

Barley fertilizer study at Central Ag Research Center, Moccasin, MT seeded 5/3/2016 and harvested 8/29/2016.

Cultivar	N Rate	S Rate	Plant Density	Grain Yield	Test Weight	Seeds Per Pound	Percent Plumps	Percent Thins
	lb/ac		plants/ft ²	bu/ac	lb/bu	seeds/lb	%	
Experimental #1	68	0	10.5	30.2	47.6	11,142	79.8	4.8
	68	10	12.6	29.9	50.3	10,885	84.2	3.2
	91	0	11.1	33.6	48.2	11,011	79.5	5.1
	91	10	13.0	34.6	48.7	10,440	86.6	2.8
	114	0	13.9	31.2	48.5	11,027	78.3	4.3
	114	10	13.1	39.9	49.2	10,627	83.0	3.9
	137	0	12.2	32.9	48.4	10,961	75.8	6.3
	137	10	13.4	41.2	49.6	10,434	83.6	3.9
Odyssey	68	0	12.7	30.5	50.6	10,152	89.6	2.9
	68	10	12.1	31.8	51.3	9,930	92.1	2.3
	91	0	13.3	43.5	51.1	9,982	91.2	2.5
	91	10	10.6	38.3	50.6	10,147	92.9	2.1
	114	0	10.8	36.1	50.3	10,377	85.3	4.3
	114	10	11.1	38.0	50.8	10,157	90.3	2.9
	137	0	13.9	38.0	49.8	10,429	87.6	3.4
	137	10	11.9	41.9	50.5	9,868	91.1	2.8
Voyager	68	0	8.6	30.6	48.1	10,516	89.7	2.6
	68	10	8.8	30.3	49.8	10,617	89.8	2.2
	91	0	8.8	31.4	48.7	10,674	89.9	2.8
	91	10	8.4	30.2	49.3	10,680	90.0	2.6
	114	0	10.0	35.5	48.8	10,627	90.1	2.8
	114	10	8.9	34.8	49.7	10,492	88.3	3.2
	137	0	8.2	33.3	47.5	10,434	90.7	2.4
	137	10	10.0	39.2	48.5	10,434	89.6	2.7
All								
P-Value	-	-	0.507	< 0.001	0.148	0.173	< 0.001	< 0.001
Mean	-	-	11.2	34.9	49.4	10,502	87.0	3.3
CV%	-	-	18.7	12.4	2.4	3.4	3.0	28.2
LSD (0.05)	-	-	NS	6.1	NS	NS	3.7	1.3