

Experiments with Oats - 1960

Experiments with oats at the Dickinson Station in 1960 included a field plot trial of 13 varieties, the North Central States Uniform Oat nursery and a special nursery of material sent by Mr. F. A. Coffman, Senior Agronomist, Oat Investigation, U.S.D.A.

Field Plot Trials

Andrew, Gopher, Sauk, and Marion were high yielders in this years' trial at the Dickinson Station. These varieties are also among the highest yielders for the past six years. Data from the oat variety trial are given in Tables 27 and 28.

Nursery Trials

Data from the two oat nurseries are summarized in Tables 29 and 30.

Table 27. Agronomic data from the Oat Variety Trial - 1960									
Description	Yield in Bushels Per Acre					Test Wt.	Dates		Height Inches
	1	2	3	4	Av.		Head	Ripe	
Andrew	61.6	63.9	60.2	56.7	60.6	32.0	6-21	7-21	31
Ransom	47.0	50.7	51.1	48.2	49.3	37.0	19	21	28
Minhafer	36.3	43.1	39.6	42.8	40.5	41.0	20	21	35
Clintland 60	40.4	42.6	41.8	43.3	42.0	36.0	20	21	30

Burnett	47.4	44.9	41.8	41.6	43.9	35.5	21	21	31
Ajax	49.9	48.4	52.7	54.6	51.4	34.5	26	23	34
Gopher	59.3	56.2	60.8	61.8	59.5	35.5	21	22	29
Mo. 0-205	52.9	52.7	56.7	52.1	53.6	36.0	20	22	28
Rodney	51.5	51.5	56.7	52.3	53.0	34.0	27	24	32
Garry	48.6	50.9	56.7	51.1	51.8	33.0	27	24	32
Sauk	54.8	56.0	63.2	61.0	58.8	34.5	25	23	32
Marion	46.4	54.2	60.2	55.6	54.1	35.5	21	25	35
Vicar Hulless ¹	37.7	37.7	37.4	37.1	37.5	42.5	30	21	32

¹Adjusted for absence of hull. Estimated 30%, Std. error % 5.5 LSD @ 5% 3.9 bushels, Seeded April 15, 1960 on Summer Fallow, Fertilized at 50 Lbs. Per Acre 11-48-0

Description	Yields in Bushels Per Acre						Averages	
	1955	1956	1957	1958	1959	1960	'55-'60	'58-'60
Andrew	57.4	33.3	61.8	72.9	33.2	60.6	53.2	55.6
Ransom	65.2	25.2	55.6	63.8	34.2	49.3	48.9	49.1
Ajax	66.7	21.4	74.4	63.3	32.5	51.4	51.6	49.1
Gopher	78.8	21.4	75.9	80.4	35.9	59.5	58.7	58.6

Mo. 0-205	65.4	24.7	75.2	67.5	35.8	53.6	53.7	52.3
Rodney	71.1	22.5	63.9	64.3	39.8	53.0	52.4	52.4
Garry	71.6	19.5	61.3	64.9	37.2	51.8	51.1	51.3
Marion	70.6	20.3	78.8	65.6	33.2	54.1	53.8	51.0
Sauk		23.0	77.0	68.5	38.1	58.8		55.1
Minhafer			63.4	63.6	26.8	40.5		43.6
Burnett			77.3	63.2	28.7	43.9		44.9
Vicar Hulless ¹				68.0	41.4	37.5		49.0

¹Adjusted for absence of hull. Estimated 30%

1960 No.	C.I. No.	Yield-Bu. Per Acre				Test Wt.	Ht.	Dates	
		1	2	3	Av.			Head	Ripe
1	7551	72.0	63.2	52.0	62.4	32.0	30	7-3	7-29
2	7449	50.0	54.8	52.4	52.4	33.0	24	6-21	22
3	7552	56.4	60.0	43.6	53.3	34.0	24	21	22
4	7553	48.0	46.8	56.8	50.5	35.0	23	19	21
5	4170	57.6	75.2	56.0	62.9	34.0	24	22	24

6	7554	70.8	74.8	54.0	66.5	34.0	24	22	23
7	7399	66.0	57.2	52.4	58.5	32.5	23	21	22
8	7234	60.8	54.4	52.8	56.0	35.0	24	21	22
9	7462	65.6	50.8	48.4	54.9	35.0	24	21	22
10	7452	52.4	66.0	49.6	56.0	35.0	23	21	22
11	7451	61.6	59.6	55.6	58.9	35.0	24	21	21
12	7457	67.6	60.0	50.0	59.2	35.0	24	21	21
13	7555	45.6	55.2	49.6	50.1	35.0	24	21	21
14	7269	58.4	56.8	43.2	52.8	33.5	25	24	22
15	7377	60.8	51.6	44.4	52.3	33.5	28	26	25
16	7379	73.2	56.4	39.6	56.4	32.0	28	26	25
17	7453	54.8	54.8	43.2	50.9	31.0	23	24	24
18	4259	72.4	62.4	37.6	57.5	29.5	23	24	24
19	7463	35.6	56.4	39.6	43.9	35.5	20	21	21
20	7461	61.2	58.0	51.6	56.9	32.0	26	25	25
21	7337	49.6	49.6	38.4	45.9	33.5	20	21	21
22	7556	62.8	54.8	57.2	58.3	33.5	23	21	21
23	7454	56.0	52.4	59.6	56.0	33.0	24	21	21
24	7272	54.8	43.2	48.8	48.9	34.5	25	26	25
25	6662	54.4	50.4	46.0	50.3	29.5	25	30	7-1

26	7471	61.6	54.0	50.4	55.3	33.0	28	29	1
27	7472	62.0	44.4	45.6	50.7	32.0	28	29	1
28	7473	70.4	46.8	41.2	52.8	34.0	26	29	1
29	7557	70.4	42.0	49.2	53.9	31.0	28	29	1
30	2027	62.0	42.8	41.2	48.7	33.5	24	23	6-21
31	7271	48.8	42.0	40.8	43.9	32.0	24	25	24
32	7467	64.4	50.0	43.2	52.5	33.5	21	22	22
33	7558	53.6	33.2	42.4	43.1	34.0	23	21	21
34	7559	40.0	30.8	35.6	35.5	34.0	23	21	21
35	7560	57.2	44.4	54.0	51.9	36.0	23	23	21
36	7466	38.0	41.2	52.8	44.0	36.0	24	21	21
37	7458	84.4	60.4	65.6	70.1	28.0	27	30	29
38	7531	51.6	44.8	42.8	46.4	31.5	18	20	20
39	7561	78.0	50.8	72.4	67.1	30.5	26	29	29
40	7455	52.8	57.6	42.0	50.8	33.5	23	23	22
41	7464	59.2	55.6	48.0	54.3	34.5	24	21	21
42	7336	58.0	54.8	55.2	56.0	35.0	24	22	21
43	7447	52.4	48.4	48.0	49.6	32.5	22	21	21
44	7448	56.8	40.8	48.8	48.8	34.0	23	21	21

45	7562	58.8	48.8	54.4	54.0	34.5	25	24	23
Seeded April 21, 1960									

Description of material included in the 1960 North Central States Uniform Oat Yield Nursery	
C.I. No.	Variety or Cross
7551	Ajax x [Ajax x (Garry x Rawkeye-Victoria)]
7449	Ajax x Ransom
7552	Ajax x Ransom
7553	Ajax x Ransom
4170	Andrew: Bond x Rainbow (ck)
7554	(Beaver x Garry-Clinton) x Clintland
7399	[(Bond-Rainbow x Hajira-Joanette) x Landhafer] x Andrew ³
7234	Clintland 60: Clintland ² x [(Clinton 59 ⁷ x Landhafer) ⁴ x (Clinton-Boone-Cartier x R. L. 2105)]
7462	Clintland 60 ² x Mo. 0-205
7452	Clintland Irradiated Selection
7451	Clintland ⁵ x [Landhafer x (Mindó x Hajira-Joanette)] x Andrew
7457	Clintland ⁵ x [Landhafer x (Mindó x Hajira-Joanette)] x Andrew
7555	Clintland ⁸ x [Victoria x (Hajira-Banner)] x (Victory x Hajira) x Roxton

7269	Clintland x (Garry x Hawkeye-Victoria)
7377	Clintland x (Garry x Hawkeye-Victoria)
7379	Clintland x (Garry x Hawkeye-Victoria)
7453	Clintland x (Garry x Hawkeye-Victoria)
4259	Clinton 59: D69 x Bond (ck)
7463	Clinton 59 ⁷ -Landhafer x Milford
7461	Clinton 59 ⁶ -Landhafer x [Victoria x Hajira-Banner] x [(Victory x Hajira) x Roxton]
7337	Clinton 59 ⁶ -Landhafer x [Victoria x Hajira-Banner] x [(Victory x Hajira) x Roxton]
7556	Clinton x Garry
7454	Clinton x [(Victoria x Hajira-Banner) x Victory]
7272	Columbia-Marion x [(Victoria x Hajira-Banner) x (Victoria x Hajira-Ajax)]
6662	Garry: Victory x (Victoria x Hajira-Banner) (ck)
7471	[Garry x (Santa Fe x R.L. 1942)] x R.L. 2228
7472	[Garry x (Santa Fe x R.L. 1942)] x R.L. 2228
7473	[Garry x (Santa Fe x R.L. 1942)] x R.L. 2228
7557	(Garry-Ukraine) x Abegweit ²
2027	Gopher: Sixty-Day Selection (ck)
7271	[Landhafer x (Mindo x Hajira-Joanette)] x Andrew
7467	[Landhafer x (Mindo x Hajira-Joanette)] x Andrew x Clintland

7558	[Landhafer x (Mindó x Hajira-Joanette)] x Andrew x [Roxton x R.L. 1276] x (Ajax x R.L. 1276)
7559	Minton x (Beacon x Hawkeye-Victoria)
7560	Minton x (Beacon x Hawkeye-Victoria)
7466	Mo. 0-205 x (Clinton 59 ⁷ - Landhafer) ³ x [(Clinton x Boone-Cartier) x R.L. 2105]
7458	Oneida: Goldwin x (Victoria-Rainbow)
7531	Putnam ⁴ x [Landhafer x (Mindó x Hajira-Joanette)] x Andrew
7561	Richland-Bond x (Garry x Hawkeye-Victoria)
7455	Rodney x (Santa Fe-Clinton ³)
7464	[Roxton x (Victoria x Hajira-Banner)] x [Ajax x (Victoria x Hajira-Banner)] x (C'ton 59 ⁷ x Landh)
7336	R.L. 2120 x [(Clinton 59 ⁴ x Landhafer) x Ajax]
7447	[(Victoria x Hajira-Banner) x (Victory x Hajira-Ajax)] x Mo. 0-205 ²
7448	[(Victoria x Hajira-Banner) x (Victory x Hajira-Ajax)] x Mo. 0-205 ²
7562	[(Waubay x (Beaver x Garry-Clinton))] x Craig
Seeded April 21, 1960	

Table 30. F.A. Coffmans Special Nursery of 1958 Aberdeen Selections.				
Description ¹	C.I. No.	Yield-bu. per acre	Test Wt.	Dates

		1	2	3	Av.		Head	Ripe
58 ab 2774	7589	55.6	47.6	36.4	46.5	27.0	7-1	7-21
58 ab 2776	7590	46.8	60.0	36.4	47.7	27.0	6-30	7-21
58 ab 2778	7592	40.8	55.6	26.8	41.1	26.0	7-1	7-21
58 ab 2779	7593	50.8	53.2	34.0	46.0	26.0	7-1	7-21
58 ab 2780	7571	39.6	38.0	28.4	35.3	25.0	7-1	7-21
58 ab 2781	7572	44.8	43.6	36.0	41.5	25.0	7-1	7-21
58 ab 2783	7574	44.4	49.2	39.2	44.3	27.0	7-1	7-21
58 ab 2785	7576	39.6	44.4	35.2	39.7	28.0	7-1	7-21
58 ab 2786	7577	34.4	33.2	33.2	33.6	26.0	7-1	7-21
58 ab 2787	7578	53.6	46.0	31.2	43.6	26.5	7-1	7-21
58 ab 2788	7579	33.6	39.2	37.2	36.7	26.0	7-1	7-21
58 ab 2789	7580	50.8	30.8	46.4	42.7	27.5	7-1	7-21
58 ab 2790	7581	68.0	40.8	44.4	51.1	27.0	7-1	7-21
Mo-0-205		58.8	32.0	29.6	40.1	33.0	6-21	7-19
Garry		48.8	32.0	36.8	39.2	29.0	6-29	7-20
Rodney		50.8	33.2	35.2	39.7	31.0	6-30	7-20
Gopher		56.0	32.8	57.2	50.4	32.0	6-24	7-20
Marion		50.4	30.8	44.8	42.0	33.0	6-22	7-20

¹1958 Aberdeen Selections are from the cross x 56-CE. This cross is: (CI 6740 x Garry) x (Bonda x HJ x SF x Mo0-205)

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