

**Volume 3 Uniform Classification of Weed and Crop Seed and USDA State Noxious-Weed Seed  
Requirements Recognized in the Administration of the Federal Seed Act Proficiency Test  
2021-2022**

**True/False**

- True**    **False**    1. According to the AOSA Rules a contaminant must be classified as either a weed seed (W) or other crop seed (C) when conducting a purity analysis.
- True    **False**    2. According to the AOSA Rules, a species can only fit into one species class category.
- True    **False**    3. When conducting an all states noxious exam if a contaminating species found during the purity analysis is considered a noxious weed by any government agency and it can also be classified as a crop in the Vol. 3 Classification Table, the final classification under the purity analysis should be other crop (C).
- True    **False**    4. To determine if a seed found in the purity analysis is a weed or other crop seed, you must first find the classification of the contaminating species to determine the species class of the kind of seed being tested.
- True    **False**    5. When more than one common name is listed in the Vol. 3 Classification Table, the first name listed is the most important one.

6. When seeds of two indistinguishable species are found as contaminants and may be classified either as weed or other crop depending on the species to which they belong, they shall be classified as?  
(Example: carrot and wild carrot)

- a. weed seed**
- b. inert
- c. noxious weed seed
- d. other crop seed

7. The purpose of AOSA Rules Volume 3 is to classify contaminants as:

- a. weed seed or noxious weed seed
- b. other crop seed or noxious weed seed
- c. other crop seed or pure seed
- d. other crop seed or weed seed**
- e. weed seed or pure seed

8. Please list what the following symbols stand for as it pertains to Volume 3 Uniform Classification of Weed and Crop Seeds?

- A- Agricultural
- F- Flowers
- H- Herbs and spices
- R- Revegetation and rangeland
- S- Shrubs and trees
- T- Turf
- V- Vegetable
- W- Weed
- C- Crop

Classify the following as you would find them in a purity analysis as either weed or other crop seed based on AOSA Rules Volume 3.

**Weed or Crop?**

- 9. Wild buckwheat (*Fallopia convolvulus*) found in a flax (*Linum spp.*) sample. W
- 10. Timothy (*Phleum pratense*) found in a Slender wheatgrass (*Elymus trachycaulus*) sample. C
- 11. Yellow sweetclover (*Melilotus officinalis*) found in an Alfalfa (*Medicago sativa* subsp. *sativa*) sample. C
- 12. Common lamb's-quarters (*Chenopodium album*) found in a sample of common wheat (*Triticum aestivum*). W
- 13. Wild-raisin (*Viburnum lentago*) found in a sample of California-poppy (*Eschscholzia californica*). W
- 14. Carrot (*Daucus carota* subsp. *sativus*) found in a sample of Lettuce (*Lactuca sativa*). C
- 15. Turnip (*Brassica rapa* subsp. *rapa*) found in a sample of parsley (*Petroselinum crispum*). W
- 16. Quackgrass (*Elymus repens*) found in a sample of Canada wildrye (*Elymus canadensis*). W
- 17. Parsley (*Petroselinum crispum*) found in a sample of arugula (*Eruca vesicaria* subsp. *sativa*). C
- 18. Oxeye daisy (*Leucanthemum vulgare*) found in a sample of white morning-glory (*Ipomoea alba*). W

During a purity analysis you found the following species in a forage mixture consisting of: Field peas (*Pisum sativum* subsp. *sativum* var. *arvense*), Radish (*Raphanus sativus*), oat (*Avena sativa*), red clover (*Trifolium pratense*), white clover (*Trifolium repens*), alsike clover (*Trifolium hybridum*), smooth brome (*Bromus inermis* subsp. *inermis*), and orchardgrass (*Dactylis glomerata*). Please classify the following as other crop or weed seed based on AOSA Rules Volume 3.

- |   |                              |
|---|------------------------------|
| 19. Rye ( <i>Secale cereale</i> subsp. <i>cereale</i> )           | <u>          C          </u> |
| 20. Wild buckwheat ( <i>Fallopia convolvulus</i> )                | <u>          W          </u> |
| 21. Yellow foxtail ( <i>Setaria pumila</i> subsp. <i>pumila</i> ) | <u>          W          </u> |
| 22. Tall fescue ( <i>Festuca arundinacea</i> )                    | <u>          C          </u> |
| 23. Alfalfa ( <i>Medicago sativa</i> subsp. <i>sativa</i> )       | <u>          C          </u> |
| 24. Common lamb's-quarters ( <i>Chenopodium album</i> )           | <u>          W          </u> |
| 25. Common mallow ( <i>Malva neglecta</i> )                       | <u>          W          </u> |
| 26. Purple prairieclover ( <i>Dalea purpurea</i> )                | <u>          C          </u> |
| 27. Birdsfoot trefoil ( <i>Lotus corniculatus</i> )               | <u>          C          </u> |
| 28. Giant foxtail ( <i>Setaria faberi</i> )                       | <u>          W          </u> |
| 29. Common vetch ( <i>Vicia sativa</i> subsp. <i>sativa</i> )     | <u>          C          </u> |

30. You have identified the following species while conducting an all states noxious weed seed exam on barley *Hordeum vulgare*. Using the most current version of the USDA State Noxious-Weed Seed Requirements Recognized in the Administration of the Federal Seed Act list select the following that would be classified as noxious seeds based off the rate of occurrence found.

- |                   |                                |                 |
|-------------------|--------------------------------|-----------------|
| <u>          </u> | <i>Bromus tectorum</i>         | 10 seeds/pound  |
| <u>          </u> | <i>Brassica oleracea</i>       | 3 seeds/pound   |
| <u>          </u> | <i>Avena sativa</i>            | 302 seeds/pound |
| <u>          </u> | <i>Ambrosia artemisiifolia</i> | 15 seeds/pound  |
| <u>          </u> | <i>Cirsium arvense</i>         | 5 seeds/pound   |
| <u>          </u> | <i>Convolvulus arvensis</i>    | 1 seed/pound    |
| <u>          </u> | <i>Rosa multiflora</i>         | 8 seeds/pound   |
| <u>          </u> | <i>Triticum aestivum</i>       | 2 seeds/pound   |

31. You have identified the following species while conducting an all states Noxious weed seed exam on sorghum *Sorghum bicolor* subsp. *bicolor*. Using the most current version of the USDA State Noxious-Weed Seed Requirements Recognized in the Administration of the Federal Seed Act list select the following that would be classified as noxious seeds based off the rate of occurrence found.

_____	<i>Abutilon theophrasti</i>	4 seeds/pound
_____	<i>Triticum aestivum</i>	3 seeds/pound
_____	<i>Ambrosia trifida</i>	1 seed/pound
_____	<i>Sorghum halepense</i>	7 seeds/pound
_____	<i>Helianthus annuus</i>	2 seeds/pound
_____	<i>Cirsium vulgare</i>	12 seeds/pound
_____	<i>Secale cereale</i> subsp. <i>cereale</i>	3 seeds/pound
_____	<i>Avena sativa</i>	5 seeds/pound
_____	<i>Panicum miliaceum</i> subsp. <i>ruderae</i>	6 seeds/pound
_____	<i>Festuca arundinacea</i>	10 seeds/pound