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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
SORGHUM AND RELATED CROPS**

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

NOTE: Observations should be made on an appropriate number of well spaced plants (approximately 15 cm spacing).

1. GENERAL CATEGORIES

- ___ Kind: 1 = Sorghum 2 = Sorghum X Almun 3 = Sudangrass 4 = Johnsongrass 5 = Other _____
- ___ Inbred Type: 1 = Male Sterile 2 = Maintainer 3 = Restorer
- ___ Male Sterile Cytoplasm: 1 = A-1 2 = A-2 3 = A-3 4 = A-4 5 = A-5 6 = Other _____
- ___ Use Class: 1 = Grain 2 = Forage 3 =Silage 4 =Sugar 5 = Syrup 6 = Broomcorn 7 = Multipurpose (specify) _____

2. MATURITY

- ___ ___ ___ Days From Planting To Mid-Anthesis
- ___ ___ Number Days Earlier Than ___ 1 = TX3042 2 = Wheatland 3 = TX2737 4 = TX430 5 = Redland
- ___ ___ Number Days Later Than ___ 6 = Other Public Line (Specify) _____

3. PLANT

- ___ Coleoptile: 1 = Green 2 = Red
- ___ Plant Pigment: 1 = Tan 2 = Red 3 = Purple 4 = Other (Specify) _____

4. STALK

- ___ Diameter (Main Stalk): 1 = Slim 2 = Mid-Stout 3 = Stout

5. STALK HEIGHT

___ ___ cm From Soil To Top Of Panicle

___ cm Less Than ___ 1 = TX3042 2 = Wheatland 3 = TX2737 4 = TX430 5 = Redland

___ cm Greater Than ___ 6 = Other Public Line (Specify) _____

___ No of Recessive Height Genes Plant Height Genotype (Mark only recessive) : ___ dw1 ___ dw2 ___ dw3 ___ dw4

___ Waxy Bloom 1 = Present 2 = Absent

___ Tillers: 1 = Few 2 = Moderate 3 = Many

___ Sweetness: 1 = Sweet 2 = Insipid

___ Juiciness: 1 = Dry (Pithy) 2 = Juice

___ Panicle Exsertion: 1 = Short 2 = Medium 3 = Long

___ Degree of Senescence: 1 = Senescent 2 = Nonsenescent 3 = Intermediate

6. LEAF (First leaf below flag leaf)

___ Width (Relative to Class): 1 = Narrow 2 = Moderate 3 = Wide

___ Color: 1 = Light Green 2 = Dark Green

___ Margin: 1 = Smooth 2 = Wavy

___ Attitude: 1 = Erect 2 = Horizontal 3 = Drooping

___ Ligule: 1 = Present 2 = Absent

___ Midrib Color: 1 = White 2 = Intermediate 3 = Cloudy 4 = Yellow 5 = Brown

7. PANICLE

___ ANTHOR COLOR (At Flowering) 1 = White 2 = Light Yellow 3 = Dark Yellow 4 = Wine

___ cm Panicle Length

___ cm Less Than ___ 1 = TX3042 2 = Wheatland 3 = TX2737 4 = TX430 5 = Redland

___ cm Greater Than ___ 6 = Other Public Line (Specify) _____

___ Density: 1 = Open 2 = Semi-Open 3 = Semi-Compact 4 = Compact

___ Shape: 1 = Round 2 = Oval 3 = Cylindrical 4 = Conical 5 = Obovate

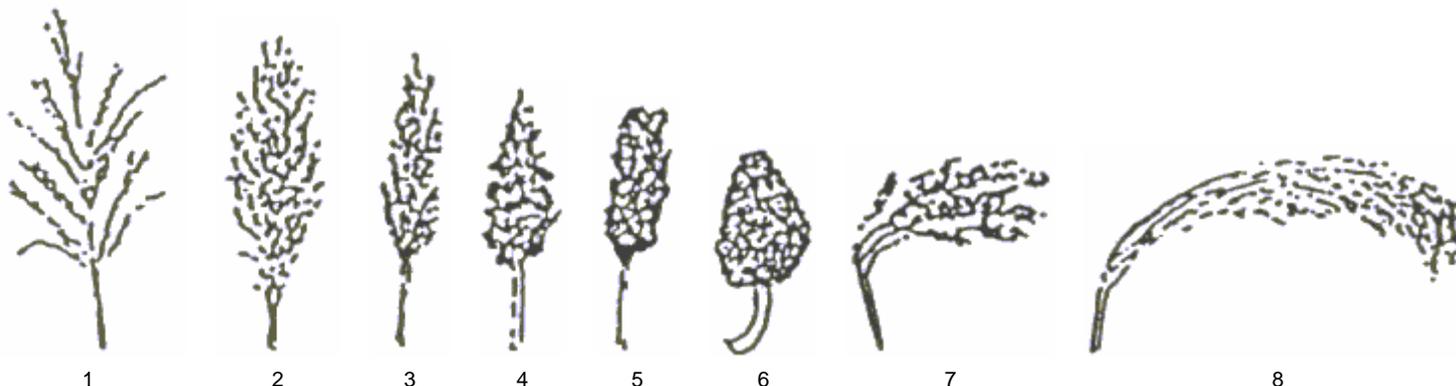
___ Length of Central Rachis (% of Panicle Length): 1 = 100% 2 = 75% 3 = 50% 4 = 25%

___ Rachis Branches (At Grain Maturity) 1 = Erect 2 = Horizontal 3 = Drooping

___ Rachis Branch Averag 1 = Short 2 = Intermediate 3 = Long

7. PANICLE (Continued)

___ Panicle Type (Select Number from Diagram Below)

**Glumes**

- ___ Length: 1 = Short 2 = Intermediate 3 = Long
- ___ % of Grain Covered by Glume: 1 = 25% 2 = 50% 3 = 75% 4 = 100% 5 = Over 100%
- ___ Texture: 1 = Papery 2 = Intermediate 3 = Tough
- ___ Color (At Grain Maturity): 1 = Black 2 = Mahogany 3 = Red 4 = Sienna 5 = Dark Tan 6 = Light Tan
- ___ Hairiness: 1 = Smooth 2 = Intermediate 3 = Hairy
- ___ Venation: 1 = Present 2 = Absent
- ___ Transverse Wrinkle: 1 = Present 2 = Absent
- ___ Awns: 1 = Absent 2 = Short 3 = Intermediate 4 = Long

8. ROOTS

- ___ 1 = Fibrous 2 = Rhizomatous

9. GRAIN

- ___ Testa: 1 = Absent 2 = Present
- ___ Testa Color: 1 = Brown 2 = Purple
- ___ Mesocarp Thickness: 1 = Thin 2 = Intermediate 3 = Thick
- ___ Epicarp Color (Genetic): 1 = White 2 = Lemon Yellow 3 = Red
- ___ Spreader (Tannin in Pericarp): 1 = Absent 2 = Present
- ___ Intensifier: 1 = Absent 2 = Present
- ___ Grain Color (Appearance): 1 = White Pearly 2 = White Chalky (Opaque 3 = Yellow 4 = Lemon Yellow
5 = Light Red 6 = Dark Red 7 = Light Brown 8 = Reddish Brown 9 = Dark Brown
10 = Purple 11 = Other (Specify) _____

9. GRAIN (Continued)

___ Endosperm Color: 1 = White 2 = Yellow

___ Endosperm Type: 1 = Starchy 2 = Waxy 3 = Sugary

___ Endosperm Texture: 1 = Floury 2 = Intermediate 3 = Corneous

___ Seed Shape: 1 = Round 2 = Oval 3 = Ovate 4 = Turtleback
 5 = Flat 6 = Wedge 7 = Other (Specify) _____

___ ___ No. of Seed per 100 G Genotype (if known): R, Y, I, Z, B1, B2, S, Tp, Wx, Fl
 Define) _____

10. DISEASE RESISTANCE (1 = Susceptible 2 = Intermediate 3 = Resistant)

Bacterial Stripe, Charcoal Rot, Maize Dwarf Mosaic Virus, Ruccinia (Rust), Bacterial Streak, Bacterial Spot, Anthracnose, Head Smut, Sooty Stripe, Downy Mildew, Grain Mold, Fusarium Stalk Rot or Others.

REACTION	DISEASE	CAUSAL AGENT	RACE OR PATHOTYPE

11. INSECT RESISTANCE (1 = Susceptible 2 = Intermediate 3 = Resistant)

Sorghum Midge, Chinch Bug, Greenbug or Others.

REACTION	INSECT	BIOTYPE

12. MOLECULAR TRAITS

13. OTHER DISTINGUISHING TRAITS