BECK'S Advanced Hybrid Corn Plot in HP and MP Soils- 2003

Location: 300-3,4 N. (HP Soil)
H4 (MP Soil)
Planted: April 23, 2003
Harvested: September 29, 2003
Rows: Four 30" rows
Population: 30,000 seeds/A.

Previous Crop: Soybeans
Tillage: HP Soil – S-tine
MP Soil – No-Till
Herbicide: 2.25 qt. Bicep II Magnum
1.0 qt. Princep
Insecticide: Aztec

RAINFALL	
April	1.5 in.
May	7.7 in.
June	2.0 in.
July	10.4 in.
August	5.2 in.
Total	26.8 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 Lodging	Percent Moisture	2003 Bushels* Per Acre	**2003 Average Bu./A.**	Bu./A. Advantage In HP Soil
BECK 5366	HP	30,000	55.8	1.7	27.0	226.6	**212.6**	+28.0
BECK 5366	MP	24,500	55.4	2.0	29.6	198.6		
BECK EX 0369	HP	27,500	56.9	0.0	23.7	209.2	**210.1**	-1.7
BECK EX 0369	MP	27,500	55.8	0.0	27.5	210.9		
BECK EX 0368	HP	31,000	56.3	0.0	25.6	213.4	**204.9**	+17.0
BECK EX 0368	MP	23,000	55.3	3.9	30.4	196.4		
BECK EX 0362	HP	29,000	56.9	1.7	23.6	211.0	**204.6**	+12.8
BECK EX 0362	MP	25,250	55.7	0.0	28.5	198.2		
BECK 6197	HP	28,000	54.7	0.0	33.4	212.9	**204.0**	+17.9
BECK 6197	MP	27,250	54.1	0.0	37.1	195.0		
BECK EX 0374	HP	31,000	57.3	0.0	22.4	206.1	**203.2**	+5.8
BECK EX 0374	MP	28,000	56.6	1.7	24.3	200.3		
BECK 5827	HP	32,000	56.9	0.0	23.6	207.6	**201.7**	+11.8
BECK 5827	MP	24,750	54.7	0.0	33.7	195.8		
BECK EX 0322	HP	32,000	55.7	0.0	28.7	209.5	**201.4**	+16.3
BECK EX 0322	MP	27,250	54.2	0.0	36.2	193.2		
BECK EX 0356	HP	33,500	56.3	1.5	25.4	228.2	**200.8**	+54.9
BECK EX 0356	MP	25,750	54.4	0.0	35.0	173.3		
BECK 5538	HP	30,500	56.1	9.8	26.3	205.0	**200.1**	+9.8
BECK 5538	MP	25,750	55.5	5.1	29.4	195.2		
BECK 5959	HP	29,500	56.3	6.8	25.6	207.5	**199.0**	+17.1
BECK 5959	MP	26,250	54.7	0.0	33.1	190.4		
BECK 5166	HP	30,000	56.8	1.7	23.7	212.2	**198.3**	+27.9
BECK 5166	MP	28,500	57.0	5.2	23.1	184.3		
BECK 5322	HP	29,500	57.0	0.0	23.2	201.2	**192.5**	+17.4
BECK 5322	MP	29,500	56.5	6.3	24.6	183.8		
BECK EX 0254	HP	28,000	55.4	3.6	30.0	205.1	**189.9**	+30.4
BECK EX 0254	MP	31,250	54.3	0.0	35.8	174.7		
BECK EX 0365	HP	31,000	55.5	0.0	29.4	185.8	**187.8**	-3.9
BECK EX 0365	MP	28,750	55.0	3.4	32.0	189.7		
BECK 5727	HP	30,500	56.9	0.0	23.6	194.7	**186.1**	+17.2
BECK 5727	MP	26,750	54.6	0.0	33.6	177.5		
BECK EX 0373	HP	29,000	56.6	1.7	24.7	198.9	**185.3**	+27.3
BECK EX 0373	MP	26,750	54.0	0.0	37.2	171.6		
BECK 5422	HP	31,500	56.1	1.6	26.2	192.5	**184.9**	+15.2
BECK 5422	MP	26,500	55.7	0.0	27.5	177.3		
HP Soil Average		**30,210**	**56.5**	**2.7**	**25.3**	**202.2**	**> 14.9 Bu./A. Difference****	
MP Soil Average		**27,040**	**55.2**	**1.6**	**30.8**	**187.3**	(includes hybrids not published in this report)	

*Bushels per acre corrected to 15.5% moisture. **Note: Some experimentals 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.

This year's 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.