

Traits and Rating Scales for LAES Wheat and Oat Performance Trials.		
Trait	Abbreviation	Description
Yield	Yield	Grain yield in bushels per acre adjusted to 13% moisture.
Test weight	Test wt	Volume weight of grain in pounds per bushel
Heading day	Head day	Day of calendar year (days after December 31) until 50% heading.
Plant height	Ht	Plant height in inches.
Lodging rating	Lod	Lodging rated on a scale of 0 - 9, where a 0 indicates no lodging and a 9 indicates complete lodging (all plants flat).
Leaf rust	Leaf rust	Percent of upper two leaves affected by leaf rust, rated during grain fill. This rating is generally taken during soft to mid-dough, but varies somewhat by location and variety.
Stripe rust	Stripe rust	Percent of upper two leaves affected by leaf rust, rated between flag leaf and mid grain fill.
Septoria	Sept	Septoria leaf & glume blotch rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Bacterial Streak	Bact	Bacterial streak (black chaff) rated on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease on the flag leaf and head.
Powdery mildew	Powd mild	Powdery mildew rating on a scale of 0 - 9, where 0 indicates no disease and 9 indicates severe disease present on the foliage. Rated in early to mid spring.
Phenotype	Phe	Phenotypic rating, an overall visual rating prior to harvest. 0=excellent, 9=poor. This rating is a visual rating of 'eye-appeal'.

Growing Conditions and General Comments for 2009-2010

The difficult 2009-2010 season began with heavy rains in late summer which delayed soybean harvest and ground preparation. Heavy rains again, in mid to late October delayed planting, resulting in a short planting season. Excessively heavy rainfall occurred statewide (nearly 20" in Baton Rouge during January and February), severely stressed plants and greatly reduced tillering. A nearly 8 week drought followed, with Baton Rouge running a nearly 90% deficit. Low test weights resulted from a shortened grainfill period. Overall, leaf rust was minimal and stripe rust was moderate to severe with infection of some varieties for the first time occurring at some locations as a result of a new race or virulence combination. Wheat soil borne mosaic virus was present at many locations due to cool, wet soils. Late planting and very poor tillering resulted in no useable data from the Jeanerette location.