

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

EXHIBIT C
OBJECTIVE DESCRIPTION OF VARIETY

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426). OMB Collection #0581-0055

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
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<p>Cotton (<i>Gossypium</i> spp.)</p>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.81 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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Instructions:

- Please answer as many fields as possible. Missing information may be requested by the Plant Variety Protection Office. Significant omissions could delay or inhibit certificate of protection issuance.
- Place the appropriate data that describes the varietal characteristics of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Data for quantitative plant characters should be based on a minimum of 100 plants. Royal Horticultural Society or any recognized color chart may be used to determine plant colors.

Location:

Breeding Location Latitude (Decimal Degrees) Longitude (Decimal Degrees)

Trial Location Latitude (Decimal Degrees) Longitude (Decimal Degrees)

Area(s) of Adaptation

Morphology:

I. Species:

1. _____ Species:

1. *Gossypium hirsutum* L.

2. *Gossypium barbadense* L.

II. PLANT:

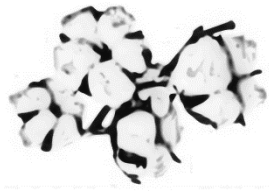
2. _____ Plant: Habit:

1. Spreading

2. Intermediate

3. Compact

3. _____ Plant: Fruiting Branch:



1. Clustered



2. Short



3. Normal

4. _____ Plant: Growth:

1. Intermediate

2. Indeterminate

3. Other (Specify)

5. _____ Plant: Length to 1st Fruiting Branch (from Cotyledonary Node) (cm)

6. _____ Plant: Number of Nodes to 1st Fruiting Branch (#)

7. _____ Plant: Height (from Cotyledonary Node to Terminal) (cm)

III. MATURITY:

8. _____ Maturity: Days until 50% Open Bolls (Days)

IV. LEAF:

9. _____ Leaf: Foliage:

1. Sparse

2. Intermediate

3. Dense

10. _____ Leaf: Color:

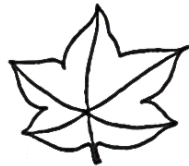
1. Greenish Yellow

2. Light Green

3. Medium Green

4. Dark Green

11. _____ Leaf: Type (Upper Most Fully Expanded Leaf):



1. Normal



2. Sub-Okra



3. Okra



4. Super Okra

IV. LEAF: (continued)

12. _____ Leaf: Pubescence (Upper Most Fully Expanded Leaf):

- | | | |
|-----------|-----------|-----------|
| 1. Absent | 2. Sparse | 3. Medium |
| 4. Dense | | |

13. _____ Leaf: Trichomes per cm² of Bottom Surface (excluding veins) (#)

14. _____ Leaf: Nectaries:

- | | |
|-----------|------------|
| 1. Absent | 2. Present |
|-----------|------------|

V. STEM:

15. _____ Stem: Lodging:

- | | |
|--------------------|----------|
| 1. Intermediate | 2. Erect |
| 3. Other (Specify) | |

16. _____ Stem: Pubescence:

- | | | |
|-------------|-----------------|----------|
| 1. Glabrous | 2. Intermediate | 3. Hairy |
|-------------|-----------------|----------|

VI. GLANDS:

17. _____ Glands: Number of Glands on Leaf:

- | | | |
|-----------------------|-----------|-----------|
| 1. Absent (Glossypol) | 2. Sparse | 3. Normal |
| 4. More than Normal | | |

18. _____ Glands: Number of Glands on Stem:

- | | | |
|-----------------------|-----------|-----------|
| 1. Absent (Glossypol) | 2. Sparse | 3. Normal |
| 4. More than Normal | | |

19. _____ Glands: Number of Glands on Calyx Lobe:

- | | | |
|-----------------------|-----------|--------------------|
| 1. Absent (Glossypol) | 2. Sparse | 3. Normal (Absent) |
| 4. More than Normal | | |

VII. FLOWER:

20. _____ Flower: Petal Color:

- | | |
|----------|-----------|
| 1. Cream | 2. Yellow |
|----------|-----------|

21. _____ Flower: Pollen Color:

- | | |
|----------|-----------|
| 1. Cream | 2. Yellow |
|----------|-----------|

22. _____ Flower: Petal Spot:

- | | |
|-----------|------------|
| 1. Absent | 2. Present |
|-----------|------------|

VIII. SEED:

23. _____ Seed: Index (g/100 Seeds, Fuzzy Basis)

24. _____ Seed: Lint Index (g Lint/100 Seeds)

IX. BOLL:

25. _____ Boll: Shape:
1. Length Less Than Width 2. Length Equal to Width 3. Length More Than Width
26. _____ Boll: Breadth:
1. Broadest at Base 2. Broadest at Middle
27. _____ Boll: Lint Percent: Picked (%)
28. _____ Boll: Lint Percent: Pulled (%)
29. _____ Boll: Gin Turnout: Picked
30. _____ Boll: Gin Turnout: Stripped
31. _____ Boll: Number of Seeds per Boll (#)
32. _____ Boll: Grams Seed cotton per Boll (g)
33. _____ Boll: Number of Locules per Boll (#)
34. _____ Boll: Type:
1. Stormproof 2. Storm Resistant 3. Open

Fiber Properties:

35. _____ Fiber Properties: Specify Method (HVI or Other)
36. _____ Fiber Properties: Length: (inches, 2.5% SL)
37. _____ Fiber Properties: Uniformity (%)
38. _____ Fiber Properties: Strength, T1 (g/tex)
39. _____ Fiber Properties: Elongation, E1 (%)
40. _____ Fiber Properties: Micronaire
41. _____ Fiber Properties: Fineness (Specify Source):
42. _____ Fiber Properties: Yarn Tenacity (cN/tex, 27 tex)
43. _____ Fiber Properties: Yarn Strength (lbs. 22's)

Disease Resistance:

(1 = Not Tested, 2 = Resistant, 3 = Intermediate, 4 = Susceptible)

- 44. _____ *Alternaria macrospora*
- 45. _____ Anthracnose
- 46. _____ Ascochyta Blight
- 47. _____ Bacterial Blight (Race 1)
- 48. _____ Bacterial Blight (Race 2)
- 49. _____ Bacterial Blight (Specify Race)
- 50. _____ Diplodia Boll Rot
- 51. _____ Fusarium Wilt
- 52. _____ Phymatotrichum Root Rot
- 53. _____ Pythium (Specify Species)
- 54. _____ *Rhizoctonia solani*
- 55. _____ Southwestern Cotton Rust
- 56. _____ *Thielaviopsis basicola*
- 57. _____ Verticillium Wilt
- 58. _____ Other (Specify)

Insect Resistance:

(1 = Not Tested, 2 = Resistant, 3 = Intermediate, 4 = Susceptible)

- 59. _____ Root-Knot Nematode
- 60. _____ Boll Weevil
- 61. _____ Bollworm
- 62. _____ Cotton Aphid
- 63. _____ Cotton Fleahopper
- 64. _____ Cotton Leafworm
- 65. _____ Cutworm (Specify Species)
- 66. _____ Fall Armyworm
- 67. _____ Reniform Nematode
- 68. _____ Grasshopper (Specify Species)
- 69. _____ Lygus (Specify Species)
- 70. _____ Pink Bollworm
- 71. _____ Spider Mite (Specify Species)
- 72. _____ Stink Bug (Specify Species)
- 73. _____ Thrips (Specify Species)

Insect Resistance: (continued)

(1 = Not Tested, 2 = Resistant, 3 = Intermediate, 4 = Susceptible)

74. _____ Tobacco Bud Worm

75. _____ Other (Specify)

Herbicide Resistance:

(1 = Not Tested, 2 = Resistant, 3 = Intermediate, 4 = Susceptible)

76. _____ Glyphosate (Roundup)

77. _____ Glyphosate and 2,4-D (Enlist)

78. _____ Glyphosate and Fomesafen (Roundup Ready Plus, Warrant Ultra)

79. _____ Glyphosate, Glufosinate, and Dicamba (Xtendflex, Bollgard II Xtendflex)

80. _____ Glufosinate (Liberty Link)

81. _____ Other (Specify)

[PLEASE ENTER ADDITIONAL VARIETY TRAITS ON NEXT PAGE]

Disease Resistance:

Insect Resistance:

Comments:

For more information and guidance:
UPOV GUIDELINES FOR THE CONDUCT OF TESTS FOR DISTINCTNESS, UNIFORMITY AND STABILITY TG/088
<https://www.upov.int/edocs/tgdocs/en/tg088.pdf>