

Winter Wheat.

RESULTS OF TESTS MADE IN ONTARIO.

Eight varieties of winter wheat have been grown in the Experimental Department of the Ontario Agricultural College for at least five years in succession, and the power to withstand the cold weather, strength of straw, amount of rust, yield of grain, weight per measured bushel, etc., of each variety have been carefully determined each year. The results of these practical field experiments at the College form the basis for the selection of a few of the very best kinds for testing on the farms throughout the Province. The co-operative experiments of the past few years show that those varieties which have given the best average results in the experiments conducted at the College for five years in succession have nearly always given good satisfaction on the farms of the Province.

In the autumn of 1898, seven varieties of winter wheat were used for the co-operative tests. These were divided into three sets with three varieties in each set; the Dawson's Golden Chaff being used in all the sets as a basis by which the results of all the varieties should be compared with one another.

The past winter was exceptionally severe on the winter wheat crop throughout Ontario, consequently the number of complete tests is not so large as usual. Reports of successfully conducted co-operative experiments with winter wheat were received from seventy-two experimenters before the 12th inst. at which time we started to work up the summary results in order to place the information before the wheat growers at as early a date as possible. It is interesting to know that these seventy-two good reports came from no less than twenty-seven counties and districts in Ontario, including Essex in the West, Carleton in the East, and the District of Algoma in the North. As we sow about one million acres of wheat in Ontario each autumn, the results of the winter wheat experiments conducted on the different farms throughout the Province are of inestimable value to those interested in wheat growing.

The following table gives the comparative yield of straw and grain per acre of the varieties of winter wheat tested on seventy-two farms in 1899:

	Straw per ac. (tons)	Grain per ac. (weight bus.)
Dawson's Golden Chaff	1.3	22.5
Stewart's Champion	1.1	22.4
Early Red Clawson	1.3	22.1
Early Genesee Giant	1.2	21.3
Imperial Amber	1.3	20.4
Bearded White Fife	1.1	19.4
Golden Drop	1.0	16.2

Three of the foregoing varieties have been used in the co-operative tests over Ontario for each of the six years' experiments with each of these varieties at the Agricultural College and also throughout Ontario.

Varieties	O. A. C. Tests.	
	av. 6 yrs. (bush. per ac.)	Ont. Tests. av. 6 yrs. (bu. per ac.)
Dawson's Golden Chaff	47.5	30.4
Early Genesee Giant	43.5	27.6
Early Red Clawson	43.5	27.6

CONCLUSIONS.

1. In the average yield of winter wheat per acre, the Dawson's Golden Chaff stood highest among 11 varieties tested over Ontario in the year 1893, among 9 varieties in each of the years 1894, 1895 and 1896 and among 7 varieties in each of the years 1897, 1898 and 1899.

2. In the co-operative experiments for 1899, the Stewart's Champion, Bearded Winter Fife and Dawson's Golden Chaff came through the winter the best, and the Golden Drop the poorest.

3. The Early Red Clawson and Imperial Amber were the first and the Bearded Winter Fife and Stewart's Champion were the last to mature in 1899.

4. Dawson's Golden Chaff and the Early Genesee Giant possessed the strongest straw and the Bearded Winter Fife the weakest straw in the tests of this year.

5. Stewart's Champion and the Bearded Winter Fife produced the longest and the Golden Drop the shortest straw in 1899.

6. In the co-operative experiments of each of the past six years, the Dawson's Golden

Chaff was one of the least and the Early Genesee Giant was one of the most affected by the rust.

7. In 1899, all varieties were practically free from smut which is nearly always the case when no smut is sown with the wheat.

8. The Stewart's Champion and Dawson's Golden Chaff produced the plumpest and the Imperial Amber and Early Red Clawson the most shrunken grain in this year's tests.

9. The Stewart's Champion and Dawson's Golden Chaff were the most popular varieties and the Golden Drop was the least popular variety with the experimenters in 1899.

10. During the past seven years, the Dawson's Golden Chaff has been an exceedingly popular variety with the farmers who have been conducting co-operative experiments throughout Ontario.

DISTRIBUTION OF SEED FOR TESTING PURPOSES.

The following two 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 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 1.—Dawson's Golden Chaff, Early Genesee Giant, Early Red Clawson.

Set 2.—Dawson's Golden Chaff, Diamond Grit, Golden Corn.

Each person wishing one of these sets should apply as early as possible, 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 is exhausted.

All communications should be addressed to

C. A. ZAVITZ, Experimentalist,
Agricultural College, Guelph, Aug. 17th,
1899.

VARNEY.

Mrs. Richard Barber has been on the sick list this last week. Hope to hear of her being around again soon.

Miss Lizzie Fee left this week to take charge of her school again in Sullivan. There was one wishing the holidays would last all summer.

That young fellow that went west so frequently and then stopped short had better keep his hair cropped short or somebody will be into his wool.

Mr. H. I. Storry boarded the train Tuesday morning for the North-west but thinking Varney a better place stopped off here.

Mr. Hanbury, of Desboro', was the guest of Mine Host Crawford for a few days last week.

Mrs. Tinkum, of Mono, was visiting her brother, Mr. Wm. Bryans, for a few days last week.

Mr. Adam Little was up to Durham court-ing last Tuesday.

The culvert on Main street, Varney, collapsed the other day with the weight of Mr. Clark's traction engine and is in a dangerous state. The township fathers had better attend to it before some serious accident happens.

Mr. C. Caldwell is away on a visit with his son, Rev. H. Caldwell, for a month or so.

NO RIGHT TO UGLINESS.

The woman who is lovely in face form, and temper will always have friends, but one who would be attractive must keep her health. If she is weak, sickly and all run down, she will be nervous and irritable, if she has constipation or kidney trouble, her impure blood will cause pimples, blotches, skin eruption and a wretched complexion. Electric Bitters is the best medicine in the world to regulate stomach, liver and kidneys and to purify the blood. It gives strong nerves, bright eyes, smooth velvety, skin, rich complexion. It will make a good-looking, charming woman of a run-down invalid. Only 50 cents at local Drug Stores.

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and be in readiness to quench a fire with one pail of water that might otherwise reduce your house to ashes.

A few more Screen Doors and Windows at a low price. Do not lose this opportunity to secure one.

A couple of Ball-Bearing Lawn Mowers left in stock, which will be sold at a sacrifice.

Just to hand—another supply

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**Carpet Sweepers,
Bird Cages,
Coolie Cans and
Grain Cradles.**

We have a large variety of **Threshing Mitts** that are worth inspecting.

Parties intending to burn **Coal** next winter should leave their orders at once, and secure it at the present low price. Two car loads expected this week.

Another carload of **Shallow Lake Cement** just to hand.

W. BLACK.