

Watershed Report

St. Francis Bay

0802020305

The Center for Advanced Spatial Technologies at the University of Arkansas has developed the Arkansas Automated Reporting and Mapping System with funding from the Arkansas 85th General Assembly through the Arkansas Natural Resource Commission. The 308 ten-digit watershed units and the 1556 twelve-digit watershed units were delineated by the Natural Resources Conservation Service, a division of the US Department of Agriculture. For all watersheds that cross the Arkansas border, only the Arkansas portion of the watershed was used for mapping and statistical reporting.

Watershed Summary (10 Digit HUC)

St. Francis Bay (0802020305)

Area Summary

Area - Square Miles..... 538.16
 Area - Acres..... 348450.79

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	158.00	518.00
Elevation Minimum.....	52.00	171.00
Elevation Average.....	76.00	249.00

Population Summary

Population Estimate for 1990..... 49638.00
 Population Density for 1990 (persons/sq mi)... 92.24
 Population Estimate for 2000..... 59986.00
 Population Density for 2000 (persons/sq mi)... 111.47
 Population Percent Change..... 20.85%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	85.66	15.92%	85.67	15.92%	.01%
0-5	73.15	13.59%	75.95	14.11%	3.83%
5-10	65.97	12.26%	77.81	14.46%	17.95%
10-25	146.32	27.19%	121.80	22.63%	-16.76%
25-50	73.33	13.63%	63.50	11.80%	-13.41%
50-100	43.84	8.15%	48.31	8.98%	10.20%
100-500	34.63	6.43%	45.17	8.39%	30.44%
500-1000	6.49	1.21%	8.45	1.57%	30.20%
> 1000	8.88	1.65%	11.61	2.16%	30.74%

Sub-Watershed Summary (12 Digit HUC)

Gum Slough *(080202030505)*

Area Summary

Area - Square Miles.....: 47.72
Area - Acres.....: 30901.09

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	131.00	430.00
Elevation Minimum.....:	65.00	213.00
Elevation Average.....:	72.00	236.00

Population Summary

Population Estimate for 1990.....: 3823.00
Population Density for 1990 (persons/sq mi)...: 80.11
Population Estimate for 2000.....: 4422.00
Population Density for 2000 (persons/sq mi)...: 92.67
Population Percent Change.....: 15.67%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.68	9.81%	3.72	7.80%	-20.51%
0-5	4.67	9.79%	8.45	17.71%	80.94%
5-10	4.71	9.87%	3.37	7.06%	-28.45%
10-25	17.14	35.92%	13.51	28.31%	-21.18%
25-50	9.04	18.94%	9.39	19.68%	3.87%
50-100	2.99	6.27%	5.18	10.85%	73.24%
100-500	2.70	5.66%	2.34	4.90%	-13.33%
500-1000	1.13	2.37%	.94	1.97%	-16.81%
> 1000	.60	1.26%	.76	1.59%	26.67%

Ditch No. 123
(080202030504)

Area Summary

Area - Square Miles.....:	34.41
Area - Acres.....:	22278.82

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	70.00	230.00
Elevation Minimum.....:	59.00	194.00
Elevation Average.....:	65.00	213.00

Population Summary

Population Estimate for 1990.....:	1109.00
Population Density for 1990 (persons/sq mi)....:	32.23
Population Estimate for 2000.....:	1189.00
Population Density for 2000 (persons/sq mi)....:	34.55
Population Percent Change.....:	7.21%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	3.06	8.89%	6.83	19.85%	123.20%
0-5	11.28	32.78%	7.28	21.16%	-35.46%
5-10	2.92	8.49%	4.78	13.89%	63.70%
10-25	10.53	30.60%	8.82	25.63%	-16.24%
25-50	3.77	10.96%	2.72	7.90%	-27.85%
50-100	1.07	3.11%	1.22	3.55%	14.02%
100-500	1.50	4.36%	2.47	7.18%	64.67%
500-1000	.25	.73%	.22	.64%	-12.00%
> 1000	.07	.20%	.13	.38%	85.71%

**Upper Ditch No. 10
(080202030506)**

Area Summary

Area - Square Miles.....:	33.05
Area - Acres.....:	21400.35

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	73.00	239.00
Elevation Minimum.....:	63.00	207.00
Elevation Average.....:	68.00	223.00

Population Summary

Population Estimate for 1990.....:	1538.00
Population Density for 1990 (persons/sq mi)....:	46.54
Population Estimate for 2000.....:	1436.00
Population Density for 2000 (persons/sq mi)....:	43.45
Population Percent Change.....:	-6.63%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	6.94	21.00%	5.31	16.07%	-23.49%
0-5	7.45	22.54%	6.97	21.09%	-6.44%
5-10	3.52	10.65%	7.64	23.12%	117.05%
10-25	9.44	28.56%	9.89	29.92%	4.77%
25-50	4.45	13.46%	1.87	5.66%	-57.98%
50-100	.42	1.27%	.85	2.57%	102.38%
100-500	.46	1.39%	.15	.45%	-67.39%
500-1000	.00	-.--%	.17	.51%	-.--%
> 1000	.44	1.33%	.29	.88%	-34.09%

**Little Bay Outlet
(080202030508)**

Area Summary

Area - Square Miles.....: **30.46**
 Area - Acres.....: **19722.56**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	119.00	390.00
Elevation Minimum.....:	62.00	203.00
Elevation Average.....:	75.00	246.00

Population Summary

Population Estimate for 1990.....: **16338.00**
 Population Density for 1990 (persons/sq mi)...: **536.38**
 Population Estimate for 2000.....: **16796.00**
 Population Density for 2000 (persons/sq mi)...: **551.41**
 Population Percent Change.....: **2.80%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	5.73	18.81%	3.94	12.93%	-31.24%
0-5	2.47	8.11%	1.85	6.07%	-25.10%
5-10	2.75	9.03%	7.56	24.82%	174.91%
10-25	6.33	20.78%	3.69	12.11%	-41.71%
25-50	3.33	10.93%	2.84	9.32%	-14.71%
50-100	1.79	5.88%	2.06	6.76%	15.08%
100-500	2.48	8.14%	2.88	9.46%	16.13%
500-1000	1.33	4.37%	1.23	4.04%	-7.52%
> 1000	3.68	12.08%	3.83	12.57%	4.08%

**Middle Ditch No. 10
(080202030509)**

Area Summary

Area - Square Miles.....: **46.19**
 Area - Acres.....: **29904.89**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	72.00	236.00
Elevation Minimum.....:	60.00	197.00
Elevation Average.....:	66.00	216.00

Population Summary

Population Estimate for 1990.....: **4293.00**
 Population Density for 1990 (persons/sq mi)...: **92.94**
 Population Estimate for 2000.....: **4925.00**
 Population Density for 2000 (persons/sq mi)...: **106.62**
 Population Percent Change.....: **14.72%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	10.67	23.10%	7.13	15.44%	-33.18%
0-5	4.68	10.13%	10.48	22.69%	123.93%
5-10	7.45	16.13%	9.41	20.37%	26.31%
10-25	12.82	27.75%	8.65	18.73%	-32.53%
25-50	5.22	11.30%	5.26	11.39%	.77%
50-100	2.29	4.96%	.96	2.08%	-58.08%
100-500	1.35	2.92%	2.70	5.85%	100.00%
500-1000	.99	2.14%	.44	.95%	-55.56%
> 1000	.68	1.47%	1.11	2.40%	63.24%

**Lower Ditch No. 10
(080202030510)**

Area Summary

Area - Square Miles.....: **42.96**
 Area - Acres.....: **27818.03**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	69.00	226.00
Elevation Minimum.....:	58.00	190.00
Elevation Average.....:	64.00	210.00

Population Summary

Population Estimate for 1990.....: **185.00**
 Population Density for 1990 (persons/sq mi)...: **4.31**
 Population Estimate for 2000.....: **133.00**
 Population Density for 2000 (persons/sq mi)...: **3.10**
 Population Percent Change.....: **-28.11%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	22.97	53.47%	23.70	55.17%	3.18%
0-5	8.18	19.04%	12.61	29.35%	54.16%
5-10	2.44	5.68%	2.77	6.45%	13.52%
10-25	8.63	20.09%	2.72	6.33%	-68.48%
25-50	.68	1.58%	1.13	2.63%	66.18%
50-100	.02	.05%	.00	-.--%	-.--%
100-500	.02	.05%	.02	.05%	.00%
500-1000	.00	-.--%	.00	-.--%	-.--%
> 1000	.00	-.--%	.00	-.--%	-.--%

**Purcell Slough
(080202030503)**

Area Summary

Area - Square Miles.....: **45.78**
 Area - Acres.....: **29642.49**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	77.00	253.00
Elevation Minimum.....:	64.00	210.00
Elevation Average.....:	68.00	223.00

Population Summary

Population Estimate for 1990.....: **4441.00**
 Population Density for 1990 (persons/sq mi)...: **97.01**
 Population Estimate for 2000.....: **4474.00**
 Population Density for 2000 (persons/sq mi)...: **97.73**
 Population Percent Change.....: **.74%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.95	10.81%	4.38	9.57%	-11.52%
0-5	7.40	16.16%	1.73	3.78%	-76.62%
5-10	3.27	7.14%	11.63	25.40%	255.66%
10-25	13.40	29.27%	16.00	34.95%	19.40%
25-50	11.48	25.08%	4.55	9.94%	-60.37%
50-100	1.95	4.26%	3.25	7.10%	66.67%
100-500	2.05	4.48%	2.92	6.38%	42.44%
500-1000	.34	.74%	.34	.74%	.00%
> 1000	.85	1.86%	.90	1.97%	5.88%

**Ditch No. 1 Headwaters
(080202030511)**

Area Summary

Area - Square Miles.....: **47.79**
 Area - Acres.....: **30945.27**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximum.....:	134.00	440.00
Elevation Minimum.....:	63.00	207.00
Elevation Average.....:	86.00	282.00

Population Summary

Population Estimate for 1990.....: **9390.00**
 Population Density for 1990 (persons/sq mi)...: **196.48**
 Population Estimate for 2000.....: **15195.00**
 Population Density for 2000 (persons/sq mi)...: **317.95**
 Population Percent Change.....: **61.82%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	2.70	5.65%	2.47	5.17%	-8.52%
0-5	.45	.94%	2.21	4.62%	391.11%
5-10	3.32	6.95%	2.12	4.44%	-36.14%
10-25	8.97	18.77%	2.01	4.21%	-77.59%
25-50	9.56	20.00%	12.13	25.38%	26.88%
50-100	6.93	14.50%	8.01	16.76%	15.58%
100-500	12.22	25.57%	12.65	26.47%	3.52%
500-1000	1.79	3.75%	2.67	5.59%	49.16%
> 1000	1.92	4.02%	3.59	7.51%	86.98%

Thompson Ditch (080202030502)

Area Summary

Area - Square Miles.....: **34.57**
 Area - Acres.....: **22381.69**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	158.00	518.00
Elevation Minimum.....:	69.00	226.00
Elevation Average.....:	86.00	282.00

Population Summary

Population Estimate for 1990.....: **913.00**
 Population Density for 1990 (persons/sq mi)...: **26.41**
 Population Estimate for 2000.....: **1086.00**
 Population Density for 2000 (persons/sq mi)...: **31.41**
 Population Percent Change.....: **18.95%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	2.47	7.14%	1.88	5.44%	-23.89%
0-5	7.69	22.24%	5.23	15.13%	-31.99%
5-10	3.52	10.18%	6.07	17.56%	72.44%
10-25	9.84	28.46%	7.43	21.49%	-24.49%
25-50	4.82	13.94%	7.86	22.74%	63.07%
50-100	4.60	13.31%	4.44	12.84%	-3.48%
100-500	1.31	3.79%	1.35	3.91%	3.05%
500-1000	.03	.09%	.03	.09%	.00%
> 1000	.00	-.--%	.00	-.--%	-.--%

Little Bay Ditch Headwaters (080202030507)

Area Summary

Area - Square Miles.....:	33.82
Area - Acres.....:	21900.90

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	149.00	489.00
Elevation Minimum.....:	66.00	216.00
Elevation Average.....:	84.00	276.00

Population Summary

Population Estimate for 1990.....:	4107.00
Population Density for 1990 (persons/sq mi)....:	121.44
Population Estimate for 2000.....:	6176.00
Population Density for 2000 (persons/sq mi)....:	182.61
Population Percent Change.....:	50.38%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	2.32	6.86%	2.48	7.33%	6.90%
0-5	.78	2.31%	.00	-.--%	-.--%
5-10	.29	.86%	.48	1.42%	65.52%
10-25	7.00	20.70%	6.36	18.81%	-9.14%
25-50	6.58	19.46%	4.27	12.63%	-35.11%
50-100	9.15	27.05%	8.76	25.90%	-4.26%
100-500	7.17	21.20%	8.96	26.49%	24.97%
500-1000	.43	1.27%	2.16	6.39%	402.33%
> 1000	.52	1.54%	.77	2.28%	48.08%

**Big Bay Ditch
(080202030501)**

Area Summary

Area - Square Miles.....	32.48
Area - Acres.....	21029.45

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....	149.00	489.00
Elevation Minimum.....	69.00	226.00
Elevation Average.....	78.00	256.00

Population Summary

Population Estimate for 1990.....	848.00
Population Density for 1990 (persons/sq mi)....	26.11
Population Estimate for 2000.....	1048.00
Population Density for 2000 (persons/sq mi)....	32.27
Population Percent Change.....	23.58%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.07	12.53%	2.95	9.08%	-27.52%
0-5	1.37	4.22%	2.45	7.54%	78.83%
5-10	5.08	15.64%	6.30	19.40%	24.02%
10-25	15.10	46.49%	10.73	33.04%	-28.94%
25-50	4.42	13.61%	6.22	19.15%	40.72%
50-100	2.42	7.45%	2.37	7.30%	-2.07%
100-500	.71	2.19%	2.05	6.31%	188.73%
500-1000	.00	-.--%	.01	.03%	-.--%
> 1000	.01	.03%	.08	.25%	700.00%

**Clark Corner Cutoff
(080202030514)**

Area Summary

Area - Square Miles.....:	41.77
Area - Acres.....:	27042.89

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	137.00	449.00
Elevation Minimum.....:	52.00	171.00
Elevation Average.....:	87.00	285.00

Population Summary

Population Estimate for 1990.....:	1236.00
Population Density for 1990 (persons/sq mi)....:	29.59
Population Estimate for 2000.....:	1420.00
Population Density for 2000 (persons/sq mi)....:	34.00
Population Percent Change.....:	14.89%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.94	11.83%	7.05	16.88%	42.71%
0-5	8.00	19.15%	13.44	32.18%	68.00%
5-10	8.16	19.54%	2.48	5.94%	-69.61%
10-25	7.14	17.09%	7.22	17.29%	1.12%
25-50	3.87	9.27%	.22	.53%	-94.32%
50-100	8.96	21.45%	7.65	18.31%	-14.62%
100-500	.56	1.34%	3.61	8.64%	544.64%
500-1000	.09	.22%	.05	.12%	-44.44%
> 1000	.04	.10%	.04	.10%	.00%

**St. Francis Bay
(080202030513)**

Area Summary

Area - Square Miles.....: 33.58
 Area - Acres.....: 21739.86

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	140.00	459.00
Elevation Minimum.....:	53.00	174.00
Elevation Average.....:	78.00	256.00

Population Summary

Population Estimate for 1990.....: 388.00
 Population Density for 1990 (persons/sq mi)...: 11.55
 Population Estimate for 2000.....: 405.00
 Population Density for 2000 (persons/sq mi)...: 12.06
 Population Percent Change.....: 4.38%

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	5.25	15.63%	6.98	20.79%	32.95%
0-5	4.55	13.55%	.12	.36%	-97.36%
5-10	10.83	32.25%	9.73	28.98%	-10.16%
10-25	10.68	31.80%	14.37	42.79%	34.55%
25-50	1.37	4.08%	1.69	5.03%	23.36%
50-100	.57	1.70%	.37	1.10%	-35.09%
100-500	.06	.18%	.04	.12%	-33.33%
500-1000	.02	.06%	.02	.06%	.00%
> 1000	.00	-.--%	.00	-.--%	-.--%

**Ditch No. 1 Outlet
(080202030512)**

Area Summary

Area - Square Miles.....: **33.58**
 Area - Acres.....: **21742.50**

Elevation Summary

	<u>Meters</u>	<u>Feet</u>
Elevation Maximun.....:	137.00	449.00
Elevation Minimum.....:	59.00	194.00
Elevation Average.....:	82.00	269.00

Population Summary

Population Estimate for 1990.....: **1030.00**
 Population Density for 1990 (persons/sq mi)...: **30.67**
 Population Estimate for 2000.....: **1282.00**
 Population Density for 2000 (persons/sq mi)...: **38.18**
 Population Percent Change.....: **24.47%**

Population Density Summary

<u>Density</u>	<u>Area 1990</u>	<u>% of Total</u>	<u>Area 2000</u>	<u>% of Total</u>	<u>% Change</u>
0	4.90	14.59%	6.84	20.37%	39.59%
0-5	4.20	12.51%	3.12	9.29%	-25.71%
5-10	7.70	22.93%	3.47	10.33%	-54.94%
10-25	9.30	27.70%	10.43	31.06%	12.15%
25-50	4.73	14.09%	3.33	9.92%	-29.60%
50-100	.69	2.05%	3.19	9.50%	362.32%
100-500	2.03	6.05%	3.03	9.02%	49.26%
500-1000	.09	.27%	.17	.51%	88.89%
> 1000	.07	.21%	.12	.36%	71.43%
