

2005 Lentil Seeding Rate Trial – Continuously Cropped - No-till

Hettinger

This project was funded by the North Dakota Dry Pea and Lentil Association.

Seeding Rate		Plant Stand	Days to Bloom	Duration of Bloom	Days to Mature	Plant Height	Bdlf Weeds	Lodg.	1000 Seed wt.	Test Weight	----- Seed Yield -----			
#/ft ²	Lbs/a	#/ft ²		Days		inches	*	**	grams	lbs/bu	- Pounds per acre -			
24	132	18	74	17	105	9	1.0	3.2	42.6	57.4				2660
20	110	19	74	17	105	9	1.0	3.0	44.3	57.4				2623
16	88	11	74	17	105	8	1.2	3.0	43.2	57.4				2464
12	66	11	74	17	106	9	1.2	2.5	44.6	57.7	1307	2233		2352
8	44	4	74	17	107	10	3.0	1.8	43.6	57.4	999	1960		1979
4	22										719	1591		
Trial Mean		12.5	74	17	105	9	1.5	2.7	43.7	57.4	1005	1922		2416
C.V. %		27.7	0.0	0.0	0.9	20.0	18.3	17.6	3.6	1.6	8.2	6.2		7.3
LSD .05		5	NS	NS	1	NS	0.4	0.7	NS	NS	134	184		270
LSD .01		7	NS	NS	NS	NS	0.6	1.0	NS	NS	188	258		378

* Broadleaf Weeds (mainly Russian Thistle): 1 = few, 2 = some, 3 = many.

** Lodging: 0 = none, 9 = lying flat on ground.

Planting Date: April 7, 2005

Harvest Date: August 5, 2005

Variety = CDC Richlea

Previous Crop: barley

NS = no statistical difference between seeding rates.

2005 Lentil Variety Trial – Continuously Cropped - No-till

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Variety	Days to Bloom	Duration of Bloom	Days to Mature	Plant Height	Lodging	1000 Seed wt.	Test Weight	Seed Yield			Average Yield	
								2003	2004	2005	2 yr	3 yr
		days		inches	0-9*	grams	Lbs/bu	----- Pounds per acre -----				
Chilean												
CDC Richlea	74	16	105	7	5.8	40.4	56.6	952	2436	2143	2290	1844
Pennell	75	15	102	7	6.0	51.2	55.5	905	2614	1908	2261	1809
Merrit	71	18	105	10	5.2	44.4	53.8	1279	1951	1364	1658	1531
Laird	74	16	106	7	5.2	51.2	55.4	719	2194	1534	1864	1482
CDC Sedley	74	14	104	7	4.8	57.8	57.0		2268	1883	2076	
CDC Sovereign	74	16	104	9	5.8	46.8	56.2			1794		
CDC Glamis	74	14	104	6	7.0	45.4	55.7			1745		
Persian												
CDC Milestone	74	16	102	7	6.5	29.8	60.0	1148	2203	2378	2290	1910
Pardina	71	17	102	5	7.5	34.2	61.1	859	1596	2378	1987	1611
CDC Robin	74	15	103	9	4.8	22.4	60.2	1195	1382	1956	1669	1511
Crimson	73	16	101	6	7.8	31.4	60.9	775	1148	1981	1564	1301
CDC Blaze	74	14	102	6	4.2	29.0	61.2		1587	2370	1978	
CDC Rouleau	74	18	104	8	4.8	31.4	60.0			2508		
CDC Redberry	73	16	103	12	2.2	35.4	60.3			2492		
CDC Viceroy	74	17	103	8	5.2	27.2	61.0			2386		
CDC LeMay	74	15	102	5	6.0	28.6	60.9			2135		
Trial Mean	73	16	103	7	5.5	37.9	58.5	881	1938	2060	--	--
C.V. %	0.6	7.6	1.1	25.8	16.3	6.0	1.3	14.4	10.6	8.5	--	--
LSD .05	1	2	2	3	1.3	3.3	1.1	184	297	251	--	--
LSD .01	1	2	2	4	1.7	4.3	1.5	248	402	335	--	--

*Lodging: 0 = none, 9 = lying flat on ground.

Planting Date: April 7, 2005 Harvest Date: August 5, 2005
 Seeding Rate: 550,000 live seeds / acre.
 Previous Crop: barley