

Eastland County, Texas

Proposed 3A

Statistical Measures of Population Equality
(County Population 18,583)

Commissioner Precinct	Actual Population	Ideal Population	Absolute Deviation	Relative Deviation
Precinct 1	4,700	4,646	54	1.16%
Precinct 2	4,558	4,646	-88	-1.89%
Precinct 3	4,778	4,646	132	2.84%
Precinct 4	4,547	4,646	-99	-2.13%
Total Population	18,583			

Ideal Population is defined as (total county population divided by 4). Absolute and Relative (%) Deviations are difference in actual and ideal.

-99 to 132 **Absolute Range** is the spread in absolute deviation from the smallest precinct to the largest.

-2.13% to 2.84% **Relative Range** is the spread in relative deviation (%) from the smallest precinct to the largest.

93.25 **Absolute Mean Deviation** is the average deviation, which is calculated by adding all the absolute deviations (ignoring "+" and "-" signs) and dividing by 4.

2.01% **Relative Mean Deviation** is the average deviation, which is calculated by adding all the relative deviations (ignoring "+" and "-" signs) and dividing by 4.

48.66 **Standard Deviation of Population** is the square root of the sum of the squares of all the absolute deviations divided by 4.

1.05% **Standard Deviation of Relative Deviations** is the square root of the sum of the squares of all the relative (%) deviations divided by 4.

8.03% **Total Absolute Deviation** is the sum of all relative deviations (ignoring "+" and "-" signs).

4.97%	Total Maximum Deviation is the sum of the relative deviations (%) of the smallest and largest precincts, (ignoring "+" and "-" signs).
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Analysis of Population in Commissioner Precincts based on 2010 Census data

Ethnic Background of Total Population

	Anglo	Black	Amer. Indian	Asian	Hispanic	Hawaii/Pac. Is.	Other	Multi Race	Prec. Total	% of County
Precinct 1	3,724	81	13	28	814	2	0	38	4,700	25.29%
Precinct 2	3,707	89	38	5	666	3	2	48	4,558	24.53%
Precinct 3	4,005	10	15	12	702	3	3	28	4,778	25.71%
Precinct 4	3,835	138	26	17	491	0	3	37	4,547	24.47%
County Total	15,271	318	92	62	2,673	8	8	151	18,583	100.00%
% of County	82.18%	1.71%	0.50%	0.33%	14.38%	0.04%	0.04%	0.81%	100.00%	

Ethnic Background as a % of Total Population

	Anglo	Black	Amer. Ind.	Asian	Hispanic	Haw/Pac	Other	Multi	% Total
Precinct 1	79.23%	1.72%	0.28%	0.60%	17.32%	0.04%	0.00%	0.81%	100.00%
Precinct 2	81.33%	1.95%	0.83%	0.11%	14.61%	0.07%	0.04%	1.05%	100.00%
Precinct 3	83.82%	0.21%	0.31%	0.25%	14.69%	0.06%	0.06%	0.59%	100.00%
Precinct 4	84.34%	3.03%	0.57%	0.37%	10.80%	0.00%	0.07%	0.81%	100.00%

Ethnic Background of Voting Age Population

	Anglo	Black	Amer. Indian	Asian	Hispanic	Hawaii/Pac. Is.	Other	Multi Race	Prec. Total	% of County
Precinct 1	2,939	59	9	22	499	2	0	21	3,551	24.62%
Precinct 2	3,027	80	31	5	430	3	2	34	3,612	25.05%
Precinct 3	3,261	9	14	10	420	3	1	20	3,738	25.92%
Precinct 4	3,017	125	23	16	311	0	3	25	3,520	24.41%
County Total	12,244	273	77	53	1,660	8	6	100	14,421	100.00%
% of County	84.90%	1.89%	0.53%	0.37%	11.51%	0.06%	0.04%	0.69%	100.00%	

Ethnic Background as a % of Voting Age Population

	Anglo	Black	Amer. Ind.	Asian	Hispanic	Haw/Pac	Other	Multi	% Total
Precinct 1	82.77%	1.66%	0.25%	0.62%	14.05%	0.06%	0.00%	0.59%	100.00%
Precinct 2	83.80%	2.21%	0.86%	0.14%	11.90%	0.08%	0.06%	0.94%	100.00%
Precinct 3	87.24%	0.24%	0.37%	0.27%	11.24%	0.08%	0.03%	0.54%	100.00%
Precinct 4	85.71%	3.55%	0.65%	0.45%	8.84%	0.00%	0.09%	0.71%	100.00%