

Appendix 2-A

Correspondence of the ETRWPG Chair to the TWDB

Following is a letter from Kelley Holcomb, Chair of the ETRWPG, to the TWDB, regarding the 2021 Plan Projected Demands. The letter is dated January 12, 2018, and contains a letter prepared by Plummer Associates, Inc. presenting revised non-municipal demand projections with the following attachments:

- Attachment 1 – LNVA Projected Manufacturing Demands (Jefferson Manufacturing, Jasper Livestock, and Nacogdoches Livestock)
- Attachment 2 – Southeast Texas Groundwater Conservation District Meter Readings (Tyler Steam Electric Power)
- Attachment 3 – Email from Lumberton Municipal Utility District (Lumberton MUD)
- Attachment 4 – Email from Texas Department of Criminal Justice Representative (Woodville)



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January 12, 2018

Mr. Jeff Walker
Executive Administrator
Texas Water Development Board
1700 North congress Avenue
Austin, Texas 78701

Re: Proposed Revisions to Projections for the East Texas Regional Water Planning Area

Dear Mr. Walker:

This letter transmits proposed revisions of the East Texas Regional Water Planning Area (Region I) population and water demand projections developed by the Texas Water Development Board (TWDB) for the 2021 Regional Water Plan (2021 Plan). These recommendations were adopted by the East Texas Regional Water Planning Group (ETRWPG) at its general meeting held on December 11, 2017. Following is a summary of the proposed revisions by demand category; documentation for these revisions has already been provided to TWDB staff.

- **Municipal Demands**

- Moved population from Tyler County-Other to City of Woodville to account for the Gib Lewis Unit Texas Department of Corrections facility located within Woodville's service area. Decreased City of Woodville Base GPCD from 315 to 200 in order for water demand projections to remain constant with population increase. Tyler County-Other Base GPCD remained constant; therefore, the water demand projections decreased with population decrease.
- Moved population from Hardin County-Other to Lumberton MUD per historical data. The Base GPCD for each Water User Group remained constant. Overall, the Municipal demand for Hardin County decreased as Lumberton MUD has a lower Base GPCD than Hardin County-Other.

- **Manufacturing Demands**

- Increased Jefferson County Manufacturing demand per existing contract data provided by Lower Neches Valley Authority.

- **Steam-Electric Demands**

- Added Tyler County Steam-Electric demand per historical data provided by County Judge.

- **Livestock Demands**

- Increased Jasper County Livestock demand per existing contract data provided by Lower Neches Valley Authority.
- Increased Nacogdoches Livestock demand per existing contract data provided by Lower Neches Valley Authority.



- **Mining Demands**
 - No recommended changes
- **Irrigation Demands**
 - No recommended changes.

Table 1: Summary of Proposed Revisions by Demand Category

Demand Category	Water Plan	Projected Water Demand (af/yr)					
		2020	2030	2040	2050	2060	2070
Municipal	2017 SWP ⁽¹⁾	188,646	196,302	204,157	214,540	226,622	239,607
	2021 RWP ⁽²⁾	192,490	200,322	208,279	218,742	230,951	244,099
	2021 ETRWPG ⁽³⁾	192,050	199,869	207,822	218,267	230,468	243,610
Manufacturing	2017 SWP ⁽¹⁾	608,667	800,989	838,639	874,546	909,373	945,886
	2021 RWP ⁽²⁾	209,070	233,049	233,049	233,049	233,049	233,049
	2021 ETRWPG ⁽³⁾	318,071	365,513	365,513	365,513	365,513	365,513
Steam-Electric	2017 SWP ⁽¹⁾	82,018	95,544	112,035	132,137	156,640	184,714
	2021 RWP ⁽²⁾	66,811	66,811	66,811	66,811	66,811	66,811
	2021 ETRWPG ⁽³⁾	67,011	67,011	67,011	67,011	67,011	67,011
Livestock	2017 SWP ⁽¹⁾	24,027	25,549	27,361	29,521	32,081	32,764
	2021 RWP ⁽²⁾	37,673	40,800	44,545	49,040	54,406	55,619
	2021 ETRWPG ⁽³⁾	47,464	50,591	54,336	58,831	64,197	65,410
Mining	2017 SWP ⁽¹⁾	27,523	24,547	18,169	15,488	12,986	12,093
	2021 RWP ⁽²⁾	27,523	24,547	18,169	15,488	12,986	12,093
	2021 ETRWPG ⁽³⁾	27,523	24,547	18,169	15,488	12,986	12,093
Irrigation	2017 SWP ⁽¹⁾	177,919	187,894	194,851	197,546	195,445	192,186
	2021 RWP ⁽²⁾	98,368	98,368	98,368	98,368	98,368	98,368
	2021 ETRWPG ⁽³⁾	98,368	98,368	98,368	98,368	98,368	98,368
Total Water Demands	2017 SWP ⁽¹⁾	1,108,800	1,330,825	1,395,212	1,463,778	1,533,147	1,607,250
	2021 RWP ⁽²⁾	631,935	663,897	669,221	681,498	696,571	710,039
	2021 ETRWPG ⁽³⁾	750,487	805,899	811,219	823,478	838,543	852,005

(1) 2017 SWP: Projections are from the 2017 State Water Plan, adopted on May 19, 2016.

(2) 2021 RWP: Projections are from the Texas Water Development Board website.

(3) 2021 ETRWPG: Projections are those proposed by the East Texas Regional Water Planning Group (ETRWPG)



The enclosure to this letter provides the proposed revisions in the format requested by the TWDB.

In addition to these proposed revisions, the ETRWPG would like to notify you of the following name change: the Water User Group formerly known as Lake Livingston Water Supply and Sewer Service has changed their name to Lake Livingston WSC.

The ETRWPG appreciates the opportunity to submit these recommendations. Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "KH", is positioned above the typed name.

Kelley Holcomb, Chair
East Texas Regional Water Planning Group

Enclosures

cc: Mr. Lann Bookout, Texas Water Development Board
Ms. Spandana Tummuri, PH.D., P.E., ENV SP, Freese and Nichols, Inc.
Ms. Cynthia Amoles Syvarth, P.E., Alan Plummer Associates, Inc.

LNVA PROJECTED MANUFACTURING DEMAND

	2010-2016 ANNUAL DIVERSION (AC-FT)	2017 Annual Contract Quantity (AC-FT)	Reported Expansion Demand (AC FT)	Projected 2020 Demand (AC-FT)	Projected 2030 Demand (AC FT)	AVERAGE FLOW (MGD)	COUNTY	2020 LIVESTOCK (NACOGDOCHES)	2020 LIVESTOCK (JASPER)	2020 MANUFACTURING (JASPER)	2020 MANUFACTURING (JEFFERSON)	2030 MANUFACTURING (JEFFERSON)	NOTES
WATER USER on Canal System													
AGL	2,078	475		475	475	0.42	JEFFERSON	--	--	--	475	475	Historic non-development use; years with cavern development demand is 6000 ac-ft
AIR LIQUIDE	419	605		605	605	0.54	JEFFERSON	--	--	--	605	605	contract volume
ARKEMA	191	638	645	1,284	1,284	1.15	JEFFERSON	--	--	--	1,284	1,284	contract volume
BASF - BMT	880	921	621	1,542	1,542	1.38	JEFFERSON	--	--	--	1,542	1,542	3 year average is 923 ac-ft/yr
BASF - PA	7,021	7,672	13,533	21,205	21,205	18.93	JEFFERSON	--	--	--	21,205	21,205	Peak Usage in 2016 of 7,983 ac-ft
CHEMTRADE LOGISTICS	87	166		166	166	0.15	JEFFERSON	--	--	--	166	166	Demand varies - peak year of 477 ac-ft & low year of 38 ac-ft. use contract quantity
City of Port Arthur Industrial (Cheniere & GP LNG)	637	-	17,700	17,700	17,700	15.80	JEFFERSON	--	--	--	17,700	17,700	Pt Arthur expanded treatment plant to provide service to LNG Export Plants - new 2016
COASTAL CAVERNS	1,639	28		28	28	0.0250	JEFFERSON	--	--	--	28	28	Historic non-development use; years with cavern development demand is 3500 ac-ft
DCP MISTREAM	1,009	28		28	28	0.0250	JEFFERSON	--	--	--	28	28	Historic non-development use; years with cavern development demand is 3000 ac-ft
EXXON MOBIL (LDPE)	2,131	2,161	1,296	3,457	3,457	3.09	JEFFERSON	--	--	--	3,457	3,457	BPEX Project - 60% production capacity increase under construction 2017
EXXON MOBIL (O&A)	5,191	5,524	968	6,492	6,492	5.80	JEFFERSON	--	--	--	6,492	6,492	Current Contractual Commitment
EXXON MOBIL (Oil)	22,343	26,615	6,452	33,067	33,067	29.52	JEFFERSON	--	--	--	33,067	33,067	Expansion for additional crude unit
GT Omniport	-	-	16,000	-	16,000	14.28	JEFFERSON	--	--	--	-	16,000	Reclaimed industrial site under development - future demand beyond 2020
GOODYEAR TIRE AND RUBBER	4,433	3,609		5,400	5,400	4.82	JEFFERSON	--	--	--	5,400	5,400	Peak Usage; 3 year average is 5,406 ac-ft/yr
HUNTSMAN CORPORATION	17,240	16,572	10,823	27,395	27,395	24.46	JEFFERSON	--	--	--	27,395	27,395	Peak Usage; Total Huntsman 3 year average is 17,149 ac-ft/yr
LUCITE (formerly DuPont)	6,299	8,763	8,065	16,828	16,828	15.02	JEFFERSON	--	--	--	16,828	16,828	Current Contractual Commitment plus reported expansion
MOTIVA ENTERPRISES	32,272	31,303	4,033	35,335	35,335	31.55	JEFFERSON	--	--	--	35,335	35,335	3 year average post expansion, increased in contract quantity 2014
NATGASOLINE	2	6,452		6,452	6,452	5.76	JEFFERSON	--	--	--	6,452	6,452	New Plant startup in 2018
TOTAL PETROCHEMICAL	6,221	7,807	6,452	14,259	14,259	12.73	JEFFERSON	--	--	--	14,259	14,259	Expansion projected to startup in 2019
VALERO	19,194	23,017	15000	23,017	38,017	33.94	JEFFERSON	--	--	--	23,017	38,017	Future expansion beyond 2020
VARIOUS MIN. ACCOUNTS	384	267		267	267	0.24	JEFFERSON	--	--	--	267	267	Peak Usage
TEXAS PARKS AND WILDLFE JASPER FISH HATCHERY	10,000	10,000		10,000	10,000	8.93	JASPER	--	10000		--	--	Current Contractual Commitment; Revised to Livestock per TWDB.
TEXAS PARKS AND WILDLIFE ALAZON BAYOU	10,000	10,000		10,000	10,000	8.93	NACOGDOCHES	10000	--	--	--	--	Current Contractual Commitment; Revised to Livestock per TWDB.
WEST VACO	5,994	5,600		5,600	5,600	5.00	JASPER	--		5600	--	--	Current Contractual Commitment
TOTALS	155,665	168,221	86,588	240,600	271,600	242		10,000	10,000	5,600	215,000	246,000	

	JANUARY 2016	FEBRUARY 2016	MARCH 2016	APRIL 2016	MAY 2016	JUNE 2016	JULY 2016	AUGUST 2016	SEPTEMBER 2016	OCTOBER 2016	NOVEMBER 2016	DECEMBER 2016	2016 TOTALS TOTALS	2016 Monthly AVERAGE	2015 Monthly AVERAGE	2014 Monthly AVERAGE
New Connections	23	13	13	15	16	8	23	9	7	14	13	3	157	13	17	16
Water Tap	12	4	7	6	6	3	12	5	3	7	7	2	74	6	4	4
Water Tie-Ins	11	9	6	9	10	5	11	4	4	7	6	1	83	7	12	11
Sewer Tap	10	2	2	5	6	2	12	3	4	7	5	1	59	5	4	4
Sewer Tie-Ins	11	10	6	9	11	6	14	5	3	7	6	1	89	7	9	11
LPSS	6	0	1	4	2	2	1	2	1	3	3	2	27	2	2	1
New Customers	53	59	69	51	66	64	71	61	49	68	55	38	704	59	64	97
Finals	105	90	94	79	93	94	46	100	81	89	94	69	1,034	86	88	82
Lock Non-Pays	181	159	132	138	164	93	152	242	117	151	86	42	1,657	138	111	134
Completed Meter Changeouts	4	13	31	1	16	8	44	16	3	35	6	1	178	15	26	11
Permits Issued	23	28	26	13	22	20	23	16	21	22	13	23	249	21	22	26
Inspections Made	48	47	47	39	35	32	45	33	42	37	29	48	482	40	39	43
Equivalent Living Units		8,786	8,819	8,820	8,864	8,864	8,882	8,894	8,887	8,907	8,907	8,887				
Active Metered Customers	8,073	8,297	8,258	8,267	8,300	8,306	8,325	8,340	8,349	8,369	8,384	8,464			7,792	8,077
Total Meters	8,501	8,514	8,527	8,542	8,558	8,566	8,589	8,598	8,605	8,619	8,632	8,635			8,493	8,291
Gain		224	33	1	44	0	18	12	-7	20	0	-20			-24	14
Water Leaks	23	24	24	25	25	35	43	43	25	42	22	20	351	29	27	28
Other Water Complaints	44	21	15	24	21	29	27	29	26	11	20	40	307	26	22	22
Customer Service Work Orders	244	183	273	196	190	150	272	231	231	171	188	195	2,524	210	198	150
Line Locates	34	24	33	31	29	26	46	20	25	19	32	16	335	28	20	22
Sewer Stoppages	13	20	19	9	24	27	9	18	19	16	11	28	213	18	15	13
LPSS Complaints	23	8	23	5	24	31	9	16	13	4	17	11	184	15	14	12
Lift Station Complaints	23	5	23	6	25	17	0	7	2	4	7	11	130	11	13	4
Lift Station Maintenance	65	53	1	62	3	32	4	66	6	1	5	8	306	26	22	61
Wastewater Gallons Treated	60,156,700	42,105,500	68,689,500	68,393,600	74,470,100	86,641,500	43,926,100	55,536,400	50,419,900	39,096,700	39,696,700	62,365,000	691,497,700	57,624,808	59,786,017	48,184,250
Wastewater Gallons Billed	50,406,610	40,283,320	42,962,150	50,468,800	45,329,950	46,693,470	56,656,810	53,107,990	52,650,900	48,368,550	44,364,640	45,634,880	576,928,070	48,077,339	48,215,870	43,520,439
Total Gallons of Water Pumped	51,709,300	49,650,400	51,040,300	54,397,700	56,606,700	52,695,500	69,792,700	62,822,400	56,153,900	63,339,100	53,779,400	55,995,100	677,982,500	56,498,542	56,849,785	55,865,367
Total Gallons of Water Billed	52,361,680	41,574,070	44,557,390	52,579,060	47,273,800	48,840,420	60,387,250	58,256,910	56,541,540	52,320,870	48,298,380	48,270,980	611,262,350	50,938,529	51,039,089	49,236,797
Estimated Gallons of Water Pluribid	2,659,656	2,661,556	2,646,951	2,676,711	2,672,556	2,692,141	2,611,116	2,595,756	2,667,396	2,749,015	2,735,496	2,753,476	32,121,826	2,676,819	2,812,947	3,173,157
Estimated Gallons in Water Leakage	457,268	225,146	2,516,760	1,264,250	1,983,856	364,025	22,210	2,300	189,515	259,595	586,539	115,250	7,986,714	665,560	487,294	121,553
Not metered Not Billed (Water for Construction)	18,634	12,900	33,823	1,298,000	1,500	120	1,990	200	3,080	1,060	500	6,000	1,377,827	114,819	7,512	60,405
Gallons of Water USED - LVED 64001247	6,000	19,000	11,000	9,000	34,000	10,000	27,000	11,000	7,000	11,000	32,000	28,000	205,000	17,083	7,889	65,003
Total Gallons of Water Accounted for	55,497,258	44,473,672	49,754,924	57,818,021	51,931,712	51,896,706	63,022,566	60,855,166	59,401,531	55,341,540	51,620,915	51,145,706	652,759,717	54,396,643	54,347,342	52,609,580
Total Gallons of Water Unaccounted	-3,787,958	5,176,728	1,285,376	-3,420,321	4,674,988	798,794	6,770,134	1,967,234	-3,247,631	7,997,560	2,158,485	4,849,394	25,222,783	2,101,899	2,502,443	3,255,787
Percent Unaccounted Water	-7%	10%	3%	-6%	8%	2%	10%	3%	-6%	13%	4%	9%		3%	5%	6%
% W.W. Treated vs Wastewater Billed	119%	105%	160%	136%	164%	186%	78%	105%	96%	81%	89%	137%		121%	129%	113%
Population Served		26,358	26,457	26,460	26,592	26,592	26,646	26,682	26,661	26,721	26,721	26,661			23,781	24,057
Customers with usage 0 - 1500 Gallons "Minimum"	982	1,238	1,092	947	1,232	1,071	944	952	1,012	1,069	1,069	1,073		1,057	1,190	999
Customers with usage 1500 - 7000 Gallons "Average"	4,752	5,397	5,273	4,881	5,247	5,056	4,478	4,662	4,743	4,949	4,949	5,163		4,963	4,248	4,805
Customers with usage 7000 & Up Gallons "High"	2,208	1,248	1,457	2,034	1,544	1,754	2,500	2,296	2,217	1,916	2,059	1,681		1,910	2,706	2,584
Average Gallons of Water per Household per Month	6,486	4,732	5,052	5,961	5,333	5,510	6,799	6,550	6,362	5,874	5,423	5,432		5792.9	6418.0	6129.9
AVERAGE Gallons of Water per person per day used		56.3	54.3	66.2	57.3	61.2	73.1	70.4	70.7	63.2	60.3	58.4			70.5	67.3
AVERAGE Gallons of Sewer per person per day used		54.6	52.4	63.6	55.0	58.5	68.6	64.2	65.8	58.4	55.3	55.2			66.6	61.0
Monthly average GPM per Connection	0.145	0.117	0.113	0.138	0.119	0.128	0.152	0.147	0.147	0.132	0.126	0.122		0.132	0.147	0.145

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2012-2016

	JANUARY 2015	FEBRUARY 2015	MARCH 2015	APRIL 2015	MAY 2015	JUNE 2015	JULY 2015	AUGUST 2015	SEPTEMBER 2015	OCTOBER 2015	NOVEMBER 2015	DECEMBER 2015	2015 TOTALS TOTALS	2015 Monthly AVERAGE	2014 Monthly AVERAGE	2013 Monthly AVERAGE	2012 Monthly AVERAGE
New Connections	32	11	15	49	6	14	19	15	14	12	6	9	202	17	16	13	13
Water Taps	8	5	3	5	1	1	10	1	2	1	1	1	45	4	4	4	4
Water Tie-Ins	9	6	12	44	5	13	9	12	12	9	5	6	142	12	11	9	9
Sewer Tap	5	4	3	6	2	1	11	5	3	1	1	2	44	4	4	3	2
Sewer Tie-Ins	10	7	11	12	5	12	8	12	12	8	5	6	108	9	11	10	7
Leaps	2	0	1	4	0	4	4	5	2	1	2	0	25	2	1	1	1
New Customers	78	85	59	61	49	56	68	68	69	63	50	61	767	64	97	96	92
Finals	81	88	86	83	88	91	124	118	73	85	65	70	1,052	88	82	86	83
Lock Non-Pays	183	111	106	121	95	81	119	117	125	109	94	76	1,337	111	134	160	152
Completed Meter Changeouts	68	73	8	0	14	8	15	5	24	30	68	1	316	26	11	34	73
Permits Issued	16	16	23	29	11	23	24	13	32	25	12	32	258	22	26	21	23
Inspections Made	45	26	36	47	28	36	35	53	48	40	34	40	466	39	43	39	39
Active Metered Customers	8,074	8,071	8,044	8,022	7,983	7,948	7,892	7,842	7,888	7,816	7,801	7,792					
Total Meters	8,323	8,334	8,349	8,398	8,404	8,418	8,432	8,452	8,466	8,478	8,484	8,493					
Gain	-3	-3	-27	-22	-39	-35	-56	-50	-4	-22	-15	-9	-285	-24	14	11	9
Water Leaks	28	23	17	18	22	41	37	40	20	27	13	16	322	27	28	23	27
Other Water Complaints	14	18	21	20	16	17	47	30	39	25	2	10	259	22	22	10	6.6
Customer Service Work Orders	189	122	107	139	303	229	241	319	223	212	187	187	2,375	198	150	172	163.5
Line Locates	15	25	16	31	8	23	33	12	19	31	15	14	244	20	22	17	19.6
Sewer Stoppages	18	8	8	8	14	21	17	10	14	12	26	23	179	15	13	16	13.5
LFSS Complaints	9	5	16	11	13	20	7	31	7	9	26	17	173	14	12	15	17.7
Lift Station Complaints	15	3	13	11	33	16	5	6	6	8	30	11	157	13	4	7	5.3
Lift Station Maintenance	60	64	0	55	10	68	1	20	2	2	0	0	262	22	61	62	81
Wastewater Gallons Treated	63,786,100	40,796,500	68,760,200	65,353,300	70,752,000	66,223,700	48,179,900	45,805,800	51,306,100	60,651,700	75,358,900	60,458,000	717,432,200	59,786,017	48,184,250	44,372,800	43,318,633
Wastewater Gallons Billed	52,587,400	39,032,600	42,818,140	45,584,620	43,698,920	44,340,140	53,750,090	74,182,230	50,070,370	55,051,560	37,918,130	41,556,350	578,590,440	48,215,870	43,520,439	44,444,554	45,359,746
Total Gallons of Water Pumped	52,193,700	46,016,600	51,999,700	51,213,000	56,665,720	58,814,200	73,992,000	79,101,900	57,094,500	56,488,200	47,944,600	50,673,300	682,197,420	56,849,785	55,865,367	57,122,417	56,274,292
Total Gallons of Water Billed	60,472,430	40,764,500	42,059,140	45,005,820	45,192,600	47,388,620	56,519,750	80,912,180	54,243,550	57,082,700	39,612,950	43,215,050	612,469,070	51,039,089	49,236,797	50,640,095	51,969,539
Estimated Gallons of Water Flushed	5,017,396	3,095,146	5,149,616	5,127,071	3,027,711	3,075,501	3,081,456	3,368,341	3,179,561	2,799,901	2,634,711	198,950	33,755,361	2,812,947	3,173,157	2,861,631	2,261,116
Estimated Gallons in Water Leakage	10,370	5,060	32,970	222,631	424,471	456,641	64,678	2,655,389	945,888	978,515	6,630	44,270	5,847,533	487,294	121,553	459,399	132,984
Not metered Not Billed (Water for Construction)	0	0	13,485	67,771	4,832	0	0	0	0	0	0	400	90,138	7,512	60,405	95,157	124,833
Gallons of Water USED - LVFD	12,840	7,450	12,124	3,250	0	0	0	40,000	6,000	6,000	1,000	6,000	94,664	7,889	65,003	12,102	9,479
Total Gallons of Water Accounted for	63,500,196	43,864,706	45,255,211	48,423,293	48,649,614	50,920,762	59,665,884	86,935,910	58,368,799	60,807,116	42,254,691	43,461,920	652,168,102	54,347,342	52,609,580	54,056,283	54,488,471
Total Gallons of Water Unaccounted	-11,306,496	2,151,894	6,744,889	2,789,707	8,016,106	7,893,438	14,326,116	-7,834,010	-1,274,299	-4,378,916	5,689,909	7,211,380	30,029,318	2,502,443	3,255,787	3,066,134	1,785,820
Percent Unaccounted Water	-22%	5%	13%	5%	14%	13%	19%	-10%	-2%	-8%	12%	14%		5%	6%	5.1%	3%
% W W Treated vs Wastewater Billed	121%	105%	161%	143%	162%	149%	90%	62%	102%	114%	199%	145%		129%	113%	102%	97%
Population Served	24,222	24,213	24,132	24,066	23,949	23,844	23,676	23,526	23,514	23,448	23,403	23,376		23,781	24,057	23,955	23,895
Customers with usage 0 - 1500 Gallons "Minimum"	830	1,293	1,490	1,144	830	1,008	895	2,703	759	884	1,255	1,186		1,190	999	951	915
Customers with usage 1500 - 7000 Gallons "Average"	4,207	5,451	3,622	3,286	3,736	5,028	4,432	2,662	3,337	4,631	5,329	5,250		4,248	4,805	4,542	4,403
Customers with usage 7000 & Up Gallons "High"	3,425	1,729	3,237	3,409	3,288	1,789	2,387	2,369	3,808	3,109	2,587	1,332		2,706	2,584	2,726	2,292
Average Gallons of Water per Household per Month	7,490	5,051	5,229	5,610	5,661	5,962	7,162	10,318	6,921	7,303	5,078	5,232		6,418.0	6,129.9	5,931.8	6,075.7
AVERAGE Gallons of Water per person per day used	80.5	60.1	56.2	62.3	60.9	66.2	77.0	110.9	76.9	78.5	56.4	59.6		70.5	67.3	69.5	71.5
AVERAGE Gallons of Sewer per person per day used	70.0	57.6	57.2	63.1	58.9	62.0	73.2	101.7	71.0	73.0	54.0	57.3		66.6	59.5	61.0	62.4
Monthly average GPM per Connection	0.168	0.125	0.117	0.130	0.127	0.138	0.160	0.231	0.160	0.164	0.118	0.124		0.147	0.140	0.145	0.149

assuming 3 persons per connection

	JANUARY 2014	FEBRUARY 2014	MARCH 2014	APRIL 2014	MAY 2014	JUNE 2014	JULY 2014	AUGUST 2014	SEPTEMBER 2014	OCTOBER 2014	NOVEMBER 2014	DECEMBER 2014	2014 TOTALS TOTALS	2014 Monthly AVERAGE	2013 Monthly AVERAGE	2012 Monthly AVERAGE
New Connections	35	18	14	22	16	18	24	14	7	11	9	4	192	16	13	13
Water Taps	8	4	7	2	2	4	13	5	0	3	0	1	49	4	4	4
Water Tie-Ins	10	14	7	20	14	14	11	9	7	8	9	3	126	11	9	9
Sewer Tap	6	6	5	5	3	5	7	3	0	0	1	1	42	4	3	2
Sewer Tie-Ins	11	14	7	20	19	15	10	10	7	8	5	4	130	11	10	7
Lpss	1	3	1	2	1	2	1	0	0	1	0	1	13	1	1	1
New Customers	106	114	80	90	104	101	114	121	93	110	63	63	1,159	97	96	92
Finals	86	83	77	72	87	81	87	97	96	103	66	54	989	82	86	83
Lock Non-Pays	159	128	118	102	94	137	171	148	167	170	120	90	1,604	134	160	152
Completed Meter Changeouts	1	4	0	1	2	25	21	10	7	40	5	12	128	11	34	73
Permits Issued	27	21	27	37	24	25	42	17	29	32	18	9	308	26	21	23
Inspections Made	43	38	29	63	40	44	64	47	40	54	29	30	521	43	39	39
Active Metered Customers	7,927	7,958	7,961	7,979	7,996	8,016	8,043	8,067	8,064	8,071	8,068	8,077				
Total Meters	8,134	8,152	8,166	8,188	8,204	8,222	8,246	8,260	8,267	8,278	8,287	8,291				
Gain	20	31	3	18	17	20	27	24	-3	7	-3	9	170	14	11	9
Water Leaks	42	26	27	38	27	39	36	29	14	22	13	28	341	28	23	27
Other Water Complaints	22	3	5	1	4	5	72	98	13	16	6	17	262	22	10	6.6
Customer Service Work Orders	173	181	167	118	143	159	188	119	139	174	112	132	1,805	150	172	163.5
Line Locates	24	29	23	14	26	17	18	26	27	18	22	16	260	22	17	19.6
Sewer Stoppages	17	13	12	20	8	15	11	9	14	15	5	15	154	13	16	13.5
LPSS Complaints	10	6	7	19	5	23	10	8	7	22	10	12	139	12	15	17.7
Lift Station Complaints	5	2	0	3	2	8	6	8	10	3	2	3	52	4	7	5.3
Lift Station Maintenance	64	73	63	63	61	66	78	1	61	84	62	60	736	61	62	81
Wastewater Gallons Treated	43,781,200	46,305,400	48,226,400	44,454,000	41,812,600	52,337,200	59,623,000	48,433,400	45,938,100	43,253,800	48,412,100	55,633,800	578,211,000	48,184,250	44,372,800	43,318,633
Wastewater Gallons Billed	54,677,420	37,519,400	35,942,290	41,266,297	43,393,230	55,050,375	42,433,780	47,790,610	44,455,750	42,408,688	40,035,436	37,271,990	522,245,266	43,520,439	44,444,554	45,359,746
Total Gallons of Water Pumped	55,522,300	48,077,000	52,443,800	56,234,800	65,680,700	56,997,400	56,954,800	62,895,400	57,514,800	55,668,000	50,524,700	51,870,700	670,384,400	55,865,367	57,122,417	56,274,292
Total Gallons of Water Billed	61,361,640	41,750,600	40,165,630	43,386,547	49,438,560	63,700,595	48,308,350	54,603,970	51,155,890	48,619,438	45,564,586	42,785,760	590,841,566	49,236,797	50,640,095	51,969,539
Estimated Gallons of Water Flushed	2,984,536	3,002,016	3,459,026	2,999,616	3,081,361	3,068,356	3,298,137	3,512,196	3,205,661	3,383,816	2,966,196	3,116,966	38,077,883	3,173,157	2,861,631	2,261,116
Estimated Gallons in Water Leakage	11,780	30,960	134,591	5,420	76,645	107,105	26,140	37,760	43,900	762,490	69,120	152,730	1,458,641	121,553	459,399	132,984
Not metered Not Billed (Water for Construction)	600	11,300	15,420	43,000	26,452	11,860	146,473	39,490	8,000	398,700	17,329	6,240	724,864	60,405	95,157	124,833
Gallons of Water USED - LVFD	286,352	40,870	4,630	1,080	30,050	41,275	19,450	14,380	55,096	212,000	74,852	0	780,035	65,003	12,102	9,479
Total Gallons of Water Accounted for	64,358,556	44,794,876	43,774,667	46,434,583	52,623,018	66,887,916	51,779,100	58,193,416	54,413,451	53,376,444	48,617,231	46,061,696	631,314,954	52,609,580	54,056,283	54,488,471
Total Gallons of Water Unaccounted	-8,836,256	3,282,124	8,669,133	9,800,217	13,057,682	-9,890,516	5,175,700	4,701,984	3,101,349	2,291,556	1,907,469	5,809,004	39,069,446	3,255,787	3,066,134	1,785,820
Percent Unaccounted Water	-16%	7%	17%	17%	20%	-17%	9%	7%	5%	4%	4%	11%		6%	5.1%	3%
% W.W.Treated vs. Wastewater Billed	80%	123%	134%	108%	96%	95%	141%	101%	103%	102%	121%	149%		113%	102%	97%
Population Served	23,781	23,874	23,883	23,937	23,988	24,048	24,129	24,201	24,192	24,213	24,204	24,231		24,057	23,955	23,895
Customers with usage 0 - 1500 Gallons "Minimum"	805	1,094	1,151	994	1,004	784	1,056	909	989	1,029	1,043	1,126		999	951	915
Customers with usage 1500 - 7000 Gallons "Average"	3,917	5,254	5,309	4,915	4,624	3,988	4,820	4,543	4,784	4,964	5,147	5,395		4,805	4,542	4,403
Customers with usage 7000 & Up Gallons "High"	3,594	1,994	1,855	2,441	2,715	3,638	2,479	2,973	2,627	2,451	2,268	1,968		2,584	2,726	2,292
Average Gallons of Water per Household per Month	7,741	5,246	5,045	5,438	6,183	7,947	6,006	6,769	6,344	6,024	5,648	5,169		6,129.9	5,931.8	6,075.7
AVERAGE Gallons of Water per person per day used	83.2	62.5	54.3	60.4	66.5	88.3	64.6	72.8	70.5	64.8	62.8	57.0		67.3	69.5	71.5
AVERAGE Gallons of Sewer per person per day used	74.2	56.1	48.5	57.5	58.4	76.3	56.7	63.7	61.3	56.5	55.1	49.6		59.5	61.0	62.4
Monthly average GPM per Connection	0.173	0.130	0.113	0.126	0.139	0.184	0.135	0.152	0.147	0.135	0.131	0.119		0.140	0.145	0.149

assuming 3 persons per connection

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2013 Production Report

	JANUARY 2013	FEBRUARY 2013	MARCH 2013	APRIL 2013	MAY 2013	JUNE 2013	JULY 2013	AUGUST 2013	SEPTEMBER 2013	OCTOBER 2013	NOVEMBER 2013	DECEMBER 2013	2013 TOTALS TOTALS	2013 Monthly AVERAGE	2012 Monthly AVERAGE
New Connections	21	12	9	8	17	12	21	15	10	18	12	6	161	13	13
Water Taps	5	4	4	1	4	4	3	5	4	4	2	3	43	4	4
Water Tie-Ins	9	8	5	7	13	8	18	10	6	14	10	3	111	9	9
Sewer Tap	3	2	3	3	5	3	3	7	2	3	4	3	41	3	2
Sewer Tie-Ins	4	7	6	6	11	13	17	13	7	16	13	2	115	10	7
Lpss	0	1	1	2	1	3	0	0	1	3	0	1	13	1	1
New Customers	93	87	78	92	110	101	95	135	90	112	93	71	1,157	96	92
Finals	70	69	81	93	89	91	93	106	84	84	92	77	1,029	86	83
Lock Non-Pays	173	146	190	154	156	84	184	191	205	222	128	89	1,922	160	152
Completed Meter Changeouts	66	81	61	93	19	30	5	11	6	13	2	25	412	34	73
Permits Issued	13	11	15	17	28	14	36	30	17	28	21	18	248	21	23
Inspections Made	35	35	29	31	44	29	42	55	36	54	31	41	462	39	39
Active Metered Customers	7,930	7,948	7,945	7,944	7,965	7,975	7,977	8,006	8,012	8,040	8,041	8,035			
Total Meters	8,120	8,132	8,141	8,149	8,166	8,178	8,199	8,214	8,224	8,242	8,254	8,260			
Gain	23	18	-3	-1	21	10	2	29	6	28	1	-6	128	11	9
Water Leaks	23	13	21	22	40	21	33	27	16	16	25	24	281	23	27
Other Water Complaints	15	2	26	5	4	23	3	18	7	7	5	7	122	10	6.6
Customer Service Work Orders	169	143	184	155	179	189	209	210	186	169	146	125	2,064	172	163.5
Line Locates	10	26	18	27	6	14	14	24	18	20	14	12	203	17	19.6
Sewer Stoppages	24	17	21	16	17	12	7	9	17	16	14	19	189	16	13.5
LPSS Complaints	25	14	16	11	22	15	15	19	8	11	14	10	180	15	17.7
Lift Station Complaints	7	1	4	1	16	8	4	5	9	15	9	0	79	7	5.3
Lift Station Maintenance	64	62	52	63	64	64	63	64	65	65	61	62	749	62	81
Wastewater Gallons Treated	54,292,600	40,928,500	38,542,000	43,532,000	49,916,400	41,423,900	39,068,700	40,038,600	41,677,400	53,922,000	48,276,500	40,855,000	532,473,600	44,372,800	43,318,633
Wastewater Gallons Billed	47,149,189	36,266,600	40,191,792	36,782,940	45,963,725	54,511,320	52,771,430	46,832,060	54,748,570	44,848,030	37,815,720	35,453,274	533,334,650	44,444,554	45,359,746
Total Gallons of Water Pumped	49,553,400	43,210,000	55,626,600	58,260,200	61,028,300	60,572,200	69,338,100	67,627,300	65,077,000	52,182,800	50,955,900	52,037,200	685,469,000	57,122,417	56,274,292
Total Gallons of Water Billed	54,274,129	40,757,560	45,057,292	41,793,390	51,769,535	62,795,680	60,336,400	54,261,560	63,225,500	51,225,680	42,496,110	39,688,304	607,681,140	50,640,095	51,969,539
Estimated Gallons of Water Flushed	3,051,611	2,273,835	2,344,245	2,705,686	2,975,940	2,258,091	2,618,546	3,328,161	3,831,923	2,875,812	3,024,116	3,051,611	34,339,576	2,861,631	2,261,116
Estimated Gallons in Water Leakage	5,500	29,200	104,850	1,348,200	1,842,247	1,474,770	278,150	268,900	77,200	3,950	21,300	58,525	5,512,792	459,399	132,984
Not metered Not Billed (Water for Construction)	3,284	23,981	25,687	287,591	313,652	258,800	13,460	2,000	15,840	167,589	18,547	11,452	1,141,883	95,157	124,833
Gallons of Water USED - LVFD	5,000	24,000	9,000	15,000	4,000	7,000	62,000	18,980	20,000	130,000	80,000	10,000	384,980	32,082	9,479
Total Gallons of Water Accounted for	57,334,524	43,084,576	47,532,074	46,134,867	56,901,374	66,787,341	63,246,556	57,860,621	67,150,463	54,273,031	45,560,073	42,809,892	648,675,391	54,056,283	54,488,471
Total Gallons of Water Unaccounted	-7,781,124	125,424	8,094,526	12,125,333	4,126,926	-6,215,141	6,091,544	9,766,679	-2,073,463	-2,090,231	5,395,827	9,227,308	36,793,609	3,066,134	1,785,820
Percent Unaccounted Water	-16%	0%	15%	21%	7%	-10%	9%	14%	-3%	-4%	11%	18%		5.1%	3%
% W.W. Treated vs. Wastewater Billed	115%	113%	96%	118%	109%	76%	74%	85%	76%	120%	128%	115%		102%	97%
Population Served	23,790	23,844	23,835	23,832	23,895	23,925	23,931	24,018	24,036	24,120	24,123	24,105		23,955	23,895
Customers with usage 0 - 1500 Gallons "Minimum"	873	1,118	1,020	1,068	881	765	818	903	782	908	1,116	1,156		951	915
Customers with usage 1500 - 7000 Gallons "Average"	4,143	5,083	4,997	5,055	4,377	3,797	3,907	4,273	3,895	4,595	5,104	5,273		4,542	4,403
Customers with usage 7000 & Up Gallons "High"	3,044	1,923	2,194	2,065	2,950	3,668	3,476	3,040	3,575	2,798	2,092	1,881		2,726	2,292
Average Gallons of Water per Household per Month	6,844	5,128	5,671	5,261	6,500	7,874	7,564	6,778	7,891	6,371	5,285	15		5931.8	6075.7
AVERAGE Gallons of Water per person per day used	73.6	61.0	61.0	58.5	69.9	87.5	81.3	72.9	87.7	68.5	58.7	53.1		69.5	71.5
AVERAGE Gallons of Sewer per person per day used	63.9	54.3	54.4	51.4	62.1	75.9	71.1	62.9	75.9	60.0	52.3	47.4		61.0	62.4
Monthly average GPM per Connection	0.153	0.127	0.127	0.122	0.146	0.182	0.169	0.152	0.183	0.143	0.122	0.111		0.145	0.149

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2012 Production Report

	JANUARY 2012	FEBRUARY 2012	MARCH 2012	APRIL 2012	MAY 2012	JUNE 2012	JULY 2012	AUGUST 2012	SEPTEMBER 2012	OCTOBER 2012	NOVEMBER 2012	DECEMBER 2012	2012 TOTALS TOTALS	2012 Monthly AVERAGE	2011 Monthly AVERAGE
New Connections	5	10	13	15	11	19	12	8	12	15	17	17	154	13	12
Water Taps	1	3	4	3	5	7	5	1	5	4	0	6	44	4	5
Water Tie-Ins	2	7	9	12	6	12	7	7	7	11	17	11	108	9	5
Sewer Tap	0	4	2	1	2	3	2	0	3	4	1	4	26	2	3
Sewer Tie-Ins	2	7	9	10	7	10	3	8	8	12	2	9	87	7	5
Lpss	2	1	0	0	0	2	3	0	0	1	0	2	11	1	1
New Customers	81	94	91	80	108	109	95	99	96	104	74	72	1,103	92	87
Finals	80	80	76	66	94	105	98	94	82	100	63	54	992	83	78
Lock Non-Pays	176	107	207	144	229	129	130	169	100	237	107	86	1,821	152	116
Completed Meter Changeouts	10	103	117	112	120	28	64	105	9	105	58	44	875	73	81
Permits Issued	11	17	25	27	29	23	42	29	23	22	17	10	275	23	21
Inspections Made	38	46	39	53	50	26	30	50	35	54	29	21	471	39	17
Active Metered Customers	7,908	7,922	7,937	7,951	7,965	7,969	7,966	7,971	7,985	7,989	8,000	8,018			
Total Meters	8,104	8,114	8,127	8,142	8,153	8,172	8,184	8,192	8,204	8,219	8,236	8,253			
Gain	1	14	15	14	14	4	-3	5	14	4	11	18	111	9	9
Water Leaks	24	23	42	46	26	38	18	31	25	23	14	16	326	27	33
Other Water Complaints	4	12	3	3	7	10	2	12	4	8	12	2	79	7	21.5
Customer Service Work Orders	201	174	170	178	169	161	166	153	194	173	103	120	1,962	164	148.1
Line Locates	30	7	29	24	12	20	23	29	12	24	10	15	235	20	16.3
Sewer Stoppages	24	26	14	6	9	7	13	15	14	13	7	14	162	14	13.5
LPSS Complaints	13	39	20	8	25	17	14	12	25	10	11	18	212	18	14.9
Lift Station Complaints	5	11	14	3	5	5	10	5	0	2	1	2	63	5	4.4
Lift Station Maintenance	113	105	111	107	103	80	58	58	59	58	58	58	968	81	114
Wastewater Gallons Treated	41,937,100	58,566,000	55,557,200	41,768,500	41,353,000	37,927,500	58,119,700	38,004,400	38,649,900	36,452,800	32,459,300	39,028,200	519,823,600	43,318,633	39,396,517
Wastewater Gallons Billed	46,034,325	37,212,999	47,789,903	40,964,276	48,067,168	54,170,784	55,688,750	46,085,031	51,873,806	41,273,851	37,810,500	37,345,560	544,316,953	45,359,746	51,823,938
Total Gallons of Water Pumped	50,355,000	45,694,000	50,758,000	56,068,100	69,795,000	61,675,700	57,716,900	65,651,000	59,462,400	56,545,000	51,828,400	49,742,000	675,291,500	56,274,292	65,346,275
Total Gallons of Water Billed	52,194,715	41,717,469	52,717,893	46,089,536	55,840,548	62,889,474	63,163,630	53,064,709	60,518,798	48,535,431	43,598,530	43,303,730	623,634,463	51,969,539	59,373,518
Estimated Gallons of Water Flushed	2,182,450	2,164,316	2,177,546	2,142,826	3,161,826	2,198,591	2,148,563	2,135,121	2,277,511	2,223,136	2,138,971	2,182,536	27,133,393	2,261,116	2,352,497
Estimated Gallons in Water Leakage	14,070	26,030	179,320	39,280	409,000	289,190	16,845	514,980	4,550	36,670	39,970	25,900	1,595,805	132,984	1,099,498
Not metered Not Billed (Water for Construction)	12,450	6,587	14,856	453,487	756,984	32,958	18,654	65,487	43,852	12,600	37,500	42,580	1,497,995	124,833	11,718
Gallons of Water USED - LVFD	6,000	3,000	5,000	1,000	8,000	5,000	9,000	750	7,000	37,000	9,000	23,000	113,750	9,479	12,167
Total Gallons of Water Accounted for	54,403,685	43,914,402	55,089,615	48,725,129	60,168,358	65,410,213	65,347,692	55,780,297	62,844,711	50,807,837	45,814,971	45,554,746	653,861,656	54,488,471	62,837,231
Total Gallons of Water Unaccounted	-4,048,685	1,779,598	-4,331,615	7,342,971	9,626,642	-3,734,513	-7,630,792	9,870,703	-3,382,311	5,737,163	6,013,429	4,187,254	21,429,844	1,785,820	2,509,044
Percent Unaccounted Water	-8%	4%	-9%	13%	14%	-6%	-13%	15%	-6%	10%	12%	8%		2.9%	3%
% W.W.Treated vs. Wastewater Billed	91%	157%	116%	102%	86%	70%	104%	82%	75%	88%	86%	105%		97%	80%
Population Served	23,724	23,766	23,811	23,853	23,895	23,907	23,898	23,913	23,955	23,967	24,000	24,054		23,895	23,924
Customers with usage 0 - 1500 Gallons "Minimum"	828	1,043	976	916	853	741	873	973	775	966	990	1,042		915	
Customers with usage 1500 - 7000 Gallons "Average"	4,170	4,922	4,757	4,556	4,029	3,616	4,160	4,211	3,980	4,622	4,892	4,917		4,403	
Customers with usage 7000 & Up Gallons "High"	2,130	1,215	1,430	1,691	2,313	2,837	2,955	2,837	3,318	2,472	2,164	2,137		2,292	
Average Gallons of Water per Household per Month	6,600	5,266	6,642	5,797	7,011	7,892	7,929	6,657	7,579	6,075	5,450	10		6075.7	7444.9
AVERAGE Gallons of Water per person per day used	71.0	62.7	71.4	64.4	75.4	87.7	85.3	71.6	84.2	65.3	60.6	58.1		71.5	81.5
AVERAGE Gallons of Sewer per person per day used	62.6	55.9	64.7	57.2	64.9	75.5	75.2	62.2	72.2	55.6	52.5	50.1		62.4	71.1
Monthly average GPM per Connection	0.148	0.131	0.149	0.134	0.157	0.183	0.178	0.149	0.175	0.136	0.126	0.121		0.149	0.170

assuming 3 persons per connection

Draft (2020.02.17)

Syvarth,Cynthia

From: Tony Robinson <Tony.Robinson@tdcj.texas.gov>
Sent: Tuesday, October 17, 2017 12:39 PM
To: Syvarth,Cynthia
Subject: RE: Reg I - Tyler County

Mrs. Syvarth,

As you are aware by now, Mr. Flowers retired in April 2017. I have assumed his duties until his position becomes filled. The average population for the Gib Lewis Unit is 2,240 personnel; which is offenders and staff. The water demand for the unit is 16,203,850 per month, based on the last 3 years of water data. There are no plans for expansions for this Unit.

Tony Robinson
Facilities Maintenance Operations
Office: 325-643-5575 Ext 6278
Cell: 936-355-2829
Fax: 325-223-0294
Tony.robinson@tdcj.texas.gov

From: Syvarth,Cynthia [<mailto:csyvarth@apaienv.com>]
Sent: Monday, October 16, 2017 11:09 AM
To: Jimmy Flowers <jimmy.flowers@tdcj.texas.gov>
Cc: Tony Robinson <Tony.Robinson@tdcj.texas.gov>
Subject: Reg I - Tyler County

Good morning Mr. Flowers,

I am one of the consultants working with the Texas Water Development Board to create the next regional water plan for East Texas. We are currently reviewing population projections and water demands in Tyler County.

Can you provide me with the average population and water demand of the Gib Lewis Unit located in Woodville, TX and how those demands are expected to change over the next fifty years?

I appreciate your time,

Cynthia Amoles Syvarth, PE

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Austin, Texas 78752

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TBPE Firm No. 13

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Draft (2020.02.17)



SOUTHEAST TEXAS GROUNDWATER
CONSERVATION DISTRICT

P.O. Box 1407 / 271 E. Lamar
Jasper, TX 75951

Phone (409) 383-1577 Fax (409) 383-0799

Website: www.setgcd.org / Email: jmartin@setgcd.org

Permittee: SETGCD-1024-42011-O

Well Name/ID: ETEC WELL # 1

Month 2015	Previous Meter Reading	Current Meter Reading	Total Monthly Usage
January	10256835	42178833	31921998
February	42178833	43777515	1598682
March	43777515	44872776	1095261
April	44872776	45741356	868580
May	45741356	46503246	761890
June	46503246	47022970	519724
July	47022970	51194435	4171465
August	51194435	53258308	2063873
September	53258308	54252159	993851
October	54252159	59659492	5407333
November	59659492	60170319	510827
December	60170319	60471703	301384

Well Name/ID: ETEC WELL # 1

Month 2016	Previous Meter Reading	Current Meter Reading	Total Monthly Usage
January	60,471,703	61,453,835	982,132
February	61,453,835	62,054,333	600,498
March	62,054,333	62,054,939	606
April	62,054,939	62,146,252	91,313
May	62,146,252	62,846,775	700,523
June	62,846,775	63,488,701	641,926
July	63,488,701	63,677,383	189,137
August	63,677,383	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0

Please be sure to submit the pumpage numbers after the end of each calendar quarter.
Draft (2020.02.17)

