

Item 7 – Agricultural Irrigation Use Estimates

David Stratta will present the 2016 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 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

2016

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	4,735	16	30%	22,728	25.7	50%	60,845	35.4	20%	33,524	117,097	9,758
cotton	8,176	17	40%	55,597	24.15	40%	78,980	31.3	20%	51,182	185,759	15,480
milo	980	12	50%	5,880	20.65	50%	10,119	29.3	0%	0	15,999	1,333
wheat, oats	320	6	50%	960	8.1	50%	1,296	10.2	0%	0	2,256	188
soybeans	480	13	25%	1,560	23.8	50%	5,712	34.6	25%	4,152	11,424	952
rice	0	46	0%	0	46	0%	0	46	0%	0	0	0
pasture, forage, hay	1,372	18	40%	9,878	25.9	50%	17,767	33.8	10%	4,637	32,283	2,690
vegetables/orchards	479	14	0%	0	14	100%	6,706	28	0%	0	6,706	559
<i>Totals:</i>	16,542			96,603			181,425			93,495	371,523	30,960

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
2016	2.37	2.39	5.27	8.36	15.19	4.05	1.14	8.37	1.42	1.21	4.25	3.82

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

2016

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	7,865	16	5%	6,292	25.7	55%	111,172	35.4	40%	111,368	228,832	19,069
cotton	10,584	17	35%	62,975	24.15	40%	102,241	31.3	25%	82,820	248,036	20,670
milo	1,087	12	40%	5,218	20.65	50%	11,223	29.3	10%	3,185	19,626	1,635
wheat, oats	650	6	90%	3,510	8.1	10%	527	10.2	0%	0	4,037	336
soybeans	5,833	13	30%	22,749	23.8	40%	55,530	34.6	30%	60,547	138,825	11,569
rice	160	46	0%	0	49.35	0%	0	52.7	100%	8,432	8,432	703
pasture, forage, hay	3,350	18	45%	27,135	33.8	50%	56,615	49.6	5%	8,308	92,058	7,672
vegetables/orchards	460	14	0%	0	28	100%	12,880	44	0%	0	12,880	1,073
<i>Totals:</i>	29,989			127,878			350,188			274,660	752,726	62,727

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
2016	1.25	1.16	6.58	6.62	8.66	2.05	0.58	7.09	2.18	1.27	5.87	2.79

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.