

**Ball Park Cost Estimates  
FCA Appraisals  
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9/2007  
(updated 9/17/07)**

**Free Stall Barns**

Unless otherwise noted the following costs include: excavation, frame, curtains, concrete, stalls, gates, waterers, freestall beds, overhead doors, manure reception pit, electrical, plumbing

2 row free stall barn (Number = 5), 122 ft<sup>2</sup> per stall  
\$18.86/ft<sup>2</sup> with S.D. = \$4.93  
\$2147/FS

3 row free stall barn (Number = 47), 93 ft<sup>2</sup> per stall  
\$17.57/ft<sup>2</sup> with S.D. = \$4.57  
\$1459/FS

4 row free stall barn (Number = 50), 117 ft<sup>2</sup> per stall  
\$18.52/ ft<sup>2</sup> with S.D. = \$3.88  
\$1879/FS

6 row free stall barn (Number = 38), 95 ft<sup>2</sup> per stall  
\$19.04/ ft<sup>2</sup> with S.D. = \$4.26  
\$1556/FS

Hoop Barn (Number = 5), 88 ft<sup>2</sup> per stall  
\$13.49/ft<sup>2</sup> with S.D. = \$1.82  
\$960/FS

2 row greenhouse (Number = 2), 46 ft<sup>2</sup> per stall  
\$6.13/ ft<sup>2</sup>, or \$281/FS

\*\* Cost includes steel frame and double layer plastic roofing, inflation fans. Cost does not include labor to construct.

**Special Needs/ Transition Cow Barn (Number = 11)**

\$20.46/ft<sup>2</sup>, S.D. = \$4.27

**Compost Bedded Barn**

\$22.14/ ft<sup>2</sup>

### **Outside Drive-by Feeding Area (Number = 3)**

Cost includes curbed concrete alley for cattle and feed platform with headlocks and waterer.

\$7.64/ ft<sup>2</sup> with S.D. = \$2.23

### **Calf Barn (Number = 7)**

\$16.76/ft<sup>2</sup>, SD = \$5.89/ ft<sup>2</sup>

### **Heifer Barn (Number = 4)**

\$22.68/ft<sup>2</sup>, SD = \$6.18/ ft<sup>2</sup>

### **Dairy Tie Stall Barn**

Building shell and concrete. \$21.90/ ft<sup>2</sup>

Building shell, concrete, stalls, plumbing and electrical. \$23.05/ ft<sup>2</sup>

Building shell, concrete, stalls, plumbing, electrical and milking system. \$32.59/ ft<sup>2</sup>

### **Milking Center/Parlor Building**

Cost includes parlor, holding area, and utility and office space building shell.

\$43.43/ft<sup>2</sup>, SD = \$14.59/ ft<sup>2</sup> (Number = 31)

### **Parlor Milking Stalls and Equipment Only**

**(Does not include building costs)**

Cost includes milking stalls, milking system, cooling equipment, and vacuum equipment.

Cost may or may not include cost of milk storage.

<b>Parlor Type</b>	<b>Number of Parlors</b>	<b>Cost per Milking Stall</b>
Flat Barn Parlor Remodeled	2	\$3,702
Swing Parlor Remodeled	7	\$4,179
Doubled Up Remodeled Parlor	6	\$5,114
New Double 8 Parlor	24	\$9,860
New Double 12 Parlor	32	\$11,212
New Double 16 Parlor	12	\$11,430
Rotary Parlor	3	\$11,924
Autoflow Parlor	2	\$20,916
Robotic Milking Unit	2	\$204,768

Bulk Tank Cost: Approximately \$11.20/gallon.

Crowd Gate Cost: \$12,000-\$20,000.

## Horizontal Feed Storage

### Horizontal Bunker Silos

\*\* Cost includes site preparation, gravel base, concrete floor, concrete sidewalls, and concrete approach. (Assumes 14 lbs/ ft<sup>3</sup> dry matter or 42 lbs/ ft<sup>3</sup> wet silage density)

\$.54/ ft<sup>3</sup>, SD = \$.16/ft<sup>3</sup> (Number = 28)  
\$28/ton wet feed or \$84/ton dry matter

Commodity Building (Number = 7)  
\$16.00/ft<sup>2</sup>, SD = \$4.82/ ft<sup>2</sup>

Hay Shed (Number = 7)  
\$6.44/ft<sup>2</sup>, SD = \$1.53/ ft<sup>2</sup>

### Feed Storage Slab

Cost includes site preparation, installation of sub base, and concrete, including labor

Concrete \$2.01/ ft<sup>2</sup> with S.D. = \$.37/ ft<sup>2</sup> (N = 7)  
Asphalt \$1.22/ ft<sup>2</sup> (N=2)  
Macadam base \$.50/ ft<sup>2</sup> (N=1)

## Vertical Feed Storage

### Vertical Concrete Silos (Number = 7)

Cost includes concrete stave or poured in place silo, foundation, construction and unloader.

\$1.70/ ft<sup>3</sup>, SD = \$.37/ft<sup>3</sup>

## **Manure Storage**

Earthen Lagoon (Number = 13)

Includes excavation and installation of clay liner.

Cost = \$.26/ ft<sup>3</sup>, S.D.= \$.24 or \$.03/gallon

Concrete Storage (Number = 21)

Includes excavation and installation of concrete walls and floor.

Cost = \$.78/ ft<sup>3</sup>, S.D.= \$.48 or \$.10/gallon

Slatted floor over Pit (Number = 1)

Includes: Excavation and installation of concrete walls and slatted floor under freestall barn.

Cost = \$1.30/ ft<sup>3</sup> or \$.17/gallon, \$1375/FS

Concrete Tank Cross Channel with slatted floor (Number = 2)

Includes excavation, and installation of concrete walls and slatted floor for collection of manure to transfer to storage.

Cost = \$3.40/ ft<sup>3</sup> or \$.46/gallon

Manure Pump \$15,000

Alley Scraper Drive Unit \$5,000