

**Montana State University Lime x Cultivar Trial** established in acidic soils in a no-till system near Geraldine, MT (NT) and a conventional-till system near Highwood, MT (CT) in 2018 and 2019. Malting barley yield (lbs per acre) and test weight (lbs per bushel) are reported for 13 cultivars, averaged across limed and unlimed conditions. Aglime was applied at 5 tons per acre in the fall of 2017.

CULTIVAR	2018		2019		2018		2019	
	NT	CT	NT	CT	NT	CT	NT	CT
	-----lbs per acre-----				-----lbs per bushel-----			
10WA-106.18	2382	<b>3170</b>	-	-	46.2	<b>46.5</b>	-	-
10WA-107.43	<b>2971</b>	<b>3410</b>	-	-	<b>48.2</b>	<b>47.1</b>	-	-
10WA-117.17	<b>2642</b>	<b>2785</b>	-	-	<b>48.0</b>	<b>46.6</b>	-	-
11WA-107.43	-	-	<b>2539</b>	<b>2344</b>	-	-	<b>53.7</b>	<b>51.6</b>
11WA-107.58	<b>2619</b>	<b>3323</b>	<b>2286</b>	<b>2294</b>	<b>48.5</b>	<b>48.3</b>	<b>53.7</b>	<b>52.3</b>
12WA-120.14	<b>2595</b>	<b>3213</b>	-	-	45.6	45.5	-	-
13WAM-101.2	-	-	<b>2173</b>	<b>2482</b>	-	-	52.2	50.4
13WAM-135.26	-	-	<b>2245</b>	<b>2307</b>	-	-	<b>52.8</b>	<b>52.6</b>
13WAM-149.2	-	-	<b>2096</b>	2108	-	-	<b>53.1</b>	<b>51.9</b>
Hockett	<b>2433</b>	<b>2925</b>	<b>2496</b>	1997	<b>47.3</b>	<b>47.3</b>	<b>53.4</b>	<b>51.5</b>
MT124027	2249	<b>2871</b>	-	-	45.2	44.6	-	-
MT124112	<b>2722</b>	<b>3250</b>	1907	1845	<b>48.2</b>	<b>48.2</b>	52.0	50.5
Odyssey	-	-	1857	<b>2575</b>	-	-	<b>53.1</b>	49.2
Mean	2576	3118	2200	2244	47.1	46.8	53.0	51.2
CV%	13.1	12.8	16.1	10.1	2.5	2.5	1.5	2.0
HSD	540	636	564	362	1.9	1.9	1.3	1.6
P-Value (Rep)	0.0413	0.0087	0.4936	0.0408	0.0872	0.0880	0.0946	0.0733
P-Value (Lime)	0.0295	0.0302	0.0485	0.3854	0.5901	0.0419	0.9353	0.0379
P-Value (Cultivar)	0.0050	0.0240	0.0023	<0.001	<0.001	<0.001	<0.001	<0.001
P-Value (Lime:Cultivar)	0.2092	0.2229	0.3845	0.5197	0.3635	0.8288	0.2113	0.0328

**Bold** = top-performing cultivar

**Bold** = statistically equivalent to top-performer

NT = No-till system near Geraldine, MT

CT = Conventional-till system near Highwood, MT