

Item 4 – 2019 Agricultural Irrigation Use Estimates

The Texas Water Development Board (TWBD) is required to produce an annual estimate of agricultural water use by county and for the entire state. David Stratta has annually produced estimates for Brazos and Robertson counties using different irrigation levels for all the commodities. Those estimates were then reviewed by the Board, approved, and sent to the TWDB for incorporation into their water use estimates.

I sent David and Mark Carrabba pertinent information necessary to make our own estimates of agricultural use. Rainfall for 2019 was generated by our database query tool specific to the three farming areas in the District (Robertson, Upper Brazos, and Lower Brazos). I have not heard from nor been able to contact David about any revisions he feels are important.

TWDB asked for approval or revisions to the agricultural irrigation estimates by May 7, 2021. I called and got a reprieve until after our board meeting on May 13, 2021. Having received no input from David, Mark Carrabba is satisfied with the draft estimates provided by TWDB.

Attached is the estimated 2019 usage by county for your review.

It is the recommendation of the General Manager to approve the 2019 TWBD draft estimated agricultural irrigation use numbers for both Brazos and Robertson counties.

Texas Water Development Board
2019 DRAFT Irrigation Water Use Estimates

Brazos Valley Groundwater Conservation District

BRAZOS COUNTY		<i>*Note, these DRAFT estimates are for 2019</i>		
Crop Number	Crop Name	Draft Acres	Draft Inches per Acre	Draft Acre-Feet
1	COTTON	6,750	22	12,375
2	SORGHUM	1,290	17	1,828
3	CORN	2,900	24	5,800
4	RICE	0		0
5	WHEAT	550	8	367
6	OTHER_GRAIN	0		0
7	FORAGE_HAY_PASTURE	3,500	23	6,708
8	PEANUTS	0		0
9	SOY_OIL	650	21	1,138
10	VINEYARD	40	4	13
11	ORCHARD	0		0
12	ALFALFA	170	14	198
13	SUGARCANE	0		0
14	VEGETABLES	1,340	15	1,675
15	OTHER	1,020	17	1,445
16	GOLF_COURSES	360	17	510
17	FAILED	0		0
County Total		18,570		32,057

Estimated county-wide average irrigation application efficiency percentage: <u>62%</u>	Groundwater (Acre-Feet): <u>31,085</u>
	Surface Water (Acre-Feet): <u>972</u>
	Waste-Water Reuse (Acre-Feet): <u>0</u>

Please review the Draft 2019 irrigation water use estimates and irrigation application efficiency estimate then provide any necessary revisions via email to Antonio.Delgado@twdb.texas.gov, or mail to Texas Water Development Board, Attention: Ag Conservation, 1700 North Congress Avenue, P.O. Box 13231, Austin, TX 78711-3231. Please direct calls to Antonio Delgado (512) 463-7984.

Texas Water Development Board
2019 DRAFT Irrigation Water Use Estimates

Brazos Valley Groundwater Conservation District

ROBERTSON COUNTY

**Note, these DRAFT estimates are for 2019*

Crop Number	Crop Name	Draft Acres	Draft Inches per Acre	Draft Acre-Feet
1	COTTON	10,680	22	19,580
2	SORGHUM	1,750	20	2,917
3	CORN	4,510	26	9,772
4	RICE	320	56	1,493
5	WHEAT	1,100	7	642
6	OTHER_GRAIN	0		0
7	FORAGE_HAY_PASTURE	5,250	28	12,250
8	PEANUTS	0		0
9	SOY_OIL	6,400	23	12,267
10	VINEYARD	0		0
11	ORCHARD	200	29	483
12	ALFALFA	0		0
13	SUGARCANE	0		0
14	VEGETABLES	500	24	1,000
15	OTHER	150	23	288
16	GOLF_COURSES	120	16	160
17	FAILED	0		0
County Total		30,980		60,852

Estimated county-wide average irrigation application efficiency percentage: <u>62%</u>	Groundwater (Acre-Feet):	<u>60,350</u>
	Surface Water (Acre-Feet):	<u>502</u>
	Waste-Water Reuse (Acre-Feet):	<u>0</u>

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