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U.S. Department of Agriculture  
 Agricultural Marketing Service  
 Science and Technology Division,  
 Plant Variety Protection Office

Exhibit C

## OBJECTIVE DESCRIPTION OF VARIETY TREFOIL (*Lotus* spp.)

Name of Applicant(s)	Temporary Designation	Variety Name
Address (Street & No, or R.F.D. No., City, State Zip Code and Country)		FOR OFFICIAL USE ONLY
		PVPO Number

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

Place numbers in the boxes (e.g.,   ) for the characters that best describe typical plants of this variety.

**1. SPECIES:**

 

1 = Birdsfoot Trefoil (*L. corniculatus*)    2 = Narrow Leaf Trefoil (*L. tenuis*)    3 = Big Trefoil (*L. pedunculatus*)

4 = Other (Specify) \_\_\_\_\_

**2. MATURITY:**

 

Days Earlier Than .....

 

Maturity Same as .....

Days Later Than .....

} Comparison Variety

**3. PLANT (Spring at 50% bloom):**

  

cm Height

 

cm Width (Spaced Plants – Max. Spread)

 

cm Shorter than .....

 

cm Narrower Than.....

Height Same as .....

} Comparison Variety

Width Same as .....

} Comparison Variety

 

cm Taller Than .....

 

cm Wider Than .....

Type: 1 = Determinate (*Viking*)    2 = Interdeterminate (*Empire*)

**4. STEM:**

Habit: 1 = Decumbent (*Empire*)    2 = Semierect (*Carroll*)    3 = Erect (*Viking*)

Surface: 1 = Glabrous (*Carroll*)    2 = Slightly Pubescent (*Marshfield*)    3 = Pubescent (*Beaver*)

Color: 1 = Greenish    2 = Reddish

Rhizomes: 1 = Absent    2 = Present

**5. LEAVES:** (Typical Terminal Leaflet)

Shape 1 = Linear 2 = Lanceolate 3 = Linear-lanceolate 4 = Oblong 5 = Obovate  
6 = Other (Specify) \_\_\_\_\_

Surface: 1 = Glabrous 2 = Slightly Pubescent 3 = Pubescent

Color: 1 = Glaucous Green (*Mansfield*) 2 = Green 3 = Other (Specify) \_\_\_\_\_

<input type="checkbox"/>	Length Shorter than.....	<input type="checkbox"/>	} Comparison Variety	<input type="checkbox"/>	Width Narrower Than.....	<input type="checkbox"/>	} Comparison Variety
<input type="checkbox"/>	Length Same as.....	<input type="checkbox"/>		<input type="checkbox"/>	Width Same as.....	<input type="checkbox"/>	
<input type="checkbox"/>	Length Longer Than.....	<input type="checkbox"/>		<input type="checkbox"/>	Width Wider Than.....	<input type="checkbox"/>	

**6. FLOWERS:**

Petal Color (Freshly Expanded): 1 = Yellow 2 = Orange 3 = Red 4 = Other (Specify) \_\_\_\_\_

Petal Pattern: 1 = Orange Stripes 2 = Red Stripes 3 = Other (Specify) \_\_\_\_\_

Keel Tip Color: 1 = Yellow 2 = Red 3 = Brown

Calyx Teeth: Tube Length Ratio: 1 = 2:1 2 = 1:1 3 = 1:2 4 = 1:3

**7. PODS:**

% Shattering (Tan ripe, 35% relative humidity over sulfuric acid): 1 = Low (1-10%) 2 = Medium (11-30%) 3=High (Above 30%)

<input type="checkbox"/>	mm Length	} Comparison Variety
<input type="checkbox"/>	mm Shorter than.....	
<input type="checkbox"/>	Height Same as.....	
<input type="checkbox"/>	mm Longer Than.....	<input type="checkbox"/>

**8. SEED:**

Shape: 1 = Oval 2 = Round 3 = Other (Specify) \_\_\_\_\_

Color (Predominately): 1 = Buff 3 = Brown 5 = Yellowish Green 7 = Olive 9 = Purplish Black  
2 = Light Brown 4 = Dark Brown 6 = Olive Green (*Marshfield*) 8 = Dark Purple 10 = Nearly Black  
11 = Other (Specify) \_\_\_\_\_

% (Color Frequency) Color (Specify) \_\_\_\_\_

% (Color Frequency) Color (Specify) \_\_\_\_\_

% (Color Frequency) Color (Specify) \_\_\_\_\_

Speckling (Dark Spots): 1 = None 2 = Few 3 = Many

<input type="checkbox"/>	Grams per 1000 seed	} Comparison Variety
<input type="checkbox"/>	Grams Lighter Than.....	
<input type="checkbox"/>	Weight Same as.....	
<input type="checkbox"/>	Grams Heavier Than.....	<input type="checkbox"/>

**9. GROWTH:**

Recovery from Crown-Buds as Compared to Stubble-buds (cut to 7-11 cm Height when Coming Into Bloom):

Growth from Crown at Brown Pod Stage: 1 = None 2 = Some 3 = Extensive

**9. GROWTH:** (continued)

Growth Rate (Seedling & Spring Growth Compared when Differences are Most Obvious):

	SEEDLING	CUTTING RECOVERY	SPRING	
Slower than .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	} Comparison Variety
Same as .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Faster than .....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**10. DISEASE, INSECT, AND NEMATODE:** (0 – Unknown 1 = Susceptible 2 = Resistant) APPEND TRIAL DATA:

<input type="checkbox"/>	Rhizoctonia Blight ( <i>Rhizoctonia solani</i> )	<input type="checkbox"/>	Anthraxnose ( <i>Colletotrichum trifolii</i> )
<input type="checkbox"/>	Black Patch ( <i>Rhizoctonia Leguminicola</i> )	<input type="checkbox"/>	Leaf Spot ( <i>Myrothecium verrucaria</i> )
<input type="checkbox"/>	Crown & Root Rot ( <i>Macrophomina phaseoli</i> )	<input type="checkbox"/>	Meadow Spittlebug ( <i>Philaenus spumarius</i> )
<input type="checkbox"/>	Crown & Root Rot ( <i>Macrophomina terrestris</i> )	<input type="checkbox"/>	Potato Leafhopper ( <i>Empoasca fabae</i> )
<input type="checkbox"/>	Crown & Root Rot ( <i>Sclerotinia trifoliorum</i> )	<input type="checkbox"/>	Alfalfa Plantbug ( <i>Adelphocoris lineolatus</i> )
<input type="checkbox"/>	Fusarium Blight ( <i>Fusarium roseum</i> )	<input type="checkbox"/>	Trefoil Seed Chalcid ( <i>Bruchophagus gibbus</i> )
<input type="checkbox"/>	Leaf Spot ( <i>Cerospora loti</i> )	<input type="checkbox"/>	Rapid Plantbug ( <i>Adelphocoris rapidus</i> )
<input type="checkbox"/>	Southern Blight ( <i>Sclerotium rolfsii</i> )	<input type="checkbox"/>	Lygus Bug ( <i>Lygus lineolaris</i> )
<input type="checkbox"/>	Leaf Spot, Stem Canker ( <i>Stemphylium loti</i> )	<input type="checkbox"/>	Other (Specify) _____
<input type="checkbox"/>	Phomopsis Blight ( <i>Phomopsis loti</i> )	<input type="checkbox"/>	Other (Specify) _____

COMMENTS (If more space is needed, use page 5):

**11. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY:**

For the following characteristics indicate degree of resemblance (D.R.) with one of the following numbers: 1 = Submitted variety is less than, lighter, or inferior to similar variety 2 = Same as 3 = More than, darker, or superior, etc.

CHARACTER	SIMILAR VARIETY	D.R.	CHARACTER	SIMILAR VARIETY	D.R.
Leaflet Shape			Leaf Pubescence		
Internode Length			Stems/Plant (1st Year)		
Flowers/Umbel			Seeds/Pod		
Pods/Umbel			Winter Hardiness		
Seed Color			Heat Tolerance		
Late Season Forage Quality			Drought Tolerance		
Wet Soil Tolerance			Rhizoctonia Solani Resistance		

COMMENTS: