

Agenda Item 5c. Water Supply Needs After Subordination

This agenda item will provide a summary of the water supply needs for Region F after the subordination strategy has been applied. The subordination of water supplies strategy is a result of TWDB's requirement to use WAM Run 3 for surface water supplies, which causes there to be considerably less surface water shown to be available than is currently being used by the region. As a result, the *Subordination of Downstream Water Rights* is a strategy that has been adopted by Region F that evaluates yields of Region F Colorado Basin supplies when the lower basin senior water rights are subordinated to the upper basin (Region F) rights. This agenda item presents the projected water needs with the subordinated water supplies and compares them to the water needs before subordination was applied. These needs after subordination will then be used to identify and develop any additional water management strategies.

Attachment:

Table with Updated water needs for Water User Groups that receive subordinated supplies

Projected Water Needs Before Subordination (Acre-feet/Year)

WUG Name	County	2030	2040	2050	2060	2070	2080
Ballinger	Runnels	365	390	432	469	499	530
Big Spring	Howard	0	497	1282	1865	2211	2507
Brady	McCulloch	200	154	108	85	62	39
Bronte	Coke	199	217	237	268	302	339
Coahoma	Howard	0	27	72	104	122	137
Coleman	Coleman	712	616	520	446	365	272
Coleman County SUD	Taylor	78	76	73	70	68	65
Concho Rural Water	Tom Green	5	0	7	18	27	36
County-Other, Coleman	Coleman	17	13	10	7	4	2
County-Other, Runnels	Runnels	28	28	28	28	26	23
County-Other, Tom Green	Tom Green	38	41	39	36	34	31
Ector County Utility District	Ector	0	289	852	1386	1831	2314
Goodfellow Air Force Base	Tom Green	93	69	94	117	139	160
Greater Gardendale WSC	Midland	0	18	100	162	216	271
Irrigation, Coleman	Coleman	361	361	361	361	361	361
Irrigation, Ector	Ector	0	0	23	97	144	188
Irrigation, Menard	Menard	394	394	394	394	394	394
Irrigation, Tom Green	Tom Green	0	7342	7761	8096	8417	8785
Junction	Kimble	523	512	506	505	506	511
Manufacturing, Coleman	Coleman	1	1	1	1	1	1
Manufacturing, Howard	Howard	0	111	281	417	505	587
Manufacturing, Kimble	Kimble	35	35	35	35	35	35
Menard	Menard	44	25	8	5	0	0
Midland	Midland	0	0	0	0	2424	7274
Miles	Runnels	0	0	0	0	6	14
Millersview-Doole WSC	Tom Green	0	0	122	353	597	878
North Runnels WSC	Taylor	227	241	256	273	292	314
Odessa	Midland	0	1955	5829	9262	11964	14774
Robert Lee	Coke	276	294	314	344	377	414
San Angelo	Tom Green	3471	2792	4073	5340	6718	8219
Snyder	Scurry	0	127	331	497	609	716
Stanton	Martin	51	122	219	311	403	504
Steam-Electric Power, Ector	Ector	139	269	342	388	428	461
Steam-Electric Power, Howard	Howard	1	64	163	240	291	337
Steam-Electric Power, Mitchell	Mitchell	6725	6725	6725	6725	6725	6725
U & F WSC	Scurry	0	1	1	2	2	2
Winters	Runnels	359	342	321	303	283	258

Projected Water Needs After Subordination (Acre-feet/Year)

WUG Name	County	2030	2040	2050	2060	2070	2080
Ballinger	Runnels	0	0	0	0	0	0
Big Spring	Howard	0	0	0	0	0	49
Brady	McCulloch	0	0	0	0	0	0
Bronte	Coke	0	5	24	53	86	122
Coahoma	Howard	0	0	0	0	0	3
Coleman	Coleman	0	0	0	0	0	0
Coleman County SUD	Taylor	0	0	0	0	0	0
Concho Rural Water	Tom Green	0	0	0	2	12	24
County-Other, Coleman	Coleman	0	0	0	0	0	0
County-Other, Runnels	Runnels	0	0	0	0	0	0
County-Other, Tom Green	Tom Green	0	0	0	0	0	0
Ector County Utility District	Ector	0	0	0	0	0	46
Goodfellow Air Force Base	Tom Green	27	22	51	76	100	123
Greater Gardendale WSC	Midland	0	0	0	0	0	5
Irrigation, Coleman	Coleman	0	0	0	0	0	0
Irrigation, Ector	Ector	0	0	0	0	0	0
Irrigation, Menard	Menard	0	0	0	0	0	0
Irrigation, Tom Green	Tom Green	0	6825	7288	7656	8010	8409
Junction	Kimble	254	243	237	236	237	242
Manufacturing, Coleman	Coleman	0	0	0	0	0	0
Manufacturing, Howard	Howard	0	0	0	0	0	11
Manufacturing, Kimble	Kimble	27	27	27	27	27	27
Menard	Menard	0	0	0	0	0	0
Midland	Midland	0	0	0	0	0	2125
Miles	Runnels	0	0	0	0	0	3
Millersview-Doole WSC	Tom Green	0	0	12	189	399	648
North Runnels WSC	Taylor	124	132	139	149	160	172
Odessa	Midland	0	0	0	0	0	295
Robert Lee	Coke	67	98	119	151	185	223
San Angelo	Tom Green	994	887	2220	3472	4835	6328
Snyder	Scurry	0	0	0	0	0	15
Stanton	Martin	51	100	161	226	299	386
Steam-Electric Power, Ector	Ector	139	104	0	0	0	0
Steam-Electric Power, Howard	Howard	1	1	1	1	0	8
Steam-Electric Power, Mitchell	Mitchell	3801	3885	3969	4035	4099	4165
U & F WSC	Scurry	0	0	0	0	0	0
Winters	Runnels	197	187	175	166	155	142