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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
Safflower (*Carthamus tinctorius*)**

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 characteristics of this variety in the boxes below.

Place a zero in the first box (e.g., or) when the number is either 99 or less or 9 or less.

1. MATURITY: (From Emergence)

<input type="text"/>	Location:	1 = California & Arizona	2 = Midwest	<input type="text"/> <input type="text"/> <input type="text"/>	No. of Days to Maturity	
<input type="text"/> <input type="text"/>	No. of Days Earlier Than	<input type="text"/>	}	1 = Gila	2 = Frio	3 = US-10
<input type="text"/> <input type="text"/>	No. of Days Later Than	<input type="text"/>				
<input type="text"/>	Maturity Class:	1 = Early (Less Than 110 Days)	2 = Medium Early (110 to 120 Days)			
		3 = Medium Late (121 to 130 Days)	4 = Late (More than 130 Days)			

2. PLANT HEIGHT AT MATURITY:

<input type="text"/>	cm Height				
<input type="text"/> <input type="text"/>	cm Shorter Than	}	1 = Gila	2 = Frio	3 = US-10
<input type="text"/> <input type="text"/>	cm Taller Than				

3. FLOWER COLOR:

<input type="text"/> <input type="text"/>	Type:	<u>Fresh Flower</u>	<u>Wilted Flower</u>	<u>Fresh Flower</u>	<u>Wilted Flower</u>
		01 = White.....	Greyish-white	07 = Orange	Light Red
		02 = Light Yellow	Greyish-white	08 = Reddish Orange	Deep Red
		03 = Light-Orange Base.....	Orange Base	09 = Yellow Base & Tips of	
		04 = Yellow	Yellow (US-10)	Lobes Orange	Orange
		05 = Yellow	Light Orange Base	10 = Pale-yellow	Pale-Yellow
		06 = Yellow	Orange (Gila)	11 = Other (Specify) _____	

4. SPINES ON INVOLUCRAL BRACTS:

<input type="text"/>	1 = Absent	2 = Present			
<input type="text"/>	Location:	1 = Tip Only	2 = Tip & Few Basal	3 = Tip & Along Margins	4 = Margins Only
<input type="text"/> <input type="text"/>	mm Length (A)	<input type="text"/> <input type="text"/>	Number (B)	<input type="text"/> <input type="text"/> <input type="text"/>	Spine Index (A x B)

4. SPINES ON INVOLUCRAL BRACTS: (continued)

Spine Index Class: 1 = 0 – 20 2 = 21 – 40 3 = 41 – 60 4 = 61 – 80 5 = 81 – 100 6 = 101 – 120

5. HEADS: (For Plant Populations of 593,000 Plants/Hectaire)

mm Diameter (Primary Heads)

Seed Shattering Percentage: 1 = 1 – 10 2 = 11 – 30 3 = Over 30

6. SEED:

Color: 1 = White 2 = Cream 3 = Gray 4 = Gray with White Tip
5 = Gray Striped 6 = Purple Striped 7 = Brown Striped 8 = Brown Blotch
9 = Other (Specify) _____

Hull Type: 1 = Normal 2 = Thin-hulled 3 = Striped 4 = Reduced

mm Width mm Length Grams per 1000 Seeds

7. SEEDLING VIGOR: (Six Weeks After Seeding at 2.5 cm. Depth with Ample Moisture for Germination; Mean of 20 Plants)

Number of Nodes cm Tall (Soil Surface to Tip)

8. COLD RESISTANT AT DIFFERENT STAGES AND TEMPERATURES:

Rosette: }
 Bolting: } 1 = - 10° c 2 = -5° c 3 = 0° c 4 = 5° c 5 = 10° c
 Flowering: }

9. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> Rust (Specify Races) _____	<input type="checkbox"/> Phytophthora Root Rot	<input type="checkbox"/> Pythium Root Rot
<input type="checkbox"/> Fusarium Wilt	<input type="checkbox"/> Verticillium Wilt	<input type="checkbox"/> Cercospora Leaf Spot
<input type="checkbox"/> Scelotina Stem Rot	<input type="checkbox"/> Alternaria Leaf Spot	<input type="checkbox"/> AlternariaBud Rot
<input type="checkbox"/> Botrytis Head Rot	<input type="checkbox"/> Rhizoctonia Blight	<input type="checkbox"/> Bacterial Blight
<input type="checkbox"/> Cucumber Mosaic	<input type="checkbox"/> Phyllody	<input type="checkbox"/> Other (Please Specify) _____

10. INSECT AND NEMATODE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> Green Peach Aphid	<input type="checkbox"/> Leaf-curl Plum Aphid	<input type="checkbox"/> Black Bean Aphid
<input type="checkbox"/> Western Flower Thrips	<input type="checkbox"/> Lygus Bugs	<input type="checkbox"/> Stinkbugs
<input type="checkbox"/> Root-knot Nematode	<input type="checkbox"/> Other (Please Specify) _____	

11. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
Frost Hardiness		Lodging	
Seed Shattering		No. of Branches	
Seedling Vigor			

12. GIVE THE FOLLOWING DATA FOR SUBMITTED AND A SIMILAR VARIETY*:

VARIETY	HULL (%)	PROTIEN (%)	OIL (%)	IODINE (%)	ACIDS SATURATED (%)	ACIDS UNSATRATED	
						OLIEC (%)	LINOLEIC (%)
Submitted							
Similar							
Name of Similar Variety							

* Hull, protien, and oil percentages expressed for whole undecorticated seed; acids expressed as percentages of oil.

REFERENCES

1. Knowles, P.F. & M.D. Miller. 1965. *Safflower*. Cal. Ag. Exp. Sta. Circ. 532. 51 p.
2. Weiss, E.A. 1971. *Castor, Sesame, and Safflower*. Barnes & Noble, Inc. N.Y. 901 p.
3. Nickerson's or any recognized color fan may be used to determine plant colors of the described variety.

COMMENTS: