

#28: 300 Cow Grazing Dairy with Center Pivot System

Description: This 300 cow dairy production system for Southeast Missouri uses intensive rotational grazing technology to pasture dairy cows on 30 or more paddocks under center pivot irrigation. The seasonally calved herd is dry in the winter. The milking center is a low cost, high throughput parlor, where one man is capable of milking all the cows in 3.5 hours. Twelve pounds of feed is fed in the parlor during milking. Additional hay and silage is purchased to be fed outside the growing season.

Key Components (see appendix for further description of terms)

Land Base	220 Acres	Investment/Cow	\$5,666
Cow Housing	Open Paddocks	Yearly Revenue/Cow (5 yr. Avg.)	\$2,157
Milking Center	Parabone 24 Swing	Yearly Gross Revenue (5 yr. Avg.)	\$647,112
Ventilation	Natural	Total Investment	\$1,699,848
Manure Handling System	Holding area capture and spread	Return on Assets (Yr. 5)	8.8%

Picture Examples



Irrigated Paddocks



Swing Parlor



Parlor with Center Pivot System



Crossbred Cattle

**SE Missouri Dairy
300 Grazing Dairy**

Dairy Enterprise Budget (5-year Avg.)

	Herd	Per Cow	Per CWT	Percent
INCOME FROM OPERATIONS:				
Milk sales	\$580,206	\$1,934	\$15.19	89.7%
Sales of youngstock & calves	\$66,906	\$223	\$1.75	10.3%
Other farm income	\$0	\$0	\$0.00	0.0%
Patronage dividend	\$0	\$0	\$0.00	0.0%
Total Gross Receipts	\$647,112	\$2,157	\$16.94	100.0%
OPERATING EXPENSES:				
Feed:				
Feedstuffs	\$135,048	\$450	\$3.54	23.8%
Less feed for heifers	\$0	\$0	\$0.00	0.0%
Total feed	\$135,048	\$450	\$3.54	23.8%
Herd replacement costs:				
Depreciation--dairy cows	\$51,783	\$173	\$1.36	9.1%
Loss on sale of cows	\$20,679	\$69	\$0.54	3.6%
Total herd replacement costs	\$72,461	\$242	\$1.90	12.8%
Other operating expenses:				
Cow expenses				
Hired labor (including benefits)	\$105,147	\$350	\$2.75	18.5%
Rent	\$1,080	\$4	\$0.03	0.2%
DHIA testing	\$1,620	\$5	\$0.04	0.3%
Semen/breeding	\$3,960	\$13	\$0.10	0.7%
Real estate/P.P. taxes	\$2,082	\$7	\$0.05	0.4%
Milk marketing 1/	\$34,377	\$115	\$0.90	6.1%
Repairs/truck/fuel	\$23,400	\$78	\$0.61	4.1%
Vet/medicine	\$14,040	\$47	\$0.37	2.5%
Parlor supplies	\$14,129	\$47	\$0.37	2.5%
Utilities	\$16,274	\$54	\$0.43	2.9%
Insurance	\$6,686	\$22	\$0.18	1.2%
Other expenses	\$10,140	\$34	\$0.27	1.8%
Forage Expenses				
Rent	\$3,660	\$12	\$0.10	0.6%
Fertilizer	\$18,103	\$60	\$0.47	3.2%
Seed/spray	\$8,578	\$29	\$0.22	1.5%
Custom hire	\$10,660	\$36	\$0.28	1.9%
Fuel	\$4,860	\$16	\$0.13	0.9%
Real estate/P.P. taxes	\$1,829	\$6	\$0.05	0.3%
Fence/water	\$5,880	\$20	\$0.15	1.0%
Other expenses	\$8,682	\$29	\$0.23	1.5%
Depreciation	\$64,621	\$215	\$1.69	11.4%
Less other expenses for raising heifers	\$0	\$0	\$0.00	0.00%
Total other operating expenses	\$359,808	\$1,199	\$9.42	63.4%
TOTAL OPERATING EXPENSES	\$567,317	\$1,891	\$14.85	100.0%
NET INCOME FROM OPERATIONS	\$79,795	\$266	\$2.09	
1/ Includes milk hauling, state and federal promotion, coop/marketing fees, and the cost of marketing beef.				