

OAT VARIETY TRIALS

Table 14 - Oat variety trial				
Variety	Avg. yield	Test weight	Heading date	Height inches
Hudson	72	38.0	7-16	36.5
Kelsey	67	40.5	7-13	44.5
Random	65	38.0	7-14	34.5
Harmon	73	40.5	7-17	40.0
Astro	74	38.0	7-16	31.0
Mariner	52	43.5	7-12	41.5
Cayuse	69	37.0	7-14	33.5
Sioux	71	40.5	7-13	38.0
Russell	62	41.0	7-11	40.0
Garry	55	41.5	7-12	44.5
Lodi	59	42.0	7-14	45.5
Kota	43	43.0	7-11	39.0
Froker	53	41.0	7-14	40.5

Dal	53	41.5	7-15	37.0
Wright	60	41.0	7-12	37.5
Standard error of a treatment mean = 2.2 L.s.d. @ 5% = 6.3 The c.v. = 7.3 P.C.				

Table 15 - Long term yield comparison of oat varieties						
Variety	Yield in bushels per acre					
	1971	1972	1973	1974	1975	5-Yr. Avg.
Kelsey	58	47	89	61	67	64
Cayuse	53	57	90	72	69	68
Random		49	85	48	65	
Astro			67	50	74	
Mariner			82	55	52	
Hudson				47	72	
Sioux	73	41	85	59	71	66
Garry		47	87	64	55	
Lodi	49	43	87	55	59	59
Kota	60	38	72	50	43	53

Froker	40	30	82	48	53	51
Dal				52	53	
L.s.d. @ 5%	6.2	9.5	8.2	7.1	6.3	

Table 16 - Oat variety trial - Dickinson and off-station sites								
Variety	Yield in bushels per acre							
	Dickinson	Beach	Bowman	Glen Ullin	Hettinger	Killdeer	Mandan	Avg. 6-station
Hudson	72	88	62	76	62	Hailed Out	35	66
Kelsey	67	90	60	76	61		38	65
Random	65	80	52	68	52		31	58
Harmon	73	86	58	72	58		43	65
Astro	74	78	58	61	58		27	59
Mariner	52	72	50	67	50		25	53
Cayuse	69	109	60	78	60		28	67
Standard error of a treatment mean	2.2	4.7	1.8	2.9	1.6		1.5	

L.s.d. @ 5%	6.3	13.8	5.5	8.5	4.9		4.5	
The c.v. = P.C.	7.3	10.9	11.9	8.1	5.7		9.3	

Table 17 - Oat variety trials - Dickinson and off-station sites								
Variety	Test weight per bushel							
	Dickinson	Beach	Bowman	Glen Ullin	Hettinger	Killdeer	Mandan	Avg. 6-station
Hudson	38.0	37.0	39.0	37.0	31.5	Hailed Out	38.0	36.8
Kelsey	40.5	36.0	37.5	36.5	37.0		37.5	37.5
Random	38.0	36.0	33.0	32.5	36.0		37.0	35.4
Harmon	40.5	34.0	29.0	34.5	35.0		38.0	35.2
Astro	38.0	34.0	21.5	31.5	29.5		17.0	28.6
Mariner	43.5	37.0	36.0	40.5	37.0		28.0	37.0
Cayuse	37.0	40.0	37.5	35.0	32.0		24.5	34.3

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