

Winter Wheat Tests:

Results of Experiments Conducted at the Ontario Agricultural College, 1900.

Upwards of three hundred plots were used for the winter wheat experiments conducted at the Ontario Agricultural College during the past year. The greater number of these tests have been carried on for several years in succession, and the average results are of greater value than those obtained from tests of only one season. The following summary results of some of the experiments are presented with the hope that they may prove of service to the people of Ontario who are interested in the production of winter wheat.

One hundred and fifty-nine varieties of winter wheat have been grown at the College within the past thirteen years. These include the Canadian varieties and also those imported from Germany, Russia, France, England, Scotland, Australia, and the United States. Ninety-four kinds have been tested for at least five years, and only the best kinds have been retained. The thirty-three most worthy varieties in the five years' tests were all grown again this year.

The five varieties which gave the highest and the three varieties which gave the lowest average yields in the six years' tests of the thirty-three varieties are as follows:

Variety	Strength	Lbs. of Straw	Bush. (60 lbs)
1. Dawson's Golden Chaff, white	Strong	60.3	56.7
2. Egyptian Amber	Weak	61.3	52.6
3. Imperial Amber	Weak	60.6	52.1
4. Early Genesee Giant, white	Strong	60.5	51.9
5. Reliable, red	Weak	61.4	50.9
31. Treadwell, white	Strong	60.7	42.3
32. Turkey Red	Weak	61.9	41.3
33. Velvet Chaff, red	Strong	62.5	40.7

The grain of each of these varieties was recently judged for milling qualities by representatives from the James Goldie Milling Company, Guelph, with the following results: Dawson's Golden Chaff, good; Egyptian Amber, extra good; Imperial Amber, extra good; Early Genesee Giant, good; Reliable, medium; Treadwell, extra good; Turkey Red, good; Velvet Chaff, poor. Some millers speak against and some in favor of the Dawson's Golden Chaff as a milling wheat. The grain of the Turkey Red variety is very hard and evidently is well liked by the millers of some of the Western States.

For each of four years, different selections of seed have been made from each of two varieties of winter wheat and have been sown on separate plots. The average results in the yield of grain per acre of the eight tests thus made are as follows: Large plump seed, 42.1 bushels; small plump seed, 35.0 bushels; shrunken seed, 33.5 bushels, and broken seed, 7.3 bushels, and grain produced from the large plump seed also produced a heavier weight per measured bushel than that produced from any other selection.

The average of several years' results from seedling at different dates show that the grain which was sown on or before the ninth of September gave a considerably larger yield of both straw and grain than that which was sown after that date. The very best yields were obtained from the wheat which was sown in the last week of August.

An experiment with different preparations of winter wheat land has been conducted in duplicate in each of four years. The average results in bushels of grain per acre of the eight tests are as follows: Twenty tons of farm-yard manure per acre on bare summer fallow, 40.9; crop of peas ploughed under, 36.1; bare summer fallow, 33.8; crop of buckwheat ploughed under, 29.6. These results show that peas give much better results than buckwheat when used as a green manure on land to be used for winter wheat.

In an experiment conducted during the past year in growing wheat on grass and on clover sod, it was found that the former gave 28.2 per cent. less in yield of grain per acre than the latter. Ten plots were used for the experiment. The crop of both grass and clover was removed from the land in 1899, after which the land was ploughed and the wheat was sown during the first week of September. The experiment will likely be repeated for several years.

Drill and Broadcast.
In each of six years an experiment has been conducted in duplicate by sowing winter wheat broadcast, and with a drill. The results from sowing the same quantities of seed by the two methods are very similar, the yields per acre being practically equal. It should be understood that the land was in a good state of cultivation when the seeding took place in every case.

In order to find out the influence of cutting wheat at different stages of maturity upon the quality of the grain for seed purposes, samples were taken from the crop cut on different dates, and these samples were carefully sown upon separate plots. In the average results of these tests made with two varieties in each of five years, it was found that the heaviest weight of grain per measured bushel, and the largest yield of grain and straw per acre, were produced from seed taken from the crop which had been allowed to become very ripe before it was cut.

Co-Operative Experiments.
Five varieties of winter wheat were sent out for co-operative ex-

periments in the autumn of 1899. These were divided into two sets, with three varieties in each set, the Dawson's Golden Chaff being used in both sets as a basis by which the results of all the varieties could be compared with one another. We have received one hundred and fourteen reports of successfully conducted winter wheat experiments for 1900.

The following table gives the comparative yield of straw and grain per acre of the varieties of winter wheat tested in 1900 on 114 Ontario farms:

Variety	Tons of Grain	Bush of Straw (bu. 60 lbs)
Dawson's Golden Chaff	1.8	30.1
Gold Coin	1.8	28.1
Early Genesee Giant	1.7	27.2
Early Red Clawson	1.6	26.8
Diamond Grit	1.8	25.9

The popularity of the varieties with the experimenters is represented by the following figures: Dawson's Golden Chaff, 100; Early Genesee Giant, 84; Gold Coin, 76; Diamond Grit, 71; Early Red Clawson, 69. The Diamond Grit variety was sent out owing to its quality rather than its yield of grain. The Early Red Clawson, which is a soft red wheat, made comparatively poor results in the co-operative experiments over Ontario. The Dawson's Golden Chaff gave a yield of upwards of forty bushels of grain per acre in twenty-one of the experiments.

The one hundred and fourteen reports of successfully conducted experiments came from twenty-nine of the counties of Ontario. The counties which sent the largest number of good reports were Grey, Huron, and Middlesex, in Western Ontario; York, Muskoka, and Northumberland, in Central Ontario; and Hastings, Frontenac and Lanark, in Eastern Ontario.

Many of the experimenters deserve much credit for the care they have taken in conducting the co-operative tests with winter wheat during the past year.

I was cured of Acute Bronchitis by MINARD'S LINIMENT.

J. M. CAMPBELL, Bay of Islands.

I was cured of Facial Neuralgia by MINARD'S LINIMENT.

WM. DANIELS, Springhill, N. S.

I was cured of Chronic Rheumatism by MINARD'S LINIMENT.

GEORGE TINGLEY, Albert Co., N. B.

"You look worried," remarked the first cabin passenger.

"I am," replied the other. "Two days ago I cabled to my wife, who is in Rome, that I would sail for Paris to-day, and asked her where I could meet her. Just before sailing I got this reply: 'Will meet you there on Friday at 3 o'clock.'" — Philadelphia Press.

STATE OF OHIO, CITY OF TOLEDO, ss. FRANK J. CHENEY, Notary Public.

FRANK J. CHENEY makes oath that he is the senior partner of the firm of F. J. CHENEY & CO., doing business in the city of Toledo, County and State aforesaid, and that said firm will pay the sum of ONE HUNDRED DOLLARS for each and every case of Catarrh that can be cured by the use of HALL'S CATARRH CURE.

FRANK J. CHENEY, sworn to before me and subscribed in my presence this 6th day of December, A.D. 1898. A. W. GLEASON, Notary Public.

Hall's Catarrh Cure is taken internally and acts directly on the blood and mucous surfaces of the system. Send for testimonials free. F. J. CHENEY & CO., Toledo, O. Sold by Druggists, 75c. Hall's Family Pills are the best.

Carrying Out the Boycott.
The union labor leader took the \$5 bill and examined it critically. Then he handed it back and shook his head. "I can't accept it," he said.

"Why not? You've earned it," protested the other.

"True," replied the labor man, "but I cannot find a union label on it anywhere."

Minard's Liniment Cures Diphtheria.

Not Obtainable. Student—The hair of our heads, even, are all numbered.

Baldhead—Well, then, I'd like to secure a few back numbers.—The August Smart Set.

Miller's Grip Powders cure.

No Use. School Manager (to master) — We was thinkin' o' puttin' up a nice motto over your desk to encourage the children. What do you say? How would "Knowledge is Wealth" do?

Schoolmaster—That wouldn't do at all. The children know how small my salary is.

Minard's Liniment Cures Colds, etc.

Well, Rather. A woman is much more likely to forget her birthday than to leave the pickles behind when she goes to a picnic.—Chicago Times-Herald.

Minard's Liniment Cures Garget in Cows.

Diligence is the mother of good luck, and God gives all things to industry. Work while it is called to-day, for you know not how much you may be hindered to-morrow.—Franklin.

One of the most dangerous and pulsive forms of Kidney Disease is

DROPSY

for which Dodd's Kidney Pills are the only certain cure. In Dropsy the Kidneys are actually *dammed up*, and the water, which should be expelled in the form of urine, flows back and lodges in the cells of the flesh and puffs out the skin. Remove the filth which plugs up the drain. Restore the Kidneys to health. There is only one Kidney Medicine

DODD'S KIDNEY PILLS

HOW TO BE RID OF FAT.

Simple Method of Reducing Superfluous Flesh.

Do you want to lose some of your too, too solid flesh these warm days? Nothing simpler, as one learns after a chat with one of our representative women. This representative woman not only has already been benefited herself, but she has a more determined friend who cast of 16 pounds of superfluous tissue in half as many weeks. This knowledge came from Dr. William T. Cahell, of Baltimore, who came upon it in his practice, and who read an essay on the subject at the ninety-ninth annual meeting of the Medical and Chirurgical Faculty of the State of Maryland.

Fat, by the way, should constitute from one-fifth to one-twentieth of one's weight, and without discomfort or disease. There's danger in too much of it, however. Danger, too, in most of the remedies resorted to for cleaning out the distended cellulose structures. Many of these agents act as slow poisons, damage the functions of digestion and cause repugnance to food, which means anything from anaemia to consumption. Banting, exercising by interval rules, and the rest, are all tiresome.

Clock for a Sweet Tooth.

A strange clock was made during the last century for a French nobleman. The dial was horizontal, and the figures, being hollow, were filled with different sweets or spices. Thus running his finger along the hand, by tasting the owner could tell the hour without a light.

Mrs. G. Howell, Dante, Ont., says: I got Miller's Worm Powders a good medicine.

Maidenly Confidence.

He—Two weeks ago, would you have believed it possible that we could be sitting here by the sea so close together and so much in love? She—Oh, yes. "But you didn't even know my name." "But I knew myself.—The August Smart Set.

My daughter has improved so much that you would scarcely know her.—Miller's Compound Iron Pills did it.

Value of Birds to the World.

A French naturalist asserts that if the world should become birdless man could not inhabit it after nine years' time in spite of all the sprays and poisons that could be manufactured for the destruction of insects. The insects and birds simply eat up all the orchards and crops in that time.

The Albion Hotel, at Stratford, has been refused a transfer of license, and Mr. Gordon, the owner, is circulating a petition to dismiss the Commissioners.

ACUTE RHEUMATISM

Terrible Suffering Immediately Relieved by Polson's Nerviline. Convincing Proof of the Efficacy of this Great Nerve-Pain-Cure.

Mr. Eckie Bell, traveler for the well-known boot and shoe firm, Frank Bros., New York, writes: "On a recent trip through Canada I for days could not even turn in bed, every movement caused the most excruciating pain that mortals ever suffered. I tried many of the so-called cures for rheumatism, but obtained no relief. Nothing seemed penetrating enough to relieve my suffering, and I feared almost I should die. A fellow knight of the grip hearing of my case, came to see me, and advised me to use Polson's Nerviline. A bottle was immediately procured from the nearest drug store. A few applications brought relief, and a more extended use of that wonderful pain destroyer cured me. I would not be without Nerviline for the world and cannot say too much in its favor."

NERVILINE

Is a great household remedy that is worth its weight in gold. Its highly penetrating powers make it never-failing in all cases of Rheumatism, Neuralgia, Sciatica, Pains in the Back and Side. It relieves in one minute; it cures in five. Pleasant to the taste and the best known remedy for all aches.

Sold by all dealers. Price 25c. Prepared only by N. C. Polson & Co., Kingston, Ont.

Putnam's Corn Extractor cures corns without pain in 24 hours. Try it.

MAKE THEIR FUNERAL TOILET

Decapitated Insects Lay Themselves Out for the Last Rites.

It has often been noticed that there are no animals which are more dainty and fastidious in their personal habits than insects, the extreme pains which the common house-fly takes in attending to its toilet, being a good example of the racial characteristic. The discovery has now been made that certain insects which have such a respect for Mrs. Grundy and are endowed with an innate love of neatness and order, that not even death, or, rather, decapitation, can prevent them from making one grand final toilet which is clearly designed to give them a sedate and respectable appearance after death.

Dr. Ballion, a skillful entomologist, has discovered this remarkable fact. "During one of my recent horseback rides," he says, "I frequently caught one of those large flies which annoy cattle and horses so much, and I promptly got rid of it by crushing its head. One day, instead of throwing the mutilated insect away, I placed it on the back of my hand and indolently watched it. For some seconds the insect remained motionless, but then to my unbounded surprise it moved its front legs forward to the place where the head should have been, and in order to see the finale of this grotesque operation, I nervously together, and apparently in anguish, it began to brush its body and to smooth its wings with its hind legs. Under the gentle pressure of these limbs the body gradually became extended and the extremity curved; while the wings gradually changed their natural position, and left the upper part of the body exposed. Meanwhile the hind legs continued to brush each other from time to time. Naturally I watched this extraordinary sight with great interest, and in order to see the finale I took the insect into my study, where it lived an entire day, spending the time at the ungrateful task of making its own funeral toilet."

Sick Stomach,

Biliousness, Cramps, Spasms, Nausea, Vomiting, Cured in a few Minutes by Polson's Nerviline.

This marvellous remedy has wonderful power in subduing all kinds of pain. For instance a few drops in sweetened water gives immediate relief. As a stimulant for external use nothing can approach its penetrating power. Ten times stronger than any other, but pleasant to the taste. Try a ten-cent bottle. Sold everywhere.

A "Fort" and a "Fortress."

People often ask why it is called Fortness Monroe instead of Fort Monroe. The difference between a fort and a fortress lies in the fact that the former is designed to contain solely the garrison and their munitions, while the latter is often a city containing a large number of noncombatants. France has on the German frontier, three first-class fortresses—Belfort, Verdun and Briancourt; on the Belgian frontier, Lille, Dunkirk, Arras and Donaz; on the Italian, Lyon, Grenoble and Besancon, and on the Atlantic coast, Rochefort, Lorient and Brest.

Minard's Liniment Cures Distemper.

How the Trouble Began.

A citizen walking past a butcher shop in Beatrice, Neb., saw the butcher and a customer rolling over the sawdust floor in lively rough-and-tumble fashion. He tried them apart and then learned that the customer had come in to buy some dog meat. The butcher nonchalantly asked: "Do you wish to eat it here or shall I wrap it up?" Then the trouble began.

A dose of Miller's Worm Powders occasionally will keep the children healthy.

Practically Applied.

"My dear," said a husband, "pray devote just half a minute to repairing my coat."

"What a pointed nail has chanced to rend."

"It's 10 o'clock," said his drowsy mate.

"Yes," said hubby, "it is rather late. But you know it is never too late to mend."

You think I look so much better; yes, and I feel better—Miller's Compound Iron Pills did it.

Men acquainted with the salmon packing say there will be over \$2,640,000 less cans of salmon on the market this year than last.

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Weak Lungs

When your throat and lungs are perfectly healthy you needn't worry about the germs of consumption. They don't attack healthy people. It's the weak, debilitated, inflamed membranes that are first affected. Hard coughs and colds weaken your throat and lungs and make consumption more easy.

Scott's Emulsion

is the best remedy you can take. It soothes and heals and gives tone and strength to these delicate membranes. In this way you can prevent consumption. And you can cure it also if you haven't had it too long. Keep taking it until your lungs are strong and your weight restored.

As all druggists, Jew and Jew, SCOTT & BOWNE, Chemists, Toronto.

EGGING HIM ON

"Language," quoted Willie Wishington, "was given for the concealment of thought."

"Indeed," rejoined Miss Cayenne, languidly, "permits me to congratulate you on being so perfect a master of English."—Washington Star.

Unnaturally Large

"Yes, sir," said the actress, haughtily, "that is my figure—one thousand dollars per week."

"Um—er—don't you think," responded the manager, thoughtfully, "your figure is—er—a little bit padded?"—The August Smart Set.

I used to be continually tired, now I am strong and well—Miller's Compound Iron Pills did it.

Edward Corsair, under sentence at Brampton Jail for horse stealing, was given four years more, making six in all, for attempting to break jail and assaulting Jailer Modeland.

NOTICE TO HORSE OWNERS.

It is a well-known fact that horses troubled with Heaves, if placed on Prairie pasture, are soon cured of the Heaves.

PRAIRIE WEED Heave Powder is composed of the Prairie Weed "which has been found so effective in curing Heaves" combined with other valuable remedial agents and will prove an effective remedy for Heaves and Coughs in Horses and Cattle. 25 cents per package at all Druggists, or mailed by M. F. EBY, Chemist, Port Elgin, Ont.

FRUIT FARM FOR SALE.

One of the finest in the Niagara Peninsula, at Winona, 10 miles from Hamilton, on two railroads. 170 acres, 45 of which is in fruit, mostly peaches. 12,000 baskets of fruit, mostly peaches, in sight this season. Will be sold in lots to suit purchasers. This is a bargain. Address JONATHAN CARPENTER, P.O. Box 48, Winona, Ont.

WANTED.

A general servant, for a small family. Good home for respectable girl. Address 125 Victoria avenue south, Hamilton, Ont.

IF YOU WANT A GOOD BUSINESS EDUCATION for the least money, write Brockville Business College, Brockville, Ont.

RYTS PERMANENTLY CURED BY DR. Kline's Great Nerve Restorer. No fits or nervousness after first day's use. Send to 351 Arch street, Philadelphia, Pa., for treatise and free \$2 trial bottle. For sale by J. A. Harte, 1780 Notre Dame street Montreal, Que.

Mrs. Winslow's Soothing Syrup should always be used for Children Teething. It soothes the child, softens the gums, cures wind colic and is the best remedy for Diarrhoea. Twenty-five cents a bottle.

THE HOUSEWIFE SHOWS EXCELLENT JUDGMENT

When Buying

St. Lawrence Granulated.

IT IS

100 Per Cent. Pure.