

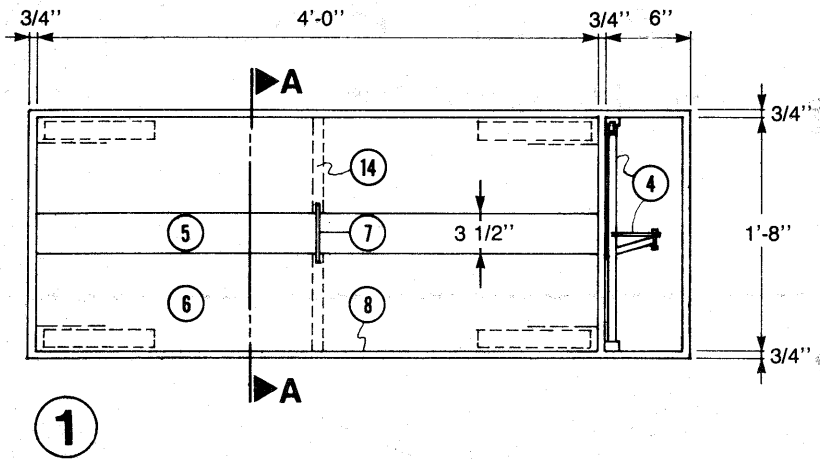
This leaflet plan provides details for constructing a metal, bottom unloading, feed cart and wood feed bunk. The feed cart and feed bunk are sized to provide a matched unit.

The quantity of feed can be evenly distributed in the feed bunk by adjusting the setting on the feed cart handle.

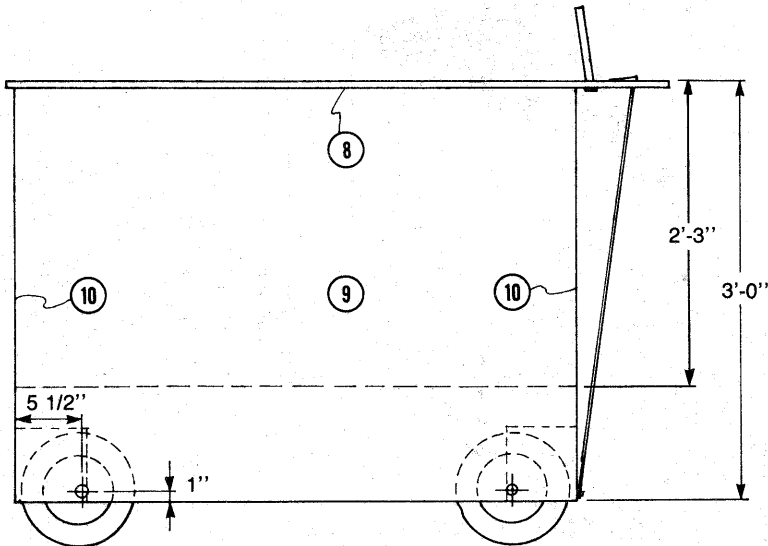
The cart wheels run on 2 x 4 in. fir strips on the bottom inside of the feed bunk. These strips keep the wheels out of the grain being distributed in the feed bunk.

The feed bunk is designed for feeding from both sides. The bunk should have about a 0.5 percent slope away from the feed source. The empty cart can easily be pushed back up the slope. The feed bunk can be extended in opposite directions from the feed supply.

The feed cart is also available commercially.



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1. Plan of feed cart
2. Side view of feed cart
3. Cross-section A-A
4. Feedgate control
5. Feedgate (4'' wide)
6. 16 gauge metal hopper bottom
7. 1/4'' \varnothing metal tie rod weld to 6
8. 3/4'' x 3/4'' square tube edge support
9. 16 gauge metal sides
10. 16 gauge metal end panels

Capacity

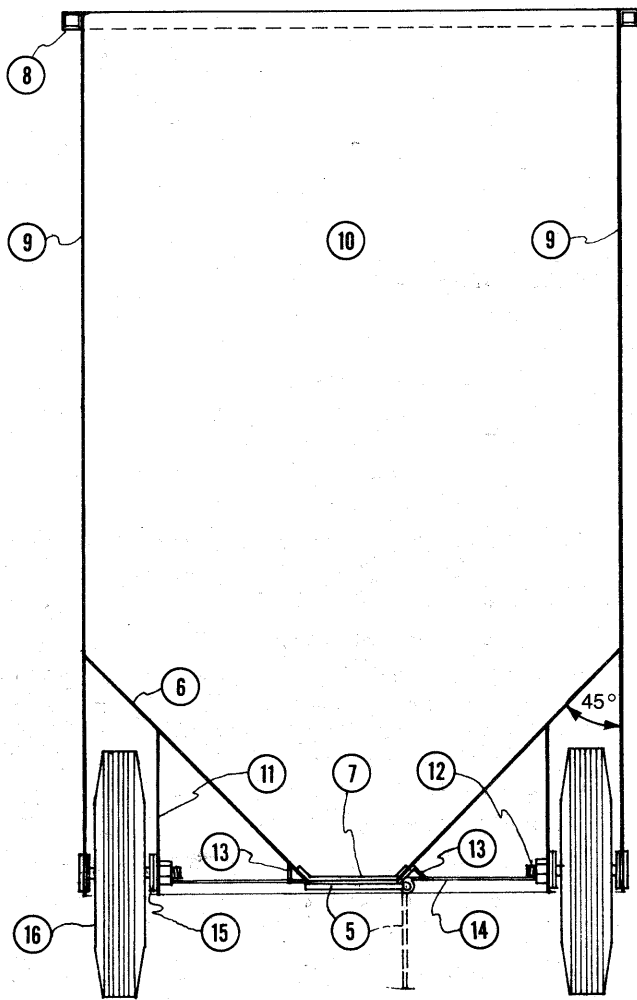
The capacity of the feed cart (level full) is 17.7 cubic feet or 22 five gallon pails.

This capacity is approximately:

Grain	Weight (pounds)		
	Oats	Barley	Wheat
Whole	530	710	850
Ground or rolled	390	425	675

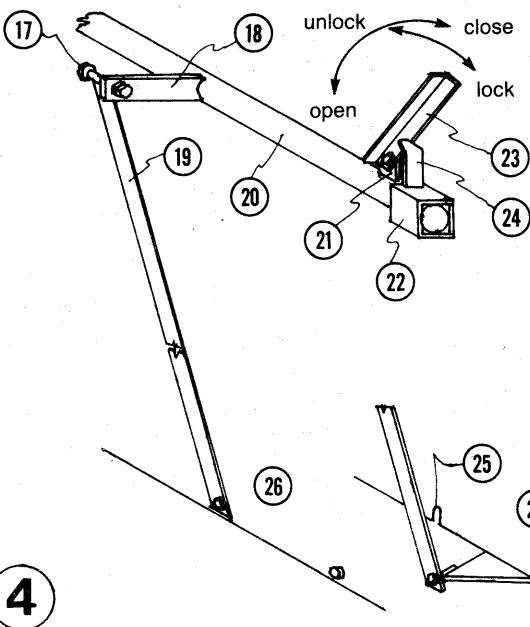
Grain should be weighed to ensure that the required ration is provided.

Feed supplements added must be well mixed with the grain.

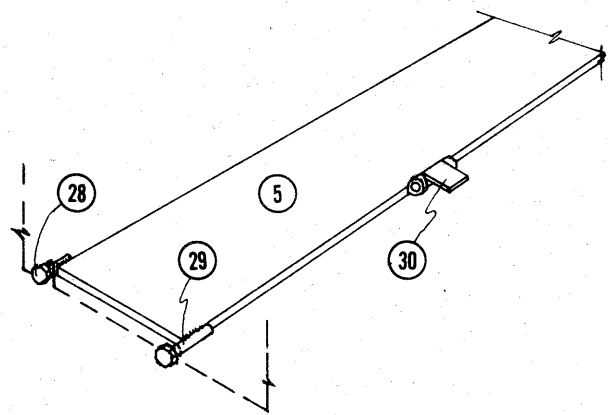


11. 16 gauge metal wheel support bracket
12. carriage bolt to suit wheel bore
13. 3/4" x 3/4" x 1/8" angle iron hopper bottom support
14. 1" x 1/8" tie bracket
15. spacers if required
16. 10" x 1 3/4" semi-pneumatic tires with ball bearings
17. 1 3/4" x 5/16" ϕ cap screw
18. 1" x 1/4" x 4" long metal arm, weld to (20)
19. 3/4" x 1/8" flat bar, weld to (17) with 3/8" ϕ hole at bottom to receive pin (28)
20. 3/4" ϕ rod x 19"
21. 1" x 1/4" x 1 1/4" long bracket weld to (20)
22. 1" x 1" x 3/4" long square tube weld to (8)
23. 3/4" x 3/4" x 1/8" x 6 1/2" long locking handle bolted to (21)
24. 3/4" x 1/8" x 2 1/2" long stop (bend to suit)
25. 1/2" wide notch in end panel to receive pin (28)
26. gate in closed position
27. gate in open position
28. 5/16" ϕ bolt through (19), weld to gate (5)
29. 5/16" ϕ bolt through 3/8" ϕ hole in end panel (10), weld to gate (5) as hinge
30. center hinge weld to (13) and (5)

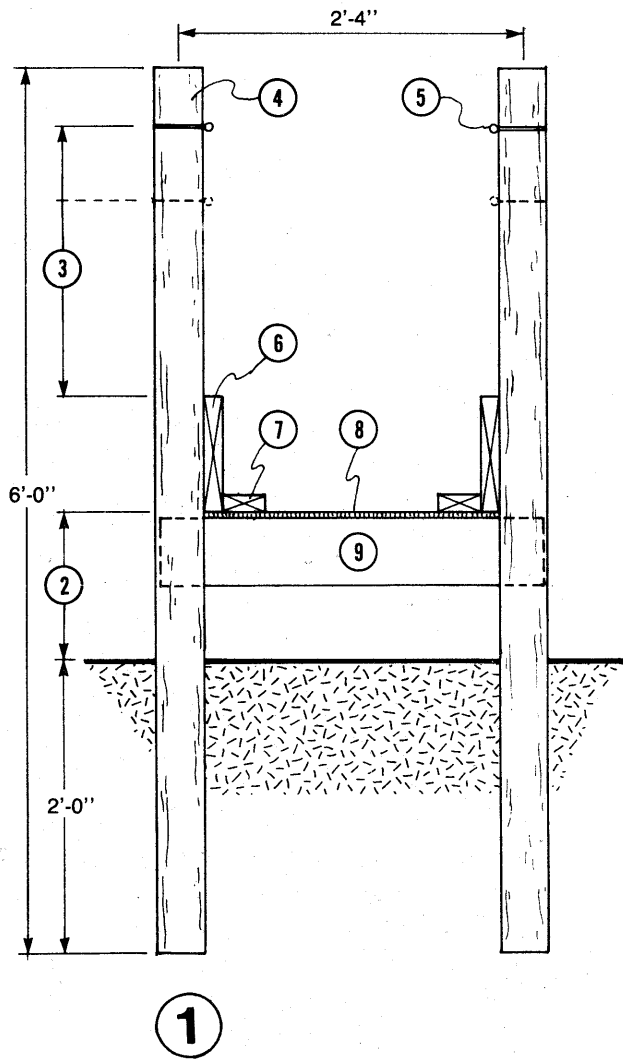
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1. Feed bunk cross-section
2. bottom of trough to ground; 12" for cows, 8" for calves
3. center of eye bolt (5) to top of (6); 22" for cows, 16" for calves
4. 4" \varnothing pressure-treated post @ 8'-0"
5. eye bolt through (4), to support 3/8" galv. cable. Ground cable for lightning protection with 00 copper conductor or equal, attached to 1/2" galv. pipe or 5/8" galv. rod 10'-0" into ground at both ends of feeder
6. 2" x 10" fir
7. 2" x 4" fir runners
8. 2'-0" wide x 5/8" construction grade fir plywood
9. two 2" x 6" fir joists at each post