

BECK'S Advanced Hybrid Corn Plot in HP and MP Soils – 2007

Location: H4, H5 plots (MP Soil)
300-3,4 N plot (HP Soil)

Planted: May 1, 2007

Harvested: September 20 & 21, 2007

Rows: Two 30" rows

Population: 33,600 seeds/A.

Previous Crop: Soybeans

Tillage: Zone-Till

Herbicide: PPI: 2.1 qts. Bicep II Magnum
1 qt. Princep

Post: 1.67 qts. Lexar / 8 oz. Stinger

Insecticide: Force on Non-RW Hybrids

RAINFALL	
April	2.88 in.
May	1.12 in.
June	4.14 in.
July	1.85 in.
August	5.68 in.
Total	15.67 in.

Purpose: This study shows how our most popular hybrids as well as some leading experimental hybrids perform in **HP (Highly Productive)** and **MP (Medium Productive)** soil types.

Brand	Soil Type	Harvested Population	Test* Weight	Percent Broken Stalks	Percent Moisture	2007 Bushels* Per Acre	2007 Average Bu./A.*	Bu./A. Advantage In HP Soil*
BECK EX 4760	HP	25,000	57.4	2.0	26.1	282.7	247.2	+71.1
BECK EX 4760	MP	27,750	56.0	2.8	22.4	211.6		
BECK 5684VT3	HP	33,000	58.9	0.0	23.6	268.0	242.7	+50.7
BECK 5684VT3	MP	29,875	57.4	0.8	23.5	217.3		
BECK EX 4709	HP	28,500	56.2	0.0	24.2	276.6	236.5	+80.2
BECK EX 4709	MP	31,875	56.0	0.0	25.0	196.4		
BECK 5722HXT	HP	31,500	57.2	0.0	24.2	283.9	229.7	+108.5
BECK 5722HXT	MP	32,000	55.9	1.5	25.4	175.4		
BECK EX 3770	HP	32,000	57.4	0.0	24.8	264.8	229.5	+70.7
BECK EX 3770	MP	33,125	56.8	0.0	23.8	194.1		
BECK 5244VT3	HP	29,500	56.7	0.0	21.8	268.5	228.8	+79.5
BECK 5244VT3	MP	30,500	56.6	0.0	20.8	189.0		
BECK EX 4754	HP	31,500	57.4	0.0	28.4	239.7	221.7	+36.0
BECK EX 4754	MP	28,625	56.4	0.0	22.9	203.7		
BECK 5444VT3	HP	25,000	57.0	0.0	22.6	247.2	221.5	+51.4
BECK 5444VT3	MP	25,125	56.0	0.0	21.8	195.8		
BECK EX 1625	HP	24,000	55.5	0.0	23.8	236.2	221.4	+29.7
BECK EX 1625	MP	30,250	57.1	0.9	24.5	206.5		
BECK 6722VT3	HP	32,500	58.2	1.5	29.2	286.0	220.5	+131.0
BECK 6722VT3	MP	30,125	54.5	3.2	21.7	155.0		
BECK EX 3765	HP	28,500	59.1	1.8	24.0	227.6	218.6	+18.0
BECK EX 3765	MP	28,875	55.7	0.0	20.5	209.6		
BECK EX 0684	HP	29,000	57.0	0.0	21.2	237.6	217.7	+39.9
BECK EX 0684	MP	30,250	57.2	0.0	22.4	197.7		
BECK EX 4712	HP	30,000	55.2	0.0	28.0	227.1	216.6	+21.0
BECK EX 4712	MP	29,250	54.3	0.0	25.7	206.1		
BECK EX 4761	HP	33,500	58.3	0.0	23.2	254.1	214.3	+79.7
BECK EX 4761	MP	30,125	57.1	3.7	21.5	174.4		
BECK EX 4774	HP	31,500	55.7	4.8	21.8	250.7	212.5	+76.5
BECK EX 4774	MP	33,000	53.4	3.0	18.5	174.2		
BECK EX 1597	HP	26,000	58.0	0.0	27.4	217.1	212.3	+9.6
BECK EX 1597	MP	29,250	54.5	9.0	19.4	207.5		
BECK 5333	HP	22,000	58.5	0.0	23.4	217.1	211.2	+11.9
BECK 5333	MP	26,750	57.0	0.0	23.2	205.2		
BECK EX 4752	HP	26,000	55.7	0.0	25.6	213.7	210.6	+6.2
BECK EX 4752	MP	25,875	55.5	1.0	24.2	207.5		
BECK 5555CBRWRR	HP	31,000	57.6	0.0	20.2	252.9	209.8	+86.2
BECK 5555CBRWRR	MP	30,750	57.1	0.0	20.7	166.7		
BECK EX 2661	HP	25,000	57.8	0.0	22.0	239.2	207.8	+62.9
BECK EX 2661	MP	28,250	55.7	0.9	20.5	176.3		
BECK EX 4762	HP	30,000	56.2	0.0	25.6	233.9	207.5	+52.8
BECK EX 4762	MP	27,500	55.7	0.9	23.4	181.1		
BECK 5816CBRR	HP	26,000	56.0	0.0	23.8	238.8	200.8	+76.1
BECK 5816CBRR	MP	23,625	55.4	3.9	22.8	162.7		
BECK 5112CBRWRR	HP	30,500	58.9	3.3	19.8	215.2	199.1	+32.2
BECK 5112CBRWRR	MP	<u>30,750</u>	<u>54.5</u>	<u>0.0</u>	<u>18.7</u>	<u>183.0</u>		
HP Soil Average		28,661	57.4	0.8	23.7	243.9	> 56.1 Bu./A. Difference <small>(includes hybrids not published in this report)</small>	
MP Soil Average		29,363	55.9	1.5	22.0	187.8		

*Bushels per acre and test weight corrected to 15% moisture. Note: Some experimental hybrids were omitted due to limited space on this page.

Summary: Since 1999 when we began this study, yield differences between HP and MP soils have been a direct reflection of available moisture. In drier years, differences in the average yield range from 35 to 63 Bu./A. In years with normal or excess rainfall, an average of 20 Bu./A. separate the two soil types.

With 2007 being a year of less than average moisture, we saw a 56 Bu./A. difference between the two soil types.