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Jan 14

Protect Your Farm Machinery



THIS JUNK PILE IS COMPOSED LARGELY OF RUINED FARM MACHINERY WHICH
WOULD BE STILL ON THE FARM AND WORKING HAD THE OWNERS
BUILT IMPLEMENT SHEDS

LEGISLATIVE LIBRARY
VICTORIA, B. C.

An 8-foot Binder

which

Cost \$175 in 1913

Costs \$270 to-day

Housing a Binder

doubles

its life

An Implement Shed
will pay
for itself
in a few years

You **CANNOT** *afford*

not

to build implement sheds

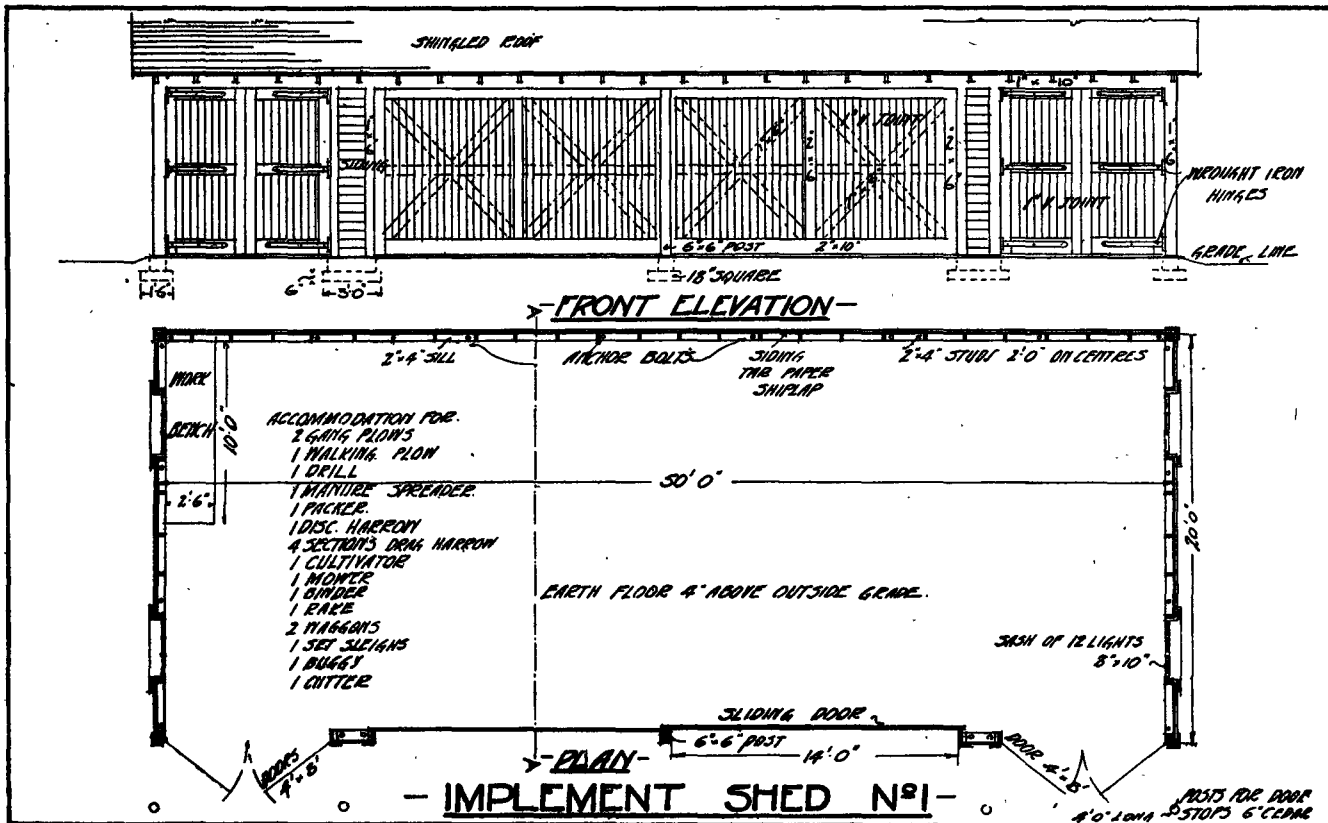


FIGURE 1. This shed, 50 ft. x 20 ft., is suitable for a half section or section farm.

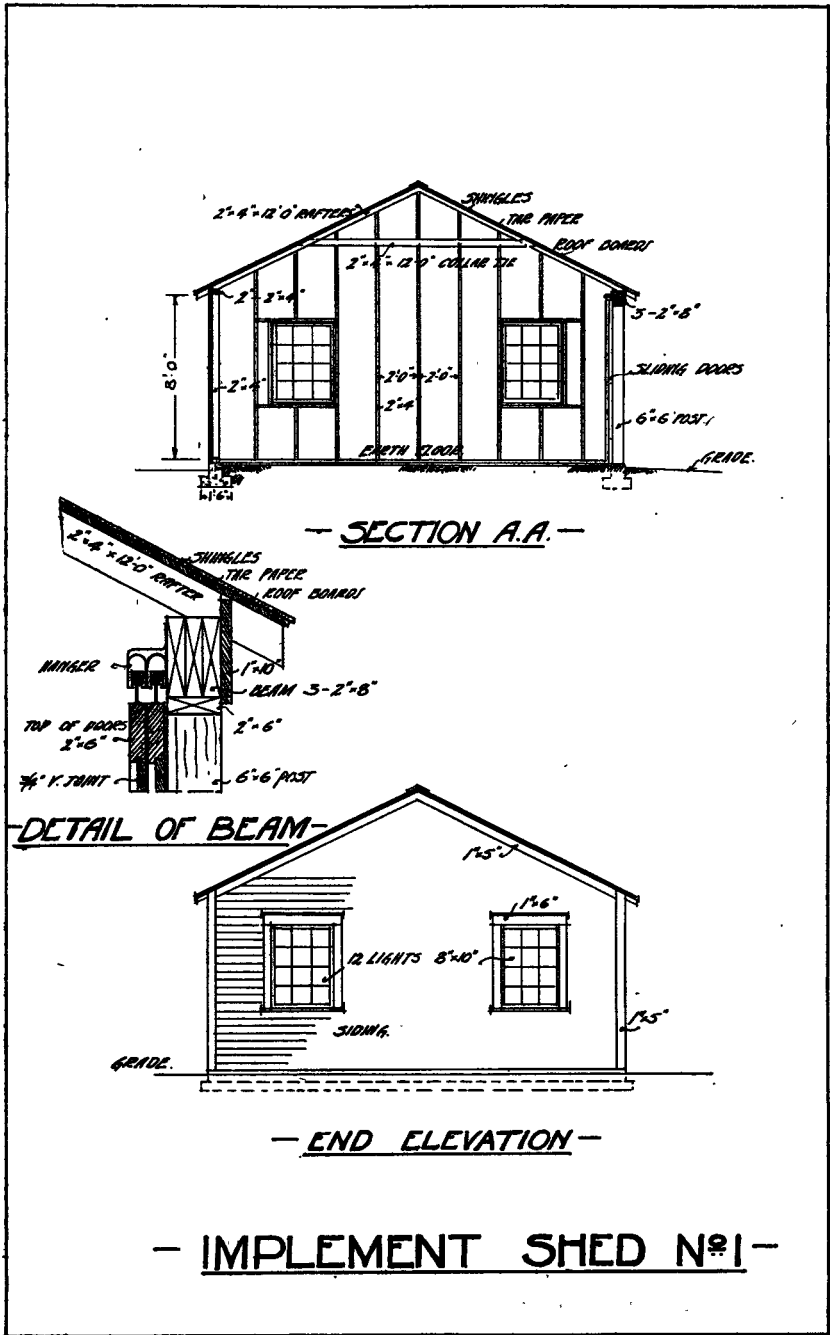


FIGURE 2. Showing the simple frame construction and the manner of building the beam above the sliding doors.

IMPLEMENT SHED No. 1.

FIGURES 1 AND 2.

This is a small shed 20 feet wide by 50 feet long, suitable for a half-section farm. It can be enlarged at either end as required. A binder can be taken through the fourteen-foot doors in the middle with little trouble.

In building the concrete foundation, excavate a trench 1 foot 6 inches wide for the footing until a good bottom is reached. Have the forms made 8 inches apart for the wall, carrying them 6 inches above ground and down to within 6 inches of the bottom of the footing. Support the forms well from the ground. Then fill with concrete mixed one of cement to five of gravel. Be sure the gravel is free from top soil, is not too fine, and is well mixed. Set the 20 anchor bolts in the concrete, leaving them projecting above sufficiently to go through the 2 x 4 sill and to be fastened with a nut and double washers. Make a good foundation about 24 inches square for the 6 x 6 post between the sliding doors. Put a 2-inch dowel about 6 inches into the concrete and about 4 inches into the bottom of the post.

Cinders or ashes make a good floor after they are well tramped down. If they are not easily procured, gravel could be used. The floor should be raised up 2 or 3 inches higher than the ground outside, so that it will remain dry.

The work bench is shown in this shed for the purpose of having it handy for repairs. The workshop proper should preferably be a separate building, where there would be less fire risk.

The doors are built with a 2-inch frame rabbeted $\frac{3}{4}$ inch for the V-joint; the central rails are 1 inch by 6 inches and are mortised into the stiles. The swinging doors have their hinges bolted to the 2 pieces of 2 x 6 studding, which are covered with a piece of ship-lap and then by the 1 x 6 casing. Hooks and eyes are specified for all the hinged doors to hold them open or shut. There is nothing harder on a door than allowing it to swing in the wind.

Bill of Materials, Implement Shed No. 1.

FRAMING LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
1	6	6	8	24	Post between sliding door.
2	4	4	16	48	Bearers and legs, work bench.
3	2	10	10	50	Work bench.
6	2	8	16	128	Beam over sliding door.
6	2	8	10	80	Beam over hinged door.
2	2	6	16	32	Plate under beam sliding door.
2	2	6	10	20	Plate under beam, hinged door.
12	2	6	8	96	Studs front wall.
2	2	6	2	4	Sill front wall between doors.
12	2	4	16	128	Sills, sides and back, plates back.
8	2	4	14	75	Studs end wall.
52	2	4	12	416	Rafters
8	2	4	12	64	Studs end wall and trimmings to windows.
26	2	4	12	208	Collar ties to each rafter.
4	2	4	10	27	Trimming to windows.
4	2	4	10	27	Studs end wall.
28	2	4	8	150	Studs back wall.
1	2	4	8	5	Sills, sides and back; plates, back.
Total				1577	

FINISH LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
2	2	10	16	58	Door rails, bottom of sliding-door, rabbetted.
2	2	10	8	27	Door rails, bottom hinged door to cut 4 pieces 4' 0".
2	2	6	16	32	Door rails, top of sliding door, rabbetted.
2	2	6	8	16	Door rails, top of hinged door, rabbetted, to cut 4 pieces 4' 0".
14	2	6	8	112	Door stiles, rabbetted.
4	1	10	16	53	Front and back frieze.
4	1	10	10	34	Front and back frieze.
2	1	6	14	14	Door rails centre of sliding doors.
8	1	6	10	40	Doors, cross braces.
4	1	6	10	20	Corner boards.
4	1	6	8	16	Door casings.
2	1	6	8	8	Door rails centre of sliding door to cut 4 pieces 4' 0".

Bill of Materials, Implement Shed No. 1.—*Concluded*

FINISH LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
4	1	6	4	8	Doors rails centre hinged to cut 4- pieces 4' 0".
2	1	5	16	18	Ridge boards.
4	1	5	12	20	Frieze on gable ends.
4	1	5	10	17	Corner boards.
2	1	5	10	8	Ridge boards.
2	1	4	16	11	Ridge boards.
2	1	4	10	7	Ridge boards.
4	1	4	8	11	Door stops, hinged doors.
Total Finish Lumber.....				520	

- 450 feet board measure, V-joint in 14 feet lengths, for doors.
 1,200 feet board measure, siding, for walls.
 2,600 feet board measure, shiplap, for walls and roof.
 12,500 British Columbia red cedar, edge-grain shingles (50 bundles).
 4 sash, 9 lights, 10" x 14"; outside size 2' 10½" wide x 8' 10½" high.
 4 frames, sills and casings, 6" wall, for sashes.
 4 cedar posts, 6" diameter x 4' long, for door stops.
 6 rolls tar paper.

HARDWARE.

- 20 bolts, ⅝ x 8", with nuts and double washers, for the foundations.
 12 wrought iron T hinges, 36", and bolts for 2" hanging doors.
 30 feet double track and bolts, for sliding doors.
 6 door hangers and bolts, for 2" doors.
 2 barn door latches.
 8 6" hooks and eyes, for hinged doors.
 60 lbs. 1¼" shingle nails, galvanized or zinc-clad.
 30 lbs. 4" common nails.
 50 lbs. 2½" common nails.
 20 lbs. 2" finishing nails, for doors, etc.
 80 lbs. 2¼" flooring nails, for siding.
 4½ yds. gravel, for foundation.
 25 bags cement, for foundation.

These plans were prepared with the assistance of the College of Agriculture, University of Saskatchewan, Walter C. Murray, President; W. J. Rutherford, Dean, and A. R. Greig, Professor of Agricultural Engineering.

WOOD

is the cheapest, lightest and strongest, weight for weight, building material obtainable, and is almost a non-conductor of heat and cold



BUILD *of* WOOD

use

B.C. Red Cedar Shingles
and be sure to use the
right shingle nail

DO NOT USE THE ORDINARY
BLUED SHINGLE NAIL

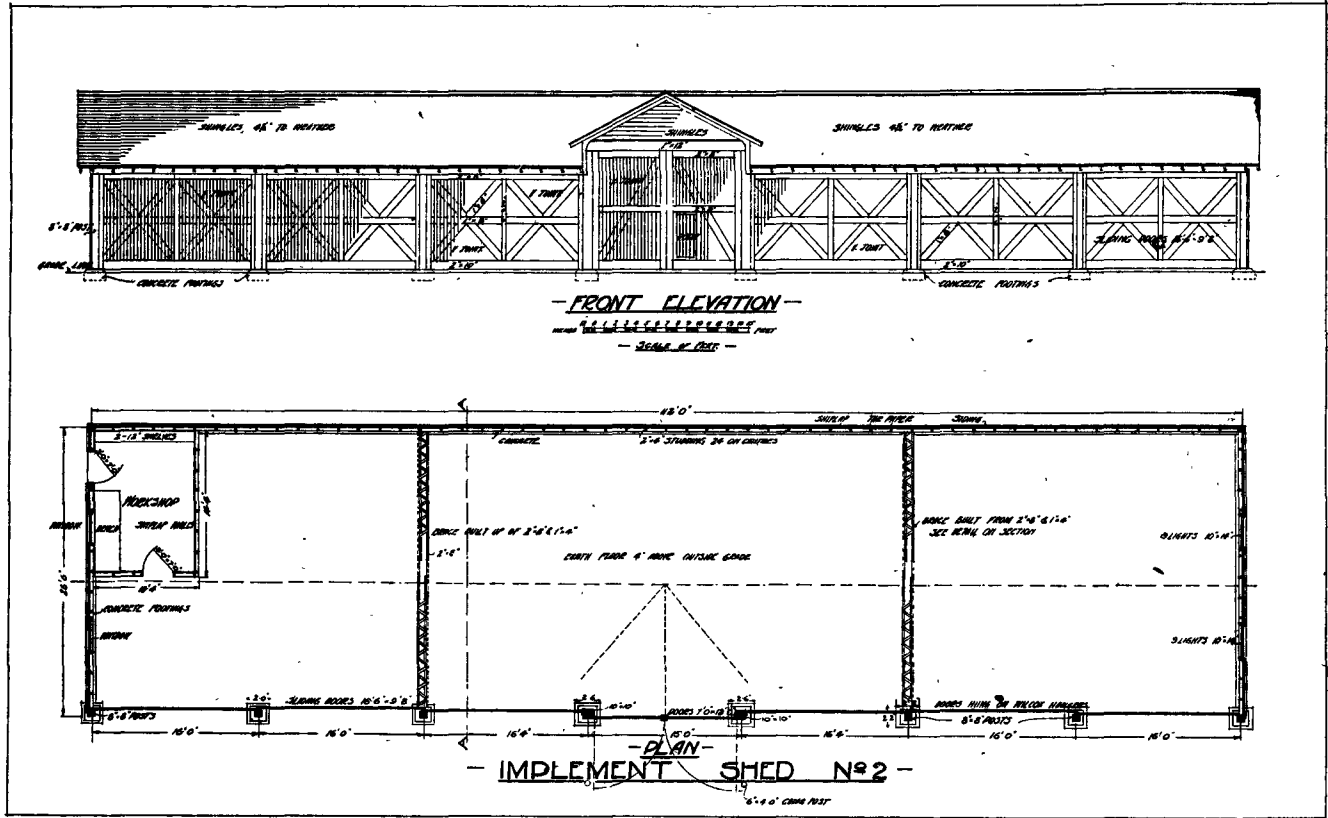


FIGURE 3. A bigger shed, 112 ft. long and 28 ft. wide, suitable for a large grain farm. The middle doors are 12 feet high to take an engine and separator. Two binders or four drills can be stored in a row across the building.

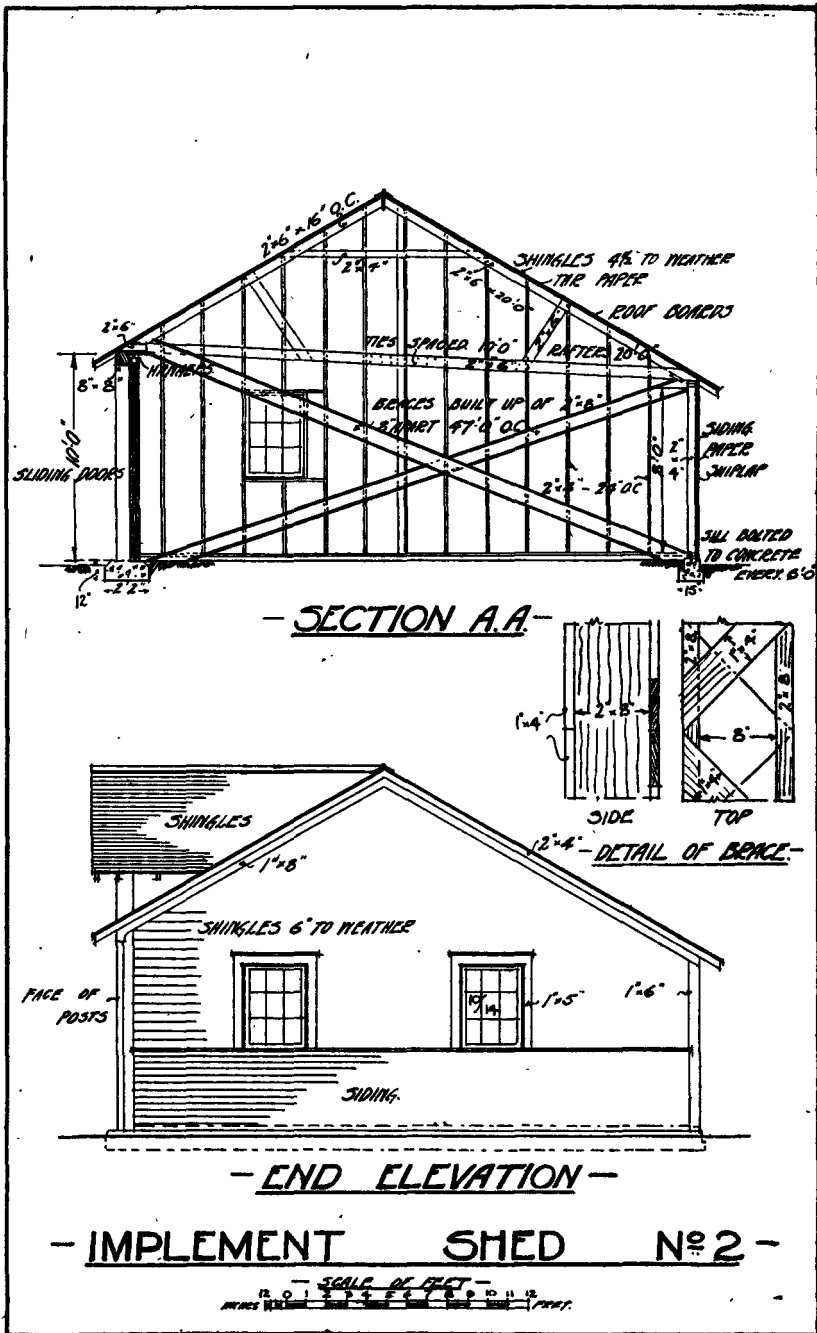


FIGURE 4. There are no posts to interfere with storage. The cross section shows the location of the long diagonal braces, and the detail shows how they are built up.

IMPLEMENT SHED No. 2.

FIGURES 3 AND 4.

In size this shed, 28 feet 6 inches wide by 112 feet long, is much larger and its storage capacity correspondingly greater than shed No. 1, and it can be similarly increased or decreased in length as desired. It is intended for the larger grain farms of one or more sections, with an equipment of an engine and separator, and several drills, binders, etc. Any separator and engine, except the largest sizes, can be taken through the middle doors (12 feet high) and stored inside. Binders can be taken through the sliding doors without any trouble. The building is wide enough to accommodate two binders or four drills in a row, one behind the other.

The construction is similar in general to that of shed No. 1. There are no posts inside the building, but it is strengthened by two pairs of diagonal braces, built up of 2 x 8 plank and lattice work. The floor may be of earth, or preferably gravel or cinders, and should be raised two or three inches above the outside level to insure dryness.

Bill of Materials, Implement Shed No. 2.

FRAMING LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
1	10	10	16	133	Beam over large doorway.
2	10	10	12	200	Post large doorway.
6	8	8	16	512	Beams sliding doorways.
6	8	8	10	320	Posts large doorway.
1	4	8	12	32	Corbels on posts under joists of beams to cut 6 pieces 2' 0".
4	2	8	20	107	Valley rafters.
16	2	8	16	341	Cross braces plate to foundation.
3	2	8	16	64	Ridge piece.
5	2	8	14	98	Ridge piece.
60	2	6	20	1200	Rafters, back.
54	2	6	16	864	Rafters, front.
11	2	6	16	176	Ties across at plate.
1	2	6	16	16	Ridge at gable.
7	2	6	16	112	Door hanger strip.
11	2	6	14	154	Ties across at plate.
11	2	6	10	110	Braces, ties to rafters.
8	2	6	10	80	Rafters at gable.
2	2	6	8	16	Rafters at gable.

Bill of Materials, Implement Shed No. 2.—Continued

FRAMING LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
1	2	6	8	8	Rafters at gable to cut 2 pieces 4' 0".
2	2	6	6	12	Rafters at gable.
4	2	4	18	48	Studs end wall.
27	2	4	18	288	Sills and plates.
8	2	4	16	85	Studs end wall.
4	2	4	16	43	Plates and studs gables.
8	2	4	14	75	Studs end wall.
4	2	4	12	32	Studs end wall.
58	2	4	10	387	Collar ties.
16	2	4	10	107	Studs end wall and workshop.
60	2	4	8	320	Studs back wall.
11	1	6	12	66	Splices to ties to cut 22 pieces 6'.
1	1	4	18	6	Lattice bracing.
12	1	4	16	64	Lattice bracing.
3	2	10	8	40	Bench.
2	4	4	16	43	Bench frame.
6	1	12	10	60	Shelving and division.
Total Framing Lumber.....					6214

FINISH LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long.	Feet Board Measure.	
6	2	10	16	160	Bottom rails sliding doors, rabbetted.
2	2	10	8	27	Bottom rails centre doors, rabbetted.
6	2	8	16	128	Top rails sliding doors, rabbetted.
4	2	8	12	64	Stiles, centre doors.
4	2	8	8	43	Centre and top rails, centre doors, rabbetted.
18	2	6	10	180	Stiles sliding doors, rabbetted.
1	2	6	6	6	Stile, small door in larger door.
1	2	6	2	2	Bottom rail, small door.
1	2	4	10	7	Stiles small door, rabbetted.
1	2	4	2	1	Top rail small door, rabbetted.
*10	2	2	16	53	Belt strip.
*1	2	2	10	3	Belt strip.
14	1	10	16	187	Frieze front and back walls.
2	1	8	20	27	Frieze end walls to gable.
2	1	8	16	21	Frieze end walls to gable.
2	1	8	12	16	Braces centre doors.
29	1	8	12	192	Braces sliding doors.
2	1	8	10	13	Frieze to gable over centre door.
8	1	6	16	64	Ridge boards.

Continued on next page.

Bill of Materials, Implement Shed No. 2.—*Concluded*

FINISH LUMBER					Used for.
No. of Pieces.	Inches Thick.	Inches Wide.	Feet Long	Feet Board Measure.	
4	1	6	10	20	Corner boards.
12	1	6	8	48	Centre rails sliding doors, rabbetted.
8	1	5	16	58	Ridge boards.
2	1	5	10	8	Corner boards.
Total Finish Lumber.....				1828	

*Random lengths to make up the same total lineal feet will answer for these items.

- 1,160 feet board measure 1" V-joint in 10' lengths, for doors.
- 260 feet board measure 1" V-joint in 12' lengths, for doors.
- 7,720 feet board measure shiplap, walls, roof and workshop.
- 850 feet board measure siding, walls below belt.
- 180 lineal feet, 2 x 3 water table.
- 57,000 British Columbia red cedar edge-grain shingles for roof and walls (228 bundles).
- 4 sash, 9 lights 10" x 14", outside measure 2' 10½" wide x 3' 11" high.
- 4 sash frames, sills and casing, 6" wall.
- 1 door frame, sill and casing, 6" wall.
- 2 cedar posts, 6" x 4', for swinging door stops.

HARDWARE.

- 18 rolls tar paper.
- 96 feet double door track and bolts.
- 18 door hangers and bolts, sliding doors.
- 28 bolts ⅝" x 10", nuts and double washers, for foundation.
- 8 pair 48" heavy wrought iron hinges, for middle doors.
- 2 pair 4½" butt hinges, for small doors.
- 1 pair 6" strap hinges, for small door.
- 280 lbs. shingle nails, 1¼", zinc-clad or galvanized.
- 50 lbs. 2¼" flooring nails, for siding and V-joint.
- 150 lbs. 2½" common nails, for shiplap.
- 130 lbs. 4" nails, for framing.
- 25 lbs. 2" finishing nails.
- 14 hooks and eyes, 6".
- 32 feet galvanized iron, for valleys, 18" wide.
- 8 yards gravel, for foundation.
- 48 bags cement, for foundation.

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your fertile prairies also
set out your lumber woods
in British Columbia**

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YOUR WHEAT**

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LUMBER**

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1919
