

## FERMENTA WINTER BARLEY TRIAL – 2018 RESULTS

Four winter barley varieties were tested on-farm in Saline, MI, through a project funded by the Washtenaw County Office of Economic Development, with Fermenta ([fermentamichigan.org/](http://fermentamichigan.org/)) acting as the fiscal agent, and New Growth Associates ([newgrowthassociates.com](http://newgrowthassociates.com)) providing project coordination. All four varieties yielded over 100 bushels per acre, but test weights were relatively low. *Fusarium* infections resulted in high DON across all varieties and plots, with no significant differences between varieties. Significant variability did exist between varieties for % protein, % plump kernels and % germination energy.

Variety	Yield (bu/ac)	Test Weight (lbs/bu)	% Protein	% Plump	% Thin
LCS Calypso	103.0	42.6	12.0	93.5	0.4
Puffin	104.9	43.3	12.1	73.8	4.1
Scala	102.9	40.6	12.1	97.2	0.3
LCS Violetta	100.7	41.5	12.7	89.4	0.9
Grand Mean	102.9	42.0	12.2	88.5	1.4
CV	2.7	2.6	0.5	1.5	4.7
LSD @ 5%	5.4	2.2	0.38	2.6	0.51

Variety	% Germ. Energy (4 ml)	% Germ. Energy (8 ml)	% Germ. Capacity	RVA (stirring number)	DON (ppm)
LCS Calypso	70	43	96	154	3.3
Puffin	85	43	97	151	5.0
Scala	97	57	96	153	2.9
LCS Violetta	88	62	96	148	2.2
Grand Mean	84.9	51.0	96.3	151.5	3.3
CV	5.7	13.7	2.0	3.3	17.1
LSD @ 5%	11.4	13.9	3.8	10.0	4.2



## FERMENTA - SALINE TRIAL DETAILS

Planting date: 10/2/17

Plot Layout: Plots were 30 ft. wide by 200 ft. long, and included four replications in a randomized complete block design.

Fertility: 100 lbs. N/A at spring green-up (28% UAN applied through streamer bars)

Fungicide: 8 oz. / acre Prosaro® at heading

Harvest: 7/6/18

Growing season conditions: Cooler than average temperatures persisted from planting through April. Subsequently, the site experienced wet conditions during pollination and adequate rainfall through grain fill. Minimal lodging was present at harvest.

Cooperators: Gary, Renee & Ryan Luckhardt, Megan Phillips Goldenberg

Previous crop: Soybeans

Soil type: Wixom Sandy Loam



*New Growth Associates*

