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**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705**

**EXHIBIT C**

**OBJECTIVE DESCRIPTION OF VARIETY  
TRITICALE**

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)		FOR OFFICIAL USE ONLY
		PVPO NUMBER

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:** Place the appropriate number that describes the varietal character of this variety in the spaces below. Place a zero in the first space (e.g. 0 9 or 0 9 9) when number is either 99 or less or 9 or less respectively.

**1. GROWTH HABIT**

- 1 = Spring    2 = Intermediate    3 = Winter
- Juvenile Plant Growth: 1 = Prostrate    2 = Semi-Prostrate    3 = Erect
- Photoperiod: 1 = Insensitive    2 = Sensitive

**2. PLOIDY**

- 1 = Hexaploid    2 = Octoploid    3 = Other (Specify) \_\_\_\_\_
- 2n Chromosome Number

**3. MATURITY**

- 1 = Very Early    2 = Early    3 = Mid-Season    4 = Late    5 = Very Late
- Days Earlier Than \_\_\_\_\_ \*
- Same as Check \_\_\_\_\_ \*
- Days Later Than \_\_\_\_\_ \*

**4. HEIGHT**

- 1 = Dwarf    2 = Semi-Dwarf    3 = Short    4 = Mid-Tall    5 = Tall
- cm High
- cm. Shorter Than \_\_\_\_\_ \*
- Same as Check \_\_\_\_\_ \*
- cm. Taller Than \_\_\_\_\_ \*

\* Relative to a Commercial Variety Grown in the Same Trial

**5. PLANT COLOR AT BOOT STAGE**

\_\_\_ 1 = Yellow - Green 2 = Green 3 = Blue - Green

**6. STEM**

\_\_\_ Anthocyanin: 1 = Absent 2 = Present

\_\_\_ Neck Hairiness: 1 = None 2 = Slight 3 = Moderate 4 = Heavy

\_\_\_ Shape of Neck: 1 = Straight 2 = Wavy 3 = Other (Specify) \_\_\_\_\_

**7. LEAVES**

\_\_\_ Flag Leaf: 1 = Not Twisted 2 = Twisted

\_\_\_ cm Leaf Length (1<sup>st</sup> leaf below flag leaf)

\_\_\_ Waxy Bloom On Leaf At Boot: 1 = Absent 2 = Present

\_\_\_ mm Leaf Width (1<sup>st</sup> leaf below flag leaf)

\_\_\_ Leaf Carriage: 1 = Upright 2 = Recurved 3 = Dropping

\_\_\_ Auricle Color: 1 = Colorless or White 2 = Purple 3 = Other (specify) \_\_\_\_\_

**8. HEAD**

\_\_\_ Density: 1 = Lax 2 = Middense 3 = Dense

\_\_\_ Shape: 1 = Fusiform 2 = Oblong 3 = Clavate 4 = Elliptical 5 = Other (Specify) \_\_\_\_\_

\_\_\_ Awedness: 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

\_\_\_ Awn Color: 1 = White 2 = Yellow 3 = Tan 4 = Brown 5 = Black

\_\_\_ cm Head Length

\_\_\_ mm Head Width

**9. GLUMES AT MATURITY**

\_\_\_ Pubescence: 1 = Glabrous 2 = Slightly Pubescent 3 = Pubescent

\_\_\_ Color: 1 = White 2 = Yellow 3 = Tan 4 = Brown 5 = Black

\_\_\_ Length: 1 = Short 2 = Mid-Long 3 = Long

\_\_\_ Width: 1 = Narrow 2 = Mid-Wide 3 = Wide

\_\_\_ Shoulder: 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 4 = Elevated 6 = Apiculate

\_\_\_ Beak: 1 = Obtuse 2 = Acute 3 = Acuminate

**10. COLEOPTILE COLOR**

\_\_\_ 1 = White 2 = Green 3 = Purple

**11. SEED**

\_\_\_ Shape: 1 = Ovate 2 = Oval 3 = Elliptical

\_\_\_ Smoothness: 1 = Smooth 2 = Slightly Wrinkled 3 = Wrinkled

\_\_\_ Brush Area: 1 = Small 2 = Mid-Size 3 = Large

\_\_\_ Brush Length: 1 = Short 2 = Mid-Long 3 = Long

\_\_\_ Phenol Reaction: 1 = Ivory 2 = Fawn 3 = Light- Brown 4 = Brown 5 = Brown- Black

\_\_\_ Color: 1 = White 2 = Amber 3 = Red 4 = Purple 5 = Black 6 = Other (Specify) \_\_\_\_\_

\_\_\_ GMS Per 1,000 Seed

**12. DISEASE** (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant)

<input type="checkbox"/> Stem Rust (Races) _____	<input type="checkbox"/> Leaf Rust (Races) _____
<input type="checkbox"/> Stripe Rust (Races) _____	<input type="checkbox"/> Ergot
<input type="checkbox"/> Powdery Mildew _____	<input type="checkbox"/> Bacterial Stripe
<input type="checkbox"/> Septoria	<input type="checkbox"/> Yellow Dwarf
<input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Other (Specify) _____

**13. DISEASE** (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant)

<input type="checkbox"/> Greenbug	Hessian Fly Race:
<input type="checkbox"/> Cereal Leaf Beetle	<input type="checkbox"/> GP <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C
<input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G

**14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED**

Character	Variety
Plant Tillering	
Winter Hardiness	
Area Of Adaptation	
Seed Shape	

**REFERENCES**

L. W. Briggles and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, USDA.

W. E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, Contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts.

**COMMENTS**