

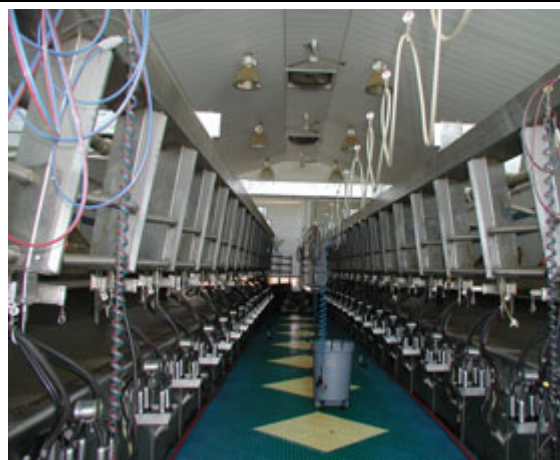
#17: 700 Cow, Sand Bedded Freestall, Slurry Scrape, Natural Vent. System

Description: This 700-cow dairy farm is designed conventionally. The freestall barn has 14' eaves for natural ventilation and sand in the stalls for maximum cow health. Sand laden manure is scraped to an outside holding area where it is agitated and mechanically separated so that the liquid portion can be applied through irrigation, the organic solids held for spreading before planting and the sand reused. Cows are milked three times per day in a double 10 rapid exit parallel parlor operated twenty-four hours per day.

Key Components (see appendix for further description of terms)

Land Base	40 acres	Investment/Cow	\$6,489
Cow Housing	Sand Bedded Freestall	Yearly Revenue/Cow (5 yr. Avg.)	\$3,524
Milking Center	Double 10 Parallel with automation	Yearly Gross Revenue (5 yr. Avg.)	\$2,466,815
Ventilation	Natural	Total Investment	\$4,542,125
Manure Handling System	Slurry Scrape to Outside Separators (Sand & Solid/Liquid) and Covered Storage	Return on Assets (Yr. 5)	8.1%

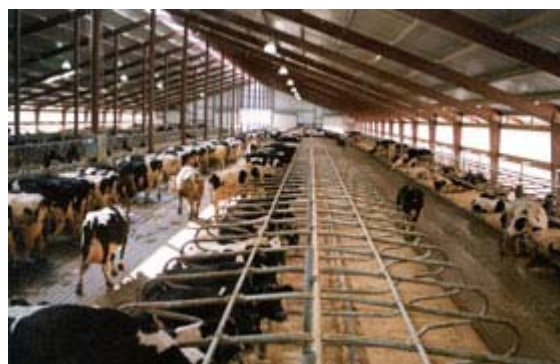
Picture Examples



Parallel Milking Parlor



Sand Bedded Freestall System



Natural Ventilation Freestall Barn



Mechanical Separator

Input Summary					
Scenario:	700 Cow Confinement, Sand Bedded Freestall, Mech. Sep., Natural Vent.				
Production	Your farm		Cow Flow	Year 1	Year 2
Herd size	700	head	Beginning herd	700	700
Calving interval	13.5	months	Cows entering the herd:		
Average days dry for the herd	60	days	Purchases	245	245
Percent cows in milk	85%	percent	Farm-raised replacements	0	0
Annual cull rate	27%	percent	Cows leaving the herd		
Annual death loss	8%	percent	Culls	189	189
Milk per cow per day (year 1)	70.0	lbs.	Sold	0	0
365 day RHA (year 1)	21,817	RHA	Dead	56	56
			Ending herd size	700	700
Expenses	Your farm		Income	Market value	Cull value
Daily feed cost (milking group)(avg)	\$3.40	cow/day	Milking and dry cows	\$2,000	\$500
Daily feed cost(dry cow group)(avg)	\$1.73	cow/day	12-24 months		\$500
Youngstock diets			6-12 months		\$500
0-2 months	\$0.00	cow/day	2-6 months		\$500
2-6 months	\$0.00	cow/day		Your farm	
6-12 months	\$0.00	cow/day	Milk price	\$15.09	\$/cwt
12-24 months	\$0.00	cow/day	Yearly coop dividend	\$0.00	\$/cwt
Labor costs (year 1)			Bull calf selling price	\$100	\$/head
Hourly labor	\$189,280	dollars	Heifer calf selling price	\$400	\$/head
Salaried labor	\$85,000	dollars	Crop grain sales	\$0	dollars
Annual benefits	\$20,982	dollars	Government payments	\$0	dollars
Total labor	\$295,262	dollars	Other farm income	\$0	dollars
Seed expenses	\$0	dollars	Balance Sheet	Beginning balance for:	
Fertilizer and chemicals	\$0	dollars		January 1	
Marketing costs			Current assets:		
Federal assessment	\$0.00	\$ per cwt.	Cash	\$35,000	dollars
Advertising	\$0.15	\$ per cwt.	Commodities for sale and feed	\$35,000	dollars
Coop Fee	\$0.10	\$ per cwt.	Feeder livestock and cull cows	\$0	dollars
Hauling	\$0.60	\$ per cwt.	Supplies and prepaid expenses	\$35,000	dollars
Annual per cow costs			Investment in growing crops	\$0	dollars
DHI testing	\$16	\$ per cow	Accounts receivable and other	\$0	dollars
Artificial insemination	\$45	\$ per cow	Other current assets	\$0	dollars
Veterinarian, hoof trimming & BST	\$133	\$ per cow	Non-current assets:		
Medicine	\$63	\$ per cow	Farm and equipment:		
Farm supplies and bedding	\$95	\$ per cow	Land	\$112,000	dollars
Fuel & oil	\$20	\$ per cow	Non-farm real estate	\$0	dollars
Utilities	\$60	\$ per cow	Buildings	\$2,359,023	dollars
Annual costs			Equipment	\$423,200	dollars
Non-dairy farm supplies	\$2,400	dollars	Autos & trucks	\$0	dollars
Non-dairy fuel and oil	\$2,400	dollars	Other assets		dollars
Non-dairy utilities	\$0	dollars	Investment in coops	\$0	dollars
Building repairs	\$10,000	dollars	Contract receivables	\$0	dollars
Machinery and equipment repairs	\$10,000	dollars	Other	\$0	dollars
Rent	\$0	dollars		Beginning balance for:	
Taxes (real estate and p.p.)	\$10,000	dollars	Current liabilities:	January 1	
Farm insurance	\$10,000	dollars	Accounts payable, feed dealers	\$0	dollars
Legal & professional fees	\$2,500	dollars	Accounts payable, trade	\$0	dollars
Custom hire	\$0	dollars	Accrued interest	\$0	dollars
Car and truck costs	\$2,400	dollars	Payroll taxes & wages	\$0	dollars
Contract heifer rearing	\$0	dollars	Operating note	\$0	dollars
Other expense	\$0	dollars	Estimated current portion of debt	\$0	dollars
			Other current liabilities	\$0	dollars
			Long-term Debt:		
			Bank note	\$0	dollars
			Real estate note	\$0	dollars
			Other long-term debt	\$0	dollars

SE Missouri Dairy

Dairy Enterprise Budget (5-year Avg.)

700 Cow Confinement, Sand Bedded Freestall, Mech. Sep., Natural Vent.

	Herd	Per Cow	Per CWT	Percent
INCOME FROM OPERATIONS:				
Milk sales	\$2,314,371	\$3,306	\$15.09	93.8%
Sales of youngstock & calves	\$152,444	\$218	\$0.99	6.2%
Other farm income	\$0	\$0	\$0.00	0.0%
Patronage dividend	\$0	\$0	\$0.00	0.0%
Total Gross Receipts	\$2,466,815	\$3,524	\$16.08	100.0%
OPERATING EXPENSES:				
Feed:				
Feedstuffs	\$858,384	\$1,226	\$5.60	38.7%
Less feed for heifers	\$0	\$0	\$0.00	0.0%
Total feed	\$858,384	\$1,226	\$5.60	38.7%
Herd replacement costs:				
Depreciation--dairy cows	\$224,584	\$321	\$1.46	10.1%
Loss on sale of cows	\$123,278	\$176	\$0.80	5.6%
Total herd replacement costs	\$347,862	\$497	\$2.27	15.7%
Other operating expenses:				
Labor (includes benefits & SS)	\$310,399	\$443	\$2.02	14.0%
Marketing 1/	\$130,365	\$186	\$0.85	5.9%
DHI testing	\$11,200	\$16	\$0.07	0.5%
Artificial insemination	\$31,500	\$45	\$0.21	1.4%
Veterinary, hoof trimming & BST	\$93,100	\$133	\$0.61	4.2%
Medicine	\$44,100	\$63	\$0.29	2.0%
Supplies and bedding	\$69,541	\$99	\$0.45	3.1%
Fuel & oil	\$14,000	\$20	\$0.09	0.6%
Utilities	\$44,153	\$63	\$0.29	2.0%
Repairs--Buildings	\$10,000	\$14	\$0.07	0.5%
Repairs--Machinery & equipment	\$10,000	\$14	\$0.07	0.5%
Rent	\$0	\$0	\$0.00	0.0%
Farm taxes (R.E. & personal prop)	\$10,513	\$15	\$0.07	0.5%
Farm insurance	\$10,513	\$15	\$0.07	0.5%
Legal & professional fees	\$2,628	\$4	\$0.02	0.1%
Custom hire	\$0	\$0	\$0.00	0.0%
Car and truck costs	\$2,400	\$3	\$0.02	0.1%
Other	\$0	\$0	\$0.00	0.0%
Interest	\$0	\$0	\$0.00	0.0%
Depreciation	\$217,725	\$311	\$1.42	9.8%
Less other expenses for raising heifers	\$0	\$0	\$0.00	0.0%
Total other operating expenses	\$1,012,138	\$1,446	\$6.60	45.6%
TOTAL OPERATING EXPENSES	\$2,218,384	\$3,169	\$14.46	100.0%
NET INCOME FROM OPERATIONS	\$248,431	\$355	\$1.62	
1/ Includes milk hauling, state and federal promotion, coop/marketing fees, and the cost of marketing beef.				