



## First Hollow Stem Update

*By Dr. Jeff Edwards, OSU Small Grains Extension Specialist.*

As of March 3, the majority of wheat varieties at Stillwater had reached first hollow stem, with TAM 111 and Stanton being the two most recent additions to the first hollow stem list (Table 1).

Brad Tipton, Canadian county ag. educator, reported that the varieties Custer, Cutter, Fannin, and Jagger had all reached first hollow stem by March 1 at El Reno, OK (Table 1). Most varieties at this location progressed rapidly over the 7-day time period between hollow stem measurements. For example, AP502CL, Custer, Deliver, Endurance, and Jagger all progressed by more than 0.8 cm of hollow stem between measurements. These results stress the importance of regular scouting for hollow stem; this is especially true with warm weather forecasted for the coming week.

Gary Strickland, Jackson county ag. educator, reported no varieties at first hollow stem in our Olustee, OK plots as of 2-25-05. Varieties checked include Custer, OK101, OK102, Jagger, and 2174. It is important to stress, however, the late-October planting date of the Olustee variety trial. However, at a Feb. 21 wheat tour at the Bob Howard Wheat Variety Demonstration plot (sown 10-14-2004) varieties 2145, Jagger, Custer were at first hollow stem stage.

Table 1. Average hollow stem measurements taken at Stillwater, OK and El Reno, OK during 2005.						
Variety	Stillwater				El Reno	
	Feb. 15	Feb. 21	Feb. 25	Mar. 3	Feb. 22	Mar. 1
	----cm of hollow stem <sup>†</sup> ----					
2137	0.6	0.8	0.8	1.2	0.1	0.3
2145	1.2	1.7 <sup>‡</sup>	- <sup>§</sup>	-	0.8	1.0
2174	0.5	0.7	0.8	0.8	0.1	0.2
AP502CL	0.7	1.8	-	-	0.3	1.3
Avalanche	0.9	1.7	-	-	n/a <sup>¶</sup>	n/a
Custer	1.2	1.9	-	-	0.6	1.8
Cutter <sup>‡</sup>	2.2	-	-	-	1.9	-
Deliver	0.7	1.6	-	-	0.2	1.0
Endurance	0.7	1.1	1.3	1.3	0.1	1.2
Fannin	1.9	-	-	-	2.7	-
Ike	0.2	0.3	0.7	1.0	n/a	n/a
Intrada	1.8	-	-	-	n/a	n/a
Jagalene	1.4	1.7	-	-	0.8	1.0
Jagger	1.5	-	-	-	1.0	2.4
Lakin	0.3	0.5	0.7	0.9	n/a	n/a
Ok101	1.0	1.6	-	-	0.2	0.8
Ok102	0.5	0.6	0.7	0.8	0.1	0.1
Overley	2.3	-	-	-	0.8	1.1
Stanton	0.6	0.8	0.9	1.5	n/a	n/a
Sturdy2K	0.1	0.5	0.6	1.2	0.1	0.7
TAM110	1.1	1.8	-	-	n/a	n/a
TAM111	0.5	0.7	1.2	1.7	n/a	n/a
Thunderbolt	0.6	1.5	-	-	0.5	0.6
Trego	0.6	0.7	0.8	0.9	n/a	n/a

<sup>†</sup> Varieties are considered to be at the First Hollow Stem stage of growth once 1.5 cm of hollow stem is observed. Research has shown this is the optimal timing for removal of cattle from wheat pasture.

<sup>‡</sup> Varieties at or past First Hollow Stem are shaded.

<sup>§</sup> Once a variety has 1.5 cm of hollow stem, measurements are no longer taken.

<sup>¶</sup> Variety not grown or not measured at this location

## Upcoming events

**Tuesday, March 8: Waurika, OK – 11 am** - Demonstration of hand-held sensor based nitrogen recommendations

**May 20, 2005** – Lahoma field day, Lahoma Research Station

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