

Professor Cantoni, of Turin, is engaged in a series of interesting experiments—of which I shall duly inform you—of the relation between the temperature of the soil and the air; between the roots of a plant and its stem, especially as takes place during the process of irrigation. But these and other points I reserve for "continuation in our next."

In 1788 the area of the vineyards in France was 3,325,411 acres; at present there are 5,682,353. The mean average yield of wine is 308 gallons per acre, valued at one franc the gallon in the Bordeaux district; the yield is about one-third more, in monetary value, in Burgundy, and double in Champagne. The mean average produce of wheat is, per acre, 19 bushels; meslin, 22; rye, 18; barley, 24; maize, 19; buckwheat, 19; and oats, 30. Ploughmen receive 500 francs a year wages, with board, and laborers from one franc to two per day.

Horticulture has been truthfully described as the laboratory of the fields. In France, the garden does much for the farm in the way of experiment, in the testing new varieties of farm plants. Much preparation is being made by French horticulturists for the forthcoming Horticultural Show at St. Petersburg in May—on the fifteenth of that month, according to the Russian calendar. The Czar does everything on a grand scale, and the prizes to be awarded will be valuable. Every cheap facility will be afforded to exhibitors from all parts of the world, and the "exhibits" will be bought in. Hamburg opens its International Horticultural Show in Sept., and promises to be the first of its kind. A good practice is growing up in France, that of wealthy proprietors delivering gratuitous lectures on horticulture, and its various branches. Petroleum is largely employed to heat hot-house boilers, as well as coal gas, &c., and portable boilers, of an economical construction are generally preferred. A beautiful pelargonium has been brought out, called Madame Rouher, wife of the first Minister of the crown, to whom it has been dedicated. The new *Hydrangea Otaksa* is much sought after, it is very ornamental, pottable, and easily propagated. Plants raised in the open air, bear a brighter shade than those raised in a hot house. The name *Otaksa*, is taken from the daughter of the gentleman who introduced it from Japan. The peach trees in the vicinity of Paris, were very sickly during the past season—microscopical examinations showed, that the malady sprang from fungi. It is common in France for amateurs to make an exchange of roots and seeds, addresses of such shall be furnished from time to time. The rose and camelia "crops" never were so plentiful in Paris, and the violets are as abundant, and as welcome as the flowers of May.

EXTRA AWARDS AT PROVINCIAL EXHIBITION OF 1868.

Diplomas were awarded to the following:—

Miners' and Fishermen's Boots, a very superior quality—the Truro Boot and Shoe Manufacturing Company.
Tobacco (manufactured), some very fine specimens—J. B. Campbell & Co.
Model of Turn-Table and Draw-Bridge—John Brookfield.
Blasting Powder, 12 samples, very fine—Academy Powder Company.
Ship's Winches—Dimock, Windsor.

Cordials, some very fine samples—J. Crookill & Son.

Stencil Work—Knapen, Halifax.

Stove Pipe Fitting and Cutting Machine—J. T. McGee & Co., St. John, N. B.

Eccentric Lathe—Silas Bishop.

Iron Seythe Sniaths—Alex. Sutherland, Gairloch, Pictou Co.

Carriage Axles—the Starr Manufacturing Co., Halifax.

Ladies' Travelling Trunk—William Trider, Halifax.

Hoop Skirts—Harrold, Halifax.

Fancy Sign Painting, some beautiful specimens—Studley, Halifax.

Weaver's Reed (Henry Wier Creelman)—Dunlap, Stewincke.

Specimens of Dentistry—A. C. Cogswell.

Washing Machine—Everett, St. John, N. B.

Refrigerator—S. C. Nash, Halifax.

Fishing Rods—Hobson, Halifax.

Chemicals and Proprietary Articles—F. B. Woodill, Halifax.

Chilled Car Wheels—W. S. Symonds & Co., Halifax.

Patent Spring Awning—Alex. Robertson, Halifax.

Vault Lock—T. W. Bateman, Halifax.

Mill Machinery—T. Hodgson, River Philip.

Galvanized Iron—A. Robinson, Halifax.

Spinning Wheel, and Model of Wind-mill and Water Wheel—Freeman & Burgess, Cornwallis.

Mr. Thos. W. Davies—Minerals, extra prize \$20, with diploma.

W. H. Schofield—Manganese Ores, diploma.

David Dickson, St. Mary's—Salmon, diploma.

A. H. Crowe, Haddock, diploma.

Hamblin, Baker & Co.—Salmon in tins, diploma.

A. P. Christian—Lobsters in tins, diploma.

Crane & Falconer—tins Mackarel, diploma.

C. Kaizer—Otter and Lamb Skins, diploma.

Mrs. Bourdillault & Co.—Boa Tippet, Sleigh Role, and Muff, diploma.

Everett Bros.—Ladies' and Gents' Caps and Silk Hats, diploma.

Matheson & Co.—Rotary Engine, diploma.

Bill & Skerry—Edge Tools, diploma.

B. Eaton—Edge Tools, diploma.

Thos. W. Cox—Horse Shoes, diploma.

Starr Manufacturing Co.—Cut Nails, diploma.

Richardson & Co., Worcester, Mass.—Buckeye Mowing Machine.

J. A. MacDonald, Shubenacadie—Hay-pitching Machine, \$5.

Miss E. Morris—Lace Handkerchief, extra prize, \$4.

Mrs. S. Boggs—Phantom Flowers, honourable mention.

A. & W. Mackinlay—School Apparatus, diploma.

C. E. Harris—Specimens of Staples' Writing Books, \$8 and diploma.

Carrie R. Morrison, Guysboro'—Writing Specimens, \$2 and diploma.

Muir & Co.—Blank Account Books, diploma.

G. & T. Philips—Book-binding, diploma.

A. & W. Mackinlay—Best Printed and Bound Books, diploma.

H. Fitzmaurice—Rob Roy Canoe, diploma.

Malcom & Johnston—Chimney Tops, diploma.

Francis S. McKenna—Model of Stair-case, diploma.

R. & J. Wetmore—Dressing Glass Frames and Capitals, diploma.

Moir & Co.—Corn Meal, prize \$4.

Moir & Co.—Vinegar, honourable mention.

J. P. Mott—Spices, Chocolate, and Candles, honourable mention.

F. B. Woodill—German Baking Powder, honourable mention.

M. F. Eager—Toilet Articles, Drugs and Dyes, honourable mention.

J. H. Woolrich—Bitters, Horse and Cattle Spices, honourable mention.

Herberts—Blackening and Inks, honourable mention.

Charles B. Flynn—Brushes assorted, diploma.
C. & W. Anderson—Roasted and Ground Coffee, honourable mention.

J. Knight—Packing Cases for Glassware, honourable mention.

R. A. Brehm—Soap and Candles, honourable mention.

D. Ellis & Co.—Home-made Bread and Rolls, honourable mention.

Bartholemew Walsh—Prime Pork, diploma.

A. Mulvena—Paste and Liquid Blacking, honourable mention.

R. Trotter & Co., Antigonish—Cotton and Wool Cloth, honourable mention.

Albert McCurdy—Home-made Wool Carpet, honourable mention.

Mrs. A. Young, Wolfville—Woollen Hearth Rug, \$2.50.

Mrs. D. Cox, Canning—Woollen Hearth Rug, \$2.50.

Mrs. Wm. Johnstone—Woollen Hearth Rug, \$2.50.

Mrs. D. Graham, Antigonish—Woollen Hearth Rug, \$2.50.

Sergt. Gall, 47th Regiment—Patch-work Quilt, money prize \$4.

Edward Curry, Windsor—Carriage Spokes, diploma.

J. M. DeWolfe—Barouche, prize \$20, and diploma.

M. J. O'Brien & Co.—Brougham and Buggy, Tea Cart or Sporting Phaeton, prize \$20, and diploma.

H. Crosskill—Dried Leaves, diploma.

T. A. Moren, Jr.—Moose and Cariboo Heads, diploma.

Croquet Set, diploma—H. O. & W. Scranton, Cambridge, Mass.

Embroidery, \$4—Mrs. Ryan.

Carving in Wood—Miss Allison, \$4.

The Farm.

THE BUTTER COW OF WINDSOR.

It hath been said by some political economist addicted to canine rhymes, that

"The proper value of a thing
Is just the money it will bring."

And on the same practical principle cow-keepers say—

"The proper value of a critt'r
Is just the gross weight of her butt'r."

We frequently read of wonderful cows that supply pails of milk, we forget how many, at each milking, but we do not pay much attention to them because the real test of the value of a cow is not the amount of salt water she drinks and the quantity of poor milk she gives, otherwise the prize for the best cow might well be voted to the City Waterworks. The real value of a cow's milk depends upon its richness in cream and consequent capability of yielding butter.

A few years ago we published the results of the yield of butter by a cow belonging to Edward O'Brien, Esq., of Windsor, which excited some interest among our farmers. Through the kindness of Joseph J. Northup, Esq., we have now the pleasure of furnishing a continuation of extracts from the Dairy Book of the Great Butter Cow. These are fully authenticated, and may be depended upon as strictly accurate. The