

ANNUAL CALCULATION - SRA

	\$-Value per year ⁽³⁾	<i>(Applicable for income only)</i>		Multiplier effect (ME) ⁽³⁾	\$-Value per year w/ ME	Year of Value	First Year of Impact	Last Year of Impact	Inflation rate 3.84% ⁽⁴⁾			
		Disposable ⁽³⁾	Locally Spent ⁽³⁾						2009	2010	2011	
Benefits to SRA												
Commerce from New Residents ⁽¹⁾												
SRA - Harrison												
Per Household Income (disposable, locally spent)	\$ 86,499	77.6%	38.4%	1.30	\$ 33,480	2007	2016	2060				
Assumed increase in Households							2016	2060				
Commerce from New Residents												
SRA - Rusk												
Per Household Income (disposable, locally spent)	\$ 79,130	76.7%	35.9%	1.22	\$ 26,682	2007	2016	2060				
Assumed increase in Households							2016	2060				
Commerce from New Residents												
SRA - Hunt												
Per Household Income (disposable, locally spent)	\$ 80,758	75.5%	38.0%	1.24	\$ 28,808	2007	2016	2060				
Assumed increase in Households							2016	2060				
Commerce from New Residents												
Total Benefits												
Economic Development ⁽²⁾												
Upper Basin												
Collin				1.50			2009	2060	\$ 39,323	\$ 54,507	\$ 58,063	
Rockwall				1.32			2009	2060	51,322	71,140	75,780	
Hunt				1.24			2009	2060	467,932	648,627	690,933	
Kaufman				1.25			2009	2060	15,931	22,082	23,523	
Van Zandt				1.18			2009	2060	186,429	258,419	275,275	
Rains				1.17			2009	2060	68,492	94,941	101,134	
Hopkins				1.27			2009	2060	54,397	75,402	80,320	
Wood				1.27			2009	2060	271,076	375,754	400,262	
Smith				1.39			2009	2060	241,514	334,777	356,612	
Franklin				1.19			2009	2060	2,317	3,211	3,421	
Upshur				1.19			2009	2060	86,331	119,668	127,474	
Gregg				1.35			2009	2060	872,256	1,209,084	1,287,946	
Rusk				1.22			2009	2060	162,932	225,850	240,581	
Harrison				1.30			2009	2060	305,519	423,497	451,120	
Panola				1.20			2009	2060	166,068	230,196	245,211	
Total Upper Basin Benefits										\$ 2,991,837	\$ 4,147,157	\$ 4,417,653
Lower Basin												
Shelby				1.22			2009	2060	\$ 166,115	\$ 230,262	\$ 245,280	
San Augustine				1.14			2009	2060	5,809	8,052	8,577	
Sabine				1.17			2009	2060	65,432	90,699	96,614	
Jasper				1.26			2009	2060	99,323	137,677	146,657	
Newton				1.08			2009	2060	93,894	130,152	138,641	
Orange				1.19			2009	2060	378,492	524,650	558,870	
Total Lower Basin Benefits										\$ 809,064	\$ 1,121,491	\$ 1,194,639

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2012	2013	2014	2015	2016	2017	2018	2019
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)					\$ 46,995	\$ 48,799	\$ 50,673	\$ 52,618
Assumed increase in Households					1,831	2,036	2,243	2,451
Commerce from New Residents					\$ 86,040,534	\$ 99,353,220	\$ 113,641,356	\$ 128,963,936
SRA - Rusk								
Per Household Income (disposable, locally spent)					\$ 37,452	\$ 38,890	\$ 40,383	\$ 41,934
Assumed increase in Households					804	892	980	1,070
Commerce from New Residents					\$ 30,098,132	\$ 34,684,503	\$ 39,595,250	\$ 44,849,239
SRA - Hunt								
Per Household Income (disposable, locally spent)					\$ 40,437	\$ 41,989	\$ 43,601	\$ 45,275
Assumed increase in Households					3,120	3,541	3,967	4,399
Commerce from New Residents					126,158,325	148,670,339	172,963,919	199,155,085
Total Benefits					\$ 242,296,992	\$ 282,708,061	\$ 326,200,526	\$ 372,968,260
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 62,013	\$ 67,467	\$ 73,502	\$ 76,159	\$ 80,891	\$ 84,336	\$ 87,809	\$ 91,591
Rockwall	80,936	88,055	95,930	99,399	105,575	110,071	114,604	119,539
Hunt	737,945	802,849	874,654	906,282	962,591	1,003,584	1,044,915	1,089,913
Kaufman	25,123	27,333	29,777	30,854	32,771	34,167	35,574	37,106
Van Zandt	294,005	319,863	348,471	361,072	383,506	399,838	416,304	434,232
Rains	108,015	117,515	128,025	132,655	140,897	146,897	152,947	159,533
Hopkins	85,786	93,331	101,678	105,355	111,900	116,666	121,470	126,702
Wood	427,496	465,095	506,693	525,015	557,635	581,382	605,325	631,393
Smith	380,877	414,375	451,436	467,761	496,823	517,981	539,313	562,538
Franklin	3,654	3,975	4,331	4,487	4,766	4,969	5,174	5,396
Upshur	136,147	148,122	161,369	167,205	177,593	185,156	192,781	201,083
Gregg	1,375,578	1,496,564	1,630,414	1,689,371	1,794,333	1,870,746	1,947,790	2,031,670
Rusk	256,950	279,549	304,552	315,565	335,171	349,445	363,836	379,504
Harrison	481,814	524,191	571,074	591,724	628,488	655,253	682,239	711,619
Panola	261,895	284,929	310,413	321,637	341,621	356,169	370,838	386,808
Total Upper Basin Benefits	\$ 4,718,233	\$ 5,133,213	\$ 5,592,318	\$ 5,794,540	\$ 6,154,560	\$ 6,416,660	\$ 6,680,919	\$ 6,968,628
Lower Basin								
Shelby	\$ 261,969	\$ 285,010	\$ 310,501	\$ 321,729	\$ 341,718	\$ 356,271	\$ 370,943	\$ 386,918
San Augustine	9,161	9,966	10,858	11,250	11,949	12,458	12,971	13,530
Sabine	103,188	112,264	122,304	126,727	134,601	140,333	146,112	152,404
Jasper	156,635	170,412	185,653	192,366	204,318	213,019	221,792	231,343
Newton	148,074	161,097	175,506	181,852	193,151	201,376	209,670	218,699
Orange	596,896	649,394	707,475	733,058	778,603	811,761	845,192	881,590
Total Lower Basin Benefits	\$ 1,275,923	\$ 1,388,144	\$ 1,512,297	\$ 1,566,983	\$ 1,664,341	\$ 1,735,218	\$ 1,806,681	\$ 1,884,484

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2020	2021	2022	2023	2024	2025	2026	2027
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)	\$ 54,639	\$ 56,737	\$ 58,915	\$ 61,177	\$ 63,526	\$ 65,965	\$ 68,498	\$ 71,128
Assumed increase in Households	2,661	2,804	2,948	3,093	3,239	3,385	3,532	3,680
Commerce from New Residents	\$ 145,383,213	\$ 159,095,722	\$ 173,690,933	\$ 189,218,343	\$ 205,730,034	\$ 223,280,800	\$ 241,928,286	\$ 261,733,125
SRA - Rusk								
Per Household Income (disposable, locally spent)	\$ 43,544	\$ 45,216	\$ 46,952	\$ 48,755	\$ 50,627	\$ 52,571	\$ 54,589	\$ 56,685
Assumed increase in Households	1,159	1,208	1,257	1,307	1,356	1,406	1,456	1,506
Commerce from New Residents	\$ 50,466,334	\$ 54,627,743	\$ 59,040,185	\$ 63,717,044	\$ 68,672,370	\$ 73,920,914	\$ 79,478,160	\$ 85,360,358
SRA - Hunt								
Per Household Income (disposable, locally spent)	\$ 47,014	\$ 48,819	\$ 50,693	\$ 52,640	\$ 54,661	\$ 56,760	\$ 58,939	\$ 61,202
Assumed increase in Households	4,836	5,382	5,936	6,499	7,072	7,653	8,244	8,844
Commerce from New Residents	227,366,781	262,733,297	300,923,809	342,127,438	386,545,009	434,389,744	485,887,994	541,280,016
Total Benefits	\$ 423,216,328	\$ 476,456,762	\$ 533,654,927	\$ 595,062,825	\$ 660,947,414	\$ 731,591,459	\$ 807,294,440	\$ 888,373,499
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 95,743	\$ 99,976	\$ 104,486	\$ 109,089	\$ 113,857	\$ 118,089	\$ 122,434	\$ 127,106
Rockwall	124,958	130,484	136,370	142,377	148,600	154,123	159,794	165,892
Hunt	1,139,320	1,189,701	1,243,368	1,298,140	1,354,881	1,405,239	1,456,946	1,512,539
Kaufman	38,788	40,503	42,330	44,195	46,126	47,841	49,601	51,494
Van Zandt	453,916	473,989	495,370	517,192	539,798	559,861	580,462	602,610
Rains	166,765	174,140	181,995	190,012	198,317	205,688	213,257	221,394
Hopkins	132,445	138,302	144,541	150,908	157,504	163,358	169,369	175,831
Wood	660,015	689,201	720,291	752,020	784,891	814,063	844,018	876,223
Smith	588,039	614,042	641,741	670,011	699,297	725,288	751,976	780,669
Franklin	5,641	5,890	6,156	6,427	6,708	6,958	7,214	7,489
Upshur	210,199	219,494	229,395	239,500	249,969	259,259	268,799	279,056
Gregg	2,123,768	2,217,682	2,317,721	2,419,819	2,525,588	2,619,458	2,715,845	2,819,474
Rusk	396,708	414,250	432,937	452,008	471,765	489,300	507,304	526,661
Harrison	743,877	776,772	811,812	847,573	884,620	917,499	951,260	987,557
Panola	404,342	422,222	441,269	460,707	480,844	498,716	517,067	536,797
Total Upper Basin Benefits	\$ 7,284,522	\$ 7,606,648	\$ 7,949,783	\$ 8,299,978	\$ 8,662,767	\$ 8,984,741	\$ 9,315,347	\$ 9,670,793
Lower Basin								
Shelby	\$ 404,457	\$ 422,342	\$ 441,394	\$ 460,838	\$ 480,981	\$ 498,858	\$ 517,214	\$ 536,949
San Augustine	14,143	14,769	15,435	16,115	16,819	17,444	18,086	18,776
Sabine	159,313	166,358	173,862	181,521	189,455	196,497	203,727	211,501
Jasper	241,830	252,524	263,916	275,541	287,585	298,274	309,249	321,050
Newton	228,613	238,722	249,491	260,481	271,867	281,971	292,347	303,502
Orange	921,553	962,304	1,005,714	1,050,016	1,095,912	1,136,645	1,178,469	1,223,436
Total Lower Basin Benefits	\$ 1,969,909	\$ 2,057,020	\$ 2,149,812	\$ 2,244,513	\$ 2,342,620	\$ 2,429,689	\$ 2,519,093	\$ 2,615,214

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2028	2029	2030	2031	2032	2033	2034	2035
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)	\$ 73,859	\$ 76,695	\$ 79,640	\$ 82,697	\$ 85,873	\$ 89,170	\$ 92,593	\$ 96,149
Assumed increase in Households	3,828	3,978	4,128	4,237	4,346	4,455	4,565	4,676
Commerce from New Residents	\$ 282,759,093	\$ 305,073,258	\$ 328,746,151	\$ 350,359,699	\$ 373,183,402	\$ 397,279,807	\$ 422,714,547	\$ 449,556,482
SRA - Rusk								
Per Household Income (disposable, locally spent)	\$ 58,861	\$ 61,121	\$ 63,468	\$ 65,905	\$ 68,436	\$ 71,063	\$ 73,792	\$ 76,625
Assumed increase in Households	1,556	1,606	1,656	1,681	1,706	1,731	1,755	1,780
Commerce from New Residents	\$ 91,584,563	\$ 98,168,675	\$ 105,131,473	\$ 110,793,335	\$ 116,737,089	\$ 122,976,119	\$ 129,524,422	\$ 136,396,642
SRA - Hunt								
Per Household Income (disposable, locally spent)	\$ 63,552	\$ 65,992	\$ 68,526	\$ 71,157	\$ 73,889	\$ 76,726	\$ 79,672	\$ 82,731
Assumed increase in Households	9,454	10,074	10,703	11,575	12,466	13,376	14,306	15,257
Commerce from New Residents	600,820,797	664,780,920	733,447,479	823,644,975	921,094,893	1,026,307,146	1,139,825,358	1,262,229,031
Total Benefits	\$ 975,164,453	\$ 1,068,022,852	\$ 1,167,325,103	\$ 1,284,798,010	\$ 1,411,015,384	\$ 1,546,563,072	\$ 1,692,064,328	\$ 1,848,182,155
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 132,021	\$ 137,030	\$ 142,169	\$ 147,444	\$ 152,921	\$ 158,543	\$ 164,017	\$ 169,660
Rockwall	172,306	178,844	185,551	192,435	199,584	206,921	214,066	221,000
Hunt	1,571,026	1,630,630	1,691,782	1,754,551	1,819,733	1,886,627	1,951,777	2,018,611
Kaufman	53,485	55,514	57,596	59,733	61,952	64,230	66,448	68,665
Van Zandt	625,912	649,659	674,023	699,030	724,999	751,651	777,607	803,944
Rains	229,955	238,680	247,631	256,818	266,359	276,151	285,687	295,126
Hopkins	182,630	189,559	196,668	203,965	211,542	219,319	226,892	234,563
Wood	910,105	944,634	980,060	1,016,422	1,054,182	1,092,935	1,130,676	1,169,403
Smith	810,856	841,619	873,182	905,579	939,221	973,747	1,007,373	1,041,000
Franklin	7,778	8,073	8,376	8,687	9,010	9,341	9,664	10,000
Upshur	289,846	300,843	312,125	323,706	335,732	348,073	360,093	372,118
Gregg	2,928,497	3,039,602	3,153,594	3,270,600	3,392,103	3,516,798	3,638,242	3,766,404
Rusk	547,026	567,780	589,073	610,929	633,625	656,918	679,603	702,693
Harrison	1,025,744	1,064,660	1,104,588	1,145,571	1,188,128	1,231,805	1,274,342	1,318,229
Panola	557,553	578,707	600,409	622,686	645,819	669,559	692,681	716,200
Total Upper Basin Benefits	\$ 10,044,742	\$ 10,425,833	\$ 10,816,826	\$ 11,218,158	\$ 11,634,910	\$ 12,062,616	\$ 12,479,168	\$ 12,911,062
Lower Basin								
Shelby	\$ 557,712	\$ 578,871	\$ 600,580	\$ 622,863	\$ 646,003	\$ 669,750	\$ 692,878	\$ 716,403
San Augustine	19,502	20,242	21,001	21,781	22,590	23,420	24,229	25,065
Sabine	219,679	228,014	236,565	245,342	254,456	263,810	272,920	282,279
Jasper	333,464	346,115	359,095	372,419	386,254	400,453	414,282	428,466
Newton	315,238	327,198	339,468	352,063	365,143	378,565	391,638	404,553
Orange	1,270,744	1,318,955	1,368,419	1,419,191	1,471,913	1,526,022	1,578,719	1,631,101
Total Lower Basin Benefits	\$ 2,716,339	\$ 2,819,395	\$ 2,925,129	\$ 3,033,659	\$ 3,146,358	\$ 3,262,020	\$ 3,374,666	\$ 3,491,797

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2036	2037	2038	2039	2040	2041	2042	2043
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)	\$ 99,840	\$ 103,674	\$ 107,654	\$ 111,788	\$ 116,080	\$ 120,537	\$ 125,165	\$ 129,971
Assumed increase in Households	4,786	4,898	5,009	5,121	5,234	5,361	5,488	5,616
Commerce from New Residents	\$ 477,877,854	\$ 507,754,451	\$ 539,265,774	\$ 572,495,212	\$ 607,530,228	\$ 646,148,884	\$ 686,904,515	\$ 729,907,159
SRA - Rusk								
Per Household Income (disposable, locally spent)	\$ 79,567	\$ 82,622	\$ 85,794	\$ 89,089	\$ 92,509	\$ 96,061	\$ 99,749	\$ 103,579
Assumed increase in Households	1,805	1,830	1,855	1,879	1,904	1,972	2,041	2,109
Commerce from New Residents	\$ 143,608,091	\$ 151,174,786	\$ 159,113,477	\$ 167,441,678	\$ 176,177,709	\$ 189,472,958	\$ 203,552,398	\$ 218,457,610
SRA - Hunt								
Per Household Income (disposable, locally spent)	\$ 85,907	\$ 89,206	\$ 92,631	\$ 96,188	\$ 99,881	\$ 103,716	\$ 107,698	\$ 111,833
Assumed increase in Households	16,228	17,221	18,235	19,271	20,330	21,414	21,414	21,414
Commerce from New Residents	1,394,135,833	1,536,204,035	1,689,135,106	1,853,676,461	2,030,624,393	2,220,962,327	2,306,237,288	2,394,786,425
Total Benefits	\$ 2,015,621,778	\$ 2,195,133,272	\$ 2,387,514,356	\$ 2,593,613,352	\$ 2,814,332,330	\$ 3,056,584,169	\$ 3,196,694,202	\$ 3,343,151,193
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 156,460	\$ 160,517	\$ 164,899	\$ 169,086	\$ 173,063	\$ 177,127	\$ 181,282	\$ 185,530
Rockwall	204,203	209,497	215,217	220,682	225,872	231,177	236,599	242,143
Hunt	1,861,847	1,910,116	1,962,273	2,012,096	2,059,414	2,107,782	2,157,226	2,207,773
Kaufman	63,386	65,029	66,805	68,501	70,112	71,759	73,442	75,163
Van Zandt	741,778	761,009	781,789	801,639	820,491	839,761	859,460	879,598
Rains	272,523	279,589	287,223	294,516	301,442	308,522	315,759	323,158
Hopkins	216,438	222,049	228,113	233,905	239,405	245,028	250,776	256,652
Wood	1,078,579	1,106,542	1,136,757	1,165,619	1,193,031	1,221,051	1,249,694	1,278,976
Smith	960,957	985,871	1,012,791	1,038,506	1,062,928	1,087,892	1,113,412	1,139,501
Franklin	9,218	9,457	9,715	9,962	10,196	10,436	10,681	10,931
Upshur	343,501	352,407	362,030	371,222	379,951	388,875	397,997	407,323
Gregg	3,470,606	3,560,584	3,657,807	3,750,680	3,838,884	3,929,045	4,021,213	4,115,436
Rusk	648,289	665,097	683,257	700,605	717,081	733,923	751,139	768,740
Harrison	1,215,625	1,247,141	1,281,195	1,313,725	1,344,619	1,376,199	1,408,482	1,441,485
Panola	660,765	677,896	696,406	714,088	730,881	748,047	765,594	783,533
Total Upper Basin Benefits	\$ 11,904,177	\$ 12,212,801	\$ 12,546,277	\$ 12,864,832	\$ 13,167,371	\$ 13,476,623	\$ 13,792,757	\$ 14,115,943
Lower Basin								
Shelby	\$ 660,953	\$ 678,089	\$ 696,604	\$ 714,291	\$ 731,089	\$ 748,260	\$ 765,812	\$ 783,757
San Augustine	23,112	23,712	24,359	24,978	25,565	26,165	26,779	27,407
Sabine	260,345	267,095	274,388	281,355	287,971	294,735	301,648	308,717
Jasper	395,193	405,439	416,509	427,085	437,128	447,395	457,890	468,619
Newton	373,593	383,279	393,744	403,742	413,236	422,942	432,863	443,006
Orange	1,505,978	1,545,021	1,587,209	1,627,509	1,665,782	1,704,905	1,744,899	1,785,785
Total Lower Basin Benefits	\$ 3,219,175	\$ 3,302,634	\$ 3,392,814	\$ 3,478,959	\$ 3,560,772	\$ 3,644,402	\$ 3,729,892	\$ 3,817,289

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2044	2045	2046	2047	2048	2049	2050	2051
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)	\$ 134,961	\$ 140,143	\$ 145,524	\$ 151,111	\$ 156,913	\$ 162,938	\$ 169,194	\$ 175,690
Assumed increase in Households	5,744	5,873	6,003	6,133	6,264	6,395	6,527	6,712
Commerce from New Residents	\$ 775,272,272	\$ 823,120,996	\$ 873,580,423	\$ 926,783,884	\$ 982,871,244	\$ 1,041,989,214	\$ 1,104,291,678	\$ 1,179,239,831
SRA - Rusk								
Per Household Income (disposable, locally spent)	\$ 107,556	\$ 111,686	\$ 115,974	\$ 120,427	\$ 125,051	\$ 129,852	\$ 134,838	\$ 140,015
Assumed increase in Households	2,178	2,247	2,316	2,385	2,455	2,525	2,595	2,759
Commerce from New Residents	\$ 234,232,250	\$ 250,922,156	\$ 268,575,444	\$ 287,242,622	\$ 306,976,706	\$ 327,833,335	\$ 349,870,901	\$ 386,235,373
SRA - Hunt								
Per Household Income (disposable, locally spent)	\$ 116,127	\$ 120,586	\$ 125,216	\$ 130,023	\$ 135,016	\$ 140,200	\$ 145,583	\$ 151,172
Assumed increase in Households	21,414	21,414	21,414	21,414	21,414	21,414	22,060	22,060
Commerce from New Residents	2,486,735,449	2,582,214,903	2,681,360,339	2,784,312,513	2,891,217,587	3,002,227,335	3,211,495,173	3,334,802,140
Total Benefits	\$ 3,496,239,972	\$ 3,656,258,056	\$ 3,823,516,206	\$ 3,998,339,019	\$ 4,181,065,537	\$ 4,372,049,884	\$ 4,665,657,753	\$ 4,900,277,344
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 189,873	\$ 195,282	\$ 200,844	\$ 206,564	\$ 212,445	\$ 218,335	\$ 224,186	\$ 230,214
Rockwall	247,811	254,871	262,130	269,595	277,272	284,958	292,594	300,462
Hunt	2,259,449	2,323,820	2,390,008	2,458,070	2,528,060	2,598,142	2,667,767	2,739,502
Kaufman	76,922	79,114	81,367	83,684	86,067	88,453	90,823	93,265
Van Zandt	900,187	925,833	952,203	979,319	1,007,204	1,035,125	1,062,865	1,091,444
Rains	330,722	340,144	349,832	359,794	370,039	380,297	390,488	400,988
Hopkins	262,659	270,142	277,837	285,749	293,885	302,032	310,126	318,465
Wood	1,308,913	1,346,203	1,384,546	1,423,975	1,464,521	1,505,120	1,545,454	1,587,010
Smith	1,166,173	1,199,396	1,233,558	1,268,687	1,304,811	1,340,983	1,376,918	1,413,943
Franklin	11,187	11,506	11,833	12,170	12,517	12,864	13,208	13,564
Upshur	416,857	428,733	440,945	453,501	466,414	479,344	492,190	505,424
Gregg	4,211,764	4,331,755	4,455,134	4,582,005	4,712,472	4,843,110	4,972,895	5,106,614
Rusk	786,733	809,147	832,193	855,892	880,263	904,665	928,908	953,886
Harrison	1,475,225	1,517,254	1,560,469	1,604,907	1,650,605	1,696,363	1,741,821	1,788,658
Panola	801,873	824,718	848,208	872,363	897,202	922,075	946,784	972,243
Total Upper Basin Benefits	\$ 14,446,348	\$ 14,857,917	\$ 15,281,108	\$ 15,716,275	\$ 16,163,775	\$ 16,611,865	\$ 17,057,027	\$ 17,515,682
Lower Basin								
Shelby	\$ 802,102	\$ 824,953	\$ 848,450	\$ 872,611	\$ 897,458	\$ 922,337	\$ 947,054	\$ 972,520
San Augustine	28,048	28,847	29,669	30,514	31,383	32,253	33,117	34,007
Sabine	315,943	324,944	334,199	343,716	353,503	363,303	373,038	383,069
Jasper	479,588	493,251	507,300	521,746	536,603	551,478	566,257	581,483
Newton	453,375	466,291	479,572	493,229	507,274	521,336	535,307	549,701
Orange	1,827,584	1,879,651	1,933,188	1,988,240	2,044,852	2,101,540	2,157,856	2,215,880
Total Lower Basin Benefits	\$ 3,906,638	\$ 4,017,937	\$ 4,132,378	\$ 4,250,057	\$ 4,371,072	\$ 4,492,246	\$ 4,612,629	\$ 4,736,660

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
Task 2: Socioeconomic Impacts
Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
Schedule 2

ANNUAL CALCULATION - SRA

	2052	2053	2054	2055	2056	2057	2058	2059
Benefits to SRA								
Commerce from New Residents ⁽¹⁾								
SRA - Harrison								
Per Household Income (disposable, locally spent)	\$ 182,436	\$ 189,441	\$ 196,714	\$ 204,267	\$ 212,110	\$ 220,254	\$ 228,711	\$ 237,493
Assumed increase in Households	6,898	7,086	7,274	7,464	7,655	7,847	8,040	8,234
Commerce from New Residents	\$ 1,258,515,133	\$ 1,342,348,277	\$ 1,430,981,688	\$ 1,524,670,102	\$ 1,623,681,172	\$ 1,728,296,102	\$ 1,838,810,317	\$ 1,955,534,158
SRA - Rusk								
Per Household Income (disposable, locally spent)	\$ 145,391	\$ 150,974	\$ 156,770	\$ 162,790	\$ 169,040	\$ 175,530	\$ 182,270	\$ 189,268
Assumed increase in Households	2,924	3,090	3,258	3,427	3,597	3,769	3,942	4,116
Commerce from New Residents	\$ 425,064,260	\$ 466,501,945	\$ 510,700,670	\$ 557,820,949	\$ 608,031,997	\$ 661,512,185	\$ 718,449,513	\$ 779,042,109
SRA - Hunt								
Per Household Income (disposable, locally spent)	\$ 156,977	\$ 163,004	\$ 169,263	\$ 175,761	\$ 182,510	\$ 189,517	\$ 196,794	\$ 204,350
Assumed increase in Households	22,060	22,060	22,060	22,060	22,060	22,060	22,060	22,060
Commerce from New Residents	3,462,843,539	3,595,801,153	3,733,863,740	3,877,227,309	4,026,095,395	4,180,679,345	4,341,198,624	4,507,881,121
Total Benefits	\$ 5,146,422,933	\$ 5,404,651,375	\$ 5,675,546,098	\$ 5,959,718,361	\$ 6,257,808,564	\$ 6,570,487,633	\$ 6,898,458,454	\$ 7,242,457,387
Economic Development ⁽²⁾								
Upper Basin								
Collin	\$ 236,425	\$ 242,824	\$ 249,417	\$ 256,210	\$ 263,209	\$ 270,420	\$ 277,849	\$ 285,504
Rockwall	308,568	316,920	325,525	334,391	343,525	352,937	362,633	372,624
Hunt	2,813,411	2,889,560	2,968,017	3,048,852	3,132,137	3,217,946	3,306,357	3,397,446
Kaufman	95,782	98,374	101,045	103,797	106,632	109,554	112,564	115,665
Van Zandt	1,120,891	1,151,229	1,182,487	1,214,693	1,247,874	1,282,061	1,317,285	1,353,576
Rains	411,806	422,952	434,436	446,268	458,459	471,019	483,960	497,293
Hopkins	327,057	335,909	345,030	354,427	364,108	374,084	384,361	394,950
Wood	1,629,826	1,673,940	1,719,390	1,766,219	1,814,466	1,864,176	1,915,393	1,968,161
Smith	1,452,090	1,491,392	1,531,887	1,573,608	1,616,594	1,660,883	1,706,514	1,753,528
Franklin	13,930	14,307	14,695	15,095	15,508	15,932	16,370	16,821
Upshur	519,060	533,109	547,584	562,498	577,864	593,695	610,006	626,812
Gregg	5,244,385	5,386,332	5,532,581	5,683,263	5,838,512	5,998,466	6,163,268	6,333,065
Rusk	979,621	1,006,136	1,033,454	1,061,601	1,090,600	1,120,479	1,151,263	1,182,980
Harrison	1,836,914	1,886,633	1,937,859	1,990,637	2,045,015	2,101,041	2,158,765	2,218,239
Panola	998,473	1,025,498	1,053,342	1,082,030	1,111,588	1,142,042	1,173,418	1,205,746
Total Upper Basin Benefits	\$ 17,988,237	\$ 18,475,116	\$ 18,976,750	\$ 19,493,589	\$ 20,026,093	\$ 20,574,735	\$ 21,140,007	\$ 21,722,411
Lower Basin								
Shelby	\$ 998,757	\$ 1,025,790	\$ 1,053,642	\$ 1,082,339	\$ 1,111,905	\$ 1,142,367	\$ 1,173,752	\$ 1,206,089
San Augustine	34,925	35,870	36,844	37,848	38,882	39,947	41,044	42,175
Sabine	393,404	404,052	415,023	426,326	437,972	449,971	462,333	475,070
Jasper	597,171	613,334	629,987	647,145	664,823	683,037	701,803	721,137
Newton	564,531	579,811	595,554	611,774	628,486	645,704	663,444	681,722
Orange	2,275,662	2,337,256	2,400,717	2,466,102	2,533,468	2,602,876	2,674,387	2,748,066
Total Lower Basin Benefits	\$ 4,864,450	\$ 4,996,114	\$ 5,131,768	\$ 5,271,534	\$ 5,415,535	\$ 5,563,901	\$ 5,716,764	\$ 5,874,260

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION - SRA

	2060	Total
Benefits to SRA		
Commerce from New Residents ⁽¹⁾		
SRA - Harrison		
Per Household Income (disposable, locally spent)	\$ 246,611	
Assumed increase in Households	8,429	
Commerce from New Residents	\$ 2,078,793,616	\$ 32,194,396,126
SRA - Rusk		
Per Household Income (disposable, locally spent)	\$ 196,535	
Assumed increase in Households	4,292	
Commerce from New Residents	\$ 843,498,754	\$ 10,987,332,429
SRA - Hunt		
Per Household Income (disposable, locally spent)	\$ 212,196	
Assumed increase in Households	22,060	
Commerce from New Residents	4,680,963,476	\$ 85,607,033,365
Total Benefits	\$ 7,603,255,845	\$ 128,788,761,920
Economic Development ⁽²⁾		
Upper Basin		
Collin	\$ 293,391	\$ 7,980,366
Rockwall	382,917	10,415,522
Hunt	3,491,297	94,964,867
Kaufman	118,860	3,233,044
Van Zandt	1,390,967	37,834,935
Rains	511,030	13,900,256
Hopkins	405,860	11,039,589
Wood	2,022,530	55,013,728
Smith	1,801,968	49,014,343
Franklin	17,286	470,184
Upshur	644,127	17,520,541
Gregg	6,508,009	177,020,821
Rusk	1,215,659	33,066,469
Harrison	2,279,515	62,003,856
Panola	1,239,053	33,702,807
Total Upper Basin Benefits	\$ 22,322,467	\$ 607,181,328
Lower Basin		
Shelby	\$ 1,239,406	\$ 33,712,405
San Augustine	43,340	1,178,869
Sabine	488,194	13,279,094
Jasper	741,058	20,157,113
Newton	700,554	19,055,388
Orange	2,823,979	76,813,508
Total Lower Basin Benefits	\$ 6,036,530	\$ 164,196,377

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) Economic development is based on payments to SRA for M&O and Interbasin Fee as shown on Schedule 5
- (3) IMPLAN 2007 Texas County database
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 3

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.926	0.857	0.794	0.735	0.681	0.630	0.583	0.540	0.500	0.463
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Benefits to SRA										
Commerce from New Residents										
SRA - Harrison										
Commerce from New Residents								\$ 46,485,024	\$ 49,701,345	\$ 52,637,936
SRA - Rusk										
Commerce from New Residents								16,261,084	17,350,887	18,340,262
SRA - Hunt										
Commerce from New Residents								68,159,417	74,372,184	80,115,761
Total Benefits								\$ 130,905,525	\$ 141,424,416	\$ 151,093,959
Economic Development										
Upper Basin	\$ 2,770,219	\$ 3,555,519	\$ 3,506,875	\$ 3,468,042	\$ 3,493,578	\$ 3,524,109	\$ 3,381,059	\$ 3,325,117	\$ 3,209,927	\$ 3,094,558
Lower Basin	749,134	961,498	948,343	937,842	944,747	953,003	914,319	899,191	868,041	836,843
Total Benefits	\$ 3,519,353	\$ 4,517,016	\$ 4,455,219	\$ 4,405,884	\$ 4,438,326	\$ 4,477,112	\$ 4,295,378	\$ 4,224,309	\$ 4,077,969	\$ 3,931,401
Economic Development for Easement Acquisition ⁽²⁾										
Upper Basin		\$ -	\$ 3,120,804							
Lower Basin		1,787,247	-							
Total Benefits		\$ 1,787,247	\$ 3,120,804							

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 3

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.429	0.397	0.368	0.340	0.315	0.292	0.270	0.250	0.232	0.215
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Benefits to SRA										
Commerce from New Residents										
SRA - Harrison										
Commerce from New Residents	\$ 55,310,421	\$ 57,733,674	\$ 58,499,167	\$ 59,134,996	\$ 59,649,513	\$ 60,050,636	\$ 60,345,868	\$ 60,542,319	\$ 60,646,723	\$ 60,665,456
SRA - Rusk										
Commerce from New Residents	19,235,070	20,040,876	20,086,508	20,100,883	20,086,269	20,044,810	19,978,528	19,889,332	19,779,025	19,649,304
SRA - Hunt										
Commerce from New Residents	85,414,202	90,290,477	96,606,488	102,452,833	107,852,837	112,828,804	117,402,061	121,592,999	125,421,110	128,905,025
Total Benefits	\$ 159,959,694	\$ 168,065,027	\$ 175,192,163	\$ 181,688,712	\$ 187,588,619	\$ 192,924,250	\$ 197,726,457	\$ 202,024,650	\$ 205,846,857	\$ 209,219,785
Economic Development										
Upper Basin										
	\$ 2,988,725	\$ 2,892,784	\$ 2,796,949	\$ 2,706,592	\$ 2,616,499	\$ 2,528,579	\$ 2,428,296	\$ 2,331,157	\$ 2,240,839	\$ 2,155,081
Lower Basin										
	808,223	782,278	756,362	731,927	707,564	683,788	656,670	630,401	605,977	582,786
Total Benefits	\$ 3,796,948	\$ 3,675,062	\$ 3,553,311	\$ 3,438,519	\$ 3,324,063	\$ 3,212,367	\$ 3,084,966	\$ 2,961,557	\$ 2,846,816	\$ 2,737,867
Economic Development for Easement Acquisition ⁽²⁾										
Upper Basin										
Lower Basin										
Total Benefits										

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 3

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.199	0.184	0.170	0.158	0.146	0.135	0.125	0.116	0.107	0.099
	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Benefits to SRA										
Commerce from New Residents										
SRA - Harrison										
Commerce from New Residents	\$ 60,604,556	\$ 60,469,734	\$ 59,671,612	\$ 58,850,775	\$ 58,009,965	\$ 57,151,752	\$ 56,278,546	\$ 55,392,600	\$ 54,496,026	\$ 53,590,794
SRA - Rusk										
Commerce from New Residents	19,501,771	19,337,936	18,869,798	18,409,362	17,956,715	17,511,930	17,075,062	16,646,148	16,225,215	15,812,273
SRA - Hunt										
Commerce from New Residents	132,062,551	134,910,701	140,279,328	145,256,054	149,859,219	154,106,399	158,014,436	161,599,472	164,876,968	167,861,741
Total Benefits	\$ 212,168,878	\$ 214,718,371	\$ 218,820,738	\$ 222,516,191	\$ 225,825,900	\$ 228,770,082	\$ 231,368,044	\$ 233,638,220	\$ 235,598,208	\$ 237,264,808
Economic Development										
Upper Basin										
Upper Basin	\$ 2,071,152	\$ 1,989,652	\$ 1,910,624	\$ 1,834,818	\$ 1,761,358	\$ 1,687,206	\$ 1,449,796	\$ 1,379,857	\$ 1,310,770	\$ 1,246,816
Lower Basin										
Lower Basin	560,089	538,050	516,678	496,179	476,313	456,261	392,060	373,146	354,464	337,169
Total Benefits	\$ 2,631,241	\$ 2,527,702	\$ 2,427,302	\$ 2,330,996	\$ 2,237,671	\$ 2,143,466	\$ 1,841,856	\$ 1,753,004	\$ 1,665,233	\$ 1,583,984
Economic Development for Easement Acquisition ⁽²⁾										
Upper Basin										
Lower Basin										
Total Benefits										

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 3

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.092	0.085	0.079	0.073	0.068	0.063	0.058	0.054	0.050	0.046
	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Benefits to SRA										
Commerce from New Residents										
SRA - Harrison										
Commerce from New Residents	\$ 52,678,747	\$ 51,761,603	\$ 50,973,994	\$ 50,175,151	\$ 49,366,937	\$ 48,551,098	\$ 47,729,263	\$ 46,902,953	\$ 46,073,585	\$ 45,242,481
SRA - Rusk										
Commerce from New Residents	15,407,322	15,010,349	14,947,319	14,868,547	14,775,281	14,668,695	14,549,902	14,419,945	14,279,810	14,130,424
SRA - Hunt										
Commerce from New Residents	170,567,983	173,009,290	175,209,343	168,459,809	161,970,285	155,730,755	149,731,588	143,963,525	138,417,664	133,085,444
Total Benefits	\$ 238,654,052	\$ 239,781,241	\$ 241,130,656	\$ 233,503,507	\$ 226,112,502	\$ 218,950,548	\$ 212,010,752	\$ 205,286,423	\$ 198,771,059	\$ 192,458,349
Economic Development										
Upper Basin										
	\$ 1,183,771	\$ 1,121,861	\$ 1,063,156	\$ 1,007,496	\$ 954,725	\$ 904,696	\$ 861,547	\$ 820,450	\$ 781,310	\$ 744,034
Lower Basin										
	320,120	303,378	287,503	272,451	258,181	244,652	232,983	221,869	211,285	201,205
Total Benefits	\$ 1,503,891	\$ 1,425,239	\$ 1,350,659	\$ 1,279,947	\$ 1,212,906	\$ 1,149,348	\$ 1,094,530	\$ 1,042,319	\$ 992,594	\$ 945,238
Economic Development for Easement Acquisition ⁽²⁾										
Upper Basin										
Lower Basin										
Total Benefits										

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 3

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.043	0.039	0.037	0.034	0.031	0.029	0.027	0.025	0.023	0.021
	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Benefits to SRA										
Commerce from New Residents										
SRA - Harrison										
Commerce from New Residents	\$ 44,410,867	\$ 43,579,884	\$ 43,090,413	\$ 42,580,740	\$ 42,052,925	\$ 41,508,909	\$ 40,950,516	\$ 40,379,459	\$ 39,797,348	\$ 39,205,695
SRA - Rusk										
Commerce from New Residents	13,972,661	13,807,342	14,113,365	14,381,671	14,614,517	14,814,046	14,982,294	15,121,197	15,232,593	15,318,226
SRA - Hunt										
Commerce from New Residents	127,958,635	126,738,786	121,856,468	117,162,230	112,648,826	108,309,291	104,136,926	100,125,292	96,268,197	92,559,688
Total Benefits	\$ 186,342,164	\$ 184,126,012	\$ 179,060,245	\$ 174,124,640	\$ 169,316,268	\$ 164,632,246	\$ 160,069,736	\$ 155,625,948	\$ 151,298,138	\$ 147,083,609
Economic Development										
Upper Basin	\$ 708,018	\$ 673,140	\$ 640,038	\$ 608,616	\$ 578,786	\$ 550,464	\$ 523,571	\$ 498,031	\$ 473,773	\$ 450,731
Lower Basin	191,465	182,033	173,082	164,584	156,518	148,859	141,586	134,679	128,120	121,888
Total Benefits	\$ 899,483	\$ 855,174	\$ 813,119	\$ 773,200	\$ 735,304	\$ 699,323	\$ 665,157	\$ 632,710	\$ 601,892	\$ 572,619
Economic Development for Easement Acquisition ⁽²⁾										
Upper Basin										
Lower Basin										
Total Benefits										

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

PRESENT VALUE CALCULATION - SRA

Discount factor ⁽¹⁾	0.020	0.018	
	2059	2060	Total
Benefits to SRA			
Commerce from New Residents			
SRA - Harrison			
Commerce from New Residents	\$ 38,605,917	\$ 37,999,343	\$ 2,299,537,265
SRA - Rusk			
Commerce from New Residents	15,379,754	15,418,750	752,403,058
SRA - Hunt			
Commerce from New Residents	88,994,040	85,565,751	5,672,710,883
Total Benefits	\$ 142,979,712	\$ 138,983,844	\$ 8,724,651,206
Economic Development			
Upper Basin	\$ 428,841	\$ 408,044	\$ 91,641,653
Lower Basin	115,969	110,345	24,782,098
Total Benefits	\$ 544,810	\$ 518,389	\$ 116,423,751
Economic Development for Easement Acquisition ⁽²⁾			
Upper Basin		\$	3,120,804
Lower Basin			1,787,247
Total Benefits			\$ 4,908,050

(1) Discount Factor at 8% based on 30 year average for 30 year T-Bills

(2) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design

ANNUAL CALCULATION

Benefits to Receiving Basin

Commerce from New Residents

DWU

Per Household Income (disposable, locally spent)
 Assumed increase in population ⁽¹⁾
 Commerce from New Residents

NTMWD

Per Household Income (disposable, locally spent)
 Assumed increase in households ⁽¹⁾
 Commerce from New Residents

TRWD

Per Household Income (disposable, locally spent)
 Assumed increase in households ⁽¹⁾
 Commerce from New Residents

	Income			Multiplier effect (ME)	Income per year w/ ME	Year of Value	First Year of Impact	Last Year of Impact
	Per Household ⁽²⁾	Disposable ⁽²⁾	Locally Spent ⁽²⁾					
	\$ 122,525	68.30%	46.50%	1.51	\$ 58,871	2007	2019	
							2019	
	\$ 96,115	71.45%	41.72%	1.50	\$ 42,838	2007	2016	2060
							2016	2060
	\$ 103,445	71.38%	47.16%	1.54	\$ 53,729	2007	2027	2060
							2027	2060

Inflation rate 3.84% ⁽⁴⁾

2011	2012	2013
------	------	------

Total Benefits

PRESENT VALUE CALCULATION

Discount factor

0.794	0.735	0.681
2011	2012	2013

Benefits to Receiving Basin

Commerce from New Residents

Dallas (DWU)

Commerce from New Residents

Collin (NTMWD)

Commerce from New Residents

Tarrant (TRWD) (3)

Commerce from New Residents/Easement Acquisition

\$ -	-	-
-		
1,193,328		
\$ 1,193,328		

Total Benefits

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 4

ANNUAL CALCULATION

	2014	2015	2016	2017	2018	2019	2020	2021
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)		\$ 82,635	\$ 85,808	\$ 89,103	\$ 92,524	\$ 96,076	\$ 99,765	
Assumed increase in population ⁽¹⁾		-	-	-	18,494	18,870	32,536	
Commerce from New Residents	\$ -	\$ -	\$ -	\$ -	\$ 1,711,123,492	\$ 1,812,956,084	\$ 3,245,986,575	
NTMWD								
Per Household Income (disposable, locally spent)		\$ 60,131	\$ 62,439	\$ 64,837	\$ 67,326	\$ 69,911	\$ 72,595	
Assumed increase in households ⁽¹⁾		12,568	25,136	37,703	48,151	58,286	68,679	
Commerce from New Residents	\$ 755,746,322	\$ 1,569,457,331	\$ 2,444,539,891	\$ 3,241,820,131	\$ 4,074,868,813	\$ 4,985,768,468		
TRWD								
Per Household Income (disposable, locally spent)		\$ 75,418	\$ 78,314	\$ 81,321	\$ 84,443	\$ 87,685	\$ 91,052	
Assumed increase in households ⁽¹⁾		-	-	-	-	-	-	
Commerce from New Residents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Benefits		\$ 755,746,322	\$ 1,569,457,331	\$ 2,444,539,891	\$ 4,952,943,623	\$ 5,887,824,897	\$ 8,231,755,043	

PRESENT VALUE CALCULATION

Discount factor	0.630	0.583	0.540	0.500	0.463	0.429	0.397	0.368
	2014	2015	2016	2017	2018	2019	2020	2021
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)			-	-	-	733,871,536	719,949,805	1,193,542,527
Commerce from New Residents								
Collin (NTMWD)			408,306,222	785,119,409	1,132,294,959	1,390,361,087	1,618,186,470	1,833,256,718
Commerce from New Residents								
Tarrant (TRWD) (3)								
Commerce from New Residents/Easement Acquisition			-	-	-	-	-	-
Total Benefits		\$ 408,306,222	\$ 785,119,409	\$ 1,132,294,959	\$ 2,124,232,623	\$ 2,338,136,275	\$ 3,026,799,246	

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 4

ANNUAL CALCULATION

	2022	2023	2024	2025	2026	2027	2028	2029
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)	\$ 103,596	\$ 107,573	\$ 111,704	\$ 115,992	\$ 120,446	\$ 125,071	\$ 129,873	\$ 134,859
Assumed increase in population ⁽¹⁾	46,204	59,872	73,539	87,205	100,873	114,541	128,208	141,978
Commerce from New Residents	\$ 4,786,523,436	\$ 6,440,574,386	\$ 8,214,585,204	\$ 10,115,177,913	\$ 12,149,766,183	\$ 14,325,680,583	\$ 16,650,774,269	\$ 19,147,024,102
NTMWD								
Per Household Income (disposable, locally spent)	\$ 75,383	\$ 78,277	\$ 81,283	\$ 84,404	\$ 87,644	\$ 91,009	\$ 94,504	\$ 98,132
Assumed increase in households ⁽¹⁾	79,070	89,463	99,855	110,246	120,639	131,030	141,422	151,559
Commerce from New Residents	\$ 5,960,525,930	\$ 7,002,872,982	\$ 8,116,475,816	\$ 9,305,175,695	\$ 10,573,289,103	\$ 11,924,963,143	\$ 13,364,951,420	\$ 14,872,810,671
TRWD								
Per Household Income (disposable, locally spent)	\$ 94,548	\$ 98,178	\$ 101,948	\$ 105,862	\$ 109,927	\$ 114,147	\$ 118,530	\$ 123,081
Assumed increase in households ⁽¹⁾	-	-	-	-	-	8,613	19,658	31,412
Commerce from New Residents	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 983,185,215	\$ 2,330,098,807	\$ 3,866,188,631
Total Benefits	\$ 10,747,049,366	\$ 13,443,447,368	\$ 16,331,061,019	\$ 19,420,353,609	\$ 22,723,055,286	\$ 27,233,828,941	\$ 32,345,824,496	\$ 37,886,023,405

PRESENT VALUE CALCULATION

Discount factor	0.340	0.315	0.292	0.270	0.250	0.232	0.215	0.199
	2022	2023	2024	2025	2026	2027	2028	2029
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)	1,629,624,753	2,030,337,650	2,397,759,116	2,733,818,528	3,040,467,191	3,319,433,016	3,572,393,771	3,803,666,387
Commerce from New Residents								
Collin (NTMWD)	2,029,326,865	2,207,597,619	2,369,121,921	2,514,900,078	2,645,955,333	2,763,157,823	2,867,426,369	2,954,569,323
Commerce from New Residents								
Tarrant (TRWD) (3)	-	-	-	-	-	227,815,875	499,918,522	768,040,593
Commerce from New Residents/Easement Acquisition								
Total Benefits	\$ 3,658,951,619	\$ 4,237,935,269	\$ 4,766,881,037	\$ 5,248,718,607	\$ 5,686,422,524	\$ 6,310,406,714	\$ 6,939,738,663	\$ 7,526,276,303

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 4

ANNUAL CALCULATION

	2030	2031	2032	2033	2034	2035	2036	2037
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)	\$ 140,037	\$ 145,414	\$ 150,997	\$ 156,795	\$ 162,815	\$ 169,067	\$ 175,558	\$ 182,299
Assumed increase in population ⁽¹⁾	158,958	173,011	187,066	201,119	215,174	229,227	243,281	257,335
Commerce from New Residents	\$ 22,260,087,113	\$ 25,158,306,857	\$ 28,246,468,794	\$ 31,534,476,180	\$ 35,033,548,474	\$ 38,754,604,248	\$ 42,709,990,512	\$ 46,911,739,420
NTMWD								
Per Household Income (disposable, locally spent)	\$ 101,900	\$ 105,813	\$ 109,875	\$ 114,094	\$ 118,475	\$ 123,024	\$ 127,747	\$ 132,652
Assumed increase in households ⁽¹⁾	159,563	167,734	176,062	184,550	193,202	202,020	211,007	220,168
Commerce from New Residents	\$ 16,259,531,981	\$ 17,748,380,428	\$ 19,344,866,649	\$ 21,056,070,041	\$ 22,889,513,843	\$ 24,853,192,214	\$ 26,955,598,949	\$ 29,205,757,905
TRWD								
Per Household Income (disposable, locally spent)	\$ 127,807	\$ 132,714	\$ 137,810	\$ 143,101	\$ 148,595	\$ 154,301	\$ 160,225	\$ 166,377
Assumed increase in households ⁽¹⁾	43,478	55,317	67,155	78,994	90,832	102,671	114,509	126,348
Commerce from New Residents	\$ 5,556,833,752	\$ 7,341,409,429	\$ 9,254,625,025	\$ 11,304,150,989	\$ 13,497,195,095	\$ 15,842,212,810	\$ 18,347,167,809	\$ 21,021,376,470
Total Benefits	\$ 44,076,452,847	\$ 50,248,096,714	\$ 56,845,960,467	\$ 63,894,697,210	\$ 71,420,257,412	\$ 79,450,009,272	\$ 88,012,757,269	\$ 97,138,873,796

PRESENT VALUE CALCULATION

Discount factor	0.184	0.170	0.158	0.146	0.135	0.125	0.116	0.107
	2030	2031	2032	2033	2034	2035	2036	2037
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)	4,094,531,710	4,284,844,185	4,454,449,410	4,604,598,144	4,736,597,546	4,851,565,602	4,950,673,911	5,034,920,611
Commerce from New Residents								
Collin (NTMWD)	2,990,786,557	3,022,820,458	3,050,672,651	3,074,563,233	3,094,702,644	3,111,292,059	3,124,523,767	3,134,581,541
Commerce from New Residents								
Tarrant (TRWD) (3)	1,022,126,818	1,250,354,234	1,459,448,233	1,650,608,444	1,824,844,583	1,983,236,217	2,126,688,485	2,256,172,186
Commerce from New Residents/Easement Acquisition								
Total Benefits	\$ 8,107,445,085	\$ 8,558,018,877	\$ 8,964,570,294	\$ 9,329,769,822	\$ 9,656,144,774	\$ 9,946,093,878	\$ 10,201,886,163	\$ 10,425,674,338

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 4

ANNUAL CALCULATION

	2038	2039	2040	2041	2042	2043	2044	2045
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)	\$ 189,298	\$ 196,566	\$ 204,114	\$ 211,951	\$ 220,089	\$ 228,539	\$ 237,314	\$ 246,426
Assumed increase in population ⁽¹⁾	266,411	266,411	270,496	270,496	270,496	270,496	270,496	270,496
Commerce from New Residents	\$ 50,431,127,685	\$ 52,367,456,106	\$ 55,211,804,531	\$ 57,331,689,435	\$ 59,532,968,383	\$ 61,818,766,539	\$ 64,192,329,061	\$ 66,657,025,706
NTMWD								
Per Household Income (disposable, locally spent)	\$ 137,745	\$ 143,034	\$ 148,526	\$ 154,229	\$ 160,150	\$ 166,300	\$ 172,685	\$ 179,315
Assumed increase in households ⁽¹⁾	226,498	226,498	231,080	231,080	231,080	231,080	231,080	231,080
Commerce from New Residents	\$ 31,198,990,281	\$ 32,396,891,148	\$ 34,321,351,934	\$ 35,639,137,442	\$ 37,007,519,985	\$ 38,428,442,261	\$ 39,903,921,560	\$ 41,436,052,626
TRWD								
Per Household Income (disposable, locally spent)	\$ 172,765	\$ 179,399	\$ 186,287	\$ 193,439	\$ 200,867	\$ 208,579	\$ 216,588	\$ 224,904
Assumed increase in households ⁽¹⁾	138,185	153,598	169,889	185,382	200,875	216,370	231,863	247,356
Commerce from New Residents	\$ 23,873,632,539	\$ 27,555,370,580	\$ 31,648,097,789	\$ 35,860,203,797	\$ 40,349,105,563	\$ 45,130,164,602	\$ 50,218,554,960	\$ 55,631,156,371
Total Benefits	\$ 105,503,750,505	\$ 112,319,717,834	\$ 121,181,254,254	\$ 128,831,030,674	\$ 136,889,593,931	\$ 145,377,373,402	\$ 154,314,805,582	\$ 163,724,234,703

PRESENT VALUE CALCULATION

Discount factor	0.099	0.092	0.085	0.079	0.073	0.068	0.063	0.058
	2038	2039	2040	2041	2042	2043	2044	2045
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)	5,011,710,947	4,818,646,389	4,704,048,233	4,522,835,669	4,348,603,899	4,181,084,005	4,020,017,427	3,865,155,565
Commerce from New Residents								
Collin (NTMWD)	3,100,472,432	2,981,033,912	2,924,180,731	2,811,533,440	2,703,225,626	2,599,090,119	2,498,966,191	2,402,699,306
Commerce from New Residents								
Tarrant (TRWD) (3)	2,372,497,920	2,535,536,320	2,696,419,357	2,828,973,129	2,947,312,767	3,052,358,045	3,144,915,741	3,225,812,604
Commerce from New Residents/Easement Acquisition								
Total Benefits	\$ 10,484,681,299	\$ 10,335,216,621	\$ 10,324,648,322	\$ 10,163,342,239	\$ 9,999,142,293	\$ 9,832,532,169	\$ 9,663,899,359	\$ 9,493,667,475

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
 Task 2: Socioeconomic Impacts
 Economic Impact of Toledo Bend Interbasin Transfer

Scenario 1
 Schedule 4

ANNUAL CALCULATION

	2046	2047	2048	2049	2050	2051	2052	2053
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)	\$ 255,887	\$ 265,712	\$ 275,914	\$ 286,508	\$ 297,509	\$ 308,932	\$ 320,793	\$ 333,110
Assumed increase in population ⁽¹⁾	270,496	270,496	270,496	270,496	271,746	271,746	271,746	271,746
Commerce from New Residents	\$ 69,216,355,613	\$ 71,873,952,275	\$ 74,633,588,692	\$ 77,499,182,733	\$ 80,846,836,226	\$ 83,950,991,019	\$ 87,174,331,392	\$ 90,521,433,533
NTMWD								
Per Household Income (disposable, locally spent)	\$ 186,200	\$ 193,349	\$ 200,773	\$ 208,482	\$ 216,486	\$ 224,798	\$ 233,430	\$ 242,392
Assumed increase in households ⁽¹⁾	231,080	231,080	231,080	231,080	234,565	234,565	234,565	234,565
Commerce from New Residents	\$ 43,027,010,633	\$ 44,679,054,269	\$ 46,394,528,949	\$ 48,175,870,138	\$ 50,780,125,907	\$ 52,729,854,290	\$ 54,754,443,471	\$ 56,856,767,769
TRWD								
Per Household Income (disposable, locally spent)	\$ 233,539	\$ 242,506	\$ 251,817	\$ 261,485	\$ 271,525	\$ 281,951	\$ 292,776	\$ 304,018
Assumed increase in households ⁽¹⁾	262,849	278,343	293,128	302,657	302,384	302,384	302,384	302,384
Commerce from New Residents	\$ 61,385,363,947	\$ 67,499,797,613	\$ 73,814,653,306	\$ 79,140,430,383	\$ 82,104,840,872	\$ 85,257,297,384	\$ 88,530,794,044	\$ 91,929,978,249
Total Benefits	\$ 173,628,730,193	\$ 184,052,804,157	\$ 194,842,770,947	\$ 204,815,483,254	\$ 213,731,803,005	\$ 221,938,142,694	\$ 230,459,568,908	\$ 239,308,179,551

PRESENT VALUE CALCULATION

Discount factor	0.054	0.050	0.046	0.043	0.039	0.037	0.034	0.031
	2046	2047	2048	2049	2050	2051	2052	2053
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)	3,716,259,398	3,573,099,111	3,435,453,743	3,303,110,844	3,190,548,119	3,067,639,642	2,949,465,929	2,835,844,584
Commerce from New Residents								
Collin (NTMWD)	2,310,140,880	2,221,148,052	2,135,583,468	2,053,315,060	2,003,992,274	1,926,793,113	1,852,567,870	1,781,201,984
Commerce from New Residents								
Tarrant (TRWD) (3)	3,295,809,692	3,355,644,976	3,397,757,383	3,373,062,845	3,240,194,148	3,115,373,172	2,995,360,635	2,879,971,304
Commerce from New Residents/Easement Acquisition								
Total Benefits	\$ 9,322,209,970	\$ 9,149,892,140	\$ 8,968,794,593	\$ 8,729,488,749	\$ 8,434,734,541	\$ 8,109,805,926	\$ 7,797,394,434	\$ 7,497,017,872

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

ANNUAL CALCULATION

	2054	2055	2056	2057	2058	2059	2060	Total
Benefits to Receiving Basin								
Commerce from New Residents								
DWU								
Per Household Income (disposable, locally spent)	\$ 345,900	\$ 359,181	\$ 372,972	\$ 387,293	\$ 402,163	\$ 417,604	\$ 433,638	
Assumed increase in population ⁽¹⁾	271,746	271,746	271,746	271,746	271,746	271,746	269,848	
Commerce from New Residents	\$ 93,997,049,339	\$ 97,606,113,155	\$ 101,353,748,785	\$ 105,245,276,764	\$ 109,286,221,909	\$ 113,482,321,168	\$ 117,016,410,541	\$ 2,210,456,374,415
NTMWD								
Per Household Income (disposable, locally spent)	\$ 251,699	\$ 261,363	\$ 271,398	\$ 281,819	\$ 292,639	\$ 303,876	\$ 315,543	
Assumed increase in households ⁽¹⁾	234,565	234,565	234,565	234,565	234,565	234,565	236,793	
Commerce from New Residents	\$ 59,039,811,861	\$ 61,306,675,026	\$ 63,660,575,537	\$ 66,104,855,239	\$ 68,642,984,284	\$ 71,278,566,066	\$ 74,718,522,386	\$ 1,428,988,130,789
TRWD								
Per Household Income (disposable, locally spent)	\$ 315,691	\$ 327,812	\$ 340,398	\$ 353,468	\$ 367,039	\$ 381,132	\$ 395,766	
Assumed increase in households ⁽¹⁾	302,384	302,384	302,384	302,384	302,384	302,384	300,750	
Commerce from New Residents	\$ 95,459,675,835	\$ 99,124,897,928	\$ 102,930,848,061	\$ 106,882,929,557	\$ 110,986,753,201	\$ 115,248,145,212	\$ 119,026,619,336	\$ 1,798,933,755,163
Total Benefits	\$ 248,496,537,035	\$ 258,037,686,109	\$ 267,945,172,384	\$ 278,233,061,559	\$ 288,915,959,394	\$ 300,009,032,446	\$ 310,761,552,263	\$ 5,438,378,260,367

PRESENT VALUE CALCULATION

Discount factor	0.029	0.027	0.025	0.023	0.021	0.020	0.018	Total
	2054							
Benefits to Receiving Basin								
Commerce from New Residents								
Dallas (DWU)	2,726,600,239	2,621,564,279	2,520,574,587	2,423,475,288	2,330,116,515	2,240,354,173	2,139,003,458	140,732,257,446
Commerce from New Residents								
Collin (NTMWD)	1,712,585,302	1,646,611,920	1,583,180,009	1,522,191,665	1,463,552,757	1,407,172,776	1,365,818,495	101,130,580,490
Commerce from New Residents								
Tarrant (TRWD) (3)	2,769,027,079	2,662,356,724	2,559,795,596	2,461,185,399	2,366,373,932	2,275,214,856	2,175,749,104	80,797,150,247
Commerce from New Residents/Easement Acquisition								
Total Benefits	\$ 7,208,212,620	\$ 6,930,532,923	\$ 6,663,550,192	\$ 6,406,852,353	\$ 6,160,043,203	\$ 5,922,741,805	\$ 5,680,571,058	\$ 322,659,988,183

Notes:

- (1) Lesser of annual TWDB population projections or annual increase in deliveries from pipeline project
- (2) IMPLAN 2007 Texas County database
- (3) Easement costs from March 2009 draft report from Freeze & Nichols - allocated to counties based on pipeline general design
- (4) Inflation rate based on average change in CPI from 2007 to 2008 held constant to provide conservative growth in locally spent household income

Region C and D Study Commission
Task 2: Socioeconomic Impacts
Economic Impact of Toledo Bend Interbasin Transfer
Computation of Maintenance Fee and Interbasin Transfer Fee

Scenario 1
Schedule 5

Notes:

- (1) Maintenance and operation expenses from Account V - Operations Branch - Toledo Bend Division plus 50% of maintenance and operation expenses from Account VI - Operations Branch - Toledo Bend Project Joint Operations. For Account V, debt service, water treatment plant expenses, and credit for contract for the Toledo Bend Project Joint Operations are excluded. For Account VI, debt service and contract for Toledo Bend Project Joint Operations are excluded.
- (2) TWDB loan included as the debt service
- (3) Inflation rates are based on CPI bi-annual averages from 1977 through 1983 and then years averages thereafter through 2008
- (4) Total raw water from Toledo Bend Reservoir that can be used for municipal, industrial and irrigation needs
- (5) Annual raw water requirements to be contracted for SRA, TRWD, and NTRWD.
- (6) Water needs based on 2003 report by Freeze & Nichols
- (7) Toledo Bend rate base times the rate of return. Toledo Bend rate base consists of fixed capital assets specific to Toledo Bend Reservoir, exclusive of the hydro-electric plant and 50% of the dam and spillway, plus AGO fixed capital assets allocated to Toledo Bend minus accumulated depreciation. Rate of return is SRA's embedded cost of outstanding debt, plus 250 basis points, but is no instance less than 7.50% (shown at 7.50%).
Interbasin transfer fee to begin with the transferring of water in 2016
Note: A floor will be set for the Return on Rate Base, which will be SRA's current embedded investment in Toledo Bend, less appropriate exclusions, depreciated to when water is transferred between basins
- (8) Annual depreciation expense of Toledo Bend fixed capital and AGO assets, less appropriate exclusions depreciation at current depreciation rates
- (9) Discount rate of 4.3% for 2009 based on 30 year Treasury Bills. All other years at 8% based on average 30 year T-Bill rate from 1977 to 2008'