

National FFA 2018 Variety Selection Practicum Questions
For Event Purposes Only
[Ten questions at 5 points each]

1. Criteria might you use in determining your Hard-Red Winter Wheat variety selection.

Review the list below:

- | | | |
|---------------------------------|--------------------------|---|
| • The growing zone you are in | • Cost of seed | • soil temperature needed |
| • soil type you're seeding into | • Bagged or bulk | • yield potential |
| • irrigated vs non-irrigated | • Drought resistance | • grazing ability |
| • Marketability | • Stand ability | • compatibility with a cover crop if used |
| • Disease resistance | • Establishment of stand | • seed size |
| • Variety trial information | • pounds per acre needed | • planting season |
| • Seed count per acre | • leaf color | • baking quality |
| | • annual or perennial | • milling quality |
| | • planting season | • other |

1. You certainly must consider the growing zone you are in, the weather and diseases you deal with and is you are irrigated or dryland on your farmland.

2. Your choice of annual or perennial and glyphosate resistance wheat is essential in your wheat variety selection.

3. It depends on your farm and situation.

4. Almost all the above factors # 1-25 can be considered.

Choices are:

- A. 1 & 3 & 4
- B. 1 & 2 & 4
- C. 1 only
- D. 1 & 2 & 3

2. It is important to select a variety appropriate to crop rotations when:

- A. The crop preceding your wheat crop helps in less disease potential coming to your wheat crop.
- B. Your wheat crop will help or hinder soil health for other crops.
- C. Your wheat is the best cultivar to use in your rotation
- D. Your wheat is the only crop you grow, and you plant a glyphosate resistant wheat.

All the above **except:** A B C D [Choose one]

3. You can always rely on specific variety information given to you by the company selling that variety.

Choose A -True B- False

4. What is the best information you can get for choosing a wheat variety?

1. University or third-party trials of wheat for your geography.
2. Your neighbor who hasn't grown wheat for the last seven years.
3. Your own experience with a variety.
4. A seed tag specific to the variety you would like to plant compared to seed tags of other candidates for your fields.

Of all the above which is the most unlikely source of good information?

Choices for the best information: [Choose one]

A. 1 & 3

C. 2 & 4

B. 2 & 3

D. 1 & 4

5. In assessing a winter wheat seed tag, what are the 4 main factors you should consider?

- A. Noxious weed content, protein, variety, and germination percentage.
- B. Variety, germination percentage, weed seed percentage, pure seed percentage.
- C. Germination percentage, other crops, noxious weeds, variety
- D. Weed seed percentage, origin, lot number, inert matter

In all the above choices which contain a factor **not** listed on a seed tag?

[Choose one] A B C D

6. Your farm has heavy hessian fly populations.

1. You should look at choosing a variety based solely on hessian fly resistant levels of a wheat variety.
2. You should consider all factors of seed selection appropriate to your farm, as well as hessian fly resistance.
3. You should seed the variety your dentist or banker recommends.
4. You should consider research into how you could eliminate the hessian fly problem.

A. 1 & 3 & 4

C. 2 & 3 & 4

B. 1 & 3

D. 1 & 2 & 4

When choosing a variety of wheat seed: A= True B= False

7. You should always consider the variety of the seed and possible issues of diseases a variety is susceptible to, coupled with diseases most likely to be in your farming area. [Choose: A or B]

8. You don't really need to be concerned about plant population seeding rate. [Choose: A or B]

9. You need to be aware of your chosen variety or varieties marketability and any discounts attached to the chosen ones. [Choose A or B]

10. It is a must to have the DNA profile of the chosen seed as well as the genetic lineage. [Choose A or B]

National Agronomy 2018 Variety Selection- Agronomy Key

1. A There is no perennial or glyphosate resistant HRWW grown for commercial production
2. D There is no glyphosate resistant HRWW grown commercial production
3. B Traditionally the varieties promoted by seed companies are put in the best possible light to market them, not all varieties are tested reliably in all pertinent and germane geographies against each other. It would be very difficult and expensive to do so. Many times the best information comes from university trials in your geography.
4. C #2 is unreliable and #4 is too limited in the information given to rely on it solely for choosing.
5. A #A protein doesn't appear on the seed tag
 #B pure seed percentage is of lesser importance
 #C best choice
 #D lesser factors
6. D #3 In most cases your dentist or banker is out of his area of expertise compared to several other sources of good reliable information of variety selection.
7. A
8. B
9. A
10. B