

Appendix N
Summary of Recommended Water Management Strategies in
the 2011 Brazos G Regional Water Plan

Appendix N: Summary of Recommended Water Management Strategies in the 2011 Brazos G Regional Water Plan

COMMON NAME STRATEGY	WUG/WWP using Strategy	1st Decade Average Annual Unit Cost (\$/acft)	Supply Developed						2060 Average Annual Unit Cost (\$/acft)	Total Capital Cost
			2010	2020	2030	2040	2050	2060		
Municipal Conservation	35	\$475	4,558	12,622	13,102	14,258	16,656	18,952	\$475	\$0
Irrigation Conservation	5	\$263	3,390	5,519	7,550	7,376	7,206	7,041	\$263	\$0
Industrial Conservation	14	ND	2,594	5,782	9,544	10,517	12,308	13,370	ND	\$0
Voluntary Redistribution	2	\$877	256	305	350	380	396	413	\$877	\$0
Purchase Additional Water	22	\$1,036	14,545	21,560	23,052	25,234	27,727	30,899	\$817	\$0
Purchase Additional Water + Infrastructure	18	\$2,155	13,117	31,343	42,791	44,018	44,518	45,118	\$1,089	\$228,057,000
Increase WTP Capacity	13	\$661	15,551	42,941	50,781	54,812	66,095	73,200	\$311	\$282,269,000
Reuse Supply	14	\$937	27,810	49,420	51,290	61,881	75,597	80,854	\$270	\$140,569,000
Millican Reservoir	2	\$424	0	0	194,500	194,500	194,500	194,500	\$424	\$1,159,907,000
<i>Strategy used by WUG/WWP</i>		<i>\$1,707</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>2,500</i>	<i>2,500</i>	<i>2,500</i>	<i>\$519</i>	<i>\$34,067,000</i>
Brushy Creek Reservoir	1	\$1,312	2,400	2,400	2,400	2,400	2,400	2,400	\$346	\$39,690,000
Cedar Ridge Reservoir	1	\$1,168	0	23,380	23,380	23,380	23,380	23,380	\$241	\$285,214,000
Coryell County Off-Channel Reservoir	3	\$1,007	0	3,365	3,365	3,365	3,365	3,365	\$193	\$37,489,000
<i>Strategy used by WUG/WWP</i>		<i>\$2,869</i>	<i>0</i>	<i>0</i>	<i>3,365</i>	<i>3,365</i>	<i>3,365</i>	<i>3,365</i>	<i>\$1,523</i>	<i>\$51,888,000</i>
Gibbons Creek Reservoir Expansion	1	\$237	0	3,870	3,870	3,870	3,870	3,870	\$29	\$12,140,600
Groesbeck Off-Channel Reservoir	1	\$565	0	0	0	0	1,755	1,755	\$565	\$10,412,000
Millers Creek Reservoir Augmentation	5	\$217	17,582	17,582	17,582	17,582	17,582	17,582	\$217	\$46,948,000
<i>Strategy used by WUG/WWP</i>		<i>\$0</i>	<i>1,015</i>	<i>1,020</i>	<i>1,016</i>	<i>1,027</i>	<i>1,032</i>	<i>1,038</i>	<i>\$0</i>	<i>\$0</i>
Turkey Peak Reservoir	2	\$924	0	7,600	7,600	7,600	7,600	7,600	\$440	\$50,227,000
Carrizo-Wilcox Groundwater	12	\$421	6,318	8,111	8,902	12,992	15,461	15,851	\$130	\$52,456,000
Trinity Groundwater	9	\$824	837	436	636	1,471	1,822	2,139	\$387	\$19,957,000
Gulf Coast Groundwater	1	\$638	0	0	0	5,600	5,600	5,600	\$146	\$31,630,000
Seymour ASR Project	2	\$701	6,208	6,208	6,208	6,208	6,208	6,208	\$430	\$38,625,000
Phase I Lake Whitney Water Supply Project	1	\$2,850	2,128	2,128	2,128	2,128	2,128	2,128	\$1,153	\$41,453,000
Future Phases of Lake Whitney Water Supply Project	1	\$926	0	7,572	7,572	7,572	7,572	7,572	\$926	\$110,843,000
Reallocation of Supplies	3	\$0	0	26,847	26,847	30,947	36,647	43,547	\$0	\$0
Subordination Agreement	1	ND	1,679	1,671	1,557	1,435	1,301	1,154	ND	\$0
Oak Creek Reservoir Conjunctive Management	2	\$1,643	1,688	1,755	1,878	1,948	1,953	1,963	ND	\$15,015,000
WCBWDS	3	\$2,046	843	843	843	843	843	843	\$648	\$22,461,000
Somervell County WSP	6	\$1,994	840	840	1,800	1,800	1,800	1,800	\$341	\$104,151,400
Run-of-river water right of unappropriated flows	1	ND	ND	ND	ND	ND	ND	ND	ND	\$0
EWCRWTS	12	\$1,326	4,601	6,247	7,247	7,945	7,945	7,945	\$432	\$44,706,000
Rehabilitate Existing Wells	1	\$30	0	1,100	1,100	1,100	1,100	1,100	\$30	\$350,000
Brushy Creek RUA Water Supply Project	4	\$1,338	0	20,928	33,548	33,548	40,587	40,587	\$1,206	\$391,533,000
BRA System Operation	7	ND	201,800	201,800	201,800	201,800	201,800	201,800	ND	\$0
<i>Strategy used by WUG/WWP</i>		<i>\$2,090</i>	<i>77,020</i>	<i>78,550</i>	<i>83,772</i>	<i>83,772</i>	<i>83,772</i>	<i>83,929</i>	<i>\$962</i>	<i>\$194,413,000</i>
Lake Granger Augmentation	8	\$968	26,505	26,001	25,496	24,990	70,751	70,246	\$768	\$643,928,000
<i>Strategy used by WUG/WWP</i>		<i>\$1,091</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>38,414</i>	<i>39,494</i>	<i>\$865</i>	<i>\$229,822,000</i>
BRA Reservoir Connection	1	\$133	0	30,000	30,000	30,000	30,000	30,000	\$45	\$36,038,000
Storage Reallocation	3	\$406	0	0	0	2,050	2,050	2,050	\$406	\$11,447,000
<i>Strategy used by WUG/WWP</i>		<i>\$0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>419</i>	<i>481</i>	<i>544</i>	<i>\$0</i>	<i>\$0</i>
Chloride Control Project	1	ND	0	0	0	0	0	0	ND	\$163,226,000
Restructure Contracts	2	\$0	6,583	6,551	6,518	6,486	6,453	6,421	\$0	\$0