

## Item 8 – 2018 Agricultural Irrigation Use Estimates

David Stratta will present the 2018 agricultural irrigation estimated usage for adoption. These numbers are used by the Texas Water Development Board. One of the uses includes inclusion in the State Water Plan.

Attached is the estimated usage by county.

**It is the recommendation of the General Manager to approve the presented estimated 2018 agricultural irrigation use numbers for both Brazos and Robertson counties and provide them to the Texas Water Development Board for their use.**

**Brazos County Annual Irrigation Water Use Calculation Chart**

blue = entry fields

2018

Crop	Acreage	Water Use % Categories									Total Inches Used	Total Acre-Feet
		Low			Medium			High				
		Inches/Acre	% Acres	Inches Used	Inches/Acre	% Acres	Inches Used	Inches/Acre	% Acres	Inches Used		
corn	7,352	16	20%	23,526	25.7	60%	113,368	35.4	20%	52,052	188,946	15,746
cotton	9,650	17	10%	16,405	24.15	55%	128,176	31.3	35%	105,716	250,297	20,858
milo	1,205	12	40%	5,784	20.65	60%	14,930	29.3	0%	0	20,714	1,726
wheat, oats	600	6	30%	1,080	8.1	70%	3,402	10.2	0%	0	4,482	374
soybeans	650	13	5%	423	23.8	70%	10,829	34.6	25%	5,623	16,874	1,406
rice	0	46	0%	0	46	0%	0	46	0%	0	0	0
pasture, forage, hay	5,164	18	5%	4,648	25.9	70%	93,623	33.8	25%	43,636	141,907	11,826
vegetables/orchards	1,372	14	0%	0	14	50%	9,604	28	50%	19,208	28,812	2,401
<i>Totals:</i>	25,993			51,866			373,932			207,026	652,032	54,336

**EXPLANATORY FOOTNOTES:**

1. The District will obtain rainfall records from National Weather Service Weather Forecast Office.

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
2018	1.7	4.4	7.38	1.67	3.03	2.9	2.01	1.25	1.01	1.04	6.25	8.45

2. The District will obtain crop moisture index information from the National Oceanic and Atmospheric Administration (NOAA).

3. These figures are based on a survey conducted by The Brazos Valley Groundwater Conservation District in response to the figures reported by the Texas Water Development Board whose figures were based solely on the Farm Service Administration figures and generalized estimates of water usage. These figures do not constitute the official records of the Brazos Valley Groundwater Conservation District nor records kept in ordinary course of business, but represents our best estimates based on local information.

**Robertson County Annual Irrigation Water Use Calculation Chart**

*blue = entry fields*

**2018**

Crop	Acreage	Water Use % Categories									Total Inches Used	Total Acre-Feet
		Low			Medium			High				
		Inches/Acre	% Acres	Inches Used	Inches/Acre	% Acres	Inches Used	Inches/Acre	% Acres	Inches Used		
corn	8,726	16	5%	6,981	25.7	20%	44,852	35.4	75%	231,675	283,508	23,626
cotton	12,768	17	5%	10,853	24.15	60%	185,008	31.3	35%	139,873	335,735	27,978
milo	2,563	12	45%	13,840	20.65	50%	26,463	29.3	5%	3,755	44,058	3,671
wheat, oats	1,050	6	90%	5,670	8.1	10%	851	10.2	0%	0	6,521	543
soybeans	6,583	13	5%	4,279	23.8	20%	31,335	34.6	75%	170,829	206,443	17,204
rice	174	46	0%	0	46	0%	0	46	100%	8,004	8,004	667
pasture, forage, hay	5,639	18	5%	5,075	25.9	50%	73,025	33.8	45%	85,769	163,869	13,656
vegetables/orchards	670	14	0%	0	14	50%	4,690	28	50%	9,380	14,070	1,173
<i>Totals:</i>	38,173			46,698			366,224			639,906	1,062,207	88,517

**EXPLANATORY FOOTNOTES:**

1. The District will obtain rainfall records from National Weather Service Weather Forecast Office.

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
2018	1.18	2.39	4.83	1.45	1.74	4.2	1.22	0.82	4.79	8.93	3.73	7.32

2. The District will obtain crop moisture index information from the National Oceanic and Atmospheric Administration (NOAA).

3. These figures are based on a survey conducted by The Brazos Valley Groundwater Conservation District in response to the figures reported by the Texas Water Development Board whose figures were based solely on the Farm Service Administration figures and generalized estimates of water usage. These figures do not constitute the official records of the Brazos Valley Groundwater Conservation District nor records kept in ordinary course of business, but represents our best estimates based on local information.