

Table 1. Plant stand, seedling vigor, days to heading, canopy cover, height, grain yield and quality of thirteen oat cultivars during 2003 in a certified organic field near Richardton, ND.

variety	Plant Stand		Seedling Vigor ¹		Day to heading	Plant Canopy ²	Plant height			Grain		
	22-May	28-May	22-May	28-May			22-May	26-Jun	29-Jul	Yield	Test weight	Kernels
	-----no/ft ² -----				- d -	-- % --	-----inches-----			-bu/acre-	-lb/bu-	-kernels/lb-
AC Assiniboia	28	24	7.1	8.0	65	24	4	17	29	61.7	37.1	13,507
Buff	33	30	7.4	7.9	59	25	4	19	28	49.6	45.8	16,867
Ebeltoft	32	31	7.5	8.0	64	26	4	18	27	69.8	38.8	14,296
HiFi	28	27	7.3	7.9	63	30	4	18	32	67.3	39.0	16,354
Hytest	31	30	8.0	8.3	60	30	4	20	35	54.7	41.5	13,047
Hytest (organic) ³	31	28	7.8	8.3	59	30	4	20	34	53.0	41.4	14,000
Leonard	37	31	7.4	8.0	63	23	4	18	28	63.9	38.1	15,375
Morton	34	29	7.5	8.0	62	29	4	19	31	56.4	39.0	14,364
Otana	34	31	7.4	8.0	64	26	4	18	33	53.0	39.9	16,634
Otana (organic) ³	29	27	6.8	8.0	61	30	4	20	33	56.4	39.8	16,103
Richard	31	29	7.9	8.0	61	24	4	19	31	60.0	38.4	14,567
Sesqui	30	30	7.3	8.0	61	28	4	19	29	61.4	38.8	16,506
Triple Crown	30	25	7.3	8.0	67	28	4	17	31	53.6	35.1	14,221
Wabasha	32	31	7.1	8.1	60	26	4	19	29	56.9	38.6	15,656
Youngs	33	31	7.1	8.0	63	29	4	18	32	58.3	37.3	13,735
Mean	32	29	7.4	8.0	62	27	4	19	31	58.4	39.2	15,015
CV %	6.2	11.7	4.3	1.9	1.1	17.1	7.9	8.2	5.2	8.3	1.9	7.8
LSD	3	NS	0.5	0.2	1	NS	NS	NS	2	6.9	1.1	1676

¹ 1=good vigor; 9=poor vigor

² Plant canopy is percentage ground cover.

³(organic) = an organic seed lot; the remaining variety treatments were established using a seed lot produced under conventional management.