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Varietal Demonstrations With Small Grain  
and Flax

1932

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## FARM DEMONSTRATION TRIALS

Barley, Oats, Wheat and Flax

Summary - 1932

Ralph F. Crim, S. M. Raleigh and H. K. Hayes

### Cooperating Organizations

Varietal demonstrations including barley, oats, wheat and flax were carried on cooperatively by the Department of Agronomy and Plant Genetics, the Agricultural Extension Service, county agents and farmers in 39 counties. Seed of recommended varieties was furnished by the Department of Plant Genetics. The division further cooperated with the Agricultural Extension Service and county agents in planning, supervising and checking results on these demonstrations. County agents secured cooperators, distributed the seed in their counties and saw that the demonstration plots were harvested. The cooperating farmer seeded the lot of grain furnished him on a strip through his field under the same conditions as he seeded his own grain. The seeder was cleaned before seeding the demonstration trial.

### Represents Field Conditions

In selecting cooperators, no attempt was made to secure farmer cooperators who had the best conditions, but rather representative farmers with typical field conditions. Farmers used many varieties of grain. In quite a number of cases they did not know the names of their own varieties. They often had secured their seed locally or had grown it on their own farm for many years. The results of these trials are representative, therefore, of what may be expected where the recommended varieties are grown commercially.

### Seed Furnished

In 1932, seed was furnished for 425 demonstrations. Glabron and Velvet were furnished to 46 and 89 cooperators respectively in one-half bushel lots. Gopher, Minrus, Anthony and Iogold oats were furnished to 53, 106, 52 and 16 cooperators respectively, in one-half bushel lots. Wheat was furnished in twenty-pound lots as follows: Marquillo and Ceres to 15 and 16 cooperators, respectively. Flax was furnished in one-peck lots as follows: Redwing, 16 and Bison 14 cooperators.

### Counties Cooperating

The county reports included in this summary are arranged alphabetically. The summary tables are divided into five groups.

The Northwest group includes Clearwater, Hubbard, Norman, East Polk, West Polk and Wadena counties.

The Southwest group includes Brown, Cottonwood, Jackson, Lincoln, Lyon, Nicollet, Pipestone, Renville, Rock, Swift, Watonwan and Yellow Medicine counties.

The Southeast group includes Dakota, Goodhue, Houston, Mower, Rice, Scott, Steele and Winona Counties.

The East Central group includes Benton, Chicago, Hennepin, Meeker, Sherburne and Washington counties.

The Northeast group consists of only St. Louis county.

#### Checking Yields

Check samples consisting of ten square yards were harvested from the strip seeded to the station variety and from the farm variety. The square yard plots were well distributed through the length of the field and were sent to University Farm for threshing and computing yields.

#### Summary of Barley Demonstrations

The summary of the barley demonstrations is given in Table I. The station Glabron and Velvet barley seed used in these demonstrations was from plots that had been hot water treated the previous season. Station Glabron when compared with farm Velvet yielded 7.3% more in 8 trials in the Southwest group, 7.6% more in 7 trials in the Southeast group, 69.4% more in 1 trial in the East Central group and 3.9% less in 2 trials in the Northwest group. This gives station Glabron 5.9% increase over farm Velvet for 18 trials. Station Velvet when compared with farm Glabron yielded 5.1% more in 3 trials in the Northwest group, 7.2% more in 3 trials in the Southwest group, 19.4% more in 1 trial in the Southeast group and 3% less in 3 trials in the East Central group. This makes an increase of 3.8% for 10 trials in all locations.

We would conclude that Glabron yielded only slightly more than Velvet.

Velvet when compared with Manchuria yielded 14.4% more in 4 trials in the Northwest group, 2.8% more in 3 trials in the Southwest group, 10% more in 1 trial in the Southeast group, 14.8% less in 1 trial in the East Central group and 2.3% more in 2 trials in the Northeast group. This gives Velvet 5% increase over Manchuria in 11 trials.

#### Summary of Oat Demonstrations

The summary of the oat demonstration trials will be found in Table II. Gopher when compared with Green Russian yielded 28.6% more in 4 trials in the Southwest group and 70.8% more in 1 trial in the Northwest group. Gopher yielded from 3 to 50% more than common varieties such as Kherson, Iowar and Iowa 105.

Minrus when compared with Swedish Select yielded 29.7% more in 1 trial in the Northwest group, 18.3% more in 2 trials in the Southwest group, 28.3% more in 1 trial in the Southeast group, 18.0% more in 3 trials in the East Central group and 22.3% more in one trial in the Northeast group.

Minrus when compared with Silvermine yielded 1.2% more in 2 trials in the Northwest group, 32.9% more in 2 trials in the Southeast group and 14% more in 2 trials in the East Central group.

Minrus yielded 8.2% more than Green Russian in 12 trials in the Southwest group. Minrus when compared with farm Gopher yielded 10.6% more in 8 trials in the Southwest group, .1% more in 5 trials in the Southeast group, 17.9% more in 1 trial in the East Central group and .3% less in 2 trials in the Northeast group.

Anthony outyielded Swedish Select 17.8% in 2 trials in the Northwest group, 12% in 2 trials in the East Central group and 46.3% in 3 trials in the Northeast group.

Anthony when compared with Silvermine yielded 17.9% more in 2 trials in the Northwest group, 55.3% more in 1 trial in the Southwest group and 12.2% more in 1 trial in the Northeast group.

#### Summary Spring Wheat Demonstrations

The results of the spring wheat trials are found in Table III. Ceres outyielded Marquis 26% in 2 trials in the Northwest group and 7.9% in 2 trials in the Southwest group. Marquillo outyielded Marquis 31.8% in 2 trials in the Northwest group, 14.2% in 1 trial in the Southwest group.

#### Summary of the Flax Demonstrations

The summary of the flax demonstrations for the Southwest group is found in Table IV. Bison yielded 21.5% less than Redwing in 2 trials and Redwing yielded 1.8% more than farm Bison in 7 trials.

Table I. Barley demonstration trials in which Glabron and Velvet are compared with the farmer's variety by seeding a strip in the farmer's field, 1932.

Location	Group	No. Com- parisons	Yield in Bushels			% Yield with Farm Variety as 100	
			Station	Var.	Farm Var.		
Polk to Wadena	N. W.	2	Glabron	53.6	Velvet	55.2	97.1
Swift to Jackson	S. W.	8	"	43.9	"	40.9	107.3
Scott to Houston	S. E.	7	"	44.0	"	42.6	107.6
Meeker to Chisago	E. C.	1	"	37.1	"	21.9	169.4
All Locations		18	"	44.6	"	42.1	105.9
Swift to Jackson	S. W.	4	"	33.4	Manch.	28.8	116.0
Meeker to Chisago	E. C.	1	"	30.4	"	30.0	101.3
St. Louis	N. E.	1	"	49.6	Oderbr.	33.6	147.6
Polk to Wadena	N. W.	1	"	20.4	F. Var.	22.8	89.5
Meeker to Chisago	E. C.	1	"	14.2	"	13.3	106.8
Polk to Wadena	N. W.	2	"	28.7	Trebi	37.3	76.9
Meeker to Chisago	E. C.	1	"	39.0	"	40.0	97.5
Polk to Wadena	N. W.	3	Velvet	26.5	Glabron	25.2	105.1
Swift to Jackson	S. W.	3	"	37.4	"	34.9	107.2
Scott to Houston	S. E.	1	"	44.8	"	37.5	119.4
Meeker to Chisago	E. C.	3	"	48.3	"	49.8	97.0
All Locations		10	"	38.1	"	36.7	103.8
Polk to Wadena	N. W.	4	"	23.0	Manch.	20.8	114.4
Swift to Jackson	S. W.	3	"	43.6	"	42.4	102.8
Scott to Houston	S. E.	1	"	50.2	"	45.6	110.0
Meeker to Chisago	E. C.	1	"	20.8	"	24.4	85.2
St. Louis	N. E.	2	"	48.2	"	47.1	102.3
All Locations		11	"	35.8	"	34.0	105.0
Scott to Houston	S. E.	1	"	48.6	Oderbr.	50.7	95.9
Meeker to Chisago	E. C.	1	"	15.5	"	14.5	105.4
Polk to Wadena	N. W.	1	"	45.7	Trebi	58.3	78.4
" "	N. W.	2	"	31.6	F. Var.	27.8	113.7
Swift to Jackson	S. W.	3	"	39.5	"	35.6	111.0
Scott to Houston	S. E.	2	"	46.8	"	47.7	98.1
Meeker to Chisago	E. C.	2	"	36.0	"	39.2	91.8
St. Louis	N. E.	2	"	54.2	"	53.6	101.1

Table II. Oat demonstration trials in which Gopher, Minrus, Anthony and Iogold are compared with farmer's variety by seeding a strip in the farmer's field - 1932.

Location	Group	No. Com- parisons	Station	Yield in bushels		% Yield with Farm Variety as 100	
				Var.	Farm Var.		
Polk to Wadena	N. W.	2	Gopher	29.8	Minrus	25.4	117.3
" "	N. W.	1	"	32.8	Gr. Rus.	19.2	170.8
Swift to Jackson	S. W.	4	"	71.9	"	55.9	128.6
Polk to Wadena	N. W.	1	"	36.8	Swenson	10.0	368.0
Scott to Houston	S. E.	1	"	73.3	"	47.3	155.0
Polk to Wadena	N. W.	1	"	32.8	Iowa 105	31.8	103.2
Scott to Houston	S. E.	1	"	69.2	"	43.8	158.0
Swift to Jackson	S. W.	2	"	67.9	Iowar	62.8	108.0
Scott to Houston	S. E.	1	"	74.9	"	72.4	103.2
Meeker to Chisago	E. C.	1	"	67.0	"	46.5	122.6
Swift to Jackson	S. W.	1	"	86.9	Iowa 103	69.1	125.8
Scott to Houston	S. E.	2	"	83.9	Kherson	69.4	120.9
Meeker to Chisago	E. C.	1	"	20.8	"	16.3	127.6
Swift to Jackson	S. W.	1	"	36.8	F. Var.	26.8	137.3
Scott to Houston	S. E.	4	"	74.5	"	69.4	125.4
Meeker to Chisago	E. C.	2	"	76.3	"	56.2	135.7
St. Louis	N. E.	1	"	48.6	"	47.2	103.0
Swift to Jackson	S. W.	3	Iogold	76.2	Gopher	69.8	109.2
Scott to Houston	S. E.	1	"	70.7	"	68.8	102.8
Swift to Jackson	S. W.	1	"	76.6	Med. Yel.	58.2	131.6
Scott to Houston	S. E.	1	"	67.1	"	57.2	117.3
Swift to Jackson	S. W.	2	"	63.8	Midsea.	60.3	105.8
Polk to Wadena	N. W.	1	Minrus	34.1	Sw. Sel.	26.3	129.7
Swift to Jackson	S. W.	2	"	66.0	"	55.8	118.3
Scott to Houston	S. E.	1	"	61.1	"	47.6	128.3
Meeker to Chisago	E. C.	3	"	54.4	"	46.1	118.0
St. Louis	N. E.	1	"	82.2	"	67.2	122.3
Polk to Wadena	N. W.	2	"	51.8	S. mine	51.2	101.2
Scott to Houston	S. E.	2	"	67.4	"	50.7	132.9
Meeker to Chisago	E. C.	2	"	57.0	"	50.0	114.0
Swift to Jackson	S. W.	8	"	67.0	Gopher	60.6	110.6
Scott to Houston	S. E.	5	"	70.2	"	70.1	100.1
Meeker to Chisago	E. C.	1	"	52.7	"	44.7	117.9
St. Louis	N. E.	2	"	36.8	"	36.9	99.7
Swift to Jackson	S. W.	12	"	63.1	Gr. Rus.	58.3	108.2
" "	S. W.	1	"	49.7	Med. Yel.	39.4	126.1
Scott to Houston	S. E.	1	"	72.0	"	53.7	134.1
Polk to Wadena	N. W.	2	Anthony	42.9	Sw. Sel.	36.4	117.8
Meeker to Chisago	E. C.	2	"	64.4	"	57.5	112.0
St. Louis	N. E.	3	"	55.3	"	37.8	146.3
Polk to Wadena	N. W.	2	"	42.9	S. mine	36.4	117.9
Swift to Jackson	S. W.	1	"	48.6	"	31.3	155.3
St. Louis	N. E.	1	"	69.0	"	61.5	112.2
Polk to Wadena	N. W.	1	"	20.3	Gr. Rus.	13.9	146.0
Swift to Jackson	S. W.	1	"	69.0	"	58.4	118.2
Polk to Wadena	N. W.	1	"	35.4	Gopher	37.3	94.9
Meeker to Chisago	E. C.	2	"	61.6	"	58.6	105.1
St. Louis	N. E.	1	"	96.8	"	67.0	144.0
Polk to Wadena	N. W.	1	"	18.8	Victory	13.8	136.2
Meeker to Chisago	E. C.	1	"	67.1	"	63.4	105.8

Table III. Spring wheat demonstration trials in which Ceres and Marquillo are compared with farm varieties by seeding a strip in the farmer's field - 1932.

Location	Group	No. comparisons	Yield in bushels		% Yield with Farm Variety as 100	
			Station Var.	Farm Variety		
Polk to Wadena	N. W.	2	Ceres	31.5	Marquis 25.0	126.0
Swift to Jackson	S. W.	2	"	25.9	" 24.0	107.9
Polk to Wadena	N. W.	1	"	23.5	Mqillo. 27.8	84.5
Swift to Jackson	S. W.	1	"	30.3	" 27.5	110.2
Polk to Wadena	N. W.	1	"	15.8	Progress 15.7	107.5
Swift to Jackson	S. W.	1	"	24.7	V. Chaff 19.7	125.4
Scott to Houston	S. E.	1	"	15.4	Hope 15.4	100.0
Polk to Wadena	N. W.	2	Mqillo.	20.7	Marquis 15.7	131.8
Scott to Houston	S. W.	1	"	16.9	" 14.8	114.2
Polk to Wadena	N. W.	2	"	11.9	Ceres 14.1	84.4
" "	N. W.	1	"	11.5	Quality 12.4	92.7
" "	N. W.	1	"	13.2	Hope 16.0	113.8
" "	N. W.	1	"	3.7	Tex. Fife 3.1	119.3
Swift to Jackson	S. W.	1	"	25.2	V. Chaff 19.7	127.9

Table IV. Flax demonstration trials in which Redwing and Bison are compared with farm varieties by seeding a strip in the farmer's field - 1932.

Location	Group	No. comparisons	Yield in bushels		% Yield with Farm Variety as 100	
			Station var.	Farm var.		
Swift to Jackson	S. W.	2	Bison	10.2	Redwing 13.0	78.5
" "	S. W.	1	"	19.9	Buda 23.8	83.6
" "	S. W.	1	"	15.2	F. Var. 16.6	91.5
" "	S. W.	7	Redwing	17.0	Bison 17.3	98.2
" "	S. W.	3	"	13.9	Buda 13.4	102.7

VARIETAL DEMONSTRATIONS 1932

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Benton County</u>							
Barley							
Rahm Brothers	Glabron	14.2	42.3	F. Variety	13.3	42.0	
A.F. Koep	"	37.1	45.9	Velvet	21.9	43.7	
Jack Sparrow	Velvet	20.8	42.4	Manchuria	24.4	42.7	
Peter Brenny	"	33.3	43.3	Velvet	24.6	43.4	
John Kosloski	"	53.8	42.0	Glabron	57.4	44.1	
Oats							
Oscar Johnson	Anthony	64.7	31.3	Sw. Select	55.6	33.7	Some wheat
				Australian	58.9	33.1	
Clarence Johnson	"	45.4	32.6	Midseason	44.4	32.4	
				Australian	37.9	35.7	Some barley
Ted Haeg	"	64.0	33.8	Sw. Select	59.4	33.6	
Ernest Corrigan	Minrus	65.2	31.4	Silvermine	51.3	34.7	8% wheat
Julius Lotterell	"	52.7	31.7	Gopher	44.7	33.6	
Clarence Johnson	"	62.4	28.0	Midseason	47.8	32.8	
Rahm Brothers	Gopher	46.0	31.8	"	36.6	33.4	
Anthony Balder	"	69.3	33.4	"	50.5	30.7	
<u>Brown County</u>							
Barley							
Joe Deutsch	Glabron	44.2	48.0	Velvet	36.1	49.3	
Oscar Kratz	Velvet	40.1	48.5	Manchuria	39.6	46.1	
Frank Bruess	"	40.9	47.7	F. Variety	41.8	47.5	
Clem Bruess	"	22.1	45.2	Sm. Awn	31.3	48.1	Much wild oats
Tom Anderson				Velvet	41.0	49.1	
				Wis. Ped.	58.9	44.7	
John Faltis				Velvet	43.1	45.8	
				Wis. Ped.	43.1	43.8	
Oats							
Leonard Berberich	Minrus	52.2	33.7	Gr. Rus.	45.7	33.8	Some wheat
	"	48.8	33.6	Gopher	41.7	33.6	
Tom Anderson	"	75.3	31.8	"	58.0	35.4	
Henry Hanson	"	73.0	25.1	F. Variety	59.5	29.4	
Filbert Peterson	"	59.4	31.2	Kherson	55.4	34.1	
Oscar Kratz	Gopher	74.8	36.7	Lit. Yel.	74.3	32.9	
Henry Christenson	Iogold	61.5	35.1	Midseason	58.8	35.0	
Clarence Schultz	"	66.0	35.2	"	61.8	35.7	
Flax							
Ed. Schumacher	Bison	15.2	53.8	F. Variety	16.6	53.5	
A.M. Shellum	Redwing	17.3	54.3	Bison	20.6	53.6	



Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. Per Bu.	Remarks
<u>Chisago County</u>							
Barley							
Reuben Larson	Glabron	28.0	46.1	Trebi	29.6	40.8	
Oats							
Halstroff & Johnson	Anthony	66.3	30.5	Gopher	66.8	34.7	6% barley
Glyer Brothers	"	67.1	32.9	Victory	63.4	31.9	
Frank Abrahamson	Minrus	46.9	30.0	Sw. Select	33.1	32.6	
Nels Waxberg	"	75.1	31.5	" "	76.2	35.0	15% barley
Sexton Swenson	Gopher	52.1	32.4	Silvermine	46.5	29.6	
<u>Clearwater County</u>							
Barley							
Wm. Johnson	Glabron	23.6	43.6	Trebi	28.5	45.0	
V. Hedman	Velvet	40.3	45.6	F. Variety	32.3	46.0	
Oats							
Lyle Rotzien	Anthony	36.5	35.4	F. Variety	31.6	34.1	
<u>Cottonwood County</u>							
Barley							
Gregory Wegner	Glabron	29.8	47.4	Velvet	27.8	46.2	Grown on high land
	"	39.8	45.9	"	32.5	45.3	Grown on low land
A.W. Klaason	"	51.9	44.6	"	50.7	44.6	
Herman Schuelke	"	38.4	47.4	"	32.7	47.0	
A. Bright	Velvet	34.6	48.7	Salzer	39.4	47.5	
Oats							
J. P. King	Minrus	78.6	30.0	Lit. Yel.	56.4	32.1	
H.B. Allen & Son	"	71.5	29.7	F. Variety	63.9	30.4	
Henning Elg	"	57.1	30.4	Gr. Rus.	63.4	32.5	
E.J. Clark	Gopher	96.5	35.4	Gr. Rus.	72.8	31.7	
John Schwab	Iogold	87.6	35.3	Gopher	80.8	35.7	
Flax							
Gust Fredine	Redwing	10.7	53.0	Bison	15.7	53.5	About 2/3 of a stand of Redwing

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Dakota County</u>							
Barley							
W.D. Carroll	Glabron	50.0	48.6	Glabron	48.3	48.5	
Arthur Ackerson	"	36.2	48.5	Velvet	41.0	47.5	Some oats
				"	32.7	44.9	
Oats							
Arthur Ackerson	Minrus	78.0	31.0	S.Mine	68.8	31.9	
Theodore Volkert	"	81.7	32.3	F.Variety	57.4	30.1	
	Gopher	81.6	35.4				
Marbert Sorem	Minrus	83.7	32.0	Kherson	82.0	34.3	
	Gopher	95.4	35.8				
<u>Goodhue County</u>							
Barley							
Lloyd Nelson	Glabron	40.0	44.3				
	Velvet	34.5	44.8				
Oats							
Olaf Erstad	Minrus	73.2	28.1	Iowar	76.8	30.8	
George Burch	"	66.7	34.7	Gopher	62.4	37.8	
O. W. Bollum	Gopher	60.6	36.3	F.Variety	51.4	36.6	
Olaf Erstad	Gopher	74.7	31.4	Iowar	72.4	29.7	
<u>Hennepin County</u>							
Barley							
Hubert Kohnen	Glabron	49.9	47.0	Trebi	50.5	47.5	
Ivan Dorn	Velvet	52.3	45.2	Glabron	45.2	44.7	
Oats							
J.H. Klaers	Anthony	81.0	32.0	F.Variety	86.7	31.5	
Cornelius Gleason	"	102.6	28.5	"	64.8	32.1	25% wheat
Clem Schuller	Minrus	34.9	31.5	Copenhagen	27.5	39.4	50% barley
Fred Kettensacker	Gopher	76.8	31.7	F.Variety	50.5	32.3	Some wheat

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Houston County</u>							
Barley							
Thor Hegland	Glabron	32.4	44.1	Velvet	34.9	46.5	
Oats							
Thor Hegland	Minrus	61.1	32.8	Sw. Select	47.6	33.1	
Burtness Brothers	"	70.7	31.5	Gopher	68.8	34.2	
	Iogold	72.9	32.2				
S. & A. Nelson	Iogold	34.1	34.3	F. Variety	29.9	33.8	
A. N. Klug	Gopher	82.4	33.7	"	65.4	39.6	40% barley
<u>Hubbard County</u>							
Barley							
C. A. Hanson	Glabron	20.4	40.2	F. Variety	22.8	39.7	
John Luschen	Velvet	22.9	44.9	"	23.4	44.8	
John Avenson	"	25.9	43.8	Manchuria	20.8	37.0	
Oats							
E. E. Bonham	Anthony	30.8	28.0	Silvermine	26.7	27.6	
C. A. Hanson	"	45.2	32.6	Sw. Select	40.5	33.3	Some wheat
Dan Buss	"	33.2	28.0	Midseason	36.3	32.7	5% wheat. Anthony cut green
J. B. Johnson	Minrus	34.1	29.8	Sw. Select	26.3	30.2	Some wheat
Wheat							
Peter Ness	Ceres	15.8	57.1	Progress	14.7	58.2	
A. D. Reese	Marqullo.	3.7	53.0	Texas Five	3.1	54.0	Injured by drought
<u>Jackson County</u>							
Oats							
J. Albers	Minrus	73.1	32.1	Gopher	60.7	34.2	
J. N. Prokes	"	57.6	34.4	Rus. Green	56.9	35.4	Some wheat
Ole Larson	"	70.7	25.0				
	Iogold	71.0	28.6				
Flax							
J. N. Prokes	Redwing	23.5	53.7	Bison	25.0	53.2	
L. E. Thornberg	Bison	12.5	52.0	Redwing	18.4	52.3	

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Lincoln County</u>							
Barley							
L.F. Hempel	Glabron	44.7	47.1	Velvet	43.3	46.8	
Oats							
Hubert Tholen	Anthony	69.0	27.2	Rus.Green	58.4	26.7	Some wheat
J.J. Cittermann	Minrus	58.5	31.7	Sw.Select	46.1	33.5	
Bernhard Gehrts	"	49.7	23.2	Rainbow	52.1	32.1	
				Med. Yel.	39.4	23.1	
Wheat							
John Urbanski	Ceres	21.6	59.3	Marquis	20.3	58.0	
John Hanzlik	Marqullo.	16.9	56.5	"	14.8	55.6	
<u>Lyon County</u>							
Barley							
F.H. Morgan	Velvet	34.0	47.2	F.Variety	32.4	46.3	
Oats							
Ed. Supernaut	Gopher	36.8	34.2	F.Variety	26.8	37.4	10% wheat
Flax							
Wm. Lord	Redwing	15.8	53.4	Bison	15.9	52.3	
Ray Severson	"	22.0	53.6	"	20.3	53.1	
<u>Meeker County</u>							
Barley							
A.S. Albright	Glabron	30.4	47.7	Manchuria	30.0	49.1	
Oats							
Matt Friederichs	Anthony	57.0	31.7	Gopher	50.3	35.1	10% wheat. Anthony cut green
D.W. Albright	Minrus	73.8	30.5	Iowar	64.2	31.4	
Oscar Mortenson	"	94.6	23.8	Victory	70.3	25.2	
A.S. Albright	Gopher	57.0	36.4	Iowar	46.5	35.0	

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bu.	Remarks
<u>Mower County</u>							
Barley							
H.J. Lockwood	Glabron	44.7	47.1	Velvet	44.2	48.7	
Carlton Sayles	Velvet	44.8	45.9	Glabron	37.5	43.4	
Oats							
Carlton Sayles	Minrus	88.8	30.9				
	Iogold	75.8	33.6				
Studder Brothers	Minrus	72.0	30.8	Med. Yel.	53.7	32.7	Some barley
	Iogold	67.1	31.0				
	Gopher	74.8	31.8	Med. Yel.	57.2	32.4	Some barley
Wheat							
N.E. Fedson	Ceres	15.4	59.4	Hope	15.4	54.0	
<u>Nicollet County</u>							
Barley							
Elmo Olson	Glabron	35.3	47.6	Manchuria	36.8	48.2	
Walton Pell	Velvet	44.1	45.6	"	44.6	45.6	
W.D. LaFramboise	"	55.7	46.7	Velvet	52.8	47.5	
Oats							
Harry Hanson	Minrus	73.5	35.6	Sw. Select	65.6	36.1	Some wheat
Clarence Rodning	"	72.2	35.0	Iowar	66.4	37.6	Some wheat & barley
Bert Hanson	Gopher	86.9	37.6	Iowa 103	69.1	33.7	
C.S. Olson	"	71.8	35.9	Iowar	65.8	38.1	Some wheat
<u>Norman County</u>							
Barley							
Louis Visser	Velvet	45.7	41.0	Trebi	58.3	45.4	
Gust Erickson	"	29.5	43.9	Manchuria	26.4	42.3	
Oats							
Burnett Bergeson	Anthony	47.5	32.0	Gopher	50.9	36.6	Gopher 15% wheat
Gust Erickson	"	34.1	33.8	Wh. Rus.	19.0	29.1	Grasshopper injury
John Benesh	"	23.3	28.7	Gopher	23.7	34.8	Hail & Grasshopper injury. Anthony cut green
Jake Senzek	"	23.7	26.6	Lincoln	18.1	25.9	
W.A. Christensen	"	33.5	30.8	Minota	26.9	29.7	

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Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
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Norman County Con'd

Oats

Gust Erickson	Minrus	44.7	32.4	Wh. Rus.	17.1	30.3	
N.M. Nelson	"	116.2	32.2	Lit. Yel.	65.3	32.8	
Emil Wagner	Gopher	36.8	32.5	Minrus	30.3	26.5	
				Swenson	10.0	33.0	
Anthony	18.8	29.2	29.2	Victory	13.8	31.0	
				Lincoln	20.1	31.2	
Gopher	32.8	33.9	33.9	Gr. Rus.	19.2	30.7	
				Iowa 105	31.8	32.0	

Wheat

B.M. Foss	Marqullo.	18.0	56.7	Marquis	14.4	57.5	
Burnett Bergeson	"	16.8	57.4	Ceres	18.4	59.9	
	"	6.9	52.0	"	9.9	56.0	

Pipestone County

Barley

R.B. Hamilton	Glabron	61.9	45.7	Velvet	64.9	44.1	
Max Kroeger	"	26.0	33.7	Manchuria	19.7	29.4	
Roscoe Brothers	Velvet	21.0	42.1	Glabron	22.0	39.5	

Oats

Mr. Steel	Minrus	79.2	31.4	Gr. Rus.	71.5	30.4	
Henry Appeldorn	"	58.7	29.6	Gr. Rus	47.8	30.6	
Peter Statorau	Gopher	80.8	32.8	Med. Yel.	67.0	28.5	
Hans Baustian	Iogold	76.6	31.4	" "	58.2	30.0	

East Polk County

Barley

Joseph Anderson	Glabron	55.0	45.5	Velvet	56.2	44.4	
Leo Anderson	"	33.8	46.4	Trebi	46.1	43.2	
P. Norgaard	Velvet	52.9	45.9	Glabron	51.2	44.8	

Oats

Orvin Tangen	Anthony	44.5	37.1	S.Mine	46.0	36.1	
	Minrus	57.0	33.4				
Joseph Anderson	"	46.6	38.2	"	56.5	38.1	
Ervin Brinkman	Gopher	44.0	36.3				
	Anthony	71.2	37.5				

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Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
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East Polk County Con'd

Wheat

Lyle Roue	Ceres	28.1	60.4	Marquis	22.6	57.6	
Leonard Sovick	"	23.5	56.8	Marqullo.	27.8	60.5	
	Marqullo	21.1	58.4	"	20.7	58.8	
Ervin Brinkman	"	23.4	58.2	Marquis	17.0	60.3	

Flax

Orvin Tangen	Bison	13.4	53.0	Bison	11.0	53.0	
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West Polk County

Barley

Andrew Johnstad	Glabron	52.2	45.8	Velvet	54.3	45.7	
H.G. Pester	Velvet	23.0	42.2	Manchuria	23.4	42.6	
Strickler Bros.	Velvet	15.7	43.0	Glabron	13.4	43.0	
				Manchuria	12.6	42.0	

Oats

W.G. Hamerick	Anthony	20.3	29.8	Gr. Rus.	13.9	27.0	
James Geroux	"	40.6	31.6	Sw. Select	32.2	32.0	
O.G. Gust	Minrus	84.6	32.0	Anthony	84.0	35.3	

Wheat

W.T. Wentzel	Ceres	34.9	60.4	Marqullo.	27.4	58.5	
Frank Novak	Marqullo.	11.5	56.0	Quality	12.4	59.0	
Wm. Filipi	"	18.2	56.2	Hope	16.0	58.1	

Renville County

Barley

Joe O'Neil	Glabron	37.4	44.1	Manchuria	35.1	43.5	
Paul Hopman	"	40.5	45.3	Velvet	39.3	46.3	
S. Houdek	"	35.0	45.0	Manchuria	23.6	45.0	
Henry Horesji	Velvet	46.7	47.2	"	42.9	44.2	
Donald Kienholz	"	46.6	43.5	Glabron	37.6	40.7	

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Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
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Renville County Con'd

Oats

W. Kuske	Anthony	48.6	26.6	S. Mine	31.3	27.5	
F. Abraham	"	67.0	32.1	Minrus	68.9	31.5	
Donald Kienholz	Minrus	73.0	30.5	Gr. Rus.	57.2	28.9	
R. Bombeck	"	79.4	30.9	Gopher	80.0	35.0	
Wm. Ristow	"	68.6	31.7	Gr. Rus.	56.6	30.5	
P. Hopman	"	65.8	29.2	"	69.0	27.2	
Henry Horesji	"	52.8	30.2	"	48.5	31.9	
				Gopher	47.9	32.3	
A. Draheim	"	90.1	33.3	F. Variety	77.3	34.5	

Wheat

H. Horesji	Ceres	24.7	60.7	Velvet			
				chaff	19.7	59.1	
	Marqullo.	25.2	57.3				

Flax

H. Horesji	Redwing	13.3	54.0	Buda	15.3	53.1	
D. Frank	"	18.3	54.6	"	16.2	53.8	
B. Zetah	"	9.4	54.5	Bison	11.0	52.0	
S. Houdek	"	20.6	54.8	"	18.8	53.1	

Rice County

Oats

Tom West	Minrus	64.2	31.9	Gopher	69.0	37.5	
Leslie Young	"	50.8	33.7	Iogold	48.5	37.4	Some barley
Bohumil Simon	"	99.3	33.4	Gopher	106.1	37.8	
Lawrence Weinberger	Gopher	69.2	33.7	Iowa 105	43.8	35.1	
Arnold Wilkowske	Iogold	89.6	34.9	" "	68.6	36.1	Some wht. & bly.

Rock County

Oats

J. Christensen	Minrus	78.6	31.1	Gopher	73.1	36.6	
John Gibson	"	63.1	32.3	Gopher	64.0	32.8	
Wm. Perkins	"	61.3	29.4	Gr. Rus.	49.3	28.8	
" "	Gopher	66.2	33.0	" "	50.6	28.7	
L. E. Rasey	"	64.0	33.8	Iowar	59.7	36.6	
J. Christensen	Iogold	80.9	34.4	Gopher	71.8	37.8	

Flax

Wm. G. Perkins	Bison	19.9	53.7	Buda	23.8	54.1	
	Redwing	25.2	54.6				



Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
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St. Louis County

Barley

Gust Mehling	Glabron	49.6	41.6	Odebrucker	33.6	42.1	
Louis Hedin	Velvet	40.4	41.0	Manchuria	42.2	41.5	
George Clark	"	36.3	48.7	F.Variety	43.8	42.1	
Herman Moberg	"	72.2	43.7	2 & 6 row mixed	63.5	43.3	
C. Johnson				Sm. Awn	28.7	36.8	
Axel Anderson	Velvet	55.9	44.7	Manchuria	52.2	45.2	

Oats

Springhill Dairy	Anthony	41.0	32.8	Sw. Select	34.4	33.4	
Ed. Randall	"	68.8	34.3	" "	35.7	29.5	
Roy Wiles	"	56.1	31.1	" "	43.4	29.3	
Carl Abrahamson	"	96.8	35.2	Gopher	67.0	30.4	
Andrew Knutson	"	69.0	31.5	S. Mine	61.5	30.7	
Albert Mehling	"	43.5	27.6	F.Variety	31.6	25.2	
Ernest Slack	Minrus	82.2	29.3	Sw. Select	67.2	29.0	
Victor Nelson	"	56.2	31.5	Anthony	51.7	35.0	
Gust Mehling	"	54.6	30.0	"	36.5	30.8	Anthony smutty
Victor Carlson	Gopher	66.0	32.5	"	58.7	34.2	
Clifford Jacobson	"	48.6	31.1	F.Variety	47.2	30.3	
Henry Oinonen	"	64.5	31.5				

Scott County

Barley

Arthur Schlegel	Glabron	50.9	46.4	Velvet	50.6	46.5	
W.W. Weber	"	55.2	48.5	"	57.4	47.8	
Henry Mamer	Velvet	48.7	46.8	F.Variety	51.3	47.2	
George Huber	"	45.0	42.7	"	44.1	44.6	
Elmer Boettcher	"	48.6	48.4	Odebrucher	50.7	47.5	

Oats

Walter Huber	Minrus	56.9	31.7	Sw. Select	32.6	34.2	Sw. Sel. very smutty
Bieder Brothers	"	106.9	30.2	Anthony	83.7	30.6	
Chris Pierson	"	50.2	31.3	Gopher	44.1	33.2	
Thomas McDevitt	Gopher	73.3	31.7	Ea. var. Swenson	63.4	32.3	Some wheat
					47.3	36.1	

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Sherburne County</u>							
Oats							
J. E. Hibbard	Anthony	26.2	34.1	S. Mine	23.5	35.1	Some wheat
Emil Lieder	"	36.7	33.1	F. Variety	27.5	35.1	10% wheat
Ray Swanson	Minrus	27.4	30.0	"	23.3	34.4	
A. H. Moses	"	21.0	30.9	"	18.1	32.3	12% wheat
Wm. Carlin	"	17.6	34.2	Anthony	18.3	35.1	
Nels Epsen	Gopher	20.8	26.3	Kherson	16.3	24.1	
<u>Steele County</u>							
Barley							
Mark Markson	Glabron	38.9	43.6	Velvet	37.2	46.4	
Oats							
Ed Anderson	Minrus	52.2	25.1	Kherson	51.4	28.9	8% barley
Jay Spinler	"	28.6	32.3	Iowar	28.8	33.2	Some barley
Walter Dunn	"	54.2	30.8	Iowa 103	49.6	30.7	
J. B. Mollenhauer	Gopher	72.5	32.1	Kherson	56.8	30.1	
M. V. Ellerman	Iogold	69.1	34.8	Kherson	59.5	35.6	
<u>Swift County</u>							
Barley							
Herbert Opp	Velvet	45.0	45.0	Glabron	45.2	46.4	
Russell Crosby	"	43.5	49.1	F. Variety	32.6	48.4	
Oats							
Kenneth Gjendahl	Anthony	17.5	34.9	Enock Swen- son	13.7	33.0	Some wheat
Joseph Gunderson	Gopher	44.5	36.9	Rus. Green	43.3	38.0	4% wheat
Wheat							
Raymond Banken	Ceres	22.1	61.1	Mixed Durum & bread wnt.	16.5	58.1	

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Wadena County</u>							
Barley							
Martin Henry	Velvet	11.0	44.0	Glabron	10.9	43.0	
Oats							
Herman Fischer	Anthony	14.9	37.1	Midsea. Yel.	16.7	34.1	Grasshopper injury
Fred Mauer	Minrus	32.5	27.3	Gopher	33.1	29.4	
S.H. Oyster	"	41.1	37.0	"	40.7	32.5	Little wheat
Peter Westra	"	47.8	32.2	Med. Yel.	40.1	32.9	
E. I. Stone	Gopher	22.8	33.3	Minrus	20.4	32.2	
<u>Washington County</u>							
Barley							
Wm. Minogue	Velvet	38.8	45.1	Glabron	46.9	45.9	
E.A. Heifort	"	15.5	42.7	Odebrucher	14.7	42.3	
Albert Kiesow	"	35.8	43.3	F.Variety	35.6	44.5	
Peter J. Elko	"	36.2	46.3	"	42.9	46.1	
Oats							
Orlo Enerson	Minrus	41.1	35.7	Sw. Select	29.0	35.5	
Edw. J. Swanson	"	48.7	34.5	S. Mine	48.7	36.1	
Geo. Cutler	"	75.4	34.7	Victory	60.6	33.4	6% wheat
Martin Eberhard	Gopher	75.8	38.5	F.Variety	61.8	34.0	
Louis Benson	"	68.2	37.4	S. Mine	59.6	33.4	
<u>Watsonwan County</u>							
Barley							
Erdman Stoesz	Velvet			F.Variety	24.1	45.7	
Oats							
Arvin Karbo	Minrus	52.6	35.2	S. Mine	39.8	36.3	
Kenneth Haseman	"	61.0	33.3	Rus. Gr.	83.4	34.6	
Elliot Moody	"	69.6	32.4	" "	50.4	32.8	
Clarence Haseman				Rus. Gr.	44.0	30.9	
				Gopher	38.4	30.0	
Erdman Stoesz	Gopher	80.4	34.3	Gr. Rus.	58.4	31.9	
August Peterson	Logold	60.0	36.8	Gopher	56.8	37.7	
Flax							
August Peterson	Bison	7.9	52.5	Redwing	7.5	53.5	
Penner Brothers	Redwing	10.4	53.0	Eison	10.2	52.0	

Farmer's Name	Station Variety	Bu. per Acre	Wt. per Bushel	Farm Variety	Bu. per Acre	Wt. per Bushel	Remarks
<u>Winona County</u>							
Barley							
Emil Antonson	Glabron	37.2	47.6				
Ed Luehman	Velvet	50.2	45.6	Manchuria	45.6	46.2	
Oats							
C.H. Mueller	Minrus	54.7	32.3	Late oats	43.9	34.1	5% barley
Charles Perry	"	60.6	31.5	" "	49.0	32.3	
<u>Yellow Medicine County</u>							
Oats							
Tom Dagel	Minrus	64.9	32.5	Gopher	59.6	35.6	
Wheat							
Frank Brown	Ceres	30.3	59.5	Marquis	27.7	58.6	
				Marqullo.	27.5	57.8	