



Event Area Career/Leadership Development Event

Created: Nov-19

Please answer the following questions on your scantron sheet in the area designated for variety selection.
Read carefully and think.

VARIETY PRACTICUM

2019 Agronomy CDE - Seed Variety Selection

Variety	Relative Maturity	GDU's to Silk	GDU's to Blacklayer	Seeding Vigor	Root Strength	Stalk Strength	Dry Down	Drought	Goss's Wilt	2018 Yields Answer Plot - West Central (bushel/acre)
3899VT2/RIB	98	NA	2400	1	1	2	2	3	3	247.2
4191AS3111	107	NA	2680	4	2	3	3	3	3	243.3
NK1066	105	1405	2580	2	4	4	2	2	3	242.9
NK0760	107	1375	2570	3	3	2	3	2	4	241.2
MY06R36	105	NA	2645	3	4	3	3	3	5	239.1
MY92D54	90	NA	2400	3	4	3	3	2	5	230.3
NK9227	92	1240	2300	3	4	2	3	1	4	229.8

1=Best; 9=Worst

1. Choose the best varieties for the following growing environment, 18-inch annual rainfall, winds in the 40-60 mph range, short growing season. Pick the best two varieties:

- A. NK0760 and NK9227
- B. MY92D54 and NK9227**
- C. 3899VT2/RIB and MY92D54
- D. MY06R36 and MY92D54

Stalk strength due to wind drought resistance due to low rainfall, RM due to short growing season

2. Choose the best varieties for the following growing environment, 32-inch annual rainfall, good soil, long growing season, high fertility, good weed, fungus and disease control with a high incidence of Goss's Wilt. Pick the best choice:

- A. 3899VT2/RIB and 4191AS3111
- B. NK1066 and NK0760
- C. 3899VT2/RIB and NK1066**
- D. 4191AS3111 and NK1066

RM and GDU's to black layer, 3899VT2/RIB and NK1066 give harvest, dry down important; in higher rainfall areas Goss's Wilt protection; seedling vigor helps in higher yield potential.

3. In a geography of high velocity winds, loamy sand soil, and cold spring soils, it is primarily important to consider issues of:

- A. Seeding vigor, drought, dry down
- B. Root strength, GDU's to Black layer, yield potential
- C. Stalk strength, dry down, relative maturity
- D. Root strength, stalk strength, seedling vigor**

Root strength and stalk strength due to wind and loamy sand soils;
seedling vigor due to cold spring soils

4. Is it true or false the "Relative Maturity" makes a difference in choosing a variety depending on the geography of your farm?

- A. True**
- B. False

The wrong RM can cost you yield and harvestability, the crop needs to mature within the available length of growing season.

5. Is it wise to plant a corn variety grown mostly outside of your farm geography?

- A. Yes, if you have reliable agronomic reasons the variety does not have weakness for your geographic area, and you plan to plant only a few acres to try it.
- B. Yes, if you are strongly advised to do it by very competent advisors to plant part of your acres.
- C. Maybe, if you plant the whole farm to that variety only and believe hope is a good strategy.
- D. Yes, if you are confident in the advice you've been given; you are experimentally savvy; don't 'bet the farm' on it and use A and B above as part of your decision process.**

6. In your variety selection decisions to plant:

- A. It is important to consider many variables and worst case/best case/ most likely case scenarios.**
- B. It is best to 'go with your gut' feelings, the advice of a long-time neighbor who has never grown corn and data originating for central Australia.
- C. It is best to go with the advice of your brother-in-law who is also your banker and seed salesman.
- D. It is least important to consider Goss's Wilt factor because you have never had it even though your upwind neighbor has had it abundantly.

7. I should choose my varieties based solely on yield data from my geography.

- A. True
- B. False**

Choosing varieties on yield data alone leaves you without the other factors that can greatly affect yield

8. I should consider more factors that are on the limited chart above and look at other extended pertinent data for choices of varieties.

- A. True**
- B. False

9. Assume your farm geography is cold and wet in the spring, hot and dry during the summer and cold, damp and windy in the fall. Which of the ten factors above on the chart primarily need to be considered?
- A. Dry down, Goss's Wilt, yield, seeding vigor, GDU's to silk
 - B. Seedling vigor, yield, root strength, relative maturity, dry down, GDU's to Blacklayer
 - C. GDU's to Blacklayer, drought, stalk strength, relative maturity, seedling vigor**
 - D. Drought, stalk strength, seedling vigor, dry down, protein
10. Why might you NOT choose 3899VT2/RIB as your number one choice – if your farm geography is almost perfect for this variety?
- A. The salesperson does not offer promotional items that you like.
 - B. The seed cost is too high, and you can get the same variety from your neighbor's bin run from the previous year
 - C. The data by the company that sells this variety is far more extensive than the chart and may show real deficiencies in other factors**
 - D. A major foreign country that takes most all their corn from the USA has accepted a certain trait of this variety.