

Table 14. HARD WINTER WHEAT: Coleoptile Length (inches), from growth chamber determination

Variety	Coleoptile length (inches)				
	2002	2000//2002	1999//2002	1998//2002	
		2 yr	3 yr	4 yr	
Rampart	4.7**	4.7**	4.7*	4.6**	long coleoptile
Vanguard	4.7*	4.7**	4.8**	4.5*	
MTS0031	4.3				
McGuire	4.0	4.1	4.3	4.2*	
MT00154	4.0				
Ransom +	4.0	3.8	3.9		
Above (IMI)++	3.9				
Prowers 99 +	3.9	4.2			
BigSky ++	3.8	3.8	4.0	4.0	
MT00118	3.7				
MT9904	3.7				
Norstar	3.7	3.7	3.7	3.8	
Elkhorn +	3.5	3.4	3.5	3.5	
MT9951	3.5				
MTR9997	3.5				
Neeley	3.5	3.6	3.7	3.9	medium coleoptile
Quantum 542 (P)	3.5	3.6	3.7	3.8	
BZ9W97-761 (P,HWW)	3.4	3.2			
Gary (HWW) ++ ^{1/}	3.4	3.3			
Bighorn (P)+	3.3	3.3	3.4	3.4	
Judith	3.3	3.1	3.1	3.3	
MT9982	3.3				
Tiber	3.3	3.7	3.9	3.9	
DW ++ ^{1/}	3.2	3.3	3.4		
Golden Spike (HWW)+ ^{1/}	3.2	3.1			
Jerry	3.2				
MT00117	3.2				
MT00159	3.2				
MTS0023	3.2				
MTW0049	3.2				
NuFrontier (P,HWW) ++	3.2	3.5			
Paul (MT9426) ++	3.2	3.0	3.2		
Pryor (BZ9W96-919)(P)++	3.2	3.0			
Rocky	3.2	3.5	3.7		
Erhardt	3.1	3.0	3.2	3.2	
Expedition (SD97457) ++	3.1				
MT0099	3.1				
NuHorizon (P,HWW) ++	3.1	3.2			
Nuplains (HWW) +	3.1	2.9	3.2		
MT0097	3.0				
CDC Falcon (P)+	2.9	2.8			
NuSky (HWW) ++	2.9	2.9	3.0	3.1	
NuWest (HWW) +	2.9	2.8	3.0	3.1	short coleoptile
Wahoo +	2.9				
BZ9W96-895 (P)	2.8	2.7			
Promontory ^{1/}	2.8	2.7	2.9	3.0	
Morgan (P)+	2.6	2.5	2.6	2.7	
MT0088	2.6				
MT9989	2.6				
Average	3.4	3.4	3.6	3.6	
LSD (0.05)	0.1	0.5	0.3	0.4	
C.V.	8.5	6.6	5.1	8.5	

** = indicates longest coleoptile within a column

* = indicates varieties equal to longest coleoptile variety within a column based on Fisher's protected LSD (p=0.05)

(P) = Private Variety; + = Protected Variety; ++ = PVP Pending

^{1/} = Dwarf Smut Resistant; (HWW) = Hard White Winter Wheat