



HOEGEMEYER HIGH PH STUDY

High soil pH is a common problem here in the Western Corn Belt. At Hoegemeyer, we are committed to providing you products that can tolerate these stressful conditions. High pH soils cause a symptom known as Iron Deficiency Chlorosis (IDC). Several nutrients become harder for the plant to extract from the soil at a pH above 7.5 including phosphorus, zinc, iron, and manganese. This may cause stunting, yellowing, interveinal chlorosis, and even plant death in some hybrids. Decreasing soil pH through management practices is very difficult and typically not economical, so what should a producer do?

The best management practice is usually to plant a hybrid with good tolerance to high soil pH. Starting in 2014, we ramped up our research from one small trial to two large trials at locations with these high pH soil types (Table 1). We have continued to test all new corn hybrids in our pH trials every year since 2014. We take these yield results across several years and average the data to give you quality ratings that can help you select the right hybrid for your specific acre in the Western Corn Belt. Yield was taken at both locations and averaged to find the most tolerant products that will work on your farm (Table 2). If you have any questions related to pH tolerant hybrids feel free to contact your local Hoegemeyer DSM or agronomist.

LOCATION	AVERAGE PH OF SITE BY YEAR			
	2017	2018	2019	2020
North Bend, NE	8.1	8.0		
Alda, NE			8.1	8.1

Table 1. Average soil pH at our testing locations in 2017-2020.



Hoegemeyer product HPT® brand 8359 3000GT™ in a High pH environment (4).

Hoegemeyer product HPT® brand 8408 AM™ in a High pH environment (6).

MATURITY	HIGHLY SUITABLE (RATING 6 OR BETTER)	SUITABLE (RATING 5)
93	6334 Family	
95		6560 Family
96		6654 Family
98	6813 Family / 6850 Family	
100	7088 Family	7027 Family / 7061 Family
101	7159 Family	7180 Family
102		7209 Family / 7224 Family
103		7322 Family
104	7402 Family	7434 Family
105	7583 Family	7558 Family
106	7692 Family	7644 Family
107		7760 Family / 7772 Family
108	7869 Family / 7886 Family	7818 Family
109	7946 Family	7900 Family / 7921 Family / 7955 Family / 7990 Family
110	8009 Family / 8050 Family / 8084 Family / 8097 Family	8066 Family
111	8140 Family / 8188 Family	8104 Family / 8175 Family
112	8217 Family / 8233 Family / 8255 Family	8268 Family / 8294 Family
113	8338 Family / 8352 Family / 8382 Family	8345 Family / 8348 Family / 8363 Family / 8371 Family
114		8414 Family / 8447 Family / 8490 Family / 8494 Family
115	8519 Family	8511 Family / 8529 Family
116		8680 Family
117		8707 Family / 8750 Family

Table 2. Hoegemeyer products with above average tolerance to High pH soils.



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AM-R - Optimum® AcreMax® Insect Protection system with YGCB, HX1, RR2. Contains a single-bag integrated refuge solution for above-ground insects. Do not spray with Liberty®. Not all seeds in the bag are tolerant to Liberty herbicide. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products.



AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products.



AMX - Optimum® AcreMax® Xtra Insect Protection system with YGCB, HXX, LL, RR2. Contains a single-bag integrated refuge solution for above- and below-ground insects. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax Xtra products.



RW,HX1,LL,RR2 (Optimum® TRIsect®) - Contains the Herculex I gene for above-ground pests and the Agrisure® RW trait for resistance to corn rootworm.



AMXT (Optimum® AcreMax® XTreme) - Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the YieldGard® Corn Borer gene, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax XTreme products.



Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty® herbicide for optimum yield and excellent weed control.

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