

Miscellaneous.

Shape and Strength in Wood.

A very useful rule in practice, in giving strength to structures, is this:—The strength of every square beam or stick to support a weight, increases exactly as the width increases, and also exactly as the square of the depth increases. For example:—A stick of timber eight inches wide and four inches deep (that is, four inches thick) is exactly twice as strong as another only four inches wide, and with the same depth. It is twice as wide, and consequently twice as strong; that is, its strength increases just as the width increases, according to the rule given. But where one stick of timber is twice a deep, the width being the same, it is four times stronger; if three times as deep, it is nine times stronger, and so on. Its strength increases as the square of the depth, as already stated.

The same rule will show that a board an inch thick and twelve inches wide, will be twelve times as strong when edgewise as when lying flat. Hence the increase in strength given to whistletrees, fence-posts, joists, rafters, and string-pieces to farm bridges, by making them narrow and deep.

Again, the strength of a round stick increases as the cube of the diameter increases; that is, a round piece of wood three inches in diameter is eight times as strong as one an inch and a half in diameter, and twenty-seven times as strong as one an inch in diameter. This rule shows that a fork handle an inch and a half in diameter at the middle, is as much stronger than one an inch and a quarter in diameter, as seven is greater than four. Now, this rule would enable the farmer to ascertain this without breaking half a dozen fork handles in trying the experiment, and it would enable the manufacturer to know, without the labor of trying many experiments, that if he makes a fork handle an inch and a half in the middle, tapering a quarter of an inch toward the ends, it will enable the workman to lift with it nearly twice as much hay as with one an inch and a quarter only through its whole length.—Ohio Farmer.

Care of a Watch.

Do not make a toy of it for yourself or the children. Never open it except for necessary purposes.

It should be regulated to about mean temperature, and always kept as near the same temperature as possible.

It should not be allowed to stop. Better that it be kept running all the time.

Keep it in as uniform a position as possible. If in the pocket, better that the pendant ring be upright.

Out of the pocket, if it hang on the wall, let it be upon some soft surface. Never allow it to lie on bare marble or other hard

surface. If it is to lie on any surface, let it be with face up, and pendant ring turned under, so as to keep the upper part most elevated. Let your key fit exactly, and be kept perfectly clean. By the former you may save breaking chains, main-springs, ratchets, clicks, &c., by the latter prevent introducing much dust.

Wind, if possible, at the same hour each day.

While winding, hold your watch steadily in your left hand. Turn only your key, and that firmly, evenly, avoiding all quick motions or jerks.

Set your watch with a key; never turn the hands by any other way. You may turn the hands either way without danger, if they do not move very hard.

Markets.

Toronto Markets.

"CANADA FARMER" Office, Aug. 12th, 1869.

FLOUR AND MEAL.

The market has been quiet, but prices have kept firm at the following rates:—

Flour—No. 1 Super, \$4 55. Do. Fancy, \$4 90. Do Extra, \$5 00.

GRAIN.

The market has been quiet, with very little doing. The quotations of Barley, Peas, and Rye may be considered merely nominal. The following are the figures:—

Wheat, spring, \$1 06 to \$1 07 Do. fall, \$1 07. Oats, 52c. Peas, 70c. Rye, 65c.

HAY AND STRAW.

Hay—New hay sells at from \$9 to \$11. Straw is in light supply, selling at from \$5 to \$6 provisions.

The following are the quotations.— Butter—Dairy, choice, per lb., 14c. to 14 1/2c Do. in rolls on the market, 17c to 18c.

Cheese.—In lots, 11c Do. Rees's's Stilton and Queen's Arms, 17c.

Pork.—Extra prime, per bbl., \$22. Bacon, rough, 12c. to 12 1/2c. Do. Cumberland Cut (boxed), 12c. to 12 1/2c.

Hams—13c. to 13 1/2c. Lard—In casks, 16c. to 16 1/2c., do. in kegs, 15c. to 16c. Beef Hams, or Spec'd Beef—13c. Do Retail, 17c.

THE CATTLE MARKET.

The market has been poorly supplied, and good cattle have been much inquired for. Those offering were principally 2nd and 3rd class. We quote per 100 lbs. dressed weight: 1st class, \$6 to \$6 50; 2nd Do, \$5 to \$5 50; 3rd Do, \$4 to \$4 50.

Sheep.—No large supply, and prices are firm. We quote: 1st class, \$4 each; 2nd Do, \$3; 3rd Do, \$2 50.

Lamb.—In plentiful supply, with a good demand. We quote: 1st class, \$3 each; 2nd Do, \$2 25; 3rd Do, \$1 75.

Cats.—Not much looked after and prices lower. We quote 1st class, \$6; 2nd Do, \$4; 3rd Do, \$3.

PROVINCIAL MARKETS.

Hamilton.—There is really no local grain market here at present. The vegetable market is well supplied. Potatoes are remarkably plentiful and fine. Fresh Butter, in rolls, sold from farmers' waggons early in the day at 20 cents. Other commodities without material change. Prices (silver): Wheat, white per bush., \$1 05, do, red, per bush., \$1 05, spring wheat, per bush., \$1; Peas, per bush., 62 1/2c to 65c., Oats, 50c.; Barley, 75c.; Mutton, per lb., per side, 5c. to 6c.; Lard, 15c to 14c.; Veal, per lb., per side, 5c. to 6c.; Butter, tub, 15c. to 17c.; do, rolls, 18c. to 19c.; Tallow, per cwt., \$6 to \$7 75; Honey, per lb., 20c.; Turnips, per bush., 20c.; Onions, per bush., 22c.

Cueph, Aug 3.—Fall Wheat, per bush, \$1 04 to \$1 05; Spring Wheat per bush., \$1 04 to \$1 05. Oats per bush., 65c. to 68c. Peas per bush., 70c. to 75c. Barley per bush., 60c. to 65c. Wood, 20c. to 31c. Hides, per 100 lbs, \$4 50 to \$5. Beef, do., \$7 to \$8. Pork, do., \$7 to \$9. Straw per A, \$3 to \$4. Hay per ton, \$8 to \$10. Eggs per dozen, 12c. to 15c. Butter per lb., 14c. to 15c. Apples per bush., \$1 to \$1 12. Potatoes per bag, 60c. to 70c. Sheepskins, 80c. to \$1 25.

London, Aug. 3.—There were a few loads of Fall and Spring Wheat and Oats in.—Fall brought from \$1 to \$1 01; Spring from \$1 to \$1 03, and Oats from 55c. in bills to 60c. in silver. Potatoes plentiful, at from 50c. to 70c. per bushel. Wool, one large lot, changed hands at 31c., and a small, inferior parcel, at 25c.

Advertisements.

IMPORTANT SALE

THOROUGH-BRED AND GRADE CATTLE,

ALSO,—HORSES AND A FEW CHOICE COTSWOLD SHEEP,

At the Farm of Mr. John L. Gibbs, Compton, Province of Quebec.

THE UNDERSIGNED HAVING RECEIVED INSTRUCTIONS, will sell by PUBLIC AUCTION,

ON THE SECOND DAY OF SEPTEMBER

At MAPLE LODGE FARM, COMPTON, Eastern Townships, P. Q., two miles from the Grand Trunk R. R. Station, a choice lot of Thorough-bred Stock, imported within the last five years. Also, a number of their progeny, consisting of Durhams, Herefords, Ayrshires and Devons.

A number of fine Grades from the above Stock, of all ages.

A few imported Cotswolds and Grade Sheep, and several first-class Blood Mares and Colts.

The Thorough-bred Cattle all bear first-class pedigrees.

Sale to commence at ten o'clock, punctually.

Catalogues will be sent on application.

v1-s-11. A. O. KELLAM, AUCTIONEER.

HAMILTON NURSERIES.

- 3000 CHERRY TREES,
- 5000 PLUM TREES,
- 4000 DWARF PEARS,
- 4600 GRABS—12 SORTS,
- 1600 PEACH ON PLUM ROOTS,
- 1000 SILVER MAPLES, 5 to 8 FEET.

Also, Horse Chestnuts, Mountain Ash, Willows, Kentucky Colic Trees, Tulip Trees, Mulberry Trees, European Sycamores, Poplars, English Elberts, &c., and a general assortment of Ornamental Shrubbery at moderate rates. Aug. 1869. [v1-s-2.] W. HOLTON.

SHORT-HORN BULL FOR SALE,

"DUKE OF MACDALA."

GOT by Mr. F. W. Stone's "Grand Duke of Macdonald," 57-2, 132-1. Dam Mattie, by Earl of Gloster, 607. [217.] &c. (Vide Canada Herd Book.)

"Duke of Magdala" is 1 year 8 months old, of Dark Red color, very quiet, and has already taken 3 first prizes at County and Township Shows.

Price reasonable. Apply to JOHN B. TAYLOR, London, Ont.

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The collection in both departments, useful and ornamental, is the largest in the U. S. Extensive specimen grounds are maintained at great expense, to determine qualities and insure accuracy in propagation.

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Small parcels forwarded by Mail, when desired. Nurserymen and Dealers supplied on liberal terms.

Descriptive and Illustrated priced Catalogues sent prepaid on receipt of stamps, as follows:

- No. 1.—Fruits, 10c.
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