

RESULT OF WINTER WHEAT EXPERIMENTS AT THE ONTARIO AGRICULTURAL COLLEGE 1897.

One hundred and eighty-nine plots have been devoted to winter wheat experiments this season at the Ontario Agricultural College. Owing to the late harvest and exceedingly wet season no Winter Wheat Bulletin can be issued this year in time to be of much practical service before the period of winter wheat seeding is reached.

In an experiment with ninety one varieties of winter wheat, grown under similar conditions in 1897, it is found that the seven varieties which stand highest in yield of grain per acre are the same seven varieties which have given the largest yield of grain per acre among eighty-six varieties grown on the experimental plots for four years in succession. The following list gives the names of these seven varieties with the average yield per acre for four years, and also with the average yield per acre for this season.

VARIETIES	Average yield 1897	4 years
Dawson's Golden Chaff	54.4 bus.	33.5 bus.
Early Red Crowsfoot	50.2 "	32.4 "
Egyptian	50.2 "	32.3 "
Early Genesee Giant	50.1 "	31.9 "
Belleville	49.3 "	32.1 "
Golden Drop	49.0 "	31.6 "
Imperial Amber	38.6 "	32.2 "

Although the comparative order of the yields of these seven varieties are not the same in 1897 as in the average of four years, still the fact that they gave the largest yields in both cases among all the varieties tested is a very important feature in the experiment.

Land upon which peas were used as a green manure in 1896 produced a considerable larger yield of winter wheat per acre than similar land upon which rape or buckwheat had been used as a green manure, or which had been worked as a bare summer fallow. This experiment was conducted in duplicate, but for only one year. It is being repeated this season in a similar way.

Large plump seed sown in the autumn of 1896 produced 33 bushels per acre more than the small plump seed; 6 1/2 bushels per acre more than shrunken seed; and 42 3/4 bushels per acre more than the seed which had been broken with the machine in thrashing. The same number of winter wheat grains were used in the different selections, and the experiment was conducted in duplicate.

In the average of four years' experiments in cutting two varieties of grain at five different stages of ripening, the results show that the grain cut before maturity does not give as large a yield as that which was allowed to become fully ripened. The details of this experiment can be more fully studied when they are printed in the annual report of the College for 1897.

The average results of an experiment conducted for five years in succession, in sowing winter wheat at different dates in the autumn, show that the seedings of September 2nd and 3rd gave 1/4 of a bushel per acre more than the seedings of September 7th and 9th and 1/4 bushels per acre more than the seedings of September 17th and 25th. It is found that it is not usually advisable to sow winter wheat in the vicinity of Guelph later than September 9th.

PREVENTION OF SMUT IN WHEAT.

An experiment in treating seed wheat for the prevention of smut has been conducted for two years with quite satisfactory results. Infected seed wheat not treated for smut produced a crop containing an average of 2146 smut balls per bushel of grain; while that treated with Potassium sulphide produced an average of 109 balls of smut; that treated with Copper Sulphate 12 balls of smut; and that treated with hot water 9 balls of smut per bushel of grain. The hot water treatment which is one of the cheapest and most effectual remedies, consists in immersing seed wheat for fifteen minutes in hot water at a temperature of 132 degrees F. The water should not go below 130 and not above 135 degrees. Not only is the hot water treatment very effectual in killing the smut spores, but it frequently improves the productive power of the seed, as shown by the increased yield of grain per acre. Every farmer in smut infected districts should treat sufficient seed to insure the harvesting of clean grain for seed next year.

DISTRIBUTING OF SEED FOR TESTING PURPOSES.

The following three sets of winter wheat varieties will be sent free, by mail in one-half pound lots of each variety, to farmers applying for them, who will carefully test the three kinds in the set in which they choose, and will report the results after harvest next year. The seed will be sent out in the order in which the applications are received as long as the supply lasts.

SET NO. 1. Dawson's Golden Chaff, Early Genesee Giant, Early Red Crowsfoot.
SET NO. 2. Dawson's Golden Chaff, Early Genesee Giant, Early Red Crowsfoot.
SET NO. 3. Dawson's Golden Chaff, New Columbia, Imperial Amber.

Each person wishing one of these sets should write to the Experimentalist, Agricultural College, Guelph, mentioning which set he desires; and the grain, with instructions for testing, and the blank form on which to report, will be furnished free of cost to his address, until the supply of grain for distribution becomes exhausted.

C. A. ZAVITZ, Experimentalist, Agricultural College, Guelph, Aug. 14th, 1897.

TEACHERS

If you want to make \$150.00 during July and August, in a good cause, write me wire me quickly.
T. H. LINSKOTT, Toronto, Ont.

New Fall Boots & Shoes

THE LONGEST WEARING KINDS

Bought in Lots big enough to lessen the prices—Hence we naturally do the largest slice of the Boot selling—This month we've all the sizes—Next month—but likely enough they'll be sold before next month comes. For the boys: a great school boot in oiled grained leather, double thick soles,—Men's too, all priced fairly.

60 Years Experience has taught us where to get them

SNATHS and CRADLES now in stock. SCYTHES and SCYTHE STONES.

BEST XXX White Wine Vinegar 32 cents a Gallon. Fearman's Delicious Hams & Shoulders always in Stock.

ROGERS' Extra No. 1 "Peerless" Machine Oil, "Thick and Lasting" 38¢ per Gallon (Cheaper in larger quantities to Threshers and others; positively the best & cheapest Oil in Canada)

Large range of Dark and Heavy Shirtings, JUST IN. Also, a Snap in COTTONADE SHIRTINGS Regular, 20 cts., going at 15 cts a yard.

4 packages Best American Corn Starch, for 25 cents Tuesday. French Sardines, 5 cts a Box. Mixed Pickles, Sets a Bottle. Our 5 cent Pickling spice is a star.

NEW FALL FELT BLACK AND DARK BROWN FEDORA HATS.—London Styles, Hadn't an old one left over. See these. Of course they're the latest.

Highest Prices For Butter & Eggs. Deal out your next Tinnet of Butter here. There's a pleasure in being able to get everything you want at prices that please. ALL UNDER ONE ROOF.

J. A. HUNTER'S, UPPER TOWN

EGREMONT COUNCIL.

Council met Aug. 13th on motion of Leith and Russell, that the minutes as amended and read be adopted. Yeas, Dickson, Leith, Bye and Russell, Nays, McInnis.—Carried.

Mr. McInnis reported that he let the job of rep. bridge at Jas. Coult's to Wm. Aberdeen for \$3.25 and one additional log for 40c, total \$3.65. Also removing drift wood and underbrush at Merchant's bridge, to Alex. Merchant for \$3.97. Work completed, payment recommended.

Leith—Russell—That foregoing report be adopted and orders granted.—Carried.

Mr. Russell reported that he let 16 rods grading on Egremont and Proton town line, to John Dory for \$2.40, rep. culvert 20c, total \$2.60. Egt's share \$1.30 also ditching on said townline 18 rods, to J. Knipf for \$2.16 and filling hole with stones and earth \$2.28, total \$4.44. Egt's share \$2.22. Work completed, payment recommended.

Bye—Leith That foregoing report be adopted orders granted.—Carried.

Bye—McInnis—That Coun. Leith put in a culvert on side-line north of Seelett's corner.—Carried.

The reeve reported that he got the covering and rep. the bridge at Ellis' Blacksmith shop, Holstein, by Wm. S. Hursburgh for \$2.25 and recommended payment of the same.

Leith—Russell—That the reeve's report be adopted and order granted.—Carried.

In reply to a resolution passed and forwarded by the council of Mt. Fore to this council the following motion was presented:—

Leith—McInnis—To the Mayor and Council of Mt. Fore:—

Gentlemen.—The members of Egremont council beg leave to acknowledge the receipt of your resolution passed in Mt. Fore by the Town Council. We had long remembered our visit to Mt. Fore on Jubilee day, and the kindness received by the citizens of that town.—Carried.

Mr. Leith reported that he let the job of a culvert opposite lots 19, con. 17-18 to Tnos. Wainsley for \$7.75. Also 24 1/2 rods ditching opposite lots 19, con. 17 to Daniel Robertson for \$7.25. Also 26 1/2 rods graveling opposite lots 22, con. 22 to Jos Philips for \$14. Work completed, payment recommended.

Bye—Russell—That councillor Leith's report be adopted and orders granted, and he receive \$1 c.m.—Carried.

McInnis—Russell—That Wm. Wilber be paid \$9 payment of board for Wm. Williams for six weeks from the 30th day of June last.—Carried.

The reeve reported that he had examined bridge known as Coult's Baseline, and recommended a new bridge 35 ft. span, also clearing driftwood below the bridge, and that Geo. Stiehl be interviewed about removal of said driftwood.

Bye—Leith—That the reeve's report be adopted and his recommendations.—Carried.

Wm. S. Hursburgh, com. for Holstein, gave a detailed statement of expenditure of \$32.02 com. tax of ratepayers in said village, on streets and sidewalks.

Russell—Bye—That Wm. Hursburgh's report be adopted and order granted.—Carried.

McInnis—Bye—That C. McInnis repair the bridges at lots 13 14 and put a railing on the one at lot 14.

Bye and Russell reported on sidebank road R ussell's bill as follows:—Grading 22 rods, 16 ft. wide posts at each end in all, to Geo Bolton, \$30; Grading on top of hill 14 rods, 20 ft. wide posts and railing to P. Keith \$17 75; Grading and ditch west side 50 ft 6 in. tie, ditch 2 ft. deep, to Albert Yake \$6 75; Tightening nuts on bridge and cleaning off bridge, to Walter Bolton \$4; 260 ft. of tie ditch 18

THE BOOM OF THE SEASON

In Full blast at McArthur's

It means the highest price for EGGS and BUTTER in exchange for the cheapest GOODS of best QUALITY.

OUR COMPLETE DEPARTMENTS ARE READY-MADE CLOTHING DRY GOODS, GROCERIES, AND BOOTS & SHOES

Call and investigate our goods and Prices and we are sure you will go away entirely satisfied. **C. McARTHUR.**

inches deep 2 1/2 inches tile to David Bye \$7.50. He found tiles, 12 posts 3 ft. 4 inches in ground 4 1/2 ft. high, close boarded, to David Bye \$7; 180 ft. railing 5 in. thick, spiked and wired to posts, 40 ft. round logs for protection at turn at East John McDonald's do. \$3.33; H. Ham, express charges 26c; D. Urquhart, rep. scaper 15c.

McInnis—Leith—That we adjourn to meet on Sept. 29th, to appoint collectors and strike the rates and other business.—Carried.

School trustees will please lay their estimates in that date. D. ALLAN, Clerk.

gravel \$2.33; F. Jordan do \$4.10; Jas. Hamilton, do \$3.13; P. Dickson, timber \$1.50; H. Donald, gravel \$3; D. Keith, do. 70c; Tnos. Hill com. tax \$2; Wm. Evans, timber \$1.25; Jno. Kerr, gravel \$1; Jas. Eccles, do. \$1.60; W. Cowan, do. 40c; John McDonald, do. \$3.33; H. Ham, express charges 26c; D. Urquhart, rep. scaper 15c.

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Mortgage Sale. OF FARM PROPERTY IN THE Township of Bentrick in Co. of Grey UNDER AND BY VIRTUE OF A power of Sale contained in a certain indenture of Mortgage made by one Edward James Cross, which will be produced at time of sale, there will be offered for Sale by Public Auction, on SATURDAY, the 4th of Sept. 97, at the hour of two o'clock p. m. at the **BRITISH HOTEL** Durham, by HUGH MacKAY, AUCTIONEER,

the following valuable farm property in the Township of Bentrick in the County of Grey, containing by admeasurement 150 acres (more or less,) of splendid farm land, composed of lot number 23 in the 12th Concession of the Township of Bentrick and also that part of lot 22 on the said 12th concession of the said township of Bentrick, conveyed by one Elizabeth Wilson to one Peter Knechtel by deed already registered in the Registry Office for the South Riding of the County of Grey, and in said deed more particularly described. For terms and particulars apply to MRS. J. H. HUNTER, or to J. A. HUNTER, Dated at Durham August 2nd '97 A5-26.

GRANT'S AD

Bargains in Children's Suits For the month of July.

We intend making this, One of the best, if not The best months for Children's suits We have ever had.

WE ARE GIVING A DRIVE IN SOME ODD PAIRS OF OXFORDS.

We have a few pieces of light prints, regular price 12 1/2c, they are large patterns. Now to clear out, we make them 8c. At these prices they should not last long.

Butter and Eggs taken in Exchange.

C. L. GRANT, LOWER TOWN

FURNITURE AND UNDERTAKING

MISS SHEWELL

Would intimate that she will continue the Furniture and Undertaking Business established by her father in Durham in 1855 and will endeavor to give all old and new customers the same entire satisfaction.

—FULL LINE OF— Furniture of the Best Make ALWAYS ON HAND. PICTURE FRAMING A SPECIALTY

Undertaking and Embalming on "latest principles" at reasonable rates.

MISS SHEWELL

Remember the stand opposite the Market, Durham.

22 The only first-class Hearse in town. 73

Rheumatism & Dyspepsia Cured.

571 St. Patrick Street, OTTAWA, July 31st, 1896. To the Phenoline Medicine Co., Ltd. Ottawa, Ont.

GENTLEMEN.—On the advice of a friend I tried one bottle of your famous rheumatic remedy, Phenoline, and to my surprise it cured me of rheumatism, from which I have suffered for many years.

It also cured me of dyspepsia, from which I was suffering at the time, so what I feel now like a new man.

I have tried several remedies for rheumatism, so one of which did me a certain amount of good, but nothing that I have taken has done so much for me as your Phenoline, and I have much pleasure in recommending it to other sufferers.

Yours very truly,
SIGNED: JAMES CARROLL, Foreman of Works, Rideau canal.

Only by H. PARKER, Durham.

WANTED.—Intelligent men with good education to whom \$600 and expenses for the first year would be an inducement. Write with full particulars. THE MANAGER, 49 Richmond St. West., Toronto, Ont.

TO CONSUMPTIVES

The undersigned having been restored to health by simple means, after suffering for several years from chronic consumption, and the result of his Consumption, is anxious to make known to his fellow sufferers the means of cure. To those who desire it, he will carefully send free of charge a copy of the prescription used, which will insure a cure for Consumption, Asthma, Catarrh of the Lungs, and all throat and lung troubles. He hopes all sufferers will try this remedy, which will not only cure the disease, but will give a pleasant, healthy, and may prove a blessing, will please address

R. V. EDWARD A. WILSON, Brooklyn New York

WESTERN ASSURANCE COMPANY.

FIRE AND MARINE.

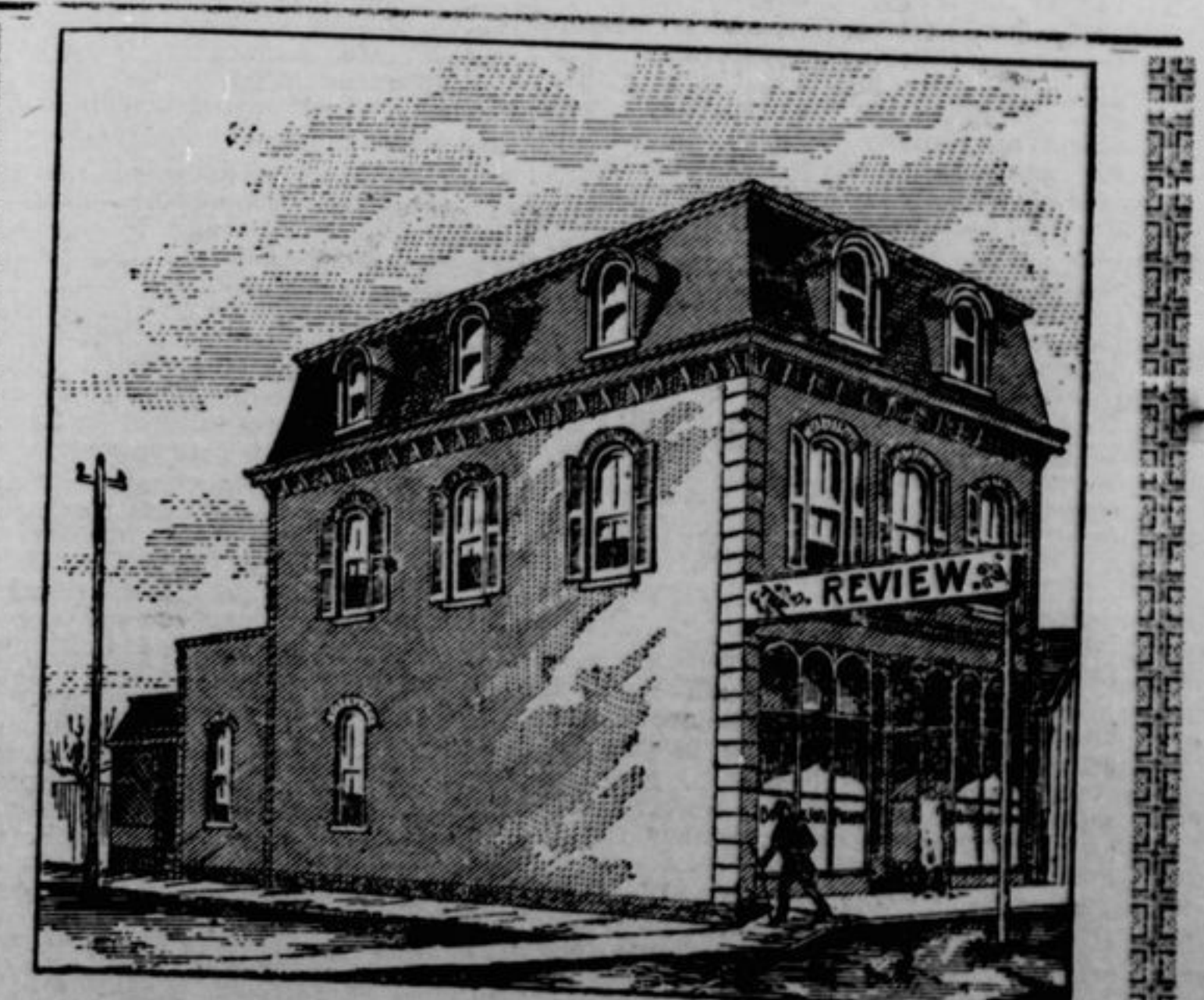
Insurance effected on all kinds of property at lowest current rates. Dwellings and their contents insured on the most favorable terms. Losses promptly and liberally settled. Call or communicate with C. RAMAGE, Agent.

PARK LOT For Sale or to Rent.

The undersigned offers for sale or rent that desirable park lot, in the village of Priceville, formerly owned by the late James Cameron. Lot contains 13 acres all under cultivation. On the lot is a good house, and barn also a good bearing Orchard. For terms of sale or rent apply to JOHN McINNIS, Priceville

JACKSONS.

David Jackson, Jr., Clerk Div. of Land Valuators, Insurance Agents, Commissioners, Money to lend. Money invested for Parties. Farms bought and sold. **CONVEYANCERS.** A general financial business transacted Office next door to Standard Bank Durham



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