837 61,837 88,009	99,739 992,211 457,944 220,506 132,959 213,357 98,380 272,311 33,405 99,834 257,262 40,726 40	712,860 753,992 83,739 215,024 21,924 120,513 114,849 45,601 177,947 4,818 42,216 550,392 79,847 4,925 143,754 1,950 3,882 297,923	82,128 260,780 17,423 11,312 446,508 4,852 27,644 7,188 14,015 19,25 300 6,625 30,042 9,557 3,220 37,407 3,317 4,233 17,407	3,872 36,761 14,385 5,796 383,770 5,463 19,512 3,385 114,678 9,510 924 219 3,262 6,58 1,803 3,555 1,100 1,000	3,101 11,615 18,959 11,369 14,799 5,048 14,489 11,457 60,470 45,312 45,312 90,932 5,424 2,051 821 3,823 301 31,823 31,823	8,852 1,252 40,035 7,569 467,266 41,524 1,862 104,851 110,057 222,884 2,358 178,584 293,547 1,787 8,962 1,834 2,775 3,1215	294,968 707 126,485 502,785 100,091 161,866 435,043 857 580,882 24,127 161,744 1,994 593,665 18,971 72,447 72,447 1,041 6,175 3,519	\$74,065 316,774 1,373 257,142 953,151 643,389 645,921 485,921 485,921 527,117 27,781 57,781 57,781 1,073,934 127,783 1,284 85,433 1,228 88,930 55,929	1,601,467 3,222,667 4,110,903 3,643,544 3,472,446 3,193,689 2,503,993 2,170,868 1,586,315 2,781,784 1,131,388 2,781,784 1,131,388 2,781,784 1,131,388 2,783,782 2,883,938 753,141 543,435 753,441 543,435
1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2004 2005 2006 2007 2007 2008 2009 2009 2009 2009 2009 2009 2009	241,043 545,576 301,484 488,832 187,563 481,154 9,952 112,441 9,952 102,777 9,084 788,319 122,909 157,664 158,798 40,09 48,351 12,238	766,258 392,372 275,050 385,107 276,458 215,229 194,353 4,752 952,366 371,307 210,138 28,758 977,725 382,581 147,784 151,014 151,014 151,014 151,014	281,047 3310,460 11,06,258 216,022 683,351 710,790 513,944 284,307 7,588 687,186 386,644 381,351 186,556 1381,579 256,135 27,660 37,348 37,348 37,348 37,348 37,348 37,348 37,348 37,348	136,422 246,556 551,072 480,204 56,894 52,2400 190,319 19,023 541,287 150,925 122,776 633,990 12,970 22,833 61,857 97,352	99,739 987,731 987,731 457,939 132,939 233,357 98,380 277,311 33,405 99,834 40,726 40,726 5,937 6,121 97,830 172,439 97,840 112,439 97,840 112,439 112	712,660 253,092 83,799 215,024 21,924 120,513 114,449 45,601 177,947 4,813 42,105 550,992 79,447 1,950 3,482 297,923 540,634	82,128 260,780 17,423 11,312 448,508 4,852 237,494 7,188 14,015 7,291 39,00 30,02 30,02 32,20 37,407 4,230 4,230 37,407 4,230	3,872 86,/61 14,388 6,296 385,770 3,5463 19,612 9,610 934 219 3,562 5,663 10,298 1,303 1,3	3,101 11,615 18,959 11,146 47,391 5,048 14,499 11,457 60,470 45,312 417 613 50,092 5,424 2,051 3,623 3,723 11,621 17,869	8,852 1,252 40,003 120,345 7,569 487,268 41,524 1,692 104,881 10,067 272,884 1,797 1,797 8,962 1,795 1,205 1	294,968 707 125,485 502,765 100,091 161,866 435,043 857 24,127 161,744 1,994 593,665 18,972 72,467 2,692 97,724 1,044 1,519	\$74,065 316,274 1,373 257,142 953,131 643,339 635,921 488,924 2,797 27,781 326,646 90,537 27,778 11,073,934 1227,729 2,854 1,228 38,925	1,601,467 3,222,667 4,110,903 3,543,544 3,472,446 3,193,689 2,170,863 1,896,315 2,761,784 1,153,383 2,563,903 2,781,784 1,153,383 2,563,903 2,781,784 1,153,383 2,583,903 2,583,903 401,907 2,000,450 2,156,003 2,156,00
1992 1993 1994 1995 1996 1997 2000 2001 2002 2002 2004 2005 2006 2007 2008 2009 2009 2009 2009 2009 2009 2009	241,043 545,576 501,454 458,832 137,563 481,154 9,952 112,742 192,776 192,777 19,084 19,783,169 112,398 112,398 112,398 112,398 112,398 123,39	766,258 392,372 275,059 383,107 276,458 134,353 1,727 191,185 197,725 352,581 147,791 151,014 151,0	181,047 310,460 1,106,258 216,022 268,3351 710,790 513,944 301,351 386,644 301,351 138,356 256,155 103,266 30,475 256,155 103,266 30,475 27,586 30,475 27,586 30,475 30,47	136,422 246,556 551,072 480,304 56,894 512,440 45,880 390,519 319,022 541,287 160,923 122,785 51,345 160,923 522,776 533,996 54,387 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302 57,302	99,739 992,211 457,944 220,586 132,959 937,825 98,330 77,311 133,405 99,834 40,726 85,737 61,121 197,834 197,534 197,534 197,534	712,860 253,092 83,793 215,024 21,924 120,511 114,449 43,50 1177,947 4,912 42,105 550,992 79,447 4,987 4,987 1,950 3,482 297,973 54,054 11,036 56,598	82,128 260,780 11,7423 11,312 446,508 4,832 237,494 7,188 14,015 7,291 390 30,042 3,507 3,210 37,447 4,230 4	3,872 86,/61 14,388 6,296 385,270 3,5483 19,512 13,65 114,878 9,510 924 219 3,36 10,298 6,58 1,282 3,555 2,190 10,218 112,255 16,190 112,255	3,101 11,513 11,513 11,340 47,393 11,467 14,480 11,457 60,470 45,312 45,712 5,424 2,051 3,823 3,823 3,723 11,821 11,889 1	8,652 1,152 40,035 120,345 17,559 467,266 41,524 1,862 100,68 1,162 10,067 122,884 1,757 1	294,968 707 125,485 502,765 502,765 100,092 161,866 435,043 857 24,127 161,744 1,984 1593,665 16,175 2,691 1,041 6,175 3,519 24,373 413,219	\$74,065 316,774 1,373 257,142 953,319 643,309 643,309 643,309 627,117 326,446 900,547 1,073,934 1,073,934 1,274,934 1,274,934	1,801,467 3,222,867 4,110,905 3,648,544 3,472,446 3,172,446 2,170,863 1,172,429 2,781,782 1,188,315 1,121,429 2,781,782 83,936 1,183,318 1,183,418
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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.
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- 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.

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)

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:
- Environmental Flows:
- Total Purpose & Need:
- Contractual (80/20)
 - Region D
 - Region C

- 604,000 af/yr
- 20% maximum 120,800 af/yr
- 724,800 af/yr
- 20%
- 144,960 af/yr
- 80%
- 579,840 af/yr

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.

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?