

# 2012 CMDC

## Achieving Higher Corn Yields and the Importance of Hybrid Selection for Intensive Management Systems HAEGELE

**Use & Copyright** The materials in this document were developed by and for use by University of Nebraska–Lincoln Extension in the Institute of Agriculture and Natural Resources. The materials are copyrighted by the Board of Regents of the University of Nebraska–Lincoln on behalf of the University of Nebraska-Lincoln Extension. All rights are reserved. Copies may be printed for individual personal use; however, these materials cannot be republished in print, on another Web site or used commercially without prior written permission. To seek permission to print a publication for educational use, please email us at [dpittman1@unl.edu](mailto:dpittman1@unl.edu).

**Disclaimer** Reference to commercial products or trade names in these publications is made with the understanding that no discrimination is intended and no endorsement by University of Nebraska-Lincoln Extension is implied.

### Seven Wonders of the Corn Yield World

Rank	Factor	Value	
		bushels / acre	%
1	Weather	70+	27
2	Nitrogen	70	26
3	Hybrid	50	19
4	Previous crop	25	10
5	Plant population	20	8
6	Tillage	15	6
7	Growth regulators	10	4
		<b>Total = 260 bushels</b>	<b>100%</b>

Given key prerequisites.



2012CMDC-7-18-Haegele (1)

### How do you select the right hybrid?

Rank	Grain Yield bu acre <sup>-1</sup>	Rank	Grain Yield bu acre <sup>-1</sup>
★ 1	199.3	13	186.7
⊙ 2	199.0	14	186.3
⊙ 3	198.7	15	185.6
★ 4	197.9	16	184.6
⊙ 5	197.6	17	181.7
⊙ 6	196.9	18	173.1
⊙ 7	196.4	19	171.8
★ 8	196.2	20	168.6
⊙ 9	195.9	21	168.2
10	192.3	22	168.1
11	191.4	23	165.0
12	189.0	24	164.6

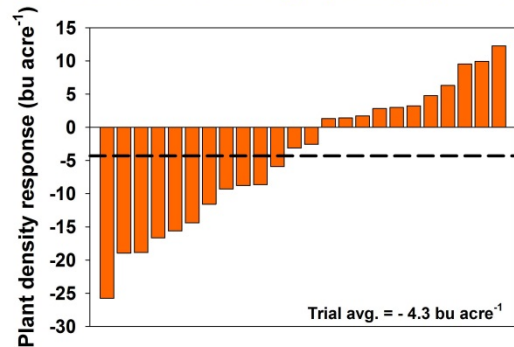
LSD (P ≤ 0.10) = 15.8

32,000 plants/acre with 240 lb N/acre, average of two sites in Illinois in 2011.



2012CMDC-7-18-Haegele (2)

### Hybrid tolerance to high plant population

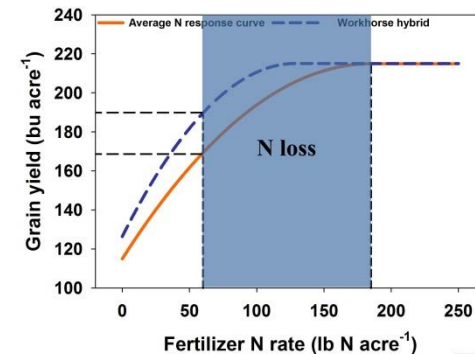


240 lb N/acre, average of two sites in Illinois in 2011.

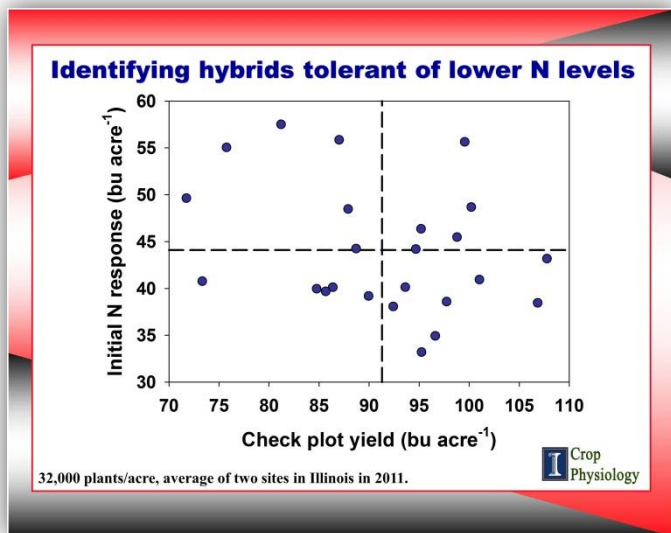


2012CMDC-7-18-Haegele (3)

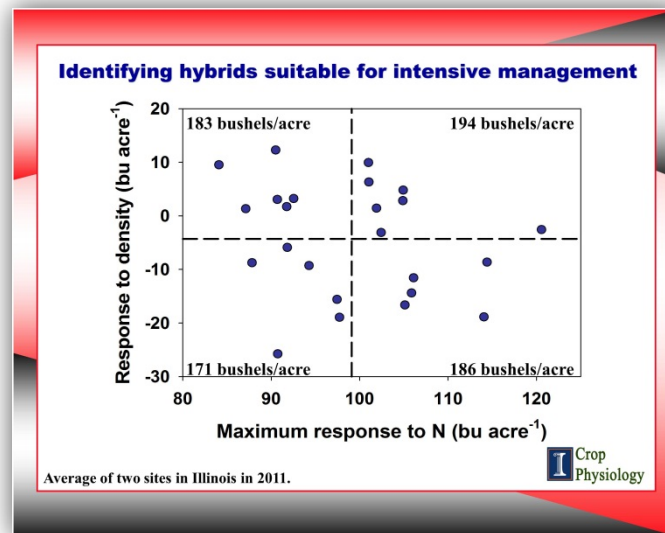
### Workhorse hybrid concept



2012CMDC-7-18-Haegele (4)



2012CMDC-7-18-Haegele (5)



2012CMDC-7-18-Haegele (6)