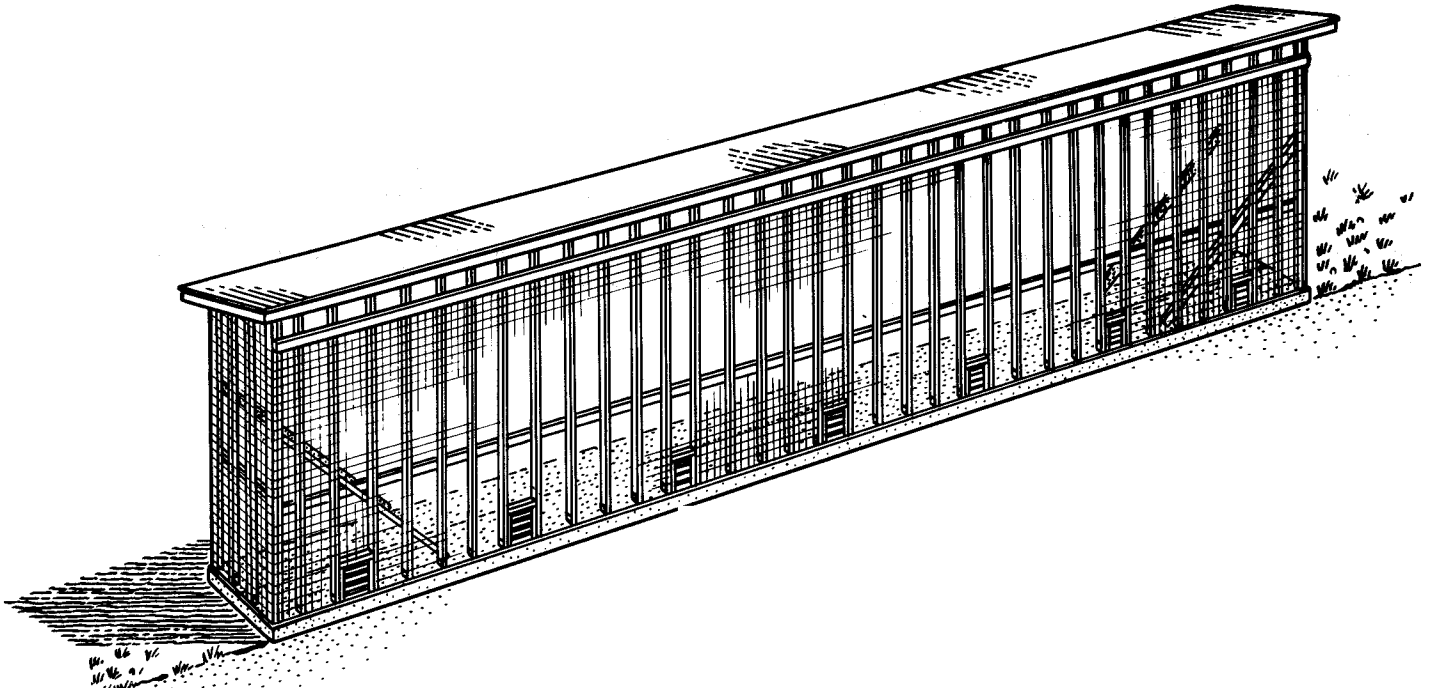


CORN CRIB



The Canada Farm Building Plan Service design centre prepares detailed, large-scale plans for Canadian agriculture. This leaflet describes one of these plans, prepared through cooperation of a committee of experts from the provincial Departments of Agriculture.

Ask for this plan by number at your provincial Department of Agriculture distribution centre, or from your local extension advisor.



FARM BUILDING PLAN SERVICE

PLAN 7212

CORN CRIB

This is a plan for an ear corn storage crib.

Size

The corn crib is 7 ft wide by 93 ft long by 18 ft high. In terms of shelled corn, the capacity of this crib is 4,687 bushels.

Construction Features

A reinforced concrete floor and foundation is shown for this structure. Metal stud anchors are set into the concrete.

The walls are made with 2 in by 6 in studs set 2 ft 8 in on center with 1 in by 10 in cross ties, one on each side of the stud. A 2 in by 6 in wind brace reinforces each corner of the crib. Galvanized welded wire stapled to the studding is the wall cladding.

Details are given for an optional wood frame ventilator for corn cribbed at over 28 1/2 per cent moisture.

The roof for this structure is made of 2 in by 6 in rafters placed 2 ft 8 in on center. The choice of roofing material is left to the builder.

A 2 ft space is left at the top of the front wall for the corn to be poured into the bin.. Unloading is done through louvered doors at the bottom of the front wall.

To Measure Ear Corn (in terms of shelled corn)

For ear corn, multiply the length by the width by average depth of corn, all in ft, then multiply by 2/5 or .4. If the crib is round multiply the area of the bottom, (.785 x d x d, where d is the diameter of the crib in ft) by the depth of corn in ft. This gives cu ft. Multiplying cu ft by 2/5 or .4 will give the quantity of shelled corn in the crib.