

**Table 1.** Analysis of variance for the effect of year, *Fusarium graminearum* isolate, winter wheat cultivar, and interactions on: a) FHB severity (1-9) and b) transformed ( $\log(x+0.5)$ ) deoxynivalenol (DON) content (ppm) in winter wheat. Ridgetown, ON, 2003-2004, 2004-2005 and 2005-2006.

a) FHB severity (1-9)				
Source	df	Mean square	F	P>F
Year	2	6.254	19.16	<.0001
Isolate	4	4.235	12.98	<.0001
Cultivar	3	1.249	3.83	0.0098
Year*Isolate	8	4.192	12.84	<.0001
Year*Cultivar	6	3.249	9.95	<.0001
Isolate*Cultivar	12	0.474	1.45	0.1459
Year*Isolate*Cultivar	24	0.547	1.68	0.0310

b) DON accumulation				
Source	df	Mean square	F	P>F
Year	2	90.034	427.24	<.0001
Isolate	4	1.584	7.52	<.0001
Cultivar	3	5.027	23.86	<.0001
Year*Isolate	8	1.710	8.11	<.0001
Year*Cultivar	6	2.125	10.09	<.0001
Isolate*Cultivar	12	0.202	0.96	0.4912
Year*Isolate*Cultivar	24	0.195	0.93	0.5671

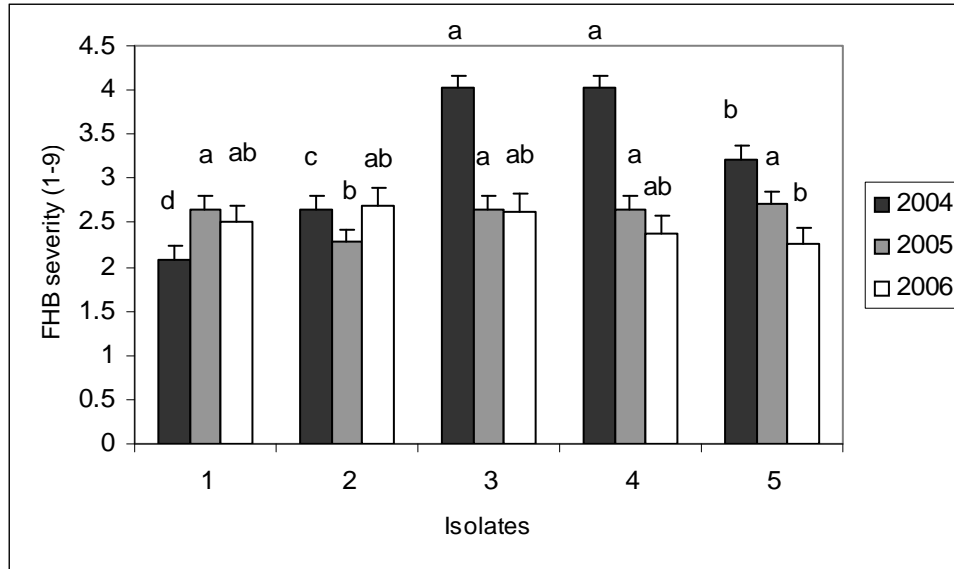


Figure 1 a

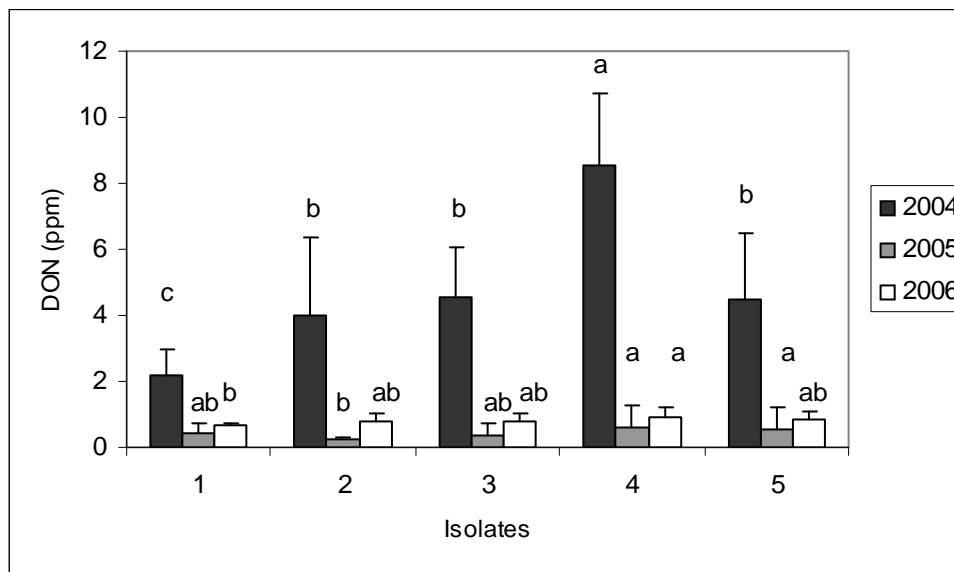


Figure 1 b

**Figure 1.** The effect of *Fusarium graminearum* isolates (1-4) and their mixture (5) ( $\pm$  SE) on: a) FHB severity (1-9) and b) deoxynivalenol (DON) content (ppm) across winter wheat cultivars. Ridgetown, ON. Means within years followed by the same letter are not different according to Fisher's protected least significant difference test ( $P=0.05$ ).

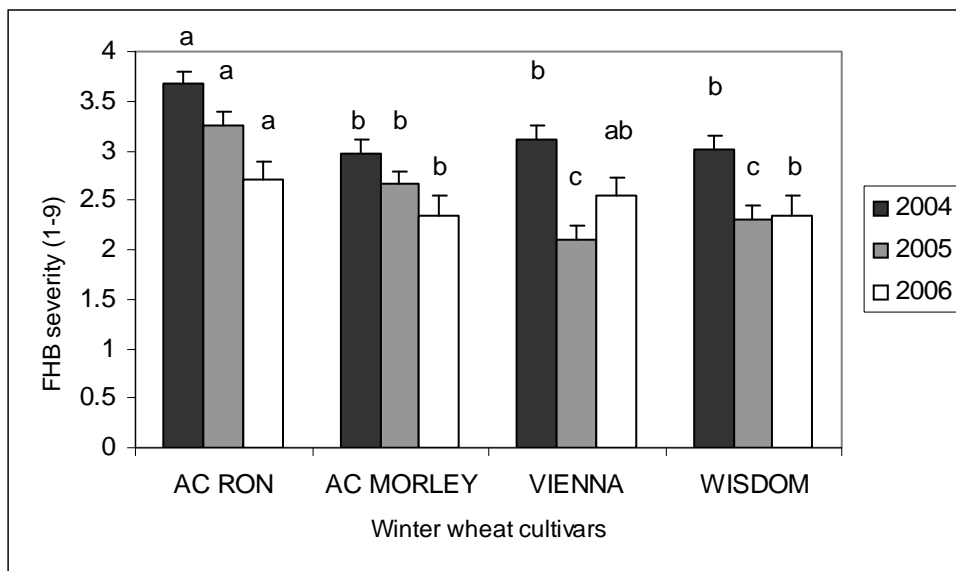


Figure 2 a

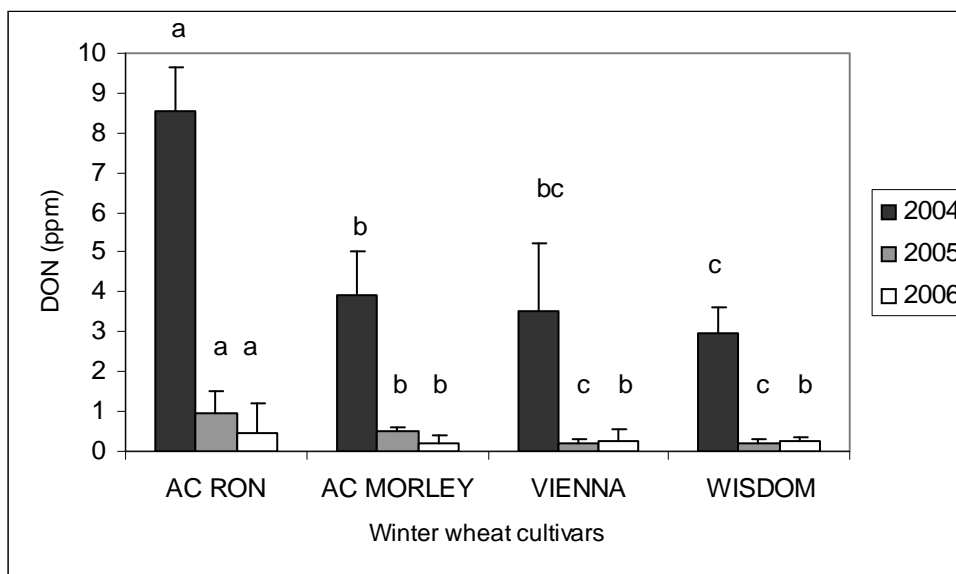


Figure 2 b

**Figure 2.** The effect of winter wheat cultivars (‘AC RON’, ‘AC Morley’, ‘Vienna’ and ‘Wisdom’) on: a) FHB severity (1-9) and b) deoxynivalenol (DON) content (ppm) ( $\pm$  SE) after spray-inoculation across *Fusarium graminearum* isolates. Ridgetown, ON. Means within years followed by the same letter are not different according to Fisher’s protected least significant difference test ( $P= 0.05$ ).