

SHEEP BARNS AND SHEDS

OCCUPANCY DESCRIPTION: Sheep barns and sheds are structures designed for the raising of sheep. Typically there is minimal electrical and plumbing. The shed structures have dirt floors and half-walls, or shed fronts. The full barn structure has a slab floor, insulated and vented walls and some interior partitions.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit.

NOT INCLUDED IN COSTS: Heating or feeding systems.

SHEEP BARNS

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING & PLUMBING
D	Good	\$20.85	Wood frame and siding, insulated, lambing barn	Insulated ceiling, interior sheathing, slab floor, division of space	Adequate electrical and water service
	Average	16.35	Wood frame and siding, insulated and vented walls	Insulated ceiling, interior sheathing, slab floor, some division of space	Adequate electrical and water service
DPOLE	Good	17.80	Pole frame, metal siding, insulated, lambing barn	Insulated ceiling, interior sheathing, slab floor, division of space	Adequate electrical and water service
	Average	14.05	Pole frame, metal siding, insulated and vented walls	Insulated ceiling, interior sheathing, slab floor, some division of space	Adequate electrical and water service
S	Good	18.95	Steel frame and siding, insulated, lambing barn	Insulated ceiling, interior sheathing, slab floor, division of space	Adequate electrical and water service
	Average	15.35	Steel frame and siding, insulated and vented walls	Insulated ceiling, interior sheathing, slab floor, some division of space	Adequate electrical and water service

SHEEP SHEDS

D	Good	\$11.25	Wood frame and siding, open front, rear vents	Ceiling insulation, some slab floor, subdivided	Adequate electrical, water, feed, not automated
	Average	9.00	Vertical boards or plywood, open front, back ventilation	Some wainscot, dirt floor, some division of space	Minimum water service, feed, not automated
	Low cost	7.20	Plywood, open front, vents	Minimum facility, dirt floor	Hose bibs
	Cheap	6.50	Plywood or siding on box frame, half-walls	Unfinished, dirt floor	Feed and water, not automated
DPOLE	Good	10.05	Pole frame, metal siding, open front, rear vents	Ceiling insulation, some slab floor, subdivided	Adequate electrical, water, feed, not automated
	Average	7.90	Pole frame, metal siding, open front, back ventilation	Some wainscot, dirt floor, some division of space	Minimum water service, feed, not automated
	Low cost	6.20	Metal, open front, vents	Minimum facility, dirt floor	Hose bibs
	Cheap	5.45	Metal siding on pole frame, half-walls	Unfinished, dirt floor	Feed and water, not automated
DHOOP ARCH	Good	6.60	Wood post, knee wall, pipe hoop, fabric cover, curtain side and end doors	Some slab floor, subdivided	Minimum water service, feed, not automated
	Average	5.25	Wood post, knee wall, pipe hoop frame, fabric cover, end curtains	Some wainscot, dirt floor, some division of space	Minimum water service, feed, not automated
	Low cost	4.15	Wood, pipe hoop, fabric cover	Minimum facility, dirt floor	Hose bibs
S	Good	10.85	Steel siding and frame, open front, rear vents	Ceiling insulation, some slab floor, subdivided	Adequate electrical, water, feed, not automated
	Average	8.75	Steel panels and frame, open front, back ventilation	Some wainscot, dirt floor, some division of space	Minimum water service, feed, not automated
	Low cost	7.05	Steel, open front, vents	Minimum facility, dirt floor	Hose bibs
	Cheap	6.45	Steel frame, metal siding, half-walls	Unfinished, dirt floor	Feed and water, not automated
SSLANT WALL	Average	8.15	Steel panels and slant frame, open front, back ventilation	Some wainscot, dirt floor, some division of space	Minimum water service, feed, not automated
	Low cost	6.50	Light steel, open front, vents	Minimum facility, dirt floor	Hose bibs

NOTES: Use total length of walled sides, including vent doors and gates, as perimeter in the Floor Area/Perimeter table.

For slotted floors, add the following per square foot of pit area:

Shallow pit, scraper alley: \$4.75 to \$9.75; Deep pit, tractor access: \$11.50 to \$16.50.

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REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

1	<p>ADJUSTMENTS</p> <p>Confinement pens, solid rod, 27" – 46" high, \$5.25 – \$11.50 per linear foot add for galvanized panels, 42" high, \$1.95 – \$2.00 per linear foot</p> <p>Sheep pens, 4" x 4" posts, four split rails, \$5.00 – \$5.25; four 2" x 6" rails, \$7.00 – \$7.50 per linear foot</p> <p>Lambing pen, 4' x 6' w/18" safety zone, \$215 – \$275 each</p> <p>Pen grain feeder, \$40.00 – \$85.00 each; Yard, round grain feeder, \$475 each, hay feeder, \$150 – \$300 each</p> <p>8' fenceline feeder, \$325 each, add \$225 for each additional 8'</p> <p>Electric pen water, \$65 – \$115 each; Automatic drinker kit with float, \$85 each</p> <p>Watering tank, galvanized, 44 gallons, \$60 each; 70 gallons, \$85 each</p> <p>Concrete exercise apron, \$1.35 per square foot</p>
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2	<p>HEATING AND COOLING</p> <p>These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees.</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>Electric cable or baseboard</td><td style="text-align: right;">\$2.90</td></tr> <tr><td>Electric wall heaters (inc. FWA)</td><td style="text-align: right;">1.25</td></tr> <tr><td>Forced air, ducted</td><td style="text-align: right;">3.20</td></tr> <tr><td> heaters or furnace, vented</td><td style="text-align: right;">.95</td></tr> <tr><td>Hot water, baseboard/convactor</td><td style="text-align: right;">5.85</td></tr> <tr><td> radiant floor or ceiling</td><td style="text-align: right;">6.05</td></tr> <tr><td>Space heaters, with fan</td><td style="text-align: right;">1.60</td></tr> <tr><td> radiant</td><td style="text-align: right;">1.80</td></tr> <tr><td>Steam</td><td style="text-align: right;">5.05</td></tr> <tr><td>Wall or floor furnace</td><td style="text-align: right;">1.45</td></tr> <tr><td>Package heating and cooling</td><td style="text-align: right;">6.30</td></tr> <tr><td>Ventilation, blower and ducts</td><td style="text-align: right;">.95</td></tr> <tr><td> fans only</td><td style="text-align: right;">.40</td></tr> </table>	Electric cable or baseboard	\$2.90	Electric wall heaters (inc. FWA)	1.25	Forced air, ducted	3.20	heaters or furnace, vented95	Hot water, baseboard/convactor	5.85	radiant floor or ceiling	6.05	Space heaters, with fan	1.60	radiant	1.80	Steam	5.05	Wall or floor furnace	1.45	Package heating and cooling	6.30	Ventilation, blower and ducts95	fans only40
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3	<p>HEIGHT REFINEMENTS</p> <p>STORY HEIGHT MULTIPLIERS Multiply base cost by following multiplier for any variation in average story height.</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Average Wall Height</th> <th style="text-align: center;">Square Foot Multiplier</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">7</td><td style="text-align: center;">.943</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">.963</td></tr> <tr><td style="text-align: center;">9</td><td style="text-align: center;">.981</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">1.000</td></tr> <tr><td style="text-align: center;">11</td><td style="text-align: center;">1.019</td></tr> <tr><td style="text-align: center;">12</td><td style="text-align: center;">1.038</td></tr> <tr><td style="text-align: center;">13</td><td style="text-align: center;">1.058</td></tr> <tr><td style="text-align: center;">14</td><td style="text-align: center;">1.077</td></tr> <tr><td style="text-align: center;">16</td><td style="text-align: center;">1.115</td></tr> <tr><td style="text-align: center;">18</td><td style="text-align: center;">1.154</td></tr> <tr><td style="text-align: center;">20</td><td style="text-align: center;">1.192</td></tr> <tr><td style="text-align: center;">22</td><td style="text-align: center;">1.231</td></tr> <tr><td style="text-align: center;">24</td><td style="text-align: center;">1.269</td></tr> </tbody> </table>	Average Wall Height	Square Foot Multiplier	7	.943	8	.963	9	.981	10	1.000	11	1.019	12	1.038	13	1.058	14	1.077	16	1.115	18	1.154	20	1.192	22	1.231	24	1.269
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5 USE COUNTY MULTIPLIERS IN MULTIPLIER SECTION.