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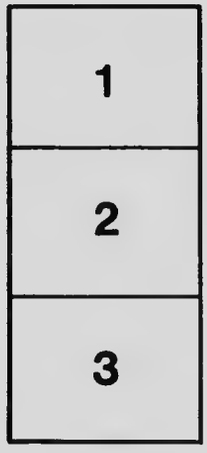

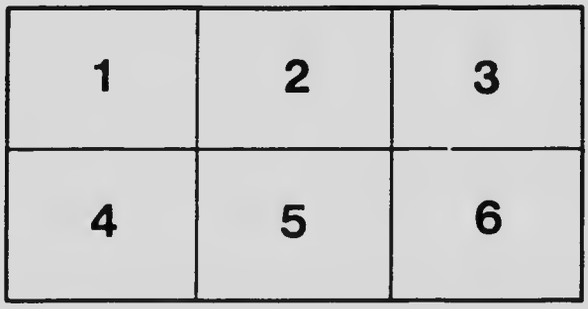

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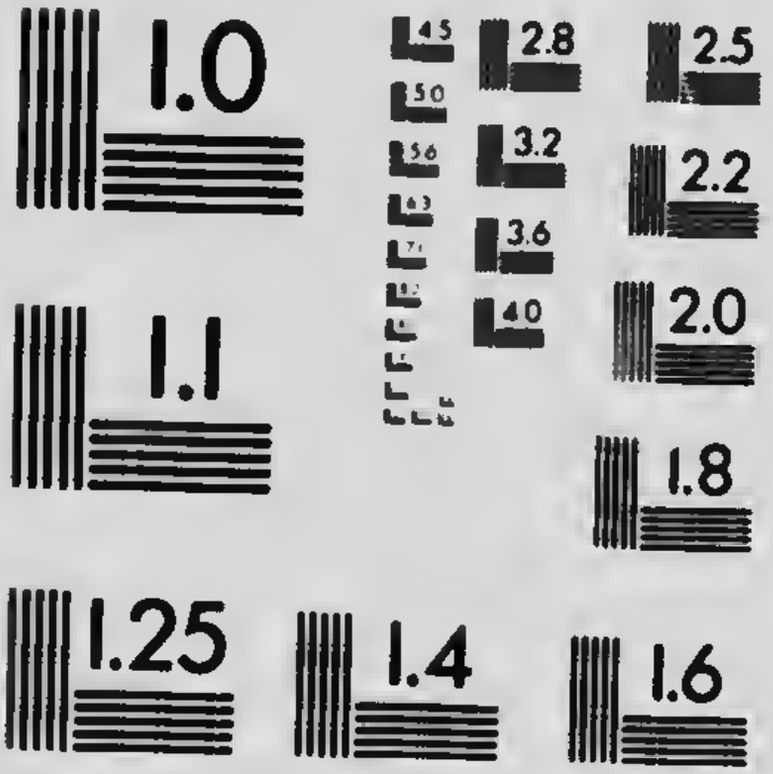

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DEPARTMENT OF AGRICULTURE

CENTRAL EXPERIMENTAL FARM
OTTAWA, CANADA

RESULTS OBTAINED IN 1906

FROM

TRIAL PLOTS OF

GRAIN, FODDER CORN, FIELD ROOTS

AND

POTATOES

BY

WILLIAM SAUNDERS, C.M.G., LL.D
Director of Experimental Farms

AND

CHAS. E. SAUNDERS, Ph. D.
Cerealist.

BULLETIN No. 55

NOVEMBER, 1906.

PUBLISHED BY DIRECTION OF THE HON. SYDNEY A. FISHER,
MINISTER OF AGRICULTURE

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To the Honourable

The Minister of Agriculture.

SIR,—I beg to submit herewith, for your approval Bulletin No. 55 of the Experimental Farm series, which has been prepared by the Cerealist, Dr. C. E. Saunders and myself. There are presented in this publication the results of a large number of experiments, which have been conducted at all the experimental farms in your Department during the season of 1906, with spring wheat, durum or macaroni wheat, emmer and spelt, oats, barley, pease, Indian corn, turnips, mangels, carrots, sugar beets and potatoes, in plots of uniform size, and with the crops grown under fairly uniform conditions. The average results are also given of the tests for the past five years of those varieties which have been long under trial.

These test plots are conducted with the object of gaining information as to the relative productiveness of the different sorts and their earliness in ripening. The returns show much variation in the weight of the crops grown and point to the importance of care in the choice of varieties of seed for sowing. It is hoped that these results giving the experience gained under some of the more important climatic variations found in the country, will prove useful to farmers in every part of Canada.

I have the honour to be,

Your obedient servant,

WM. SAUNDERS,
Director of Experimental Farms.

OTTAWA, November 16th 1906.

RESULTS OBTAINED

FROM TRIAL PLOTS OF

GRAIN, FODDER CORN, FIELD ROOTS AND POTATOES

By William Saunders, C.M.G., LL.D., F.R.S.C., F.L.S., &c.

Director of Experimental Farms

and Chas. E. Saunders, B.A., Ph.D., *Cerealist.*

During the past twelve years experiments have been conducted on uniform trial plots at each of the Dominion Experimental Farms for the purpose of gaining information as to the most productive and earliest ripening varieties of grain, fodder corn, field roots and potatoes. In arranging for these plots the same varieties have been sown at each of the farms, the seed being supplied at the outset from a common stock. In each case the seed has been sown early, and, as a rule, all the different sorts of the same crop have been sown on the same day or at most within two or three days so as to give to all an even start. The land chosen each year for these plots has been as nearly uniform in character as could be found and before sowing has been brought into a good condition of tilth. In this bulletin which is the twelfth of the series, the results of the experiments are presented in the same form as that of last year, giving special prominence to the average yield of each variety for the past five years, as being the more trustworthy basis from which to draw conclusions, and relegating the figures obtained in the current year to a subordinate place.

The varieties are therefore placed in the tables in the order of their average yield for the last five years. Those which have only been grown for shorter periods are placed in a separate group. While a five-year period is undoubtedly rather short, it seems undesirable to lengthen it, since by so doing all recently introduced varieties would be kept too long from taking their place in the tables with the older sorts.

The averages of the returns from all the experimental farms, which in past issues of this bulletin have been published in special tables, are omitted this year. It has been thought unnecessary to continue the publication of them since they have been given for so many years and are of value rather from a statistical than a purely agricultural point of view.

At the Central Experimental Farm at Ottawa, nearly all sorts of cereals have yielded well during 1906, especially those which mature early. Owing to the unusually dry weather in midsummer some of the later ripening sorts gave less than an average yield. The crop of peas have been below the average. Indian corn has given good

returns in the fields but it has fallen off considerably in the plots owing to unsuitability in the soil for a hot dry season. Turnips have given about half the usual yield, while other field roots have given almost average crops. Dry weather reduced the potato crop to less than half of an average yield and the tubers are small.

At Nappan, the spring season was unfavourable, and owing to the ground being cold and wet, seeding was much delayed. The very hot weather which prevailed later in the year was favourable for Indian corn, but hurried the ripening of the grain so that the crops have been below the average. The root crops also in consequence of protracted dry weather in the autumn have been much lighter than usual.

At Brandon the harvest returns have been very gratifying, and wheat, oats and barley have all given excellent crops. Pease have done unusually well, and the yields of Indian corn, field roots and potatoes have all been good.

At Indian Head the crops of wheat and barley have been very good, while oats have given phenomenal yields, the 37 varieties under trial in the test plots having averaged over 105 bushels per acre; potatoes have given a medium return, while in case, Indian corn and field roots have given crops below the average. Field roots at Indian Head suffered much from the attacks of cut-worms, the carrots were entirely destroyed by them, and the other field roots had their first and second sowings so injured that a third sowing was necessary, but this was too late in the season to permit of the maturing of an average crop.

At Agassiz the wheat suffered again from the depredations of the midge, *Diplosis tritici*, which very much reduced the crop. Oats and barley have given very fair returns, so also has Indian corn. Carrots gave a very heavy yield, but the crops of other field roots were light.

The following lists include only those varieties which are being grown on all the Dominion Experimental Farms.

In computing the averages for these tables the same five years have been used in each case, except in a few instances where the omission or failure of one of the plots made a blank in the records for that year. These instances are marked with a cross † and the true position in the tables of the varieties so marked is on this account to be regarded as somewhat uncertain.

Cross-bred varieties produced on the experimental farms are marked with an asterisk.

SPRING WHEAT.

Sixteen varieties of spring wheat (exclusive of the durum or macaroni wheats) have been grown on the uniform test plots at all the Dominion Experimental Farms during the past season. The size of the plots was one-fortieth of an acre at Ottawa, Ont., Nappan, N.S., and Agassiz, B.C.: while at Brandon, Man., and Indian Head, Sask, the plots were each one-twentieth of an acre. The seed was sown at the rate of one and one-half bushels per acre. The dates of sowing were as follows: At Ottawa, May 1st and 2nd; at Nappan, May 17th and 18th; Brandon, April 23rd and 24th, and at Indian Head, April 11th.

The yield is expressed in bushels per acre, the bushel of wheat being 60 pounds.

SPRING WHEAT.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	[illegible]	[illegible] Lbs.
1	Preston *	33 20	104	38 ..	12	White Fife	27 20	111	25 40
2	Bishop *	31 52	102	41 40	13	Stanley *	26 16	106	29 ..
3	Pringle's Champlain	31 48	106	33 40	14	Haynes' Blue Stem—(Minn. 169)	25 8	113	25 ..
4	Herisson Bearded	30 32	108	32 40		(For less than 5 years).			
5	Huron *	30 10	109	36 20					
6	Colorado	29 52	105	40 ..		Hungarian White (2 years)	35 20	102	37 40
7	Laurel *	29 36	109	32 20		Riga * (1 year)	.. ..	.....	32 20
8	White Russian	29 32	112	29 40					
9	Red Fern	29 ..	108	24 40					
10	Red Fife	28 28	111	29 40					
11	Percy *	28 ..	105	33 40					

The average crop of the sixteen varieties of spring wheat tested on the Central Experimental Farm at Ottawa in 1906 was 32 bushels 38 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Red Fife	34 16	112	33 20	11	Haynes' Blue Stem	27 40	115	27 ..
2	White Fife	33 48	114	32 ..	12	Percy *	27 12	113	27 40
3	Preston *	32 40	111	28 ..	13	Herisson Bearded	27 4	112	28 ..
4	Colorado	32 ..	110	30 40		(For less than 5 years).			
5	Laurel *	31 40	115	26 40					
6	White Russian	31 12	105	31 20		Bishop * (2 years)	32 20	104	32 40
7	Pringle's Champlain	30 52	110	27 20		Hungarian White (2 years)	28 40	103	28 20
8	Stanley *	30 4	113	30 ..		Riga * (1 year)	.. .	.....	27 ..
9	Red Fern	29 36	112	34 ..					
10	Huron *	29 16	111	27 20					

The average crop of the sixteen varieties of spring wheat tested on the Experimental Farm at Nappan, in 1906 was 29 bushels 27 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Preston *	35 32	1[illegible]	44 ..	11	Haynes' Blue Stem	31 24	129	36 ..
2	Red Fife	[illegible] 28	1[illegible]	40 ..	12	Red Fern	29 18	121	32 ..
3	White Fife	[illegible] 22	125	35 10	13	Colorado	28 32	121	31 20
4	Huron *	35 6	121	43 50		(For less than 5 years).			
5	Pringle's Champlain	32 48	120	41 50					
6	Percy *	32 36	120	34 50					
7	Stanley *	32 30	121	35 10		Bishop * (2 years)	38 35	119	35 10
8	White Russian	32 12	124	31 20		Hungarian White (2 years)	36 45	125	35 10
9	Herisson Bearded	32 2	121	34 30		Riga *	.. ..	.....	31 50
10	Laurel *	31 28	124	25 40					

The average crop of the sixteen varieties of spring wheat tested on the Experimental Farm at Brandon in 1906 was 35 bushels 52 lbs. per acre.

SPRING WHEAT—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Preston*	43 2	130	46 ..	11	Pringle's Champlain	36 29	132	39 ..
2	Stanley*	41 59	130	45 20	12	Haynes' Blue Stem	35 31	134	39 20
3	White Russian	41 40	128	41 ..	13	Herisson Bearded	35 27	135	42 20
4	Percy*	40 55	130	41 20		(For less than 5 years).			
5	White Fife	40 17	136	48 40					
6	Huron*	40 13	128	42 20		Bishop* (2 years)	43 30	130	44 ..
7	Red Fife	38 27	136	43 40		Hungarian White (2 years)	29 ..	131	41 20
8	Laurel*	38 10	137	43 40		Riga* (1 year)	.. ..	.....	35 20
9	Red Fern	38 7	132	42 ..					
10	Colorado	36 34	131	39 40					

The average crop of the sixteen varieties of spring wheat tested on the Experimental Farm at Indian Head in 1906 was 42 bushels 11 lbs. per acre.

The spring wheat plots also the plots of durum wheat and of emmer and spelt at the Experimental Farm at Agassiz have again been so much injured by the wheat midge, *Diplosis tritici*, as to make the tests for 1906 as to the relative productiveness of the varieties of no value. Under the circumstances it is thought best to give here the average yields on the plots for the five years ending 1905.

EXPERIMENTAL FARM, AGASSIZ, B. C.

Number.	Varieties Tested.	Average Yield.	Number.	Varieties Tested.	Average Yield.
	(For five years ending 1905.)	Bu. Lbs.		(For five years ending 1905.)	Bu. Lbs.
1	Stanley*	35 14	8	Percy*	31 53
2	Colorado	34 14	9	Haynes' Blue Stem	31 12
3	Laurel*	33 46	10	Red Fern	30 27
4	White Russian	33 27	11	Huron*	30 26
5	Red Fife	33 9	12	Herisson Bearded	30 17
6	White Fife	32 47	13	Pringle's Champlain	28 52
7	Preston*	32 39			

DURUM OR MACARONI WHEAT.

The results of the tests of varieties of durum wheat are published in a separate table, as these wheats possess qualities rather different from those of the ordinary sorts of spring wheat. While it is possible to make good flour from some kinds of durum wheat, such flour is generally unpopular. Furthermore the peculiar character of the kernels necessitates the use of somewhat different methods in the milling of these kinds of wheat. They are naturally, therefore, looked upon with disfavour by millers.

Farmers who grow any of these varieties should exercise great care to prevent them from becoming mixed with the standard sorts used for flour making.

DURUM OR MACARONI WHEAT—*Continued.*

Four varieties of durum wheat have been grown on the uniform test plots during the past season. The plots were of the same size as those sown with ordinary spring wheat and the seed was used at the rate of about one and three quarter bushels per acre. The dates of sowing were as follows: At Ottawa, Ont., April 27th; Nappan, N.S., May 18th; Brandon, Man., April 24th, and at Indian Head, Sask., April 11th.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.	(For less than 5 years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Roumanian	38 8	111	41 ..	Yellow Gharnovka(3yrs)	33 20	105	31 40
2	Goose	28 ..	109	39 ..	Mahmoudi (3 yrs)	21 40	108	18 40

The average crop of the four varieties of durum wheat tested on the Central Experimental Farm at Ottawa in 1906 was 32 bushels 35 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N. S.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield. in 1906.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.	(For less than 5 years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Roumanian	25 28	113	22 ..	Yellow Gharnovka(3yrs)	17 7	105	20 40
2	Goose	24 40	112	22 40	Mahmoudi (3 yrs.)	13 33	105	18 40

The average crop of the four varieties of durum wheat tested on the Experimental Farm at Nappan, in 1906, was 21 bushels per acre.

EXPERIMENTAL FARM BRANDON, MAN.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.	Varieties Tested.	Average Yield.	Average days maturing.	Yield. in 1906.
	(For five years.)	Bu. Lbs	Days.	Bu. Lbs.	(For less than 5 years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Goose	49 56	127	56 20	Yellow Gharnovka(3 rs)	51 20	127	55 ..
2	Roumanian	48 8	126	54 20	Mahmoudi (3 yrs.)	45 20	129	46 20

The average crop of the four varieties of durum wheat tested on the Experimental Farm at Brandon in 1906, was 53 bushels per acre.

DURUM OR MACARONI WHEAT—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.	(For less than 5 years.)	Bu. Lbs.	Days.	Bu. Lbs
1	Goose.....	47 27	134	51 40	Yellow Gharnovka(3yrs)	48 48	135	52 40
2	Roumanian.....	46 2	136	47 40	Mahmoudi (3 yrs.).....	47 57	135	49 ..

The average crop of the four varieties of durum wheat tested on the Experimental Farm at Indian Head in 1906, was 50 bushels 15 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B. C.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Varieties Tested.	Average Yield.	Average days maturing.
	(For 5 years ending 1905.)	Bu. Lbs.	Days.	(For 2 years ending 1905.)	Bu. Lbs.	Days.
1	Roumanian.....	33 36	120	Mahmoudi.....	19 20	117
2	Goose.....	32 50	115	Yellow Gharnovka	18 ..	117

EMMER AND SPELT.

Two varieties of emmer and two of spelt were sown in the uniform test plots this season. They are arranged in the tables in the order of their yield for three years.

The plots were of the same size as those of spring wheat. The dates of sowing were as follows:—At Ottawa, Ont., April 28th; Nappan, N.S., May 18th; Brandon, Man., April 24th, and at Indian Head, Sask., April 17th.

The yield is expressed in pounds per acre, the grain being, of course, weighed with the husk adhering

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For three years).	Lbs.	Days.	Lbs.		(For three years).	Lbs.	Days.	Lbs.
1	Red Emmer	2,440	107	2,680	3	Red Spelt..	1,987	111	2,100
2	Common Emmer...	2,273	101	2,720	4	White Spelt	1,960	108	1,740

The average crop of the four varieties of emmer and spelt tested on the Central Experimental Farm at Ottawa in 1906, was 2,310 lbs. per acre.

EMMER AND SPELT—*Continued.*

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For three years.)	Lbs.	Days.	Lbs.		(For three years.)	Lbs.	Days.	Lbs.
1	White Spelt	2,000	111	2,520	3	Common Emmer	1,227	104	1,760
2	Red Spelt	1,907	111	1,880	4	Red Emmer	1,020	110	1,040

The average crop of the four varieties of emmer and spelt tested on the Experimental Farm at Nappan in 1906, was 1,800 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For three years.)	Lbs.	Days.	Lbs.		(For three years.)	Lbs.	Days.	Lbs
1	Common Emmer	3,600	126	3,820	3	Red Emmer	2,760	132	3,060
2	Red Spelt	2,893	129	3,180	4	White Spelt	2,087	130	2,740

The average crop of the four varieties of emmer and spelt tested on the Experimental Farm at Brandon in 1906, was 3,185 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For three years.)	Lbs.	Days.	Lbs.		(For three years.)	Lbs.	Days.	Lbs.
1	Common Emmer	3,087	128	3,220	3	White Spelt	2,540	131	3,160
2	Red Spelt	2,913	130	3,600	4	Red Emmer	2,513	131	2,980

The average crop of the four varieties of emmer and spelt tested on the Experimental Farm at Indian Head in 1906, was 3,240 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Average days maturing.	Number.	Varieties tested.	Average yield.	Average days maturing.
	(For two years ending 1905.)	Lbs.	Days.		(For two years ending 1905.)	Lbs.	Days.
1	Common Emmer	1,880	117	3	Red Emmer	1,660	117
2	White Spelt	1,775	117	4	Red Spelt	1,595	117

OATS.

During the season of 1906, thirty-seven varieties of oats have been under trial. The size of the plots on which they were grown was the same as in the case of spring wheat. The seed was generally sown at the rate of two bushels per acre, and the dates of sowing were as follows:—At Ottawa, Ont., May 4th; Nappan, N.S., May 18th; Brandon, Man., May 9th and 10th; Indian Head, Sask., April 23rd, and at Agassiz, B.C., on April 12th.

The yield is expressed in bushels per acre, the bushel of oats being 34 pounds.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bus. lbs.	Days.	Bus. lbs.		(For five years.)	Bus. lbs.	Days.	Bus. lbs.
1	Twentieth Century...	75 26	104	68 8	21	Kendal Black*.....	64 8	107	58 28
2	Banner	74 28	105	68 8	22	Bavarian†.....	64 6	107	64 4
3	White Giant.....	74 8	105	64 4	23	Golden Giant.....	63 30	110	52 12
4	Lincoln	73 22	105	68 8	24	Black Beauty.....	62 32	105	60 20
5	Mennonite	72 8	[illegible]	66 16	25	Buckbee's Illinois....	62 24	105	57 2
6	Golden Beauty	72 4	[illegible]	68 28	26	Kendal White*.....	62 12	105	60 20
7	Virginia White	71 14	1	50 ..	27	Pioneer.....	62 4	104	57 2
8	Wide Awake...	71 2	104	64 4	28	Goldfinder.....	61 30	106	58 8
9	Holstein Prolific.....	[illegible] ..	106	72 12	29	Improved Ligowo....	61 30	104	63 18
10	Columbus†.....	69 4	105	64 24	30	Siberian.....	61 22	106	61 6
11	American Triumph...	67 30	106	54 24	31	Joanette	60 8	108	70 20
12	Improved American..	67 30	106	55 30	32	Milford Black*	58 16	106	48 28
13	Irish Victor	67 22	106	70 20	33	Olive Black*.....	58 16	106	54 4
14	Sensation	67 6	105	54 24	34	Tartar King.....	58 16	102	62 32
15	Abundance	66 24	104	51 6	35	Waverley	56 4	106	54 4
16	Thousand Dollar. ...	66 8	104	74 4					
17	Danish Island..... .	66 .	105	61 26		(For less than 5 years.)			
18	Milford White*.....	65 30	105	56 16					
19	American Beauty....	65 18	102	67 22		Golden Fleece† (4 yrs)	64 3	104	60 20
20	Swedish Select†.....	64 16	106	58 8		Storm King (3 yrs.)..	36 16	99	27 2

The average crop of the thirty-seven varieties of oats tested on the Central Experimental Farm at Ottawa in 1906, was 60 bushels, 11 lbs. per acre.

OATS—*Continued.*

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bus. lbs.	Days.	Bus. lbs.		(For five years.)	Bus. lbs.	Days.	Bus. lbs.
1	Siberian	81 8	109	55 20	21	American Beauty	68 16	109	50 20
2	Improved Ligowo	77 14	106	50 20	22	Abundance	67 22	106	38 8
3	Goldfinder	76 32	111	63 18	23	Columbus	66 16	109	43 18
4	Lincoln	76 8	108	52 12	24	Wide Awake	66 12	107	40 ..
5	Thousand Dollar	75 26	106	48 28	25	Tartar King	65 6	105	56 16
6	Twentieth Century	75 20	105	43 18	26	Buckbee's Illinois	63 10	109	41 6
7	Sensation	74 24	106	37 22	27	Irish Victor	60 8	106	40 ..
8	Banner	74 ..	105	44 24	28	American Triumph	60 6	113	45 30
9	Pioneer	73 22	104	50 20		(For less than 5 years.)			
10	Joanette	73 10	105	45 10					
11	Bavarian	73 2	107	50 ..		Swedish Select, 4 yrs.	70 30	103	49 14
12	White Giant	72 28	108	42 12		Golden Fleece, 4 yrs.	67 27	105	55 10
13	Mennonite	72 12	108	40 20		Olive Black*, 4 yrs.	62 27	105	44 24
14	Holstein Prolific	71 10	107	49 14		Kendal White*, 4 yrs.	60 27	105	48 8
15	Danish Island	71 2	109	44 24		Kendal Black*, 4 yrs.	59 24	105	55 10
16	Golden Giant	70 24	113	51 26		Milford Black*, 4 yrs.	59 8	104	54 26
17	Golden Beauty	69 10	107	57 2		Milford White*, 4 yrs.	53 33	104	49 14
18	Improved American	69 10	108	46 16		Storm King, 3 yrs.	50 13	100	42 32
19	Waverley	68 28	107	38 28		Virginia White, 1 yr	.. ..	.....	48 8
20	Black Beauty	68 28	103	40 20					

The average crop of the thirty-seven varieties of oats tested on the Experimental Farm at Nappan in 1906, was 47 bushels, 18 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Improved American	107 22	108	110 20	21	Mennonite	97 18	105	110 20
2	Buckbee's Illinois	107 ..	110	99 24	22	Irish Victor	97 8	110	91 26
3	Golden Giant	106 9	114	99 14	23	Tartar King	94 16	106	110 ..
4	Abundance	105 30	109	96 6	24	Black Beauty	93 22	107	92 22
5	Siberian	105 14	110	99 24	25	Joanette	91 24	110	85 20
6	Banner	104 6	110	114 4	26	Pioneer	89 14	108	87 22
7	Wide Awake	103 30	110	97 22	27	Sensation	88 18	108	103 8
8	Danish Island	103 14	110	105 10	28	Improved Ligowo	83 20	108	105 10
9	Goldfinder	103 5	113	97 2		(For less than 5 years).			
10	Twentieth Century	102 19	111	102 32					
11	Golden Beauty	101 26	110	96 16		Golden Fleece (4 yrs.)	107 21	109	98 28
12	Lincoln	101 24	109	97 32		Kendal White* (4yrs.)	102 2	111	100 20
13	American Triumph	101 22	111	100 ..		Olive Black* (4 yrs.)	95 15	114	92 12
14	Waverley	101 1	109	94 4		Kendal Black* (4 yrs.)	90 20	114	82 12
15	American Beauty	100 32	108	116 16		Milford Black* (4 yrs.)	88 8	113	79 24
16	White Giant	100 18	108	110 ..		Milford White* (4 yrs.)	86 3	113	70 30
17	Holstein Prolific	100 ..	108	96 6		Swedish Select (4 yrs.)	81 16	108	72 32
18	Columbus	99 26	109	107 2		Storm King (3 yrs.)	95 10	110	99 14
19	Thousand Dollar	99 18	109	105 20		Virginia White (1 yr.)	.. ..	.....	87 32
20	Bavarian	99 2	109	104 14					

The average crop of the 37 varieties of oats tested on the Experimental Farm at Brandon in 1906 was 87 bushels 31 lbs. per acre.

OATS—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Banner	114 19	116	128 28
2	Goldfinder	105 10	119	119 14
3	Golden Beauty	104 1	116	114 4
4	Twentieth Century	103 18	117	103 18
5	Golden Giant	103 16	121	112 12
6	Irish Victor	102 12	117	112 12
7	Danish Island	102 6	114	102 32
8	Columbus	101 29	118	111 26
9	Bavarian	101 28	116	124 4
10	Holstein Prolific	100 9	115	111 6
11	Improved American	100 7	116	111 26
12	White Giant	99 5	113	117 2
13	American Triumph	99 2	117	108 8
14	Waverley	97 29	117	102 12
15	Improved Ligowo	97 27	115	122 32
16	Abundance	97 6	114	92 32
17	Wide Awake	96 27	114	94 24
18	Mennonite	95 20	114	114 24
19	Lincoln	95 16	116	102 32
20	Joanette	94 8	120	107 22
21	Thousand Dollar	94 3	113	112 12
22	American Beauty	94 1	116	98 28
23	Tartar King	93 11	115	103 18
24	Pioneer	92 18	116	100 ..
25	Siberian	91 17	120	97 2
26	Sensation	91 13	115	109 14
27	Buckbee's Illinois	91 1	113	87 2
28	Black Beauty	86 28	116	94 24
	(For less than 5 years).			
	Kendal White* (4 yrs.)	110 15	120	107 2
	Golden Fleece (4 yrs.)	105 1	122	115 30
	Milford White* (4 yrs.)	104 19	120	105 30
	Kendal Black* (4 yrs.)	101 16	122	115 10
	Olive Black * (4 yrs.)	99 13	120	93 18
	Swedish Select (4 yrs.)	99 11	116	95 10
	Milford Black* (4 yrs.)	97 4	122	87 22
	Storm King (3 yrs.)	94 18	117	90 20
	Virginia White (1 yr.)	.. .	.....	87 22

The average crop of the 37 varieties of oats tested on the Experimental Farm at Indian Head in 1906 was 105 bushels 29 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Abundance	69 12	115	58 18
2	Tartar King	68 29	112	54 24
3	Siberian	68 18	115	61 26
4	Waverley	67 30	116	60 ..
5	Bavarian	66 30	116	68 8
6	Black Beauty	66 6	112	71 16
7	Goldfinder	65 22	116	71 26
8	Danish Island	65 14	117	58 28
9	Lincoln	64 32	115	72 12
10	White Giant	64 8	116	65 30
11	Improved Ligowo	63 24	115	62 12
12	Improved American	63 8	115	62 12
13	Banner	62 26	115	58 28
14	Columbus	62 8	116	50 30
15	Irish Victor	62 7	115	59 14
16	Pioneer	62 4	112	61 16
17	Sensation	62 4	114	50 20
18	Holstein Prolific	62 1	114	60 6
19	Joanette	61 20	114	57 22
20	Golden Giant	60 14	118	63 18
21	American Beauty	59 28	116	70 20
22	American Triumph	59 16	114	52 32
23	Thousand Dollar	59 16	116	60 29
24	Buckbee's Illinois	58 32	115	64 24
25	Mennonite	57 13	113	45 30
26	Wide Awake	55 8	116	51 26
27	Twentieth Century	53 32	114	48 28
28	Golden Beauty	53 21	115	43 18
	(For less than 5 years).			
	Golden Fleece (4 yrs.)	74 9	115	65 30
	Milford White* (4 yrs.)	68 10	114	62 22
	Kendal White* (4 yrs.)	67 12	117	56 16
	Olive Black* (4 yrs.)	64 1	114	72 32
	Kendal Black* (4 yrs.)	59 16	115	57 22
	Swedish Select (4 yrs.)	59 5	113	63 18
	Milford Black* (4 yrs.)	56 8	113	59 24
	Storm King (3 yrs.)	56 16	111	47 2
	Virginia White (1 yr.)	.....	.....	71 26

The average crop of the 37 varieties of oats tested on the Experimental Farm at Agassiz in 1906 was 60 bushels 7 lbs. per acre.

SIX-ROWED BARLEY.

During the season of 1906, eighteen varieties of six-rowed barley have been under test. The plots were of the same size as those of spring wheat. The seed was used in the proportion of two bushels to the acre; and the dates of sowing were as follows: At Ottawa, Ont., April 28th; Nappan, N.S., May 19th; Brandon, Man., May 28th; Indian Head, Sask., May 1st and at Agassiz, B.C., April 16th.

The yield is expressed in bushels per acre, the bushel of barley being 48 lbs.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.	Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.		(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Nugent*	58 4	96	65 ..	10	Common	51 32	93	53 36
2	Mensury	56 36	94	67 4	11	Brome*	51 8	97	42 24
3	Trooper*	56 32	93	69 8	12	Argyle*	49 28	96	62 4
4	Blue Long Head	55 44	96	61 32	13	Oderbruch	48 28	96	42 24
5	Albert*	55 36	96	77 4	14	Empire*	47 28	96	62 24
6	Stella*	55 28	95	47 4	15	Claude*	46 4	97	51 12
7	Yale*	54 16	95	58 16	16	Royal*	43 40	96	41 32
8	Odessa†	53 44	94	Failed.	17	Mansfield*	40 36	98	57 44
9	Summit*	52 8	93	51 32	18	Champion	36 12	93	32 24

The average crop of the 18 varieties of six-rowed barley tested on the Central Experimental Farm in 1906, was 55 bushels 25 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N. S.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.	Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.		(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Common	52 ..	93	42 24	12	Argyle*	43 36	94	38 36
2	Mensury	50 8	96	43 16	13	Nugent*	43 28	97	27 44
3	Royal*	48 40	95	38 16	14	Summit*	43 20	99	36 32
4	Empire*	48 32	96	35 40	15	Mansfield*	43 12	96	35 20
5	Oderbruch	48 20	93	42 44	16	Claude*	41 36	94	38 16
6	Stella*	48 16	99	34 8	17	Champion	39 24	92	25 40
7	Trooper*	47 20	94	33 16					
8	Albert*	47 ..	94	39 8		(For less than 5 years.)			
9	Odessa	46 20	93	45 ..					
10	Brome*	45 20	97	30 20		Blue Long head (2 yrs.)	40 ..	94	40 ..
11	Yale*	43 40	97	32 24					

The average crop of the 18 varieties of six-rowed barley tested on the Experimental Farm at Nappan in 1906, was 36 bushels 33 lbs. per acre.

SIX-ROWED BARLEY—*Continued.*

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties Tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Mensury	60 36	91	61 12
2	Yale*	60 34	90	60 10
3	Mansfield*	58 16	91	47 44
4	Odessa	55 44	89	60 40
5	Nugent*	55 44	92	65 40
6	Argyle*	54 26	91	51 22
7	Summit*	54 24	93	50 10
8	Albert*	54 14	88	55 40
9	Brome*	53 28	92	44 28
10	Empire*	53 10	92	56 22
11	Claude*	53 8	92	57 24
12	Oderbruch	49 32	89	47 44
13	Trooper*	49 6	93	55 10
14	Common	48 28	88	49 8
15	Stella*	48 16	92	48 46
16	Royal*	46 12	90	50 20
17	Champion	36 18	86	53 46
	(For less than 5 years.)			
	Blue Long Hea 1 (2 yrs.)	64 48	93	66 42

The average crop of the 18 varieties of six-rowed barley tested on the Experimental Farm at Brandon in 1906, was 54 bushels 34 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Odessa	65 16	101	65 40
2	Claude*	63 44	103	46 12
3	Nugent*	60 40	106	49 28
4	Common	60 12	99	60 40
5	Mansfield*	60 9	101	52 44
6	Stella*	59 39	104	47 44
7	Summit*	59 4	103	48 36
8	Mensury	59 2	101	57 24
9	Empire*	58 40	103	55 ..
10	Yale*	58 18	103	52 4
11	Royal*	57 40	100	50 40
12	Trooper*	57 7	100	53 36
13	Brome*	55 46	104	44 28
14	Oderbruch	55 37	99	55 ..
15	Argyle*	55 16	101	47 44
16	Albert*	49 42	101	42 24
17	Champion	40 11	97	41 32
	(For less than 5 years).			
	Blue Long Head (2 yrs)	68 46	102	64 8

The average crop of the 18 varieties of six-rowed barley tested on the Experimental Farm at Indian Head in 1906 was 52 bushels 3 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu Lbs.
1	Mensury	56 38	104	49 28
2	Oderbruch	53 2	103	35 ..
3	Brome*	51 8	105	36 12
4	Empire*	50 30	106	46 32
5	Stella*	50 8	109	37 24
6	Claude*	50 1	103	42 24
7	Albert*	49 44	104	34 8
8	Odessa	49 42	101	47 4
9	Nugent*	49 26	107	39 18
10	Argyle*	49 6	105	36 22
11	Mansfield*	48 2	106	32 24
12	Summit*	47 36	108	33 16
13	Common	47 28	103	36 32
14	Champion	46 44	100	35 40
15	Yale*	46 24	107	39 8
16	Royal*	46 14	104	51 32
17	Trooper*	45 4	109	39 8
	(For less than 5 years).			
	Blue Long Head (2 yrs)	46 27	102	43 16

The average crop of the 18 varieties of six-rowed barley tested on the Experimental Farm at Agassiz in 1906 was 38 bushels 35 lbs. per acre.

TWO-ROWED BARLEY.

Fourteen varieties of two-rowed barley were tested during the season of 1906, on all the Experimental Farms. The plots were of the same size as those of spring wheat. The seed was used at the rate of two bushels per acre; and the dates of sowing were as follows: At Ottawa, Ont., April 30th and May 1st; Nappan, N.S., May 19th; Brandon, Man., May 28th; Indian Head, Sask., May 1st and at Agassiz, B.C., April 16th.

The yield is expressed in bushels per acre, the bushel of barley being 48 lbs.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.		(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	French Chevalier	55 ..	99	57 44	10	Harvey*	43 16	99	48 36
2	Canadian Thorpe . .	50 20	100	56 12	11	Sidney*	42 16	98	52 44
3	Danish Chevalier ...	50 ..	99	52 44	12	Logan*	40 40	100	42 44
4	Standwell	49 36	100	67 44	13	Dunham*	40 8	101	53 36
5	Invincible.....	47 16	100	62 24		(For less than 5 years.)			
6	Gordon*.....	47 ..	98	56 32					
7	Beaver*.....	46 16	96	57 24					
8	Jarvis*....	46 4	97	57 4		Swedish Chevalier (3 years)	51 25	93	56 12
9	Clifford*.....	44 36	98	54 28					

The average crop of the 14 varieties of two-rowed barley tested on the Central Experimental Farm in 1906, was 55 bushels, 27 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.		(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Danish Chevalier....	55 28	98	51 32	10	Standwell	37 12	99	33 36
2	French Chevalier....	48 44	97	46 32	11	Sidney*.....	37 8	97	29 8
3	Beaver*.....	45 40	97	39 8	12	Gordon*.....	35 44	97	34 28
4	Logan*.....	40 32	98	35 ..	13	Jarvis*.....	34 44	97	36 12
5	Invincible	40 2	98	38 16		(For less than 5 years.)			
6	Clifford*	39 42	97	44 8					
7	Dunham*...	39 28	97	30 ..					
8	Harvey*.....	38 40	97	32 24		Swedish Chevalier (2 years).....	37 34	97	50 ..
9	Canadian Thorpe ...	38 24	98	25 40					

The average crop of the 14 varieties of two-rowed barley tested on the Experimental Farm at Nappan in 1906 was 37 bushels, 31 lbs. per acre.

TWO-ROWED BARLEY—*Continued.*

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Gordon*	52 46	93	59 18
2	Jarvis*	52 44	91	66 22
3	Harvey*	50 2	91	53 20
4	Clifford*	48 44	92	60 30
5	Dunham*	48 24	92	49 38
6	Standwell	46 28	95	47 14
7	Invincible	45 42	93	50 10
8	Logan*	45 12	93	47 34
9	Sidney*	43 40	90	49 38
10	French Chevalier	43 24	95	61 2
11	Canadian Thorpe	43 ..	93	51 2
12	Danish Chevalier	42 24	95	51 42
13	Beaver*	41 14	94	48 26
	(For less than 5 years)			
	Swedish Chevalier, (2 years)	54 38	94	55 40

The average crop of the 14 varieties of two-rowed barley tested on the Experimental Farm at Brandon in 1906 was 53 bushels, 38 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Invincible	65 42	109	52 24
2	Standwell	63 30	108	52 24
3	Danish Chevalier	58 42	111	60 —
4	Canadian Thorpe	55 42	106	48 16
5	Gordon*	55 19	102	52 24
6	Sidney*	55 9	100	54 8
7	Beaver*	54 41	109	40 20
8	Clifford*	53 4	102	52 24
9	French Chevalier	52 46	111	41 12
10	Jarvis*	52 33	103	52 44
11	Harvey*	50 7	102	46 32
12	Logan*	49 15	103	46 12
13	Dunham*	44 15	102	39 8
	(For less than 5 years.)			
	Swedish Chevalier (2 years)	53 26	106	47 24

The average crop of the 14 varieties of two-rowed barley tested on the Experimental farm at Indian Head in 1906 was 49 bushels 2 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years.)	Bu. Lbs.	Days.	Bu. Lbs.
1	Canadian Thorpe	51 18	110	32 41
2	Dunham*	51 15	111	41 32
3	Sidney*	49 40	100	41 2
4	Standwell	49 28	112	40 —
5	Beaver*	49 22	111	37 24
6	Invincible	49 22	110	36 32
7	French Chevalier	48 44	112	41 42
8	Harvey*	47 22	108	40 40
9	Danish Chevalier	47 16	122	41 12
10	Clifford*	46 6	107	46 32
11	Gordon*	45 18	109	34 36
12	Jarvis*	42 46	110	34 8
13	Logan*	41 21	110	27 4
	(For less than 5 years)			
	Swedish Chevalier (2 years)	47 19	106	42 14

The average crop of the 14 varieties of two-rowed barley tested on the Experimental Farm at Agassiz in 1906 was 38 bushels 23 lbs. per acre.

PEASE.

Twenty-four varieties of pease have been under trial at all the Experimental Farms during the past season. The plots were of the same size as those sown with spring wheat. The quantity of seed used per acre varied from 2 to 3 bushels, depending on the size of the pea. The dates of sowing were as follows: At Ottawa, Ont., May 7th; Nappan, N.S., May 22nd; Brandon, Man., April 30th; Indian Head, Sask., May 2nd, and at Agassiz, B.C., April 17th.

The yield is expressed in bushels per acre, the bushel of pease being 60 lbs.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.	Average days maturing	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bus. Lbs.	Days.	Bus. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Golden Vine	36	109	28 30	13	Early Britain	32 20	111	31 40
2	Mackay*	16	110	25 ..	14	Agnes*	32 12	109	27 40
3	Prussian Blue	12	107	27 ..	15	Pearl*	32 8	108	29 40
4	Chancellor	8	97	34 ..	16	Prince Albert	32 4	110	24 40
5	Prince*	4	99	24 ..	17	Kent*	31 56	111	25 ..
6	English Grey	52	111	31 20	18	Arthur*	31 32	106	33 ..
7	Victoria*	44	114	23 40	19	Archer*	31 20	112	29 40
8	Picton*	28	109	27 ..	20	Duke*	31 16	110	28 20
9	White Wonder	28	105	19 ..	21	Wisconsin Blue	30 16	109	26 40
10	Gregory*	4	112	27 40	22	Black-eye Marrowfat	29 48	111	27 ..
11	Daniel O'Rourke	40	109	27 ..	23	Nelson*	29 32	105	24 40
12	Paragon*	40	106	24 40	24	White Marrowfat	28 32	109	21 40

The average crop of the 24 varieties of pease tested on the Central Experimental Farm at Ottawa, in 1906, was 27 bus. 3 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Average days maturing	Yield in 1906.	Number.	Varieties tested.	Average Yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bus. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Archer*	30 32	113	18 40	13	Daniel O'Rourke	26 28	110	19 ..
2	Prince Albert	30 ..	112	20 20	14	Paragon*	26 16	111	35 20
3	Agnes*	30 ..	112	16 40	15	Duke*	25 56	112	23 ..
4	Nelson*	29 32	111	18 40	16	Golden Vine	25 52	110	22 ..
5	Chancellor	29 24	105	18 ..	17	Prince*	25 52	113	30 ..
6	White Marrowfat	29 ..	111	24 ..	18	Early Britain	25 12	109	28 ..
7	Arthur*	28 40	109	17 20	19	Picton*	24 44	112	20 ..
8	Gregory*	28 ..	114	26 ..	20	Pearl*	24 44	114	24 40
9	Victoria*	26 48	117	28 40	21	Wisconsin Blue	24 24	112	22 40
10	English Grey	26 48	112	14 40	22	Kent*	23 20	113	16 40
11	Mackay*	26 40	113	19 20	23	Prussian Blue	23 ..	110	19 ..
12	Black-eye Marrowfat	26 40	113	20 ..	24	White Wonder	20 ..	108	15 20

The average crop of the 24 varieties of pease tested on the Experimental Farm at Nappan, in 1906, was 21 bus. 57 lbs. per acre.

PEASE—*Continued.*

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average Yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Early Britain	53 32	125	48 20	13	Wisconsin Blue	45 46	[illegible]	46 20
2	Mackay*	52 ..	130	50 ..	14	Paragon*	45 34	125	50 ..
3	Victoria*	50 8	132	46 40	15	Black-eye Marrowfat	45 20	123	58 20
4	Arthur*	49 38	123	48 20	16	Archer*	45 10	133	44 30
5	Picton*	49 18	127	43 40	17	Daniel O'Rourke	44 22	130	44 20
6	Gregory*	48 46	129	53 .	18	Prussian Blue	44 16	122	51
7	Pearl*	48 2	135	45 10	19	Nelson*	43 46	123	50
8	Golden Vine	47 42	124	44 50	20	Luke*	43 44	128	53 20
9	Prince*	47 24	132	53 40	21	Chancellor	43 24	117	51 40
10	English Grey	46 30	132	38 ..	22	Kent*	42 56	133	39
11	White Marrowfat	46 28	131	51 20	23	Prince Albert	42 44	133	41 40
12	White Wonder	46 28	120	51 40	24	Agnes*	41 50	128	40

The average crop of the 24 varieties of pease tested on the Experimental Farm at Brandon in 1906 was 47 bushels, 42 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	Paragon*	52 4	117	39 ..	13	Gregory*	46 30	117	34 40
2	Daniel O'Rourke	51 14	111	41 ..	14	Ke*	46 18	119	39 ..
3	Early Britain	51 6	115	45 20	15	A[illegible]*	46 6	115	30 ..
4	Prussian Blue	50 22	115	41 ..	16	L[illegible]*	45 34	119	41 20
5	Chancellor	50 6	114	36 .	17	Arthur*	44 54	113	36 ..
6	English Grey	49 34	115	37 40	18	Archer*	44 34	118	34 40
7	Picton*	48 34	115	36 20	19	Pearl*	44 26	116	36 .
8	Mackay*	48 18	119	38 ..	20	Nelson*	44 6	115	38 40
9	Prince*	48 10	115	33 20	21	Wisconsin Blue	43 50	119	36 ..
10	Black eye Marrowfat	47 54	118	36 ..	22	Prince Albert	42 6	116	45 40
11	Golden Vine	47 10	114	45 40	23	White Marrowfat	40 38	117	36 ..
12	White Wonder	47 2	112	3 40	24	Victoria*	38 58	117	33 20

The average crop of the 24 varieties of pease tested on the Experimental Farm at Indian Head in 1906 was 38 bushels 1 lb. per acre.

PEASE—*Continued.*

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Average days maturing.	Yield in 1906.
	(For five years).	Bu. Lbs.	Days.	Bu. Lbs.		(For five years).	Bu. Lbs.	Days.	Bu. Lbs.
1	White Marrowfat	43 54	116	49 ..	13	Chancellor	36 38	117	34 40
2	Early Britain	42 14	112	48 40	14	Nelson *	36 26	115	36 ..
3	English Grey	39 42	114	50 ..	15	Picton *	35 40	117	46 40
4	Mackay *	38 42	116	43 ..	16	Gregory *	35 34	114	36 20
5	Prince *	38 42	117	38 40	17	Agnes *	35 20	116	28 ..
6	White Wonder	38 22	114	36 40	18	Daniel O'Rourke	35 2	111	37 40
7	Golden Vine	38 18	115	42 40	19	Wisconsin Blue	35 ..	116	38 ..
8	Arthur *	38 10	114	38 10	20	Black-eye Marrowfat	34 30	116	30 ..
9	Victoria	37 56	118	45 20	21	Duke *	33 58	121	29 40
10	Kent *	37 8	116	46 20	22	Pearl *	33 54	117	32 30
11	Paragon *	37 8	121	27 20	23	Archer *	33 48	117	39 ..
12	Prince Albert	36 52	116	41 20	24	Prussian Blue	33 28	114	35 20

The average crop of the 24 varieties of pease tested on the Experimental Farm at Agassiz in 1906 was 38 bushels 37 lbs. per acre.

INDIAN CORN.

The number of varieties of Indian corn tested in 1906 was twenty-three. These were sown in rows about three feet apart, and the plants thinned out to six or eight inches apart in the rows. The dates of sowing were as follows:—At Ottawa, Ont., May 28th; Nappan, N.S., June 8th; Brandon, Man., June 11th; Indian Head, Sask., May 19th, and at Agassiz, B.C., May 4th.

The crop in each case was cut green and put into the silo for the winter feeding of stock. The dates of cutting were:—At Ottawa, Ont., Sept. 11th; Nappan, N.S., Oct. 3rd; Brandon, Man., Aug. 27th; Indian Head, Sask., Sept. 13th, and at Agassiz, B.C., Oct. 2nd.

The yield per acre has been calculated in each case from the weight obtained from two rows each 66 feet long.

In Canada the ton is 2,000 lbs.

INDIAN CORN—*Continued.*

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties Tested.	Average yield.	Yield in 1906.	Number.	Varieties Tested.	Average yield.	Yield in 1906.
	(For five years).	Tons Lbs.	Tons Lbs.		(For five years).	Tons Lbs.	Tons Lbs.
1	Eureka	24 620	11	15	Longfellow	19 82	12 310
2	Thoroughbred White Flint	22 1,276	12 1,740	16	North Dakota White	18 1,708	10 570
3	Superior Fodder	22 1,062	13 730	17	Champion White Pearl	18 1,543	10 1,450
4	Giant Prolific Ensilage	22 1,023	13 840	18	Cloud's Early Yellow	18 1,400	8 1,160
5	Early Butler	21 1,516	14 1,590	19	Evergreen Sugar	17 1,882	11 1,210
6	Red Cob Ensilage	21 1,274	13 1,940	20	Angel of Midnight	16 1,102	7 1,290
7	Early Mastodon	21 1,219	14 1,920				
8	Salzer's All Gold	21 1,032	8 1,600		(For less than 5 years).		
9	Pride of the North	20 1,162	7 1,290				
10	Mammoth Cuban	20 854	13 1,720		Wood's Northern Dent (1 year)		15 690
11	Compton's Early	19 1,941	11 1,320		Early Leaming (1 year)		13 950
12	Selected Leaming	19 1,754	14 50		Early Longfellow (1 year)		11 .....
13	King Philip	19 1,358	11 110				
14	White Cap Yellow Dent	19 676	7 190				

The average crop of the 23 varieties of Indian corn tested on the Central Experimental Farm at Ottawa in 1906 was 11 tons, 1,420 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years).	Tons. Lbs.	Tons. Lbs.		(For five years).	Tons. Lbs.	Tons. Lbs.
1	Thoroughbred White Flint	22 858	25 160	15	King Philip	18 488	18 1,900
2	Eureka	22 594	23 1,850	16	Mammoth Cuban	17 1,410	18 800
3	Red Cob Ensilage	21 42	19 1,270	17	White Cap Yellow Dent	17 1,156	18 1,400
4	Salzer's All Gold	20 1,624	17 650	18	Cloud's Early Yellow	17 618	20 920
5	Giant Prolific Ensilage	20 1,580	20 1,800	19	North Dakota White	17 540	20 1,800
6	Early Mastodon	20 260	25 600	20	Champion White Pearl	17 474	21 20
7	Longfellow	19 1,772	19 1,600				
8	Superior Fodder	19 1,160	18 1,950		(For less than 5 years).		
9	Pride of the North	19 560	17 1,750				
10	Compton's Early	19 38	21 900		Early Leaming (1 year)		22 550
11	Angel of Midnight	18 1,988	24 1,500		Early Longfellow (1 year)		18 950
12	Evergreen Sugar	18 1,796	22 330		Wood's Northern Dent (1 year)		16 450
13	Early Butler	18 1,510	19 170				
14	Selected Leaming	18 1,136	20 1,250				

The average crop of the 23 varieties of Indian corn tested on the Experimental Farm at Nappan in 1906 was 20 tons, 1,068 lbs. per acre.

INDIAN CORN—*Continued.*

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Thoroughbred White Flint	21	425	21	1,296	15	Early Mastodon	17	637	18	168
2	Superior Fodder	20	1,237	19	1,600	16	Mammoth Cuban	16	578	15	624
3	Eureka	20	1,022	18	960	17	White Cap Yellow Dent	15	1,838	13	1,984
4	Longfellow	20	920	21	768	18	Cloud's Early Yellow	15	1,680	19	1,072
5	Champion White Pearl	19	1,811	21	1,560	19	Selected Leaming	15	888	14	1,304
6	Angel of Midnight	19	966	19	280	20	Evergreen Sugar	13	770	14	248
7	Compton's Early	19	755	19	808		(For less than 5 years).				
8	North Dakota White	18	1,752	19	16						
9	Early Butler	18	1,752	19	544		Early Longfellow (1 year)			18	168
10	Salzer's All Gold	18	1,541	18	960		Early Leaming (1 year)			16	472
11	King Philip	18	802	18	698		Wood's Northern Dent (1 year)			15	624
12	Red Cob Ensilage	18	749	18	432						
13	Pride of the North	17	1,482	17	848						
14	Giant Prolific Ensilage	17	1,376	16	1,000						

The average crop of the 23 varieties of Indian corn tested on the Experimental Farm at Brandon in 1906 was 18 tons, 19 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Angel of Midnight	16	604	15	800	14	White Cap Yellow Dent	12	891	11	550
2	Thor'bred White Flint	15	1,882	15	1,570	15	Early Butler	12	316	13	620
3	Eureka	15	975	16	1,000	16	Selected Leaming	11	1,272	14	710
4	Salzer's All Gold	15	580	11	1,650	17	Early Mastodon	11	1,135	14	1,920
5	Compton's Early	14	1,674	12	1,850	18	Mammoth Cuban	11	317	11	....
6	Pride of the North	14	486	15	1,020	19	Evergreen Sugar	11	312	14	50
7	North Dakota White	14	367	13	1,500	20	Cloud's Early Yellow	10	478	13	1,500
8	King Philip	14	50	12	1,630		(For less than 5 years)				
9	Champion White Pearl	13	1,177	15	800						
10	Giant Prolific Ensilage	13	334	14	1,700		Early Longfellow (1 yr)			14	50
11	Longfellow	13	193	14	160		Early Leaming (1 yr.)			11	1,870
12	Red Cob Ensilage	12	1,766	14	1,150		Wood's Northern Dent (1 yr.)			10	1,340
13	Superior Fodder	12	1,538	11	....						

The average crop of the 23 varieties of Indian corn tested on the Experimental Farm at Indian Head, in 1906 was 13 tons 1,280 lbs. per acre.

INDIAN CORN—*Continued.*

EXPERIMENTAL FARM AT AGASSIZ, B. C.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Thoroughbred White Flint	23	1,630	18	1,620	14	North Dakota White	16	1,132	16	560
2	Pride of the North	23	1,232	24	1,280	15	Eureka	16	76	13	620
3	Red Cob Ensilage	21	1,120	20	1,580	16	King Philip	15	1,988	14	1,260
4	Superior Fodder	21	88	19	1,400	17	Cloud's Early Yellow	15	18	12	90
5	Giant Prolific Ensilage	20	1,492	20	40	18	Longfellow	14	1,854	13	1,280
6	Mammoth Cuban	20	260	17	1,530	19	Selected Leaming	13	1,852	11	220
7	Salzer's All Gold	20	242	18	1,310	20	Evergreen Sugar	12	1,678	11	1,760
8	Compton's Early	19	801	17	1,805		(For less than 5 years).				
9	Early Butler	18	1,664	17	980						
10	Champion White Pearl	18	740	17	1,860		Wood's Northern Dent (1 yr.)			16	1,600
11	Early Mastodon	17	1,110	14	700		Early Longfellow (1yr.)			12	310
12	Angel of Midnight	17	122	14	1,040		Early Leaming (1 yr.)			11	1,430
13	White Cap Yellow Dent	17	34	19	280						

The average crop of the 23 varieties of Indian corn tested on the Experimental Farm at Agassiz in 1906 was 16 tons 632 lbs. per acre.

TURNIPS.

Twenty varieties were tested in 1906, sown in drills, or on the flat, 2½ feet apart. The dates of sowing were as follows:—Ottawa, Ont. May 15th; Nappan, N.S., June 16th; Brandon, Man., May 22nd; Indian Head, Sask., June 14th* and at Agassiz, May 7th.

The dates of pulling were as follows:—Ottawa, October 24th; Nappan, October 24th; Brandon, October 11th; Indian Head, October 10th and at Agassiz November 1st.

The yield per acre in each instance has been calculated from the weight of roots gathered from two rows each 66 feet long. This applies to all the field roots.

In Canada the ton is 2,000 lbs.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Jumbo	36	637	16	150	11	Imperial Swede	31	571	17	500
2	New Century	36	340	22	300	12	Halewood's Bronze Top	31	351	15	1,150
3	Kangaroo	35	1,052	15	1,700	13	Hall's Westbury	30	1,887	16	1,650
4	Mammoth Clyde	35	281	19	600	14	Selected Purple Top	30	382	19	300
5	Good Luck	34	1,095	13	1,550	15	East Lothian	29	987	11	..
6	Emperor Swede	33	648	12	1,950	16	Drummond Purple Top	29	886	10	1,550
7	Magnum Bonum	33	157	15	850	17	Skirvings	29	170	18	800
8	Perfection Swede	32	870	21	300	18	Carter's Elephant	28	1,391	14	100
9	Hartley's Bronze	31	837	15	1,500	19	Sutton's Champion	27	1,485	17	1,000
10	Elephant's Master	31	620	14	50	20	Bangholm Selected	27	1,018	11	1,800

The average yield of the 20 varieties of turnips tested on the Central Experimental Farm at Ottawa in 1906 was 15 tons 1,890 lbs. per acre.

*At Indian Head the first two sowings of May 11th and 19th were destroyed by cut worms, the crops recorded were grown from a third sowing made on June 13th.

TURNIPS—*Continued.*

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Perfection Swede.....	40	1,920	26	800	11	Jumbo.....	37	986	20	..
2	Magnum Bonum.....	40	680	24	1,600	12	Hall's Westbury.....	37	962	26	1,440
3	Kangaroo.....	38	1,922	28	1,840	13	Carter's Elephant.....	37	549	22	.
4	Selected Purple Top..	38	1,127	26	1,600	14	Sutton's Champion ...	36	1,854	25	400
5	Good Luck..	38	1,022	23	1,680	15	Mammoth Clyde	36	1,482	24	1,280
6	Hartley's Bronze	38	1,016	27	240	16	Imperial Swede.....	36	612	26	1,600
7	Drummond Purple Top	38	369	26	160	17	Bangholm Selected	35	1,988	21	400
8	Elephant's Master.. .	37	1,503	23	1,040	18	New Century.....	35	1,605	30	160
9	Halewood's Bronze Top	37	1,285	26	320	19	Skirvings	35	1,006	21	1,200
10	Emperor Swede	37	1,195	23	560	20	East Lothian.....	34	189	20	1,920

The average yield of the 20 varieties of turnips tested on the Experimental Farm at Nappan in 1906 was 25 tons 612 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Hartley's Bronze	31	787	26	1,856	11	New Century.....	26	483	19	16
2	Good Luck.....	30	1,670	25	952	12	Imperial Swede.....	26	378	22	880
3	Magnum Bonum.....	29	819	23	1,784	13	Elephant's Master ...	26	378	20	1,448
4	Bangholm Selected ...	28	1,299	25	424	14	Drummond Purple Top	25	1,797	18	1,488
5	Sutton's Champion ...	28	549	26	1,592	15	Emperor Swede	25	1,533	22	88
6	Hall's Westbury	27	1,062	25	1,744	16	Halewood's Bronze Top	25	1,163	19	544
7	Jumbo...	27	648	24	576	17	Mammoth Clyde	25	956	21	1,560
8	Skirvings.....	27	437	18	696	18	Kangaroo	25	952	21	1,032
9	Carter's Elephant.....	26	1,962	24	48	19	East Lothian.....	25	688	20	392
10	Perfection Swede.....	26	1,539	20	1,976	20	Selected Purple Top..	25	582	20	1,184

The average yield of the 20 varieties of turnips tested on the Experimental Farm at Brandon in 1906 was 22 tons 814 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Sutton's Champion....	24	1,038	15	228	11	Emperor Swede	21	198	14	1,172
2	Hall's Westbury.....	23	1,154	20	1,052	12	Jumbo.....	20	1,667	13	1,588
3	Perfection Swede....	23	954	21	900	13	Magnum Bonum	20	1,594	19	1,864
4	Halewood's Bronze Top	23	728	16	208	14	Drummond Purple Top	20	919	13	1,984
5	Hartley's Bronze	22	1,961	22	1,408	15	Mammoth Clyde.....	20	52	17	320
6	Skirvings.....	22	426	16	208	16	New Century.....	20	42	15	1,944
7	Bangholm Selected ...	21	1,975	21	636	17	Selected Purple Top.	19	892	15	756
8	Carter's Elephant.....	21	921	16	1,660	18	Kangaroo	18	726	16	472
9	Good Luck.....	21	663	16	1,396	19	Elephant's Master. ...	18	647	16	1,924
10	Imperial Swede	21	638	16	1,924	20	East Lothian..... ...	18	445	15	1,020

The average yield of the 20 varieties of turnips tested on the Experimental Farm at Indian Head in 1906 was 17 tons 333 lbs. per acre.

TURNIPS—*Continued.*

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Carter's Elephant	28	1,664	15	1,680
2	Perfection Swede	28	995	20	1,760
3	Halewood's Bronze Top	27	1,683	21	240
4	Mammoth Clyde	27	556	10	1,120
5	Elephant's Master	26	1,820	16	208
6	East Lothian	26	1,311	14	1,172
7	Good Luck	26	793	23	200
8	Hartley's Bronze	26	536	12	552
9	Jumbo	25	1,875	21	600
10	Emperor Swede	25	1,750	18	960
11	Hall's Westbury	25	1,480	13	928
12	Imperial Swede	25	1,025	18	422
13	Bangholm Selected	25	908	14	488
14	Kangaroo	25	530	21	1,032
15	Magnum Bonum	25	61	17	1,376
16	Skirvings	24	1,762	13	664
17	Drummond Purple Top	23	1,673	15	1,152
18	New Century	23	840	16	142
19	Selected Purple Top	22	1,223	11	1,760
20	Sutton's Champion	21	1,243	15	1,944

The average yield of the 20 varieties of turnips tested on the Experimental Farm at Agassiz in 1906 was 16 tons 1,220 lbs. per acre.

MANGELS.

Sixteen varieties of mangels have been under test during 1906. All were sown in drills or on the flat in rows 2½ feet apart. The dates of sowing were as follows:—At Ottawa, Ont., May 15th; Nappan, N.S., June 14th; Brandon, Man., May 23rd Indian Head, Sask., June 13th*, and at Agassiz, B.C., April 21.

The dates of pulling were as follows:—At Ottawa, Ont., Oct. 24th; Nappan, N.S. Oct. 17th; Brandon, Man., Oct. 8th; Indian Head, Sask., Oct. 8th, and at Agassiz Oct. 30th.

In Canada the ton is 2,000 lbs.

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Mammoth Long Red	41	[illegible]	[illegible]	800
2	Mammoth Yellow Intermediate	39	1,6[illegible]	[illegible]	800
3	Prize Mammoth Long Red	38	1,853	[illegible]	600
4	Half Sugar White	37	1,527	25	700
5	Triumph Yellow Globe	37	1,476	36	700
6	Prize Winner Yellow Globe	37	1,087	33	200
7	Lion Yellow Intermediate	36	1,146	32	300
8	Yellow Intermediate	36	879	37	1,050
9	Selected Yellow Globe	35	56	34	900
10	Giant Sugar Mangel	34	991	30	1,600
11	Selected Mammoth Long Red	33	954	40	1,550
12	Leviathan Long Red	33	648	28	400
13	Giant Yellow Intermediate	32	1,060	29	1,250
14	Gate Post	32	424	24	1,500
15	Half Sugar Rosy	31	118	27	700
16	Giant Yellow Globe	30	1,122	21	50

The average yield of the 16 varieties of mangels tested on the Central Experimental Farm at Ottawa in 1906 was 31 tons 1,569 lbs. per acre.

*At Indian Head the first two sowings of May 11th and 19th were destroyed by cut worms. The crops recorded were grown from a third sowing made on June 13th.

MANGELS—*Continued.*

EXPERIMENTAL FARM, NAPPAN, N S.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years.)	Tons. Lbs.	Tons. Lbs.		(For five years.)	Tons. Lbs.	Tons. Lbs.
1	Mammoth Yellow Intermediate	35 1,142	17 1,145	8	Prize Mamm. Long Red.	30 999	16 1,495
2	Lion Yellow Intermediate	35 763	16 670	9	Giant Yellow Globe.	29 1,531	13 730
3	Yellow Intermediate	33 1,477	19 940	10	Mammoth Long Red	29 192	18 465
4	Giant Yellow Intermediate	33 910	13 235	11	Half Sugar Rosy	28 1,959	14 1,205
5	Prize Winner Yellow Globe	33 269	16 1,990	12	Selected Mamm. Long Red	28 819	13 1720
6	Selected Yellow Globe	32 72	15 960	13	Triumph Yellow Globe	28 53	14 1700
7	Half Sugar White	31 1,261	19 280	14	Leviathan Long Red	27 1,943	15 855
				15	Giant Sugar Mangel	27 [illegible]	13 565
				16	Gate Post	26 1,971	13 1,555

The average yield of the 16 varieties of mangels tested on the Experimental Farm at Nappan in 1906 was 15 tons, 1,907 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years.)	Tons. Lbs.	Tons. Lbs.		(For five years.)	Tons. Lbs.	Tons. Lbs.
1	Mammoth Long Red	30 826	27 384	9	Gate Post	27 806	26 1,064
2	Triumph Yellow Globe	29 1,294	38 296	10	Lion Yellow Intermediate	26 1,486	21 636
3	Prize Mamm. Long Red.	29 872	32 1,472	11	Selected Yellow Globe	26 1,381	32 416
4	Half Sugar White	29 502	31 304	12	Half Sugar Rosy	26 1,354	28 1,288
5	Selected Mamm. Long Red	29 398	29 1,400	13	Leviathan Long Red	25 182	26 272
6	Prize Winner Yellow Globe	29 368	33 264	14	Giant Yellow Intermediate	24 1,711	25 1,744
7	Yellow Intermediate	29 238	31 1,624	15	Giant Sugar Mangel	24 946	26 1,856
8	Mammoth Yellow Intermediato	28 1,024	26 1,856	16	Giant Yellow Globe	23 306	24 312

The average yield of the 16 varieties of mangels tested on the Experimental Farm at Brandon in 1906 was 28 tons, 1,824 lbs. per acre.

MANGELS—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years.)	Tons. Lbs.	Tons. Lbs.		(For five years.)	Tons. Lbs.	Tons. Lbs.
1	Prize Winner Yellow Globe	26 1,120	27 252	8	Giant Yellow Globe	23 617	24 180
2	Triumph Yellow Globe	25 1,652	28 232	9	Half Sugar Rosy	21 1,603	21 1,296
3	Giant Yellow Intermediate	25 942	24 972	10	Giant Sugar Mangel	21 1,222	20 1,845
4	Lion Yellow Intermediate	25 875	21 636	11	Prize Mamm. Long Red	21 917	19 544
5	Selected Yellow Globe	24 1,037	22 1,804	12	Mammoth Long Red	21 633	21 900
6	Half Sugar White	24 650	23 596	13	Selected Mammoth Long Red	21 552	19 1,336
7	Yellow Intermediate	23 1,516	23 728	14	Leviathan Long Red	20 1,751	21 636
				15	Gate Post	20 1,162	18 1,092

Fifteen varieties only were sown at Indian Head, the Mammoth Yellow Intermediate being accidentally omitted.

The average yield of the 15 varieties of mangels tested on the Experimental Farm at Indian Head in 1906 was 22 tons, 1,003 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years.)	Tons. Lbs.	Tons. Lbs.		(For five years.)	Tons. Lbs.	Tons. Lbs.
1	Mammoth Long Red	31 1,235	11 644	9	Selected Mamm. Long Red	25 1,612	14 1,040
2	Lion Yellow Intermediate	28 1,332	15 1,680	10	Mammoth Yellow Intermediate	25 721	20 1,712
3	Yellow Intermediate	28 1,263	27 852	11	Half Sugar Rosy	25 606	18 168
4	Giant Sugar Mangel	28 397	18 960	12	Prize Mamm. Long Red	24 1,102	11 1,892
5	Half Sugar White	28 239	16 868	13	Triumph Yellow Globe	23 1,422	20 1,184
6	Giant Yellow Globe	27 1,361	11 1,760	14	Gate Post	23 840	10 856
7	Selected Yellow Globe	26 510	11 1,826	15	Leviathan Long Red	22 1,724	19 544
8	Giant Yellow Intermediate	26 371	13 1,720	16	Prize Winner Yellow Globe	22 1,593	11 176

The average yield of the 16 varieties of mangels tested on the Experimental Farm at Agassiz in 1906 was 16 tons, 118 lbs. per acre.

CARROTS.

Ten different sorts of carrots were tested during 1906, all being sown in drills, on the flat, in rows two feet apart. The dates of sowing were as follows:—At Ottawa, Ont., May 15th; Nappan, N.S., June 4th; Brandon, Man, May 8th; Indian Head, Sask., June 13th; and at Agassiz, B.C., April 21st.

The dates of pulling were as follows:—At Ottawa, Oct. 25th; Nappan, Oct. 20th; Brandon, Oct. 10th; Indian Head, Oct. 9th; and at Agassiz, Oct. 31st.

In Canada the ton is 2,000 lbs.

CARROTS—*Continued.*

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Mammoth White Intermediate..	29	1,227	25	1,950	6	Carter's Orange Giant.	24	697	16	1,600
2	New White Intermediate.	28	57	20	900	7	Long Yellow Stump-rooted	23	616	20	1,300
3	Improved Short White	27	1,973	25	1,200	8	White Belgian.	21	481	15	1,200
4	Giant White Vosges.	27	1,581	21	900	9	Half Long Chantenay.	20	91	14	1,200
5	Ontario Champion.	27	188	21	1,000	10	Early Gem.	19	601	15	800

The average yield of the 10 varieties of carrots tested on the Central Experimental Farm at Ottawa in 1906 was 19 tons 1,605 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Ontario Champion.	19	1,611	12	420	6	Long Yellow Stump-rooted..	17	1,738	10	625
2	New White Intermediate.	19	1,511	15	1,515	7	Improved Short White	17	919	9	150
3	Mammoth White Intermediate..	19	960	8	665	8	Half Long Chantenay.	17	73	10	995
4	Giant White Vosges.	19	824	10	460	9	Carter's Orange Giant.	16	957	10	130
5	White Belgian.	18	199	13	70	10	Early Gem.	15	1,453	9	1,305

The average yield of the 10 varieties of carrots tested on the Experimental Farm at Nappan in 1906 was 10 tons 1,833 lbs. per acre.

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	New White Intermediate.	24	576	18	960	7	Mammoth White Intermediate	19	412	18	80
2	Ontario Champion.	23	816	19	720	8	Long Yellow Stump-rooted	19	236	20	480
3	Improved Short White	23	24	19	1,160	9	Half Long Chantenay.	17	1,792	18	1,460
4	Giant White Vosges.	20	1,448	20	1,360	10	Early Gem.	17	1,288	20	40
5	Carter's Orange Giant.	20	832	21	1,120						
6	White Belgian.	19	632	14	160						

The average yield of the 10 varieties of carrots tested on the Experimental Farm at Brandon in 1906 was 19 tons 148 lbs. per acre.

CARROTS—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.		Number.	Varieties tested.	Average yield.	
	(For five years ending 1905.)	Tons.	Lbs.		(For five years ending 1905.)	Tons.	Lbs.
1	Ontario Champion	16	113	6	Early Gem	13	47
2	New White Intermediate	15	1,562	7	Half Long Chantenay	12	1,730
3	Giant White Vosges	14	1,464	8	Mammoth White Intermediate	12	1,694
4	Improved Short White	14	402	9	Carter's Orange Giant	12	749
5	White Belgian	13	426	10	Long Yellow Stump-rooted	12	274

The plots of carrots at Indian Head in 1906 were entirely destroyed by cut-worms. Under these circumstances it is thought best to give the yields for the five years ending 1905.

EXPERIMENTAL FARM, AGASSIZ, B. C.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Giant White Vosges	31	456	37	1,340	6	New White Intermediate	24	1,309	28	1,948
2	Mamm. White Intermediate	28	678	26	1,592	7	Ontario Champion	24	554	23	1,784
3	Improved Short White	27	105	31	964	8	Early Gem	20	1,796	24	576
4	White Belgian	26	331	28	232	9	Long Yellow Stump Rooted	20	814	22	1,672
5	Carter's Orange Giant	25	1,097	31	1,756	10	Half Long Chantenay	19	1,684	26	404

The average yield of the 10 varieties of carrots tested on the Experimental Farm at Agassiz in 1906 was 28 tons 427 lbs. per acre.

SUGAR BEETS.

Eight varieties of sugar beets have been tested during 1906, sown in drills or on the flat in rows two feet apart. The dates of sowing were: At Ottawa, Ont., May 15th; Nappan, N.S., June 14th; Brandon, Man., May 23rd; Indian Head, Sask., June 13th and at Agassiz, B.C., April 21st.

The dates of pulling were as follows: At Ottawa Oct. 25th; Nappan, October 19th; Brandon, October 8th; Indian Head, October 9th and at Agassiz, October 30th.

The yield per acre in each instance has been calculated from the weight of roots gathered from two rows each 66 feet long. Though all the varieties included in these tests are commonly classed as sugar beets it should be noted that the only sorts recommended for use in the manufacture of beet sugar are Wanzleben, Vilmorin's Improved and French Very Rich.

In Canada the ton is 2,000 lbs.

SUGAR BEETS—*Continued.*

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Danish Red Top.....	34	1,919	35	50	5	Royal Giant.....	30	624	31	1,350
2	Red Top Sugar.....	34	1,611	33	350	6	Wanzleben.....	26	853	26	1,700
3	Danish Improved.....	33	1,392	31	1,950	7	French Very Rich....	24	649	28	300
4	Improved Imperial...	32	452	34	150	8	Vilmorin's Improved..	23	1,387	25	800

The average yield of the 8 varieties of sugar beets tested on the Central Experimental Farm at Ottawa in 1906 was 30 tons 1,581 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N. S.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Tons.	Lbs.	Tons.	Lbs.		(For five years.)	Tons.	Lbs.	Tons.	Lbs.
1	Royal Giant.....	27	991	10	295	5	Improved Imperial....	23	790	12	1,410
2	Red Top Sugar.....	24	1,796	9	975	6	Wanzleben..	20	246	8	839
3	Danish Red Top.....	24	1,218	11	1,430	7	Vilmorin's Improved.	18	1,180	8	1,490
4	Danish Improved.....	23	1,269	13	1,225	8	French Very Rich....	16	1,641	11	605

The average yield of the 8 varieties of sugar beets tested on the Experimental Farm at Nappan in 1906 was 10 tons 1,532 lbs. per acre.

EXPERIMENTAL FARM BRANDON, MAN.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Tons.	Lbs.	Tons.	Lbs.		(For five years).	Tons.	Lbs.	Tons.	Lbs.
1	Red Top Sugar.....	26	1,856	20	1,448	5	Improved Imperial.....	21	187	21	1,824
2	Danish Red Top.....	25	1,770	26	800	6	Wanzleben.....	19	1,706	16	1,792
3	Royal Gi[illegible]	21	1,982	22	1,672	7	French Very Rich	16	525	16	1,264
4	Danish I[illegible]ed.....	21	926	20	920	8	Vilmorin's Improved.....	15	571	15	624

The average yield of the 8 varieties of sugar beets tested on the Experimental Farm at Brandon in 1906 was 20 tons, 293 lbs. per acre.

SUGAR BEETS—*Continued.*

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years).	Tons. Lbs.	Tons. Lbs.		(For five years).	Tons. Lbs.	Tons. Lbs.
1	Royal Giant	20 7	19 148	5	Danish Red Top	15 1,420	16 1,000
2	Red Top Sugar	18 71	14 1,568	6	Vilmorin's Improved	13 1,172	10 856
3	Danish Improved	16 1,672	16 472	7	Wanzleben	13 180	11 308
4	Improved Imperial	16 1,472	15 888	8	French Very Rich	12 1,037	9 480

The average yield of the 8 varieties of sugar beets tested on the Experimental Farm at Indian Head in 1906 was 14 tons, 215 lbs. per acre.

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.	Yield in 1906.	Number.	Varieties tested.	Average yield.	Yield in 1906.
	(For five years).	Tons. Lbs.	Tons. Lbs.		(For five years).	Tons. Lbs.	Tons. Lbs.
1	Royal Giant	23 1,197	15 1,680	5	Danish Red Top	20 1,686	21 1,032
2	Improved Imperial	21 1,930	22 1,540	6	French Very Rich	17 1,533	12 1,080
3	Danish Improved	21 1,280	19 1,072	7	Wanzleben	17 637	18 1,356
4	Red Top Sugar	21 709	20 1,712	8	Vilmorin's Improved	17 185	10 64

The average yield of the 8 varieties of sugar beets tested on the Experimental Farm at Agassiz in 1906 was 17 tons, 1,442 lbs. per acre.

POTATOES.

Thirty-two varieties of potatoes have been under test during 1906. The potatoes were cut into pieces with two or three eyes in each, and these pieces were planted in rows 2½ feet apart, the sets being placed a foot apart in the rows. The dates of planting and digging were as follows:—At Ottawa, Ont., planted May 22, dug Oct. 1st; at Nappan, N.S., planted June 13, dug October 12; at Brandon, Man., planted May 21, dug October 2; at Indian Head, Sask., planted May 12, dug October 3, and at Agassiz, B.C., planted May 1, dug September 17.

In Canada the bushel of potatoes is 60 lbs.

POTATOES—*Continued.*

CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Bus.	Lbs.	Bus.	Lbs.		(For five years).	Bus.	Lbs.	Bus.	Lbs.
1	Carman No. 1	387	38	114	24	18	Empire State	297	..	132	..
2	Late Puritan	375	19	116	36	19	Maule's Thoroughbred	294	48	105	36
3	Money Maker	362	7	74	48	20	American Wonder	286	53	79	12
4	Dreer's Standard	357	17	121	..	21	Early Rose	283	48	149	36
5	Burnaby Mammoth	350	41	94	36	22	Carman No. 3	270	36	88	..
6	Sabean's Elephant	349	22	129	48	23	Early White Prize	210	19	156	12
7	Canadian Beauty	348	55	112	12	24	Bovee	209	26	112	12
8	I. X. L.	346	43	112	12		(For less than 5 years).				
9	Holborn Abundance	333	31	171	36		Pearce (4 yrs.)	310	45	143	..
10	Irish Cobbler	330	53	132	..		Early Envoy (4 yrs.)	190	51	70	24
11	Rochester Rose	330	53	149	36		Pingree (4 yrs.)	182	36	134	12
12	Reeve's Rose	326	29	114	24		Dooley (2 yrs.)	253	..	149	36
13	Country Gentleman	326	2	165	..		Morgan Seedling (2 yrs.)	247	30	121	..
14	Vick's Extra Early	318	7	134	12		Vermont Gold Coin (2 yrs.)	243	6	138	36
15	Uncle Sam	317	14	116	36		Dalmeny Beauty (1 yr.)	...	..	213	24
16	State of Maine	315	29	132	..		Ashleaf Kidney (1 yr.)	...	..	151	48
17	Everett	310	12	88	..						

The average crop of the 32 varieties of potatoes tested on the Central Experimental Farm at Ottawa in 1906 was 125 bushels 45 lbs. per acre.

EXPERIMENTAL FARM, NAPPAN, N.S.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Bus.	Lbs.	Bus.	Lbs.		(For five years).	Bus.	Lbs.	Bus.	Lbs.
1	Vick's Extra Early	455	50	385	..	18	Bovee	323	24	297	..
2	Rochester Rose	406	..	358	36	19	American Wonder	319	..	323	24
3	Irish Cobbler	371	16	367	24	20	Country Gentleman	318	7	330	..
4	State of Maine	369	36	422	24	21	Maule's Thoroughbred	317	41	242	..
5	I. X. L.	368	43	321	12	22	Dreer's Standard	305	22	266	10
6	Everett	367	..	286	..	23	Early Rose	282	29	336	36
7	Carman No. 1	365	12	396	..	24	Reeve's Rose	276	19	248	36
8	Late Puritan	361	41	341	..		(For less than 5 years).				
9	Canadian Beauty	359	55	336	36						
10	Empire State	355	5	343	12		[illegible] yrs.)	431	12	356	24
11	Money Maker	354	24	356	24		Early Envoy (4 yrs.)	343	12	380	36
12	Holborn Abundance	354	12	281	36		Pingree (4 yrs.)	331	31	297	..
13	Burnaby Mammoth	352	53	334	24		[illegible]ont Gold Coin (2 yrs.)	508	12	503	48
14	Carman No. 3	340	7	418	..		[illegible] (2 yrs.)	416	54	420	12
15	Early White Prize	339	41	330	..		Morgan Seedling (2 yrs.)	390	30	297	..
16	Uncle Sam	335	17	369	36		Ashleaf Kidney (1 yr.)	...	..	387	12
17	Sabean's Elephant	323	50	426	48		Dalmeny Beauty (1 yr.)	...	..	281	36

The average crop of the 32 varieties of potatoes tested on the Experimental Farm at Nappan in 1906 was 345 bushels 3 lbs. per acre.

POTATOES—*Continued.*

EXPERIMENTAL FARM, BRANDON, MAN.

Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Bus.	Lbs.	Bus.	Lbs.
1	American Wonder	545	36	484	..
2	Dreer's Standard	533	40	436	20
3	Late Puritan	533	20	421	40
4	State of Maine	529	28	484	..
5	Uncle Sam	522	8	469	20
6	Empire State	517	..	429	..
7	Money Maker	516	16	418	..
8	Maule's Thoroughbred	504	32	403	20
9	Sabean's Elephant	492	48	436	20
10	Canadian Beauty	489	52	337	20
11	Country Gentleman	487	40	300	40
12	Reeve's Rose	470	48	491	20
13	Holborn Abundance	470	48	374	..
14	Burnaby Mammoth	462	..	392	20
15	Irish Cobbler	459	48	385	..
16	Carman No. 3	447	20	344	40
17	I. X. L.	447	20	414	20
18	Carman No. 1	432	40	451	..
19	Everett	397	28	359	20
20	Early White Prize	394	32	256	40
21	Bovee	374	..	407	..
22	Early Rose	368	58	289	40
23	Vick's Extra Early	353	28	260	20
24	Rochester Rose	344	40	337	20
	(For less than 5 years).				
	Pearce, (4 yrs.)	512	25	447	20
	Early Envoy (4 yrs.)	388	40	392	20
	Pingree (4 yrs.)	270	25	278	40
	Morgan Seedling (2 yrs.)	586	40	443	40
	Vermont Gold Coin (2 yrs).	559	10	495	.
	Dooley (2 yrs)	383	10	363	..
	Ashleaf Kidney (1 yr)	...	..	341	..
	Dalmeny Beauty (1 yr)	...	..	311	40

The average crop of the 32 varieties of potatoes tested on the Experimental Farm at Brandon in 1906 was 389 bushels 14 lbs. per acre.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years).	Bus.	Lbs.	Bus.	Lbs.
1	Country Gentleman	408	26	387	12
2	Uncle Sam	403	36	299	12
3	Late Puritan	403	15	360	48
4	Burnaby Mammoth	394	27	345	24
5	Carman No. 1	394	25	228	48
6	Rochester Rose	391	6	332	12
7	Carman No. 3	391	45	402	36
8	Sabean's Elephant	391	22	367	24
9	American Wonder	389	31	332	12
10	Reeve's Rose	388	44	321	12
11	Money Maker	385	18	433	24
12	Dreer's Standard	381	46	358	36
13	Maule's Thoroughbred	379	13	323	24
14	State of Maine	377	38	352	..
15	Vick's Extra Early	377	12	369	36
16	Empire State	374	23	347	36
17	Holborn Abundance	368	40	292	36
18	Everett	362	35	308	..
19	I. X. L.	357	34	334	24
20	Canadian Beauty	356	5	380	36
21	Irish Cobbler	341	35	332	12
22	Early White Prize	327	16	305	48
23	Early Rose	319	49	294	48
24	Bovee	289	57	259	36
	(For less than 5 years).				
	Early Envoy (4 yrs.)	369	58	321	12
	Pearce (4 yrs)	349	4	316	48
	Pingree (4 yrs)	319	55	224	24
	Vermont Gold Corn (2 yrs.)	493	6	360	48
	Morgan Seedling (2 yrs.)	388	36	290	24
	Dooley (2 yrs.)	316	..	277	12
	Dalmeny Beauty (1 yr.)	...	..	406	30
	Ashleaf Kidney (1 yr.)	...	..	371	20

The average crop of the 32 varieties of potatoes tested on the Experimental Farm at Indian Head in 1906 was 322 bushels 27 lbs. per acre.

POTATOES—*Concluded.*

EXPERIMENTAL FARM, AGASSIZ, B.C.

Number.	Varieties tested.	Average yield.		Yield in 1906.		Number.	Varieties tested.	Average yield.		Yield in 1906.	
	(For five years.)	Bus.	Lbs.	Bus.	Lbs.		(For five years.)	Bus.	Lbs.	Bus.	Lbs
1	Late Puritan	460	14	611	36	20	Vick's Extra Early	327	8	231	36
2	American Wonder	444	41	508	12	21	Early White Prize	319	40	330	..
3	Uncle Sam	426	8	360	48	22	Carman No. 3	309	6	330	..
4	Dreer's Standard	410	13	589	36	23	Money Maker	293	22	211	12
5	Rochester Rose	406	59	452	..	24	Canadian Beauty	282	49	171	36
6	Country Gentleman	405	1	272	48		(For less than 5 years.)				
7	State of Maine	400	11	466	24		Pearce (4 years)	333	4	297	..
8	Carman No. 1	398	55	404	48		Early Envoy (4 years)	220	55	218	56
9	Empire State	392	29	356	24		Pingree (4 years)	201	40	200	12
10	Sabean's Elephant	390	34	435	36		Vermont Gold Coin (2 years)	539	..	514	48
11	I. X. L.	381	11	396	..		Dooley (2 years)	462	..	268	24
12	Reeve's Rose	375	6	218	56		Morgan Seedling (2 years)	414	42	363	..
13	Holborn Abundance	367	11	336	36		Ashleaf Kidney (1 year)	..	..	495	..
14	Maule's Thoroughbred	365	5	402	36		Dalmeny Beauty (1 year)	..	..	277	12
15	Everett	342	3	453	12						
16	Irish Cobbler	339	1	248	36						
17	Early Rose	338	15	264	..						
18	Bovee	337	40	264	..						
19	Burnaby Mammoth	329	32	323	24						

The average crop of the 32 varieties of potatoes tested on the Experimental Farm at Agassiz in 1906 was 353 bush. 53 lbs. per acre.

SUMMARY

The results obtained from the uniform trial plots recorded in this bulletin show that there are marked differences in the relative productiveness of varieties even when grown side by side under similar conditions. The results of the average crops obtained for five years indicate also that the tendency to productiveness is in many instances persistent, manifesting itself under varying conditions of soil and climate to a remarkable degree. The establishment of such facts points to the importance of farmers choosing for seed those varieties which give the heaviest crops so that farming in Canada may thus be made more profitable.

During the past year the number of varieties under test has been further reduced by dropping some of those which have failed to come up to the high standard required. This reduction in the number tested will serve to give greater prominence to those varieties of the highest excellence.