

BECK'S Herbicide Sensitivity Study – 2007

Location:	D3 plot	Previous Crop:	Soybeans
Planted:	April 23, 2007	Tillage:	V-Rip / S-tine
Harvested:	September 24, 2007	Insecticide:	Aztec
Rows:	Two 30" rows	Pre-Applied Herbicide:	2.3 qts. Bicep II Magnum
Population:	30,000 seeds/A.	Used only where Post-Applied products were tested.	1 qt. Princep

RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	<u>5.68 in.</u>
Total	15.67 in.

Purpose: Numerous factors can affect crop injury caused by herbicides, including soil type, weather conditions before, during and after application, planting depth, and proper furrow closure to name a few. This study was designed to evaluate the sensitivity of four post-applied herbicides. To simulate a spray overlap, a 2X labeled rate was applied. When evaluating the results, the lower the percentage, the greater the sensitivity. (Example: BECK 5616VT3 (97.2%) was more sensitive to Accent than BECK 6722CBRWRR (106.7%).)

Brand	Accent	Laudis	Permit	Status	Control
BECK 5112CBRWRR	96.9%	99.1%	102.9%	97.2%	103.9%
BECK 5117Bt 1	102.7%	101.7%	94.0%	95.5%	106.1%
BECK 5244VT3	109.0%	93.5%	92.3%	93.1%	112.2%
BECK 5316HXT	105.1%	96.1%	91.2%	98.1%	109.4%
BECK 5333	105.5%	95.5%	93.5%	99.9%	106.1%
BECK 5444VT3	104.5%	93.8%	92.5%	97.7%	111.4%
BECK 5555CBRWRR	98.7%	94.1%	100.4%	96.8%	110.1%
BECK 5616VT3	97.2%	93.7%	98.1%	106.4%	104.6%
BECK 5684VT3	102.4%	96.2%	94.5%	99.6%	107.2%
BECK 5722HXT	105.0%	95.9%	93.4%	95.9%	109.8%
BECK 5816CBRR	101.3%	109.0%	98.2%	98.5%	93.0%
BECK 6197VT	100.0%	93.8%	98.0%	102.2%	106.0%
BECK 6722CBRWRR	106.7%	96.0%	96.3%	100.0%	101.0%
BECK 6733	103.0%	95.1%	97.9%	103.0%	100.9%
BECK 7916CBRR	<u>99.4%</u>	<u>95.5%</u>	<u>101.6%</u>	<u>100.3%</u>	<u>103.2%</u>
AVERAGE*	102.5%	96.6%	96.3%	99.0%	105.7%

*This row is an average of all hybrids per treatment.

Summary: The 2007 results for all hybrids with a 2X rate applied, showed that Laudis (a pigment inhibitor) and Permit (an ALS inhibitor) had the most sensitivity (96.6% and 96.3% respectively for the overall average). While the combination of Accent + Lexar had the most sensitivity in 2005 and 2006, Accent by itself in 2007 had the least sensitivity overall. Keep in mind that it is not recommended to use S.U. chemistries such as Accent and Permit on "16" Family products. BECK 5616VT3, BECK 5816CBRR, and BECK 7916CBRR all fall below the average when comparing all Accent-treated hybrids. Status (a growth regulator) was neutral (99.0%) when all hybrids were averaged together. Individual hybrid sensitivity to a given herbicide is displayed in the body of the table.