

Fusarium Damaged Kernel (FDK) and Deoxynivalenol (DON) Comparisons at 10 MCVET Sites for Barley Varieties in 2022

Class/Variety (FHB Resistance level)	2022 FDK (%) and DON ¹ (ppm)																			
	Arborg		Beausejour		Brandon		Carberry		Dauphin		Hamiota		Melita		Roblin		Rosebank		Souris	
	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON ²	FDK	DON	FDK	DON	FDK	DON	FDK	DON
Malting																				
AAC Prairie (I)	0.90	bdl	1.40	bdl	0.52	bdl	0.10	bdl	0.22	bdl	0.46	bdl	0.00	bdl	0.63	bdl	2.70	bdl	0.29	bdl
AAC Synergy (I)	1.40	bdl	0.50	bdl	0.93	bdl	0.20	bdl	1.99	bdl	0.00	0.5	0.05	bdl	0.53	bdl	5.00	bdl	0.60	0.8
Torbellino (S)	2.60	bdl	1.50	bdl	0.62	bdl	0.50	bdl	0.36	bdl	0.20	0.8	0.36	bdl	0.70	bdl	2.20	bdl	0.34	0.7
Food and Feed																				
AAC Lariat (MS)	3.50	bdl	-	-	-	-	-	-	0.82	bdl	0.30	1.4	-	-	-	-	-	-	1.13	0.5
AB Hague (MR)	1.20	bdl	0.60	bdl	0.27	bdl	0.10	bdl	0.46	bdl	0.07	bdl	0.07	bdl	0.60	bdl	1.20	bdl	0.20	bdl
AB Prime (I)	0.55	bdl	0.40	bdl	0.21	bdl	0.30	bdl	0.50	bdl	0.10	bdl	0.21	bdl	0.07	bdl	1.20	bdl	0.12	0.6
AB Standswell (S)	1.60	bdl	0.90	bdl	1.13	0.5	0.10	bdl	0.50	bdl	0.10	0.7	0.04	bdl	0.66	bdl	0.90	0.7	0.73	2.6
Bighorn (I)	0.60	bdl	2.00	bdl	0.21	bdl	0.80	bdl	0.23	bdl	0.34	bdl	0.25	bdl	0.02	bdl	2.10	bdl	1.26	0.5
Cantu (I)	0.80	bdl	1.00	bdl	0.38	bdl	0.40	bdl	0.48	bdl	0.22	0.6	0.21	bdl	0.00	bdl	2.10	bdl	0.15	bdl
CDC Austenson (I)	1.10	bdl	1.55	bdl	0.09	bdl	0.10	bdl	0.05	bdl	0.00	bdl	0.10	bdl	0.30	bdl	0.60	bdl	0.26	0.5
CDC Durango (I)	1.00	bdl	1.20	bdl	0.49	bdl	0.50	bdl	1.07	bdl	0.44	0.5	0.36	bdl	0.97	bdl	2.30	bdl	0.97	0.6
CDC Renegade (MR)	2.10	bdl	1.50	bdl	1.61	bdl	0.20	bdl	0.41	bdl	0.13	bdl	0.10	bdl	0.00	bdl	1.20	0.5	0.22	bdl
Ibex (I)	1.20	bdl	1.00	bdl	0.52	bdl	0.40	bdl	0.21	bdl	0.30	0.5	1.30	bdl	0.61	bdl	1.20	bdl	0.44	bdl
Varieties being tested for adaptability in Western Canada																				
CLO10-004,094	3.30	bdl	-	-	-	-	-	-	0.59	bdl	0.31	0.6	-	-	-	-	-	-	0.60	2.7
CLO10-018,138	1.15	bdl	-	-	-	-	-	-	0.55	bdl	0.10	bdl	-	-	-	-	-	-	0.25	0.6
CLO10-019,121	0.80	bdl	-	-	-	-	-	-	0.25	bdl	0.09	0.8	-	-	-	-	-	-	0.15	0.5
Esmá	1.20	bdl	0.90	bdl	0.64	bdl	0.10	bdl	0.55	bdl	0.26	bdl	0.00	bdl	0.17	bdl	0.90	bdl	0.05	0.8
KWS Kellie	1.60	bdl	1.30	bdl	1.00	bdl	0.10	bdl	1.04	bdl	0.34	bdl	0.38	bdl	0.05	bdl	1.80	bdl	0.19	0.7
RGT Planet	2.50	bdl	2.30	bdl	4.27	bdl	0.20	bdl	0.03	bdl	0.19	bdl	0.10	bdl	0.23	bdl	0.90	bdl	0.00	0.5
Richer	1.30	bdl	0.50	bdl	0.36	bdl	0.20	bdl	0.00	bdl	0.00	bdl	0.10	bdl	0.00	bdl	1.80	bdl	0.31	0.8
Varieties supported for registration by the PRCOB																				
Malting																				
TR19655 (I)	1.20	bdl	-	-	-	-	-	-	0.81	bdl	0.00	bdl	-	-	-	-	-	-	0.87	0.5
Food and Feed																				
FB20601 (I)	2.50	bdl	-	-	-	-	-	-	0.31	bdl	0.00	bdl	-	-	-	-	-	-	0.41	1.4
TR19758 (I)	1.70	bdl	-	-	-	-	-	-	0.65	bdl	0.19	bdl	-	-	-	-	-	-	0.29	0.7
Grand Mean²	1.56	bdl	1.16	bdl	0.83	bdl	0.27	bdl	0.53	bdl	0.18	0.7	0.23	bdl	0.35	bdl	1.76	bdl	0.43	0.90

¹Detection limit >0.5 ppm and <5.0 ppm. Entries reporting <0.5 ppm DON are reported as bdl (below detection limit).

²DON grand mean is the site average for entries where DON was detected.

Thank you to the following:

Manitoba Crop Alliance (MCA) who provided funding to conduct analysis of 2022 samples.

Manitoba Crop Variety Evaluation Team (MCVET) and contractors who provided the harvested samples for analysis.

