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Pole Buildings

Michigan State University Agricultural Experiment Station

Circular Bulletin – Farm Building Series

B.F.Cargill, Agricultural Engineering

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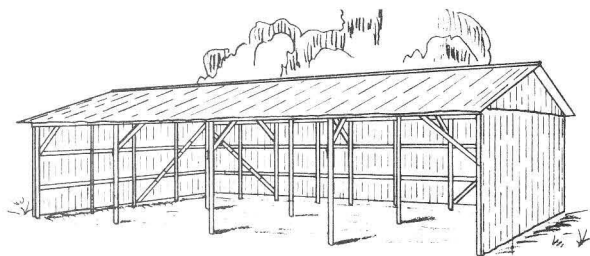
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## POLE BUILDINGS

B. F. Cargill

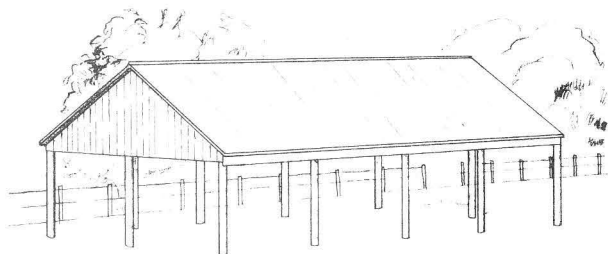
Extension Specialist in Agricultural Engineering



### 24' POLE MACHINERY SHED

Plan No. 741-C1-30 3 sheets

Plan details show this building with a center pole or with a  $\frac{1}{4}$  pitch truss rafter. Two truss plans, a glue-nail or ring-bolt are shown. Optional details include variable plate height and sliding doors. Plan is illustrated with 14' pole spacings. If self-propelled combines or other large machines are used, select Plan No. 741-C1-31, a 30' building, and provide one or more 16' wide bents.



### 30' POLE BUILDING

Plan No. 729-C1-4 2 sheets

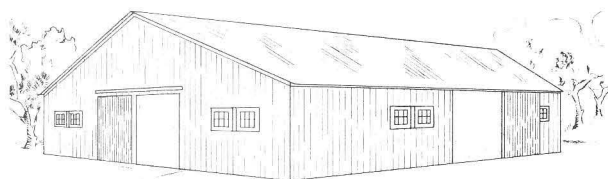
This plan is shown with a center pole. If clear span is desirable, select Plan No. 741-C1-31. Plan is illustrated with optional plate heights from 10' to 14'. Bill of material is shown per 14' bent. Rafters are 2" x 8" x 19' and roof has a  $\frac{1}{4}$  pitch. Building is adaptable for sheep, dairy, or beef housing, range shelter for poultry, and for storage purposes.

### ◆ 30' POLE MACHINERY SHED Plan No. 741-C1-31 3 sheets

Similar to above plan, but optional truss rafter plans are included. Selection of a glue-nail or ring-bolt truss can be made for a clear span building. Side poles are spaced 14' on center. If large 4-row equipment or self-propelled combines are used, construct one or more 16' bents.

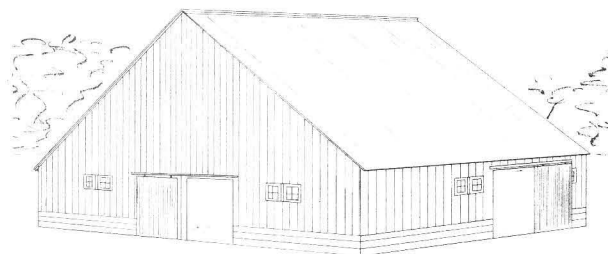
### ◆ 30' SELF FEEDING HAY BARN Plan No. 723-C1-56 2 sheets

Similar in sectional details; however, plan is complete with arrangement plan and hay capacities table. Roof has a  $\frac{1}{4}$  pitch with 2" x 8" x 19' rafters. If clear span construction is desired, obtain 30' truss details. Length is variable in multiples of 14', each bent has a capacity of 12-30 tons of hay and manger space for 15 head.



### ◆ 60' POLE MARKETING BUILDING Plan No. 729-C1-3 3 sheets

Similar in cross section except the plan is illustrated with a 4' elevated dock and concrete floor.



### 60' POLE BUILDING — 30' CENTER SPAN

Plan No. 729-C1-5 3 sheets

This multi-purpose building has application as a machinery center, processing building, shelter for beef, dairy, poultry, etc. Plan is illustrated with variable plate heights from 10' - 14', length in multiples of 14' and a  $\frac{1}{6}$  pitch roof. The 30' center span is designed for a truss rafter. Plan includes details for a 30' glue-nail or ring-bolt truss.

### ◆ 62' POLE BUILDING (WITH LOFT) Plan No. 729-C1-6 2 sheets

This pole building plan is illustrated with a 12' plate, 30' center storage loft, a  $\frac{1}{3}$  pitch roof and center pole. The building has a ridge height of 34' to allow for loft storage. Poles required are 6" x 18', 6 $\frac{3}{4}$ " x 30' and 6 $\frac{3}{4}$ " x 40'. For 30' clear span center, select Plan No. 729-C1-5.

Similar building construction except plan is illustrated without the center loft, has a 10' - 6" plate and 22' ridge height. Poles required are 6" x 16', 6 $\frac{3}{4}$ " x 22', and 6 $\frac{3}{4}$ " x 30'.

◇ Working drawings may be obtained at cost from the Agricultural Engineering Department, Michigan State University, East Lansing, or your County Agent.

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