UNCHARTED

Leading in uncharted territory

BREEDER'S BULLETS

AS YET DISCOVERED

Leaf rust resistance of Uncharted is unexplainable by its susceptible parents and must be caused by yet-discovered leaf rust resistance gene(s) or a unique combination of unknown genes.

THE WILD SIDE

Molecular markers reveal five chunks of DNA from wild relatives of modern wheat – one from *Thinopyrum*, two from *Aegilops tauschii*, one from *Triticum ventricosum* via Jagger, and one unknown source from Duster. This is an unusual amount of ancient genetics for one variety.

UNCHARTED WATERS

Uncharted tends to be more competitive with other varieties in wetter years with disease resistance to back it up.

FIREWALL

Uncharted has the potential to do for Oklahoma's BYD predicament as Duster did for Hessian fly.

Dr. Brett Carver, Oklahoma State Wheat Breeder

NEW TERRITORY

An eclectic pedigree delivers five chromosomal segments from wheat's wild relatives into a single variety, Uncharted. This unique blend of genetics provides across-theboard protection against the more common foliar diseases in the central corridor.

Uncharted is the only HRW variety adapted to Oklahoma that carries a two-gene stack for BYD immunity. Other significant attributes include green leaf retention to physiological maturity and good acid-soil tolerance. It is highly recommended for early-planted grazing systems.

TRADEMARKS



Breeding system that imparts selection pressure for adaptation to early-planted, stocker-cattle grazed systems.

ADAPTATION MAP



A STEP OUT FROM BENTLEY

Bentley	Uncharted
» BYD susceptible	» BYD resistant
» Leaf rust susceptible	» Leaf rust resistant
» Mildew susceptible	» Mildew resistant
» Stay-green ordinary	» Stay-green enhanced
 » Chronic-drought tolerant 	 » Below-average drought tolerance
 Normal fall canopy, more erect 	 Aggressive fall canopy, more prostrate
 Holds winter dormancy well 	» Holds winter dormancy when grazed
Similarities: Vield potential acid-soil tolerance	

Similarities: Yield potential, acid-soil tolerance, Hessian fly susceptibility, shattering tendency



BAR EXAM