Monitoring of *Fusarium* trichothecenes in Canadian cereal grain shipments from 2010 to 2012

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Supplementary Table 1. List of *Fusarium* trichothecenes analyzed by the gas chromatographic-mass spectrometric method.

Analyte name	Abbreviation	Quantitation ions (m/z)	Qualification ions (m/z)
deoxynivalenol	DON	235	392, 407, 512
nivalenol	NIV	289	191, 379, 482
diacetoxyscirpenol	DAS	106	350, 378, 290
3-acetyldeoxynivalenol	3-ADON	392	377, 467, 482
15-acetyldeoxynivalenol	15-ADON	235	392, 350, 407
fusarenon-X	FUS-X	480	251, 450, 465
(2α,3α,4β,8α)-4,15-bis(acetyloxy)-3-hydroxy-12,13-epoxytrichothec-9-en-8-yl 3-methylbutanoate	T-2	122	185, 290, 350
15-acetoxy-3 α,4 β,-dihydroxy-8 α -[3-methylbutyryloxy]-12,13-epoxytrichothec-9-ene	HT-2	185	157, 347, 466

Supplementary Table 2. Variation of deoxynivalenol (DON; mg/kg) in 1 kg aliquots from four in-house wheat reference materials naturally contaminated with DON.

1 kg aliquot	**A4**		**B4**		**C1**		**D1**	
	TP 1	**TP 2**	**TP 1**	**TP 2**	**TP 1**	**TP 2**	**TP 1**	**TP 2**
	0.60	0.60	0.93	1.00	2.7	2.7	4.7	4.7
	0.60	0.61	0.94	0.95	2.6	2.5	4.8	5.1
	0.60	0.59	0.99	0.88	2.7	2.6	5.7	4.8
	0.57	0.59	0.92	0.98	2.6	2.7	4.9	4.9
	0.56	0.57	0.90	0.98	2.6	3.1	5.0	5.0
	0.57	0.60	0.90	0.94	2.8	2.8	4.8	5.1
	0.61	0.64	0.95	0.97	2.8	2.7	5.1	5.0
	0.56	0.57	0.98	0.97	2.7	2.7	5.1	5.3
	0.61	0.59	0.98	0.99	2.7	3.0	5.2	5.1
	0.61	0.59	0.86	0.95	2.7	2.7	5.2	5.2
Mean	0.591	0.595	0.934	0.960	2.69	2.75	5.05	5.01
Std deviation	0.022	0.020	0.042	0.032	0.082	0.177	0.276	0.185
Overall mean	0.59		0.947		2.72		5.03	
Overall std deviation	0.021		0.039		0.138		0.229	
Mean std deviation between test portions (TP)	0.013		0.043		0.143		0.230	

Supplementary Table 3. Variation of deoxynivalenol (DON; mg/kg) in 100 g sub-samples from four in-house wheat reference materials naturally contaminated with DON.

100 g sub-sample	A8.6		B5.2		C5.8		D3.5	
	TP 1	TP 2	TP 1	TP 2	TP 1	TP 2	TP 1	TP 2
	0.57	0.56	0.86	0.91	3.1	2.8	5.1	5.3
	0.56	0.60	0.81	0.90	3.1	3.0	5.2	5.2
	0.69	0.54	0.86	0.93	3.0	2.7	5.2	5.3
	0.54	0.56	0.90	0.80	2.9	2.9	5.1	5.1
	0.57	0.63	0.89	0.83	3.0	3.0	5.3	5.7
Mean	0.586	0.577	0.863	0.874	3.02	2.89	5.20	5.30
Std deviation	0.057	0.036	0.033	0.057	0.061	0.11	0.071	0.229
Overall mean	0.581		0.868		2.96		5.25	
Overall std deviation	0.045		0.044		0.108		0.169	
Mean std deviation between test portions (TP)	0.051		0.054		0.131		0.133	