Space Requirements

Plans for 60 to 80 square feet per 1000-pound animal housed.

- Minimum ceiling height is 8' for horse and 12' for horse and rider.
- Doors to stalls should be 4 feet x 8 feet.
- Openings for horse and rider should be 12 feet x 12 feet.

Space Requirements in Building (minimum)

<table>
<thead>
<tr>
<th>Size</th>
<th>Box Stall Size</th>
<th>Tie Stall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pony</td>
<td>9' x 9'</td>
<td>3' x 6'</td>
</tr>
<tr>
<td>Stallion</td>
<td>14' x 14'</td>
<td>(2-4 acre paddock for exercise)</td>
</tr>
<tr>
<td>Mare or Gelding</td>
<td>10' x 10'</td>
<td>small</td>
</tr>
<tr>
<td></td>
<td>10' x 12'</td>
<td>average</td>
</tr>
<tr>
<td></td>
<td>12' x 12'</td>
<td>large</td>
</tr>
<tr>
<td>Brood Mare</td>
<td>12' x 12'</td>
<td></td>
</tr>
<tr>
<td>Foal to 2 years</td>
<td>10' x 10'</td>
<td>average</td>
</tr>
<tr>
<td></td>
<td>12' x 12'</td>
<td>large</td>
</tr>
</tbody>
</table>

Mangers for Hay, Grain Boxes and Water

Suggested dimensions are as follows:

**Foals up to 2 years old** - Manger should be 24 inches wide and 32 to 36 inches height at throat. Grain boxes may be 10 to 16 inches wide, 24 to 30 inches long, 6 to 8 inches deep and 32 to 36 inches height at throat. Water requirements are 6 to 8 gallons per day.

**Mature animals** (mares, geldings, brood mares, and maternity stalls) - Hay manger should be 28 inches wide and 32 to 42 inches height at throat. Grain boxes should be 12 to 16 inches wide, 24 to 30 inches long, 8 to 10 inches deep and 32 to 42 inches height at throat. Water
requirements are 12 gallons per day.

**Stallions** - Hay mangers should be 38 inches wide and 38 to 42 inches height at throat. Grain boxes should be 12 to 16 inches wide, 24 to 30 inches long, 8 to 10 inches deep and 38 to 42 inches height at throat. Water requirements are 12 gallons per day.

**NOTE:** Place hay mangers, grain boxes and waterers in corners of stall if possible. Hay may be fed on the floor, from high racks in the stall or outside racks. Screw eye bolts may be used for supporting removable mangers, feed boxes, buckets, and waterers. Provide cut-off valve for waterers.

### Approximate Feed Space

- 17.5 pounds of hay and 10 pounds of grain per day per 1000 pounds of animal weight.

- Baled hay occupies about 200 cubic feet per ton, or about 10 pounds per cubic feet.

- Oats (whole) occupy about 60 cubic feet per ton or 26 pounds per cubic foot.

- Ear corn occupies about 70 cubic feet per ton or 28 pounds per cubic foot.

- Feed in bulk occupies about 50 cubic feet per ton or 40 pounds per cubic foot.

- Animal numbers, size and weight, and frequency of resupply will determine total storage needed.

### Partitions and Interior Walls

Build seven to eight feet high.

Use 2-inch thick smooth boards to provide a solid partition wall between stalls up to height of 5 or 6 feet. Tongue and grooved boards may be used. Place horizontally. Line or cover the interior sides of the front and rear walls of stalls with similar boards to the same height except at doorway.

At the top of the partitions and front walls provide a stall guard 2 feet above the solid boards. The guard may be of the commercial type or homemade using 1/2
inch diameter steel pipe or 1 inch boards spaced 3 inches apart vertically.

**Doors Into Stall At Front**

May be of solid boards, dutch type, or steel pipe or 1 inch boards at top similar to stall guard described above. Build 7 to 8 feet high and 4 feet wide.

Rear doors if used, should be solid. Make the same size as given above.

**Hallways**

Minimum - 8 feet wide, 8 feet high. For truck passage halls should be 10 feet to 12 feet wide and 8 to 12 feet high.

Floors - may be asphalt or concrete pavement with rough broom finish.

**Floors for Stalls**

Drain floors of stalls towards hallway. Tamped clay floors are most popular. Asphalt or resilient materials may be used. Concrete is not recommended because of slick surfaces and footing problems.

**Paddocks**

2 to 4 acres. Water and shade desirable.

Double fences 10 feet apart between paddocks for stallions.

**Fences**
**Paddocks for stallions** - 6 feet high, 2" x 6" x 16' boards, posts 8 feet apart.

**Regular** - 4 feet 6 inches high, four 1" x 6" x 16' boards, posts 8 feet apart.

**Wire** - 50 to 58 inches high, 2-inch mesh wire, 11 to 12 1/2 gauge, 2" x 6" board at top.

**Wire** - 50 to 58 inches high, 9 to 10 gauge top and bottom wire, 6-inch line wire, 12-inch stay spacing, 9 to 12 gauge line and stay wires.

**NOTE**: Some farmers place an electric fence wire along the top edge of the top board of paddock fences and fences around the barn to keep horses separated and neck pressure off top board.

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**Feed Room**

The feed room is seldom larger than a box stall. Plan storage for feed materials, equipment, and tools. Provide and uncluttered traffic pattern to reach the stored materials. The storage area should be as dust free as possible.

Hay can be stored in loft or on ground floor. Small rooms and narrow doors are inconvenient and add to the labor.

Feed should be stored in rat-proof bins. Metal containers such as large garbage cans and wood bins with tight lids are adequate for feed storage.

The door to the feed room should be at least 4’ wide and equipped with a latch so a loose horse cannot get into the feed.

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**Tack Room**

Make the tack room adequate for the activities. The tack room contains items such as saddles, bridle and halter, shoeing box, closet, shelves, filing cabinets, desk, chairs, miscellaneous furniture, sink, working and loafing areas, running water.

Provide 300 watts of incandescent lighting or 100 watts fluorescent per 100 square feet of floor area and provide adequate convenience outlets.