

**NDSU Langdon Research Extension Center
2019 Variety Trial Data**

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Hemp Variety Trial - 2019	Langdon,ND
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Variety	Plant Stand	PLSE ¹	Seedling Mortality	Plant Height	Test Weight	KWT	Oil ⁴	Grain Yield				
								2017	2018	2019	2-yr Avg.	3-yr Avg.
	/ft ²	%	%	in.	lbs/bu	g/1000	%	-----lbs/a-----				
CRS-1	9.6	60	40	59	40.7	16.7	32.7	1891	1135	1400	1267	1475
CFX-1	8.6	54	46	48	41.2	16.3	33.0	2052	1236	1282	1259	1523
CFX-2	9.7	61	40	53	40.8	16.2	32.5	1949	1031	1361	1196	1447
Grandi	13.0	82	19	45	40.7	15.0	32.1	1729	1157	1256	1206	1381
Katani	9.7	61	39	41	41.2	14.1	32.6	1820	1164	1151	1158	1378
Piccolo	10.5	66	34	40	41.0	14.3	32.3	1686	1085	1138	1112	1303
Canda	9.8	61	39	62	40.0	19.0	30.5	2005	802	1361	1081	1389
Joey	10.5	66	34	56	40.7	17.6	30.5	1991	905	1190	1048	1362
X-59	9.9	62	39	52	40.6	16.0	30.0	2022	979	1544	1261	1515
Cyclone V-1 TRT ^{2,3}	5.7	36	64	74	--	--	--	--	--	--	--	--
Cyclone V-1, CK ³	7.2	45	55	72	--	--	--	--	--	--	--	--
Altair TRT ²	11.6	67	33	65	38.5	15.5	31.1	--	--	1400	--	--
Altair CK	12.5	73	28	68	38.1	16.2	30.4	--	--	1177	--	--
Rigel TRT ²	9.4	71	29	69	39.0	16.7	31.1	--	--	1295	--	--
Rigel CK	9.0	69	32	68	38.9	16.7	30.5	--	--	1256	--	--
Trial Mean	10.0	63.5	37	59	40.1	16.2	31.5	1907	1031	1293	--	--
C.V. %	16.2	16.2	28.0	6.8	1.5	3.2	1.7	8.7	10.6	11.8	--	--
LSD 5%	2.3	14.7	14.6	5.8	0.9	0.7	0.8	240	158	218	--	--
LSD 10%	1.9	12.2	12.2	4.8	0.7	0.6	0.6	199	131	182	--	--

¹Pure live seed emergence

²TRT= Metalaxyl + Ipconazole 3 fl oz/100 lb seed, varieties with a 'CK' received none.

³Cyclone V-1 did not reach maturity before a killing frost.

⁴Oil content reported as is basis(uniformly dried to approximately 3% moisture).

Target seeding rate was 16 PLS/ft² which includes 25% extra for expected mortality loss. Altair and Rigel seeding rate was 17 and 13 PLS/ft² including 25% for mortality loss, respectively. This was due to late seed arrival with seed weight and germinations completed after the seeding of the trial.

Previous Crop: Barley

Planting Date: May 28

Harvest Date: September 18