

TABLE B29. Summary of per acre costs and returns for a 600 acre farm with above average management, Arch Hurley Conservancy District, Quay County, 2001.

	ALFALFA ESTABLISHMENT	ALFALFA HAY -----SPRINKLER-----	GRAIN SORGHUM	WHEAT
		TONS	CWT	BU
PRIMARY YIELD		5.00	44.00	40.00
PRIMARY PRICE		126.00	3.75	2.60
GOVERNMENT PAYMENTS		0.00	25.52	18.96
SECOND INCOME		48.00	48.00	48.00
GROSS RETURN		\$678.00	\$238.52	\$170.96
CASH OPERATING EXPENSES				
SEED	\$55.60		\$7.77	\$9.60
FERTILIZER	\$27.60	\$18.00	\$31.60	\$31.60
CHEMICALS			\$14.71	\$14.71
CROP INSURANCE			\$0.22	\$0.29
OTHER PURCHASED INPUTS		\$16.00	\$0.08	\$0.05
CANAL WATER	\$3.50	\$21.00	\$17.50	\$14.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$4.78	\$12.77	\$10.03	\$9.00
FUEL-IRRIGATION	\$6.53	\$26.13	\$19.59	\$13.06
REPAIRS	\$6.91	\$22.36	\$44.43	\$40.81
CUSTOM CHARGES		\$0.00		
LAND TAXES		\$0.84	\$0.84	\$0.84
OTHER EXPENSES	\$0.02	\$33.79	\$33.79	\$33.79
TOTAL CASH EXPENSES	\$104.94	\$150.88	\$180.56	\$167.75
RETURN OVER CASH EXPENSES	(\$104.94)	\$527.12	\$57.96	\$3.21
FIXED EXPENSES	\$11.80	\$68.02	\$50.43	\$43.47
TOTAL EXPENSES	\$116.74	\$218.90	\$230.98	\$211.23
NET FARM INCOME	(\$116.74)	\$459.10	\$7.54	(\$40.27)
LABOR AND MANAGEMENT COSTS	\$19.10	\$85.49	\$46.35	\$27.14
NET OPERATING PROFIT	(\$135.84)	\$373.61	(\$38.81)	(\$67.41)
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		\$3.30	\$4.25	\$3.94
INTEREST ON EQUIPMENT INVESTMENT		\$33.36	\$29.45	\$25.33
TOTAL CAPITAL COSTS	\$0.00	\$36.65	\$33.71	\$29.27
RETURN TO LAND AND RISK	(\$135.84)	\$336.96	(\$72.52)	(\$96.68)

TABLE C29 Whole farm summary, Arch Hurley Conservancy District,
Quay County, 2001.

GROSS RETURNS		
ALFALFA HAY	200 ACRES	
CROP		\$126,000
GRAZING		\$9,600
GRAIN SORGHUM	230 ACRES	
CROP		\$37,950
GRAZING		\$11,040
ASCS DEFICIENCY		\$5,870
ASCS DEFICIENCY		\$0
WHEAT	170 ACRES	
CROP		\$17,680
GRAZING		\$8,160
ASCS DEFICIENCY		\$2,086
ASCS DIVERSION		\$0
GROSS RETURN		\$218,385
CASH OPERATING EXPENSES		
SEED		\$4,809
FERTILIZER		\$16,930
CHEMICALS		\$5,885
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$3,227
CANAL WATER		\$10,693
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$6,511
FUEL-IRRIGATION		\$12,116
REPAIRS		\$21,800
CUSTOM CHARGES		\$0
LAND TAXES		\$502
OTHER EXPENSES		\$20,272
TOTAL CASH EXPENSES		\$102,845
RETURN OVER CASH EXPENSES		\$115,540
FIXED EXPENSES		\$29,492
TOTAL EXPENSES		\$132,337
NET FARM INCOME		\$86,049
LABOR AND MANAGEMENT COSTS		\$32,851
NET OPERATING PROFIT		\$53,198
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,308
INTEREST ON EQUIPMENT INVESTMENT		\$17,751
TOTAL CAPITAL COSTS		\$20,059
RETURN TO LAND AND RISK		\$33,139

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$200 /ACRE	\$28,339	16.90%
\$400 /ACRE	\$23,539	12.24%
\$600 /ACRE	\$18,739	9.59%
\$800 /ACRE	\$13,939	7.88%
\$1,000 /ACRE	\$9,139	6.69%
\$1,200 /ACRE	\$4,339	5.82%

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)