

## **OAT TRIALS - 1955**

Experiments with oats at the Dickinson Experiment Station in 1955 included field plot trials of seventeen varieties and selections, the North Central Uniform Oat Nursery of forty entries, the Dickinson Station Oat Nursery of twenty four entries and an F-5 Oat Nursery of twenty five selections.

### **OAT VARIETY TRIALS**

Yields in this years oat variety trial were higher than for any year since 1948. Highest yielding variety was Gopher which averaged 78.8 bushels per acre followed by Branch at 77.8 bushels per acre. Lowest yield was from Andrew, an average of 57.4 bushels per acre. Some oat stem rust was present again this year and undoubtedly depressed the yields of Palomino and Clarion, the two varieties which were carrying the worst infection.

Data from this years oat varietal trial are given in [Table 19](#). Comparative yield data on the oat varietal trials for the past ten years are summarized in [Table 20](#).

### **OAT NURSERY TRIALS**

In the 1955 planting of the North Central Uniform Oat Nursery at Dickinson the five highest yielding entries were: Clinton x Landhafer, C.I. 5864; Clinton x Ukraine, C.I. 6537; Clinton x (Boone-Cartier), C.I. 6668; Simcoe, C.I. 6767; and Clinton x Ukraine, C.I. 6608. Average yields for all five of the above listed high yielders was above 82.0 bushels per acre.


[Table 21](#) summarizes the data from the 1955 North Central Uniform Nursery at Dickinson.

Highest yielding entries in the Dickinson Station Nursery in 1955 were: Forward<sup>2</sup> x (Victoria-Richland), C.I. 6938;

Anthony x Morota, C.I. 4267; Beaver, C.I. 4521; and Aberdeen 2437.

There were no outstanding yields recorded from the 1955 F-5 oat nursery.

Data from the Dickinson Station Oat Nursery and the F-5 Oat nursery are summarized in Tables [22](#) and [23](#) respectively.

Table 19 - Agronomic Data from Oats Variety Trials - 1955												
Date Seeded - 4-18; Date Emerged - 5-5; Rate - 1  bpa; Plot Size - 1/66 acre												
Description	C.I or N. No.	Yield - Bu. per acre				Av.	Test Wt.	Dates		Ht. In.	Stem Rust	Rank
		1	2	3	4			1st Head	Ripe			
Andrew	4170	56.7	55.5	57.7	59.7	57.4	41.0	6-21	7-30	34	T	17
Sac x Hajira-Joanette	5927	70.0	63.9	61.8	64.9	65.2	40.5	6-20	7-25	30	0	9
Mo. 0-205	4988	70.0	59.7	65.9	65.9	65.4	39.5	6-22	7-26	36	T	8
Clarion	5647	76.2	53.6	57.7	58.7	61.2	41.0	6-22	7-26	31	35	14
Waubay	5440	76.2	53.6	58.7	62.8	62.8	39.0	6-22	7-27	34	T	11
Marion	3247	90.6	57.7	61.8	72.1	70.6	36.0	6-22	7-27	38	T	6
Palomino	5636	72.1	52.5	55.6	65.9	61.5	33.5	6-22	7-27	36	50	13
Gopher	2027	96.8	70.0	72.1	76.2	78.8	35.0	6-22	7-27	36	25	1
Ajax	4157	82.4	56.7	61.8	65.9	66.7	33.0	6-26	7-27	36	T	7
Fortune	5226	60.8	53.6	55.6	65.9	59.0	35.0	6-25	8-1	38	T	16
Rainbow	2345	82.4	52.5	55.6	57.7	62.1	32.5	6-29	8-1	38	T	12

Branch	5013	105.1	63.9	61.8	80.3	77.8	34.5	6-30	8-1	36	T	2
Garry Selection	6648	91.7	61.8	61.8	71.1	71.6	32.5	6-29	8-1	40	0	3
Rodney	6661	84.5	63.9	61.8	74.2	71.1	34.5	6-29	8-1	38	0	4
Overland	4181	76.2	65.9	61.8	78.3	70.6	37.5	6-26	8-1	32	0	5
Cody	3916	68.0	60.8	59.7	70.0	64.6	33.0	6-30	8-1	31	0	10
Marida	2571	63.9	57.7	55.6	64.9	60.5	33.0	6-30	8-1	38	15	15

**Table 20 - Comparative Yields Oat Varietal Trials - 1946-1955 With Averages since 1946**

Variety	Yields in Bushels per Acre										Averages								
	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1954 to 1955	1953 to 1955	1952 to 1955	1951 to 1955	1950 to 1955	1949 to 1955	1948 to 1955	1947 to 1955	1946 to 1955
Gopher	45.6	63.3	93.6	21.4	43.3	69.8	28.5	56.7	28.7	78.8	53.8	54.7	48.2	52.5	51.0	46.7	52.6	53.8	53.0
Marion	47.7	65.7	92.0	22.9	42.3	61.8	29.6	66.7	28.9	70.6	49.8	55.4	49.0	51.5	50.0	46.1	51.9	53.4	52.8
Ajax	55.5	63.6	92.8	22.5	45.1	60.9	32.2	63.1	28.6	66.7	47.7	52.8	47.7	50.3	49.4	45.6	51.5	52.8	53.1
Andrew				19.8	40.7	59.8	22.7	63.6	30.4	57.4	43.9	50.5	43.5	46.8	45.8	42.1			
Palomino					56.7	69.4	30.1	57.9	30.4	61.5	46.0	49.9	45.0	49.9	51.0				
Clarion							26.8	60.3	30.3	61.2	45.8	50.6	44.7						
Waubay							31.0	68.5	29.3	62.8	46.1	53.5	47.9						

Rainbow	54.9	64.2	91.5	23.5	37.9	51.1	33.2	58.2	28.2	62.1	45.2	49.5	45.4	46.6	45.1	42.0	48.2	50.0	50.5
Marida	54.4	55.6	109.0	17.7	36.3	53.4	38.4	46.9	31.7	60.5	46.1	46.4	44.4	46.2	44.5	40.7	49.2	49.9	50.4
Overland						53.1	30.4	64.4	32.8	70.6	51.7	55.9	49.6	50.3					
Cody						64.5	39.8	63.2	30.2	64.6	47.4	52.7	49.5	52.5					
Fortune							35.3	65.7	31.3	59.0	45.2	52.0	47.8						
Mo-0-205									30.4	65.4	47.9								
Rodney									26.2	71.1	48.7								
Garry Selection									27.8	71.6	49.7								
Branch									26.8	77.8	52.3								

Table 21 - Agronomic Data from the North Central Uniform Oat Nursery - 1955										
Date Seeded - 4-15; Date Emerged - 5-1; Rate - 6 pecks; Plot Size - 1' x 16'										
Description	C.I. No	Yield - Bu. per acre				Test Wt.	Dates		Ht. In.	Stem Rust
		1	2	3	Av.		1st Head	Ripe		
Andrew	4170	84.0	68.4	52.0	68.1	37.0	6-21	8-1	32	0
Andrew x Clinton	5966	74.0	94.4	75.6	81.3	35.5	29	1	37	0
Beacon x Haw keye-Victoria	6752	61.2	70.0	50.0	60.4	37.0	25	7-29	33	T

Bentland	6930	58.4	56.0	44.0	52.8	35.5	23	29	36	25
Benton x Marion	6928	62.8	60.4	56.4	59.9	36.0	21	29	38	40
Do	6929	70.0	70.0	62.8	67.6	36.5	22	29	39	15
(Bond-Rainbow x H-J) x Landhafer	6913	61.6	56.0	58.4	58.7	36.5	19	30	34	T
(Boone-Cartier) x Clinton	6927	58.4	59.6	55.6	57.9	36.0	19	30	37	25
Clarion	5647	60.8	86.4	74.8	74.0	37.0	22	30	38	T
Clintland	6701	58.8	58.0	60.0	58.9	37.0	21	30	36	40
Clinton 59	4259	66.0	61.8	67.6	65.1	37.5	21	30	36	40
Clinton <sup>2</sup> x Ark 674	6644	61.0	61.0	62.0	61.3	35.5	21	30	36	40
Clinton x (Boone-Cartier)	6668	76.0	91.6	82.4	83.3	35.0	27	8-1	40	0
Do	6933	67.2	70.0	60.4	65.9	39.5	22	7-29	40	0
Clinton x Landhafer	5864	87.6	94.6	85.6	89.3	38.0	21	8-1	41	0
Clinton x [Victory x (Victoria x H-B)]	7030	60.0	58.4	56.0	58.1	37.5	21	7-29	36	0
Do	7020	70.0	78.0	74.0	74.0	36.0	21	29	34	0
Clinton x Ukraine	6537	86.0	84.8	82.8	84.5	37.5	21	8-1	40	0
Do	6008	79.6	86.0	80.8	82.1	38.0	21	1	39	T
D69-Bond x (Vict-Rich x Bannock)	7117	58.0	46.8	50.4	51.7	37.0	21	7-29	34	0
Gopher	2027	70.0	91.2	73.2	78.1	36.0	25	7-29	36	T
Jackson	5441	88.0	89.6	48.4	75.3	39.5	25	29	38	T
Landhafer x (Mindo x H. J.) x	6878	76.0	77.2	64.0	72.4	35.5	19	8-1	36	0

Andrew										
Do	7083	82.0	86.4	64.0	77.5	36.0	21	7-29	32	T
Do	7084	79.6	83.6	74.8	79.3	37.5	22	29	32	0
Do	6936	70.4	44.4	56.0	56.9	36.5	23	29	32	0
Landhafer x (Mindo x H. J.) x Clinton	6935	84.0	93.2	63.2	80.1	33.0	26	8-1	35	0
Marion x D69-Bond	7116	96.0	94.0	54.8	81.6	35.5	23	1	34	0
Minland	6765	66.0	67.6	45.2	59.6	33.0	19	1	34	0
Mo. 0-205	4988	75.2	82.8	58.4	72.1	37.0	23	1	35	0
Nemaha x (Clinton x Boone-Cartier)	6934	74.8	68.0	58.0	66.9	38.0	24	7-30	33	0
New ton	6642	64.0	52.8	46.0	54.3	37.0	21	29	28	0
Rox x (Vic x H-B) x Aj x (Vic x H.B.)	5961	87.2	94.4	52.8	78.1	37.0	24	29	34	0
Do	5962	80.4	91.2	63.2	78.3	37.0	24	30	37	0
Ransom	5927	67.2	70.0	53.2	63.5	36.5	21	8-1	33	0
Sauk	5946	90.4	80.0	67.2	79.2	36.0	27	1	38	0
Simcoe	6767	94.0	87.2	69.2	83.5	36.0	25	1	39	0
Vicland x (Br. x Clinton <sup>2</sup> SF)	6916	60.0	58.0	51.6	56.5	37.0	21	7-30	31	0
(Victoria x H-B) x Spooner	6939	84.8	84.0	76.4	81.7	38.0	25	8-1	40	0
Waubay	5440	74.0	74.0	74.4	74.1	37.5	23	7-30	39	T

**Table 22 - Agronomic Data from the Station Oat Nursery - 1955**

Date Seeded - 4-18; Date Emerged - 5-2; Rate - 6 pecks; Plot Size - 3' x 16'

Description	CI No	Yield - Bu. per acre				Test Wt.	Dates		Ht. In.	Stem Rust
		1	2	3	Av.		1st Head	Ripe		
Ajax	4157	52.0	60.0	63.0	58.5	36.0	6-24	8-1	36	0
Exeter	---	50.8	60.0	66.0	58.9	32.0	29	1	40	0
Gopher	2027	55.2	50.0	64.0	56.4	36.5	25	2	39	15
Marida	2571	60.4	58.0	57.6	58.7	32.5	29	3	45	25
Mission	---	64.8	45.6	63.6	58.0	35.0	28	1	43	25
Shelby	4372	44.0	53.6	63.6	53.7	36.0	25	2	38	25
Andrew	4170	54.8	58.0	74.8	62.5	36.5	21	2	37	T
Huron	3756	58.4	48.4	59.6	55.5	37.5	25	1	41	25
Overland	4181	57.6	62.8	57.2	59.2	36.5	26	2	37	15
Beaver	4521	98.0	72.0	65.2	78.4	33.5	26	2	41	T
Palomino	5636	65.2	55.6	75.2	65.3	38.5	25	2	39	25
Cody	3916	76.4	58.4	70.8	68.5	32.0	28	2	39	15
Lasalle	5628	70.8	62.8	60.0	64.5	35.5	21	7-28	28	50
Andrew x Clinton	5967	60.4	59.6	83.6	67.9	36.5	24	8-1	34	25
Anthony x Morota	4267	80.0	70.4	90.0	80.1	31.5	29	1	42	T
Ab 2435	---	66.0	68.0	72.0	68.7	37.0	25	1	39	0

Ab 2437	---	76.4	63.2	85.6	75.1	34.5	27	1	43	0
Ab 2438	---	62.8	59.6	65.2	62.5	35.5	25	2	45	0
Ab 2439	---	66.0	54.8	63.2	61.3	35.5	25	1	42	0
Fw d <sup>2</sup> x Vict-Rich	6938	94.4	73.2	83.2	83.6	35.0	30	1	43	0
Clint x Boone-Cartier	5940	54.8	55.2	76.8	62.3	35.0	26	2	39	0
Rodney	6661	54.8	70.0	78.8	67.9	36.0	22	7-28	35	50
Garry	6662	66.8	70.0	84.8	73.9	34.5	27	8-2	40	T
Waubay	5440	58.4	58.8	64.8	60.7	37.5	23	1	38	T

**Table 23 - Agronomic Data from the F-5 Oat Nursery - 1955**

Date Seeded - 4-18; Date Emerged - 5-2; Rate - 6 pecks; Plot Size - 1' x 16'

Description	Yield - Bu. per acre				Test Wt.	Dates		Ht. In.	Stem Rust	1954 Ab. no
	1	2	3	Av.		1st Head	Ripe			
Waubay x (Bonda x H-J x SF)	58.0	50.4	62.0	56.8	35.5	6-26	7-30	37	0	2679
Do	74.0	50.4	67.6	64.0	37.0	25	30	37	0	2681
Do	66.4	64.8	57.6	62.9	36.0	30	8-1	39	0	2690
Do	78.8	57.2	77.6	71.2	33.0	26	1	39	0	2692
Do	82.0	58.0	65.6	68.5	31.5	29	1	36	0	2693
Osage (C.I. 3991)	84.4	59.2	76.8	73.5	35.0	20	7-30	30	0	check



Clarion x (Bonda x H-J x SF)	50.0	44.0	48.4	47.5	36.0	20	30	33	0	2708
Do	77.2	50.0	53.6	60.3	36.0	25	8-1	37	0	2726
(Bonda x H-J x SF) x Marion	75.2	52.0	65.2	64.1	34.0	25	1	39	0	2733
Do	76.0	52.0	62.8	63.6	37.5	25	7-30	36	0	2748
Do	73.6	57.6	51.6	60.9	34.5	26	30	41	0	2755
Do	74.0	63.6	58.4	65.3	34.5	26	8-1	39	0	2758
Do	66.0	65.2	54.4	61.9	31.5	29	1	41	0	2769
Do	85.2	72.8	51.2	69.7	35.0	25	1	37	0	2780
Do	72.0	67.6	56.0	65.2	35.5	23	1	36	0	2781
Do	66.4	61.6	61.6	63.2	33.0	29	1	38	0	2783
Do	54.0	74.0	55.2	61.1	33.0	29	1	36	0	2784
Do	60.8	73.2	59.6	64.5	34.0	25	1	36	0	2785
Do	50.8	74.8	46.8	67.5	34.0	25	1	36	0	2789
Do	46.8	80.0	57.2	61.3	34.0	29	1	35	0	2791
Do	46.0	72.4	59.6	59.3	33.5	29	4	35	0	2795
Do	56.8	71.2	70.0	66.0	36.0	21	7-29	31	0	2796
Do	50.8	80.8	65.2	65.6	35.0	29	8-1	33	0	2797
Palomino (CI 5636)	70.0	53.6	69.6	64.4	35.0	23	7-30	31	T	check

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