MACHINE STORAGE

WILL IT PAY?
A good building for machine storage will increase the useful life of machinery, decrease maintenance costs, and increase trade-in value.

CHOOSING A BUILDING
Side access: An open front area is fine for mild climates, but doors are recommended for severe climates. Drives across the building between doors in both walls are handy for parking tractors and mowers, etc. End access: Buildings 26' or more wide can have end doors and a lengthwise alley. Same side doors are convenient.

Doors: Most machines will fit through a door only 10' high. Canopies may require more height.

At least one door should be large enough to take the biggest machine — this can be in the endwall, or at the end of the building where natural slope increases building height.

Overhead doors are most convenient with rolling and hoisted rolling 2 and 3.

SPACE REQUIREMENTS
Measure actual equipment to be stored, or use the typical sizes laid out in this plan. Allow about 10% more than the space taken up by the machines. This leaves clearance around the machines and a little room for expansion.

SELECTING A SITE — shop and machine storage.
A well-drained site with lots of room makes it easier to move machines around the shop and storage areas.

At least 60' of paved or gravel driveway will be needed in front of doors. Storage and repair areas should be away from the shop and storage areas. Allow room for expansion. The building should be built as close to the house as possible to reduce fire hazards.

Raise the floor 6' to 12' above outside grade.

SHOP

WILL IT PAY?
A good farm shop makes it easier to keep machines in good operating order. Well-maintained equipment permits: On-time field work for higher quality. Higher crop yields. Greater crop revenue. Lower maintenance costs. Higher trade-in or resale values.

CHOOSING A BUILDING
An insulated building with a concrete floor can be used the year around. Use a non-flammable interior lining. A large service door (10' high minimum) is needed. One or more small doors are handy. Canopies may need larger doors. The size of the shop will depend on farm size, equipment to be repaired, and tools used. The working space should be at least twice as big as the biggest machine.

 Allow plenty of room for storage, and some space for new tools and equipment.

INSIDE THE SHOP
Arrange tools and storage in convenient areas. Use cabinets, metal working, etc. Put workbenches against walls, large tools near walls. Isolate oil and grease storage to reduce fire hazards. Lots of lighting and outlets increase convenience and safety.

MACHINERY HOUSING & REPAIR
PLAN NO. 74118

MACHINERY HOUSING PLANNING AND SAMPLE LAYOUTS
TYPICAL MACHINERY SIZES
FARM SHOP PLANNING AND ARRANGEMENTS

MIDWEST PLAN SERVICE
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region — USDA Cooperating

MACHINERY HOUSING & REPAIR

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30' X 30' FARM SHOP

Sample Wiring:
All wiring should meet code requirements. Buildings used to store vehicles or fuels, or with other potential hazards, should meet special wiring requirements.

Check with power supplier.

All outlets should be grounded, up to 6 double-convenience outlets per 20 amp circuit. Locate outlets about 5' to 10' apart.

Wiring for welders and other special equipment should be separately fused and have over-protective devices.

Wiring Diagram:
Provide one 40-watt fluorescent tube per 30-35 sq. ft., or one 100-watt incandescent bulb per 25-30 sq. ft. Arrange the lights in rows, with one row just behind the front edge of workbenches.

Electric Floor Heat: Electric heating cable (10 watts per sq. ft.) buried 1' deep. A floor over 1' of expanded polystyrene insulation will help keep feet warm and the floor dry.

Convenience Outlet
Special Purpose Outlet 200 Volt
Incandescent Lighting
Fluorescent Lighting

S1 Single-Pole Switch
S3 Three-Way Switch
S4 Four-Way Switch

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