SAVE this form to your desktop or computer.
Enter required information and upon completion, return to nvrb@aosca.org
by clicking on this link and attaching the application.

* if unable to submit in Word format, please contact the AOSCA office for assistance.

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES
SMALL GRAIN VARIETY REVIEW BOARD
RYE APPLICATION – PART B – 2020 - GUIDELINES

This application – **Part B** – must be submitted along with **Part A**
(please remember, you may submit ONE Part A application for multiple Part B applications)

Please email the completed applications to:
nvrb@aosca.org
Association of Official Seed Certifying Agencies

All information provided on this application shall be maintained in complete confidence by the Association of Official Seed Certifying Agencies (AOSCA), its staff, and individual members of the AOSCA Variety Review Board. Each member of the Review Board will be required to sign a statement to this effect prior to their receipt of any applications for review. Upon completion of the review process, reviewers will be required to destroy or delete all applications in their possession. One copy of each application will be maintained on file in the AOSCA office.

This application consists of two parts. These five pages are instructions and definitions to assist you in filling out the application. Please do not include them when submitting the Part B application. Please submit only the Part B application along with supporting data and attachments.

Please be aware the Review Board will require that all narrative claims made on behalf of your variety be substantiated by data showing dates and locations. Providing all of the supporting data with your application will avoid delays and assist the Review Board in acting on your application promptly.

Thank you for your cooperation.
**Introduction and Purpose of the Form**

The variety description form is to be used to describe the variety(s) whether production from this variety is to be classed as certified or non-certified seed. The breeder will use this form to describe the variety and such descriptions will be used by all other agencies in interpreting the characteristics of the variety.

The variety descriptors were developed by a working group for each major species in an effort to develop a uniform system of describing varieties. Members of the working group include both public and private plant breeders, seed analysts, seed control officials, plant variety protection officials, seed certification agencies, and industry representatives. The list of descriptors developed has been approved by all agencies involved.

**Definitions**

**Variant**
The term “variant” means any seed or plant which (a) is distinct within the variety but occurs naturally in the variety; (b) is stable and predictable with a degree of reliability comparable to other varieties of the same kind, within recognized tolerances, when the variety is reproduced or reconstituted; and (c) was originally a part of the variety as released. A variant is not an off-type.

**Off-Type**
The term “off-type” means any seed or plant not a part of the variety in that it deviates in one or more characteristics from the variety as described and may include: a seed or plant of another variety; a seed or plant not necessarily any variety; a seed or plant resulting from cross-pollinating by another kind or variety; a seed or plant resulting from uncontrolled self-pollination during production of hybrid seed; or segregates from any of the above.
Guidelines for Describing Rye Varieties

Rye Characteristics

For the descriptive purposes of this form, an acceptable KNOWN COMMERCIAL VARIETY/SAME MARKET CLASS shall be defined as one which has been approved for certification and is adapted to the same region as the variety being described.

In addition to the instructions listed here, reference materials for your use are cited.

All items should be self-explanatory except:

Variety Description Section:
1. Origin and Breeding History: Include a complete pedigree, breeding method, details of subsequent stages of selection and multiplication, experimental designation, date of release, and any other pertinent data.

2. Distinguishing Characteristics: Provide data for supporting such statements. Statistical analysis of data is encouraged.

Variety Descriptors Section:
3. Factors of Adaptation:
   Diseases and insects - When the reaction of a variety (immunity, tolerance, or level of resistance) to a disease or to an insect has been determined, this reaction should be noted. Provide data for supporting such statements.
   a. Major diseases may include viruses (e.g. leaf rust, stem rust, stripe rust, powdery mildew, anthracnose, scald, ergot) or any other diseases of importance to this variety or area of adaptation. Identify specific race reaction when applicable.
   b. Major insects may include Hessian fly (specify biotype), aphids, cereal leaf beetle, greenbug or any other insects of importance to this variety or area of adaptation.

4. Plant Characteristics:
   a. Juvenile plant growth habit - as observed at the 6 to 8 leaf stage

   Erect    Prostrate    Intermediate
5. Leaves
   a. Color at booting – Royal Horticultural Chart or Munsell Chart should be used to determine the leaf color.
   b. First leaf below flag leaf
      1) Leaf width should be measured at the widest point
         NARROW = 8 to 11 mm
         MID-WIDE = 11 to 15 mm
         WIDE = > 15 mm
      2) Leaf length should be measured from the top of the sheath to the tip of the blade
         SHORT = < 20 cm
         MID-LONG = 21 to 30 cm
         LONG = > 30 cm

6. Time of Heading:
   This is determined by observation when 50% of spikes are fully emerged from the boot.

7. Stem:
   Strength - This classification refers specifically to the ability of the stem to resist bending and breakage under field conditions, regardless of plant height.

8. Plant Height at Maturity:
   This character is measured from the surface of the ground to the tip of the spike, excluding awns (if present).

9. Time of Anthesis:
   This character is to be recorded when 50% of the spikes are in flower.

10. Spike:
    a. Size
       1) Average width - measured at the widest point on the spike, excluding awns
          NARROW = < 15 mm
          MID-WIDE = 15 to 25 mm
          WIDE = > 25 mm
       2) Average length - measured from base of the spike to the spike, excluding awns
          SHORT = < 4 cm
          SHORT to MID-LONG = 4 - 6 cm
          MID-LONG = 6 - 8 cm
          MID-LONG to LONG = 8 - 10 cm
          LONG = > 10 cm
b. Density

The density is determined by the number of millimeters occupied by 10 internodes of the rachis measured in the center of the spike. Relative scale levels (1 - 9) correspond to measurements and terms as follows:

3 = LAX = Frontier (known variety)
5 = MID-DENSE = Tetra Petkus (known variety)
7 = DENSE = Cougar (known variety)

c. Attitude at maturity - the position of the spike at maturity is an observation of the angle of inclination from the vertical (upright) position.

ERECT = < 15°
INCLINED = 15° to 45°
NODDING = > 45°

d. Average length of awns - record the average extreme lengths of awns occurring near the base of the spike to the apex.

SHORT = 0.2 to 4.0 cm
MID-LONG = 3.0 to 10.0 cm
LONG = 10.0 to 20.0 cm

e. Shattering - is an observation of the frequency and severity of shattering that occurs under normal growing conditions.

f. Threshability - is an observation of the ease or difficulty of threshing that occurs under normal harvest conditions.

11. Seed Characteristics:

In making measurements only normal (typical) kernels should be used.

a. Color – Royal Horticultural Chart or Munsell Chart should be used to determine color, includes predominant shades and variations.

b. Size

Average length - all measurements are made from the tip of the seed to the base of the kernel, excluding the brush.

SMALL = 5.0 - 6.5 mm
MEDIUM = 6.0 - 7.5 mm
LARGE = 7.0 - 8.5 mm
VERY LARGE = > 8.5 mm

References

The following publications may be used as a reference and for the standardization of terms and procedures for completing the descriptive form.


AOSA Seed Testing Handbook