

BECK'S Advanced Hybrid Corn Plot in HP and MP Soils- 2005

Location: 300-3N, 4N. (HP Soil)
H4, H5 (MP Soil)
Planted: May 3, 2005
Harvested: September 27, 2005
Rows: Two 30" rows
Population: 29,000 seeds/A.

Previous Crop: Soybeans
Tillage: HP Soil – Conv.-Till
MP Soil – Zone-Till
Herbicide: PPI: 2.5 qts. Bicep II Magnum /
1.0 qt. Princep
Post: 1.6 qts. Lexar / 8 oz. Stinger
Insecticide: Aztec

RAINFALL	
April	3.4 in.
May	3.2 in.
June	4.0 in.
July	6.8 in.
August	3.3 in.
Total	20.7 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-Hybrid	Soil Type	Harvested Population	Test Weight	Percent Stalk Lodging	Percent Moisture	2005 Bushels* Per Acre	2005 Average Bu./A.*	Bu./A. Advantage In HP Soil*
BECK 5444RR	HP	27,500	50.5	1.8	26.5	274.0	259.9	+28.3
BECK 5444RR	MP	25,500	52.0	2.0	27.6	245.7		
BECK EX 0590	HP	26,000	52.0	0.0	25.8	264.2	254.1	+20.2
BECK EX 0590	MP	25,500	51.5	0.0	26.3	244.0		
BECK 6722CBRWRR	HP	27,500	50.5	3.6	28.0	256.1	250.8	+10.6
BECK 6722CBRWRR	MP	25,250	52.0	31.7	26.6	245.5		
BECK EX 2569	HP	26,500	50.0	7.5	26.2	261.6	247.6	+28.0
BECK EX 2569	MP	26,500	53.5	0.0	26.1	233.6		
BECK EX 3591	HP	26,500	50.0	0.0	25.9	258.4	246.2	+24.5
BECK EX 3591	MP	26,000	51.0	1.9	26.0	233.9		
BECK 6197	HP	27,500	51.0	1.8	27.8	259.7	244.8	+29.8
BECK 6197	MP	25,250	51.0	3.0	26.1	229.9		
BECK 5616RR	HP	26,500	52.0	1.9	26.3	250.6	237.7	+25.9
BECK 5616RR	MP	26,750	52.5	0.0	25.8	224.7		
BECK EX 2426CB (5538Hx1 Genetics)	HP	25,500	52.5	0.0	25.8	244.0	235.6	+16.9
BECK EX 2426CB (5538Hx1 Genetics)	MP	26,750	50.0	2.9	25.0	227.1		
BECK 4996Hx1	HP	27,000	50.0	0.0	24.8	243.1	234.2	+17.9
BECK 4996Hx1	MP	24,000	50.0	3.2	22.2	225.2		
BECK 5827	HP	25,500	52.0	0.0	25.3	242.8	230.9	+23.8
BECK 5827	MP	24,750	54.0	2.0	25.2	219.0		
BECK 5222	HP	27,000	51.0	5.6	23.7	247.7	230.5	+34.4
BECK 5222	MP	26,500	51.5	5.7	23.7	213.3		
BECK EX 1286	HP	26,000	51.0	1.9	24.4	235.4	229.8	+11.2
BECK EX 1286	MP	26,750	50.0	3.7	21.2	224.2		
BECK 5538	HP	28,500	52.0	1.8	25.3	238.5	228.9	+19.2
BECK 5538	MP	26,000	51.0	0.0	23.8	219.3		
BECK EX 2411CB (5228CBRR Genetics)	HP	28,000	52.0	0.0	23.7	235.0	224.4	+21.2
BECK EX 2411CB (5228CBRR Genetics)	MP	25,750	53.5	1.9	24.4	213.8		
BECK 5959RW	HP	25,500	50.5	2.0	26.0	232.5	218.7	+27.7
BECK 5959RW	MP	26,250	50.5	0.9	23.8	204.8		
BECK 5366	HP	27,000	50.0	3.7	25.9	227.3	217.0	+20.7
BECK 5366	MP	25,250	50.0	2.0	27.8	206.6		
BECK EX 2413 (5507RWRR Genetics)	HP	26,000	50.0	1.9	25.7	226.7	216.6	+20.3
BECK EX 2413 (5507RWRR Genetics)	MP	26,000	52.5	1.0	26.6	206.4		
BECK 5166	HP	26,500	50.5	1.9	25.0	222.5	215.5	+14.1
BECK 5166	MP	27,250	50.5	0.9	22.7	208.4		
BECK EX 3417	HP	27,000	51.5	3.7	25.6	222.6	211.6	+26.1
BECK EX 3417	MP	26,000	51.5	0.9	24.2	200.5		
BECK 5422CBCL	HP	28,000	49.5	1.8	27.1	216.7	208.0	+17.4
BECK 5422CBCL	MP	25,750	51.5	0.0	27.4	199.3		
BECK 6097CB	HP	24,000	49.5	4.2	26.2	200.7	192.1	+17.3
BECK 6097CB	MP	<u>27,250</u>	<u>52.0</u>	<u>0.9</u>	<u>25.0</u>	<u>183.4</u>		
HP Soil Average		26,617	50.9	0.0	25.7	237.4	> 21.4 Bu./A. Difference (includes hybrids not published in this report)	
MP Soil Average		26,025	51.6	0.0	25.1	216.0		

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

Summary: In 1999, under extremely dry conditions, the difference between the two soil types was over 63 Bu./A. on average, with every hybrid showing an advantage in the HP soil. In 2000, when rainfall was more prevalent, only 21.4 Bu./A. separated the two soil types, and two experimental hybrids showed advantages in the MP soil. In 2001, we suffered a short dry period during late July – early August but had ample rainfall in late August. Consequently, we saw a 35.4 Bu./A. average advantage for all hybrids in the HP soil.

In 2003, abundant rainfall led to the smallest difference between soil types with only 14.9 bushels per acre on average separating the yields in the HP soil from those in the MP soil.

Results in 2004 and 2005 mirrored those of 2000, where we saw just over 20 bushels per acre difference between the two soil types.