

Fusarium Damaged Kernel (FDK) and Deoxynivalenol (DON) Comparisons at 8 MCVET Sites for Winter Wheat Varieties in 2022

Class/Variety (FHB Resistance level)	2022 FDK (%) and DON ¹ (ppm)															
	Arborg		Beausejour		Boissevain		Carman		Hamiota		Melita		Roblin		Stonewall	
	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON	FDK	DON
Canada Western Red Winter																
AAC Coldfront (I)	0.12	bdl	0.00	bdl	0.30	0.6	0.20	bdl	4.70	adl	0.00	bdl	0.08	bdl	0.25	bdl
AAC Goldrush (I)	0.05	bdl	0.00	bdl	0.10	bdl	0.08	bdl	2.00	2.9	0.00	bdl	0.04	bdl	0.29	bdl
AAC Network (I)	0.00	bdl	0.00	bdl	0.40	0.7	0.16	bdl	2.80	3.6	0.00	bdl	0.03	bdl	0.54	bdl
AAC Vortex (MR)	0.00	bdl	0.00	bdl	0.15	bdl	0.16	bdl	2.90	3.0	0.00	bdl	0.05	bdl	0.18	bdl
Emerson (R)	0.00	bdl	0.00	bdl	0.20	bdl	0.06	bdl	1.10	0.9	0.00	bdl	0.03	bdl	0.15	bdl
Grand Mean²	0.03	bdl	0.00	bdl	0.23	0.65	0.13	bdl	2.70	2.60	0.00	bdl	0.05	bdl	0.28	bdl

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



