

#### **Item 4 – Agricultural Irrigation Estimates**

David Stratta will present the 2014 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 are the estimated usage by county.

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

*blue = entry fields*

2014

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	3,360	16	30%	16,128	27.15	40%	36,490	38.3	30%	38,606	91,224	7,602
cotton	10,772	17	40%	73,250	23.15	40%	99,749	29.3	20%	63,124	236,122	19,677
milo	1,230	12	50%	7,380	27.8	40%	13,678	43.6	10%	5,363	26,420	2,202
wheat, oats	320	6	50%	960	8.1	50%	1,296	10.2	0%	0	2,256	188
soybeans	480	13	25%	1,560	19.05	50%	4,572	25.1	25%	3,012	9,144	762
rice	0	46	0%	0	46	0%	0	46	0%	0	0	0
pasture, forage, hay	970	18	40%	6,984	33.8	50%	16,393	49.6	10%	4,811	28,188	2,349
vegetables/orchards	177	14	0%	0	14	100%	2,478	14	0%	0	2,478	207
<i>Totals:</i>	17,309			106,262			174,655			114,916	395,833	32,986

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**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
2014	1.2	1.24	2.12	1.28	9.5	3.95	3.11	1.65	6.03	2.3	5.41	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.

Robertson County Annual Irrigation Water Use Calculation Chart

blue = entry fields

2014

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	7,545	16	40%	48,288	27.15	30%	61,454	38.3	30%	86,692	196,434	16,370
cotton	7,118	17	40%	48,402	23.15	40%	65,913	29.3	20%	41,711	156,027	13,002
milo	3,480	12	40%	16,704	27.8	50%	48,372	43.6	10%	15,173	80,249	6,687
wheat, oats	2,350	6	40%	5,640	8.1	60%	11,421	10.2	0%	0	17,061	1,422
soybeans	6,128	13	10%	7,966	19.05	40%	46,695	25.1	50%	76,906	131,568	10,964
rice	200	46	0%	0	61.9	0%	0	77.8	100%	15,560	15,560	1,297
pasture, forage, hay	5,350	18	25%	24,075	33.8	50%	90,415	49.6	25%	66,340	180,830	15,069
vegetables/orchards	460	14	0%	0	28	100%	12,880	44	0%	0	12,880	1,073
<b>Totals:</b>	32,631			151,076			337,150			302,383	790,609	65,884

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**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
2014	0.92	0.91	2.14	1.39	7.01	4.13	2.34	0.96	4.32	2.43	5.62	2.1

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.