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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

Okra (<i>Abelmoschus esculentus</i> (L.) Moench)						
NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME				
ADDRESS (Street and No. or RD No., City, State, and Zip Code, Country)		FOR OFFICIAL USE ONLY				
		PVPO NUMBER				
PLEASE READ ALL INSTRUCTIONS CAREFULLY:						
Complete the form as fully as possible. For quantitative characterist check variety grown in the same trial(s). Give detailed analyzed trial comparisons are important in distinguishing your variety from another Bureau of Standards), and specify the standard used. Use leading z ($0 9$, $0 8 2$).	I data in Exhibit D, if necessary to substantiate novelter, use a standard, published color chart (e.g., Royal	y of your variety. If color				
Check Varieties: Use "Clemson Spineless" when possible; but, give checks.	comparisons of your variety with other varieties if da	ta are available; specify names of				
1. MATURITY:						
Heat units (growing degree days) to 50% bloom (at le	east one open flower on 50% of plants) Check Variety					
Days to 50% Bloom: Application Variety	Check Variety					
Application variety at (50% bloom):						
Days Earlier Than:	(Check Variety)					
Days Later Than:	(Check Variety)					
Location(s) of Trial(s)		_				
Date(s) Seeded		_				
2. CHROMOSOME NUMBER:						
=2n						
3. PLANT:						
	Medium (Clemson Spineless) Very Tall (Perkins Mammoth)					
Branches at Basal Nodes: 1 = Absent 2 = Present						

3. PLANT: (continued)						
_		Plant Height (Mature Plant at End of Growing Season):				
		cm, Application Variety		cm, Check Variety		
	Appl	ication Variety:				
		cm Taller Than:		(Check Variety)		
-		cm Shorter Than:		(Check Variety)		
ı	 Num	ber of Nodes on Main Stem:		(Grick Variety)		
		Application Variety		Check Variety		
	 Num	ber of Lateral Branches:		·		
		Application Variety		Check Variety		
•	Tota	Il Number of Fruiting Nodes (on Main Stem Plus Branches):				
		Application Variety		Check Variety		
	Nod	e Number of First Bloom (Cotylendonary Node = 0):				
		Application Variety		Check Variety		
4. \$	STEM:					
		Color: 1 = Green 2 = Reddish or Purplish-green 3 = Dee	ep Red			
[Spiny hairs: 1 = Absent 2 = Present				
<i>E</i> 1	EAE (Mole	so observations on leaves at 7 th through 11 th pades on plant).				
3. L	EAF (IVIAK	Make observations on leaves at 7 th through 11 th nodes on plant): Petiole Anthocyanin: 1 = Absent 2 = Present				
Ī		Leaf-vein Anthocanin: 1 = Absent 2 = Present				
Ī		Leaf=blade Anthocanin: 1 = Absent 2 = Present				
Ĩ		Leaf lobing: 1 = Shallow (Emerald) 2 = Intermediate (Dwarf Green Long Pod) 3 = Deep (Clemson Spineless)				
[Spiny hairs: 1 = Absent 2 = Present				
^ F	I OWED.					
6. F	LOWER	Cally color: 1 - Green 2 - Reddish				
Ì	Ħ	Calyx color: 1 = Green 2 = Reddish Calor of basel potal spot on outside of potal: 1 = Red 2 = Vallow or Whitish				
Ī		Color of basal petal spot on outside of petal: 1 = Red 2 = Yellow or Whitish Petal Color: 1 = Yellow 2 = White				
7. F	RUIT:					
		Pod color (at green harvest stage): 1 = White or Dream (White Velvet) 2 = Light Green (Lousiana Green Velvet) 3 = Medium to Dark Green (Emerald) 4 = Pink or Red (Red Okra)				
		Spiny Hairs on Pod: 1 = Absent 2 = Present				
		Pod Cross-section: 1 = Round 2 = Moderately Angled 3 = Sharply Angled				
	_	Fruiting Pedicel Texture: 1 = Flexible (Not Suitable for "Snap" Harvest 2 = Brittle (Pod Easily Snapped off)				
		Mature, Dry Pod: 1 = Indehiscent 2 = Dehiscent				
r	Mature Pod Length:					
		mm Application Variety		mm Check Variety		

7. FRUIT: (continued)							
Mature Pod Diameter:							
mm Application Variety	mm Check Variety						
Ascorbic Acid Content of Edible Pods (mg/100 g. fresh wt.):							
mg Application Variety	mg Check Variety						
	mg Check Variety #2						
Vitamin A Content of Edible Pods (International Units/mg. fresh wt.):							
I.U. Application Variety	I.U. Check Variety						
	I.U. Check Variety #2						
8. SEED:							
Number per fruit:							
Application Variety	Check Variety						
	Check Variety #2						
Seed Weight (g per 1,000 seeds):							
g. Application Variety	g. Check Variety						
	g. Check Variety #2						
1 = Tight-fitting on Locule 2 = Loose-fitting in Locule							
Hilum: 1 = Not Hairy 2 = Hairy	Hilum: 1 = Not Hairy 2 = Hairy						
Oil Composition as % Dry Weight:							
% Application Variety	% Check Variety						
	% Check Variety #2						
9. DISEASE REACTION: (code: 1 = Not Tested, 1 = Susceptible 2 = Resi	istant)						
Okra Yellow-vein Mosaic Virus	Cercospora Blight (C. spp.)						
Powdery Mildew (Erysiphe cichoreacaerum)	Fusarium Wilt (F. oxysporum)						
Verticillium Wilt (V. albo-atrum)	Other						
40 PEGE PEACTION (seek 4 New Torted 4 Occupatible 0 Pacific							
10. PEST REACTION: (code: 1 = Not Tested, 1 = Susceptible 2 = Resista							
Nematodes (Meloidogyne incognita)	Aphid, Cotton (<i>Aphis gossypii</i>)						
Aphid, Melon (Myzus persicae)	Blister Beetle (<i>Epicauta</i> spp.) Borer, Shoot (<i>Earias fabia</i>)						
Borer, Fruit (<i>Earias insulana</i>) Corn Earworm (<i>Heliothis zea</i>)	Flea Beetles (Specify)						
Borer, Fruit (<i>Earias insulana</i>)	Borer, Shoot (<i>Earias fabia</i>)						
Corn Earworm (Heliothis zea)	Flea Beetles (Specify)						
Leaf Miner (<i>Liriomyza sativae</i>)	Looper (<i>Trichoplusia ni</i>)						
Stinkbug (Nezara viridula)	Other						
11. ENVIRONMENTAL STRESS: (code: 0 = Not Tested, 1 = Susceptible, 2= Resistant)							
Drought	Heat						
Atmospheric Pollutants (Specify Types)							

References

- 1. Boswell, V.R. & L.B. Reed. 1962. Okra Culture. U. S. Department of Agriculture Leaflet No. 449. Washington D.C.
- 2. Erickson, H.T. & F.A.A. Couto. 1963. Inheritance of four plant and floral characters in okra (*Hibiscus Esculentus* L.) Proceedings of the American Society for Horticultural Science 83:605-608.
- 3. Sackett, C. 1975. Okra. Friut & Vegetable Facts & Pointers. United Fresh Fruit and Vegetable Assn., Washington, D.C., 7 pages.