

TABLE 5. Grain sorghum, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Rogers-Dora area, Roosevelt County, Actual 2018
Planting Dates: May 15 - May 30
Harvest Dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE						TOTAL	
GROSS RETURNS										
GRAIN SORGHUM	\$6.65	15.00 CWT							\$99.75	
DIRECT PAYMENT	\$0.00	15.00 CWT	0.85						\$0.00	
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT							\$0.00	
GRAZING	\$5.00	1 ACRE							\$5.00	
TOTAL									\$104.75	
PURCHASED INPUTS										
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS						FIXED COST	TOTAL
SEED	\$2.25	3 LBS	\$6.75							\$6.75
INSECTICIDE	\$15.88	1 X/ACRE	\$15.88							\$15.88
CROP INSURANCE	\$0.12		\$0.12							\$0.12
SUBTOTAL			\$22.75							\$22.75
PREHARVEST OPERATIONS										
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL		
DISC	165 HP	0.11 HR		\$0.94	\$3.01	\$1.61	\$3.39	\$8.95		
STUBBLE MULCH	165 HP	0.10 HR		\$0.86	\$2.73	\$1.34	\$3.04	\$7.97		
LISTER	165 HP	0.09 HR		\$0.77	\$2.46	\$0.84	\$2.97	\$7.04		
ROD WEED	165 HP	0.05 HR		\$0.43	\$1.37	\$0.34	\$1.22	\$3.36		
PLANTER	93 HP	0.12 HR		\$1.03	\$2.06	\$0.42	\$3.16	\$6.67		
CULTIVATOR	93 HP	0.10 HR		\$0.86	\$1.72	\$0.59	\$1.71	\$4.87		
SPRAYER	93 HP	0.06 HR		\$0.51	\$1.03	\$0.10	\$0.73	\$2.37		
SUBTOTAL		0.63 HR		\$5.39	\$14.38	\$5.24	\$16.22	\$41.23		
HARVEST OPERATIONS										
COMBINE		0.14 HR		\$1.20	\$3.57	\$0.36	\$9.07	\$14.19		
HAUL	2 TON	0.14 HR		\$1.20	\$2.71	\$0.90	\$4.81	\$9.62		
SUBTOTAL		0.28 HR		\$2.39	\$6.28	\$1.26	\$13.88	\$23.82		
OVERHEAD EXPENSES										
DOWNTIME		0.12 HR		\$1.00				\$1.00		
EMPLOYEE BENEFITS				\$1.40				\$1.40		
INSURANCE			\$0.16					\$0.16		
LAND TAXES							\$0.60	\$0.60		
SUPERVISION AND MANAGEMENT				\$7.85				\$7.85		
OTHER EXPENSES			\$38.06					\$38.06		
SUBTOTAL		0.12 HR		\$38.21	\$10.25		\$0.60	\$49.07		
TOTAL OPERATING EXPENSES		1.03 HR		\$60.97	\$18.03	\$20.66	\$6.50	\$30.71	\$136.86	
NET OPERATING PROFIT									(\$32.11)	
INTEREST ON OPERATING CAPITAL		(\$16.91 @ 5.75%)							\$0.97	
INTEREST ON EQUIPMENT INVESTMENT									\$11.76	
RETURN TO LAND AND RISK									(\$44.84)	
BUDGET SUMMARY										
GROSS RETURN			\$104.75							
VARIABLE OPERATING EXPENSES	\$88.12									
RETURN OVER VARIABLE EXPENSES		\$16.63	(GROSS MARGIN)							
FIXED EXPENSES	\$30.71									
NET FARM INCOME		(\$14.08)	(RETURN TO CAPITAL, LABOR, LAND & RISK)							
LABOR AND MANAGEMENT COST	\$18.03									
NET OPERATING PROFIT		(\$32.11)	(RETURN TO CAPITAL, LAND & RISK)							
CAPITAL COSTS	\$12.73									
RETURN TO LAND AND RISK			(\$44.84)							

TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Rogers-Dora area, Roosevelt County, Actual 2018
 Planting dates: August 15 - September 15
 Harvesting dates: June 1 - June 25

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
WHEAT	\$4.75	18.00 BUSHELS		\$85.50
DIRECT PAYMENT	\$0.00	18.00 BUSHEL	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$10.00	1.00 ACRE		\$10.00
TOTAL				\$95.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.37	30 LB	\$11.10		\$11.10
CROP INSURANCE	\$0.09		\$0.09		\$0.09
			\$11.19		\$11.19

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
STUBBLE MULCH	165 HP	0.10 HR		\$0.86	\$2.73	\$1.34	\$3.04	\$7.97
DISC	165 HP	0.11 HR		\$0.94	\$3.01	\$1.61	\$3.39	\$8.95
RODWEED	165 HP	0.05 HR		\$0.43	\$1.37	\$0.34	\$1.22	\$3.36
DRILL	93 HP	0.05 HR		\$0.43	\$0.86	\$0.23	\$3.01	\$4.53
SUBTOTAL		0.31 HR		\$2.65	\$7.97	\$3.52	\$10.66	\$24.80

HARVEST OPERATIONS		ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE		0.14 HR		\$1.20	\$3.57	\$0.36	\$9.07	\$14.19
HAUL	2 TON	0.14 HR		\$1.20	\$2.71	\$0.90	\$4.81	\$9.62
SUBTOTAL		0.28 HR		\$2.39	\$6.28	\$1.26	\$13.88	\$23.82

OVERHEAD EXPENSES		ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME		0.10 HR		\$0.86				\$0.86
EMPLOYEE BENEFITS				\$0.91				\$0.91
INSURANCE			\$0.10					\$0.10
LAND TAXES							\$0.60	\$0.60
SUPERVISION AND MANAGEMENT				\$6.84				\$6.84
OTHER EXPENSES			\$38.06					\$38.06
SUBTOTAL		0.10 HR	\$38.16	\$8.60			\$0.60	\$47.36

TOTAL OPERATING EXPENSES 0.69 HR \$49.26 \$13.65 \$14.25 \$4.78 \$25.15 \$107.08

NET OPERATING PROFIT (\$11.58)

INTEREST ON OPERATING CAPITAL (\$9.05 @ 5.75%) \$0.52
 INTEREST ON EQUIPMENT INVESTMENT \$9.14

RETURN TO LAND AND RISK (\$21.24)

BUDGET SUMMARY			
GROSS RETURN		\$95.50	
VARIABLE OPERATING EXPENSES	\$68.29		
RETURN OVER VARIABLE EXPENSES	\$27.21		(GROSS MARGIN)
FIXED EXPENSES	\$25.15		
NET FARM INCOME		\$2.07	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$13.65		
NET OPERATING PROFIT		(\$11.58)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$9.66		
RETURN TO LAND AND RISK		(\$21.24)	

TABLE 7. Summary of per acre costs and returns for a 1,280 acre farm, Roosevelt County,
Actual 2018

	GRAIN SORGHUM	WHEAT
	CWT	BU
PRIMARY YIELD	15.00	18.00
PRIMARY PRICE	\$6.65	\$4.75
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$5.00	\$10.00
GROSS RETURN	\$104.75	\$95.50
CASH OPERATING EXPENSES		
SEED	\$6.75	\$11.10
FERTILIZER		
CHEMICALS	\$15.88	
CROP INSURANCE	\$0.12	\$0.09
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$20.66	\$14.25
FUEL-IRRIGATION		
REPAIRS	\$6.50	\$4.78
CUSTOM CHARGES	\$0.00	\$0.00
LAND TAXES	\$0.60	\$0.60
OTHER EXPENSES	\$38.21	\$38.16
TOTAL CASH EXPENSES	\$88.72	\$68.98
RETURN OVER CASH EXPENSES	\$16.03	\$26.52
FIXED EXPENSES	\$30.11	\$24.55
TOTAL EXPENSES	\$118.83	\$93.52
NET FARM INCOME	(\$14.08)	\$1.98
LABOR AND MANAGEMENT COSTS	\$18.03	\$13.65
NET OPERATING PROFIT	(\$32.11)	(\$11.67)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.97	\$0.52
INTEREST ON EQUIPMENT INVESTMENT	\$11.76	\$9.14
TOTAL CAPITAL COSTS	\$12.73	\$9.66
RETURN TO LAND AND RISK	(\$44.84)	(\$21.32)

TABLE 8. Whole farm summary, Rogers-Dora area, Roosevelt County,
Actual 2018

GROSS RETURNS		
GRAIN SORGHUM	420.00 ACRES	
CROP		\$41,895
GRAZING		\$2,100
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
WHEAT	568.20 ACRES	
CROP		\$48,581
GRAZING		\$5,682
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		\$98,258
CASH OPERATING EXPENSES		
SEED		\$9,142
FERTILIZER		\$0
CHEMICALS		\$6,672
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$16,772
FUEL-IRRIGATION		\$0
REPAIRS		\$5,445
CUSTOM CHARGES		\$0
LAND TAXES		\$594
OTHER EXPENSES		\$37,729
TOTAL CASH EXPENSES		\$76,455
RETURN OVER CASH EXPENSES		\$21,803
FIXED EXPENSES		\$26,592
TOTAL EXPENSES		\$103,047
NET FARM INCOME		(\$4,789)
LABOR AND MANAGEMENT COSTS		\$15,328
NET OPERATING PROFIT		(\$20,117)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$704
INTEREST ON EQUIPMENT INVESTMENT		\$10,128
TOTAL CAPITAL COSTS		\$10,832
RETURN TO LAND AND RISK		(\$30,949)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$150 /ACRE	(\$36,709)	-5.50%
\$200 /ACRE	(\$38,629)	-4.68%
\$250 /ACRE	(\$40,549)	-4.08%
\$300 /ACRE	(\$42,469)	-3.61%
\$350 /ACRE	(\$44,389)	-3.24%
\$400 /ACRE	(\$46,309)	-2.93%

* 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)