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

EXHIBIT C

**OBJECTIVE DESCRIPTION OF VARIETY
TRITICALE (X *Triticosecale* Wittm.)**

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

1a. USE

- | | |
|--|--|
| <p><input type="text"/> 1 = Spring <input type="text"/> 2 = Intermediate <input type="text"/> 3 = Winter</p> <p><input type="text"/> Juvenile Plant Growth: 1 = Prostrate 2 = Semi-Prostrate 3 = Erect</p> <p><input type="text"/> Photoperiod: 1 = Insensitive 2 = Sensitive</p> | <p><input type="text"/> Dual <input type="text"/> Forage</p> <p><input type="text"/> Grain</p> <p><input type="text"/> Feed</p> |
|--|--|

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 (1st leaf below flag leaf)

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

___ mm Leaf Width (1st leaf below flag leaf)

___ Leaf Carriage: 1 = Upright 2 = Recurved 3 = Drooping

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

8. HEAD

___ Density: 1 = Lax 2 = Mid-dense 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)

Stem Rust (Races) _____ Leaf Rust (Races) _____
 Stripe Rust (Races) _____ Ergot
 Powdery Mildew _____ Bacterial Stripe
 Septoria _____ Yellow Dwarf
 Other (Specify) _____ Other (Specify) _____

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

Greenbug Hessian Fly Race:
 Cereal Leaf Beetle GP A B C
 Other (Specify) _____ D E F G M

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