

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 1.4 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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY
Bentgrass (*Agrostis* spp.)**

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. Use leading zeroes when necessary (e.g.,). Descriptions of the characters should represent those that are typical for the variety. The minimum duration of tests should normally be two similar growing periods. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place. The field tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made up to the end of the growing period. As a minimum, each test should include a total of 60 spaced plants. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions. Each test should consist of 60 single spaced plants per variety arranged in 3 to 6 replicates, i.e. plots of 20, 15, 12 and 10 plants. More replicates are generally more efficient when fewer varieties are included in the test. Characteristics should be measured on each plant in the trial so that a mean value per plot can be obtained: from these data a standard deviation per variety can be derived and the data submitted to a 'two-way' analysis of variance. The significance of measured differences should be taken into account for assessing distinctness and the preparation of descriptions. Unless otherwise stated, all observations should be made on plots with single spaced plants. Unless otherwise stated, all observations determined by measurement or counting should be made on 60 plants or parts of 60 plants. Give additional description for all characteristics that cannot be adequately described in the form below.

COMPARISON VARIETIES FOR USE BELOW

- 1 = Astoria 2 = Exeter 3 = Highland 4 = Seaside 5 = Penncross
 6 = SR 7200 7 = Astra 8 = Other (Please Specify) _____

1. SPECIES:

- 1 = Colonial (Browntop) *A. tenuis* 2 = Creeping *A. stolonifera* (*A. palustris*) 3 = Velvet *A. Canina* spp *canina*
 4 = Brown Bent *A. canina* spp *montana* 5 = Red Top *A. gigantea*

2. ADAPTATION: (0 = Not Tested, 1 = Not Adapted, 2 = Adapted)

- Northeast Southeast North Central Pacific Northwest Southwest
 5 = Other (Specify) _____

3. MATURITY:

(At First Anthesis) Use Comparison Varieties

<input type="text"/> <input type="text"/>	Days Earlier Than	<input type="text"/>	Comparison Variety
	Maturity the Same As.....	<input type="text"/>	Comparison Variety
<input type="text"/> <input type="text"/>	Days Later Than	<input type="text"/>	Comparison Variety

(Date of Heading) Use Comparison Varieties

<input type="text"/> <input type="text"/>	Days Earlier Than	<input type="text"/>	Comparison Variety
	Maturity the Same As.....	<input type="text"/>	Comparison Variety
<input type="text"/> <input type="text"/>	Days Later Than	<input type="text"/>	Comparison Variety

4. HEIGHT: (Average of Longest 10 Shoots from Soil Surface to Top of Head)

<input type="text"/> <input type="text"/> <input type="text"/>	cm Height (at Maturity)	<input type="text"/> <input type="text"/>	cm Shorter Than	<input type="text"/>	Comparison Variety
		<input type="text"/> <input type="text"/>	Height the Same as	<input type="text"/>	Comparison Variety
		<input type="text"/> <input type="text"/>	cm Taller Than	<input type="text"/>	Comparison Variety

5. GROWTH HABIT:

<input type="text"/> <input type="text"/> <input type="text"/>	% Prostrate	<input type="text"/> <input type="text"/> <input type="text"/>	% Decumbent	<input type="text"/> <input type="text"/> <input type="text"/>	% Geniculate	<input type="text"/> <input type="text"/> <input type="text"/>	% Erect
--	-------------	--	-------------	--	--------------	--	---------

6. VEGETATIVE REPRODUCTION:

Rhizomes:	<input type="text"/>	1 = Absent	<input type="text"/>	2 = Present
Stolons:	<input type="text"/>	1 = Absent	<input type="text"/>	2 = Present
<input type="text"/> <input type="text"/> <input type="text"/>	% Rhizomes	<input type="text"/> <input type="text"/> <input type="text"/>	% Stolons	

7. LEAF BLADE:

Color:	<input type="text"/>	1 = Yellowish Green (Cohansey) 3 = Green (Exeter) 5 = Blush Green (Highland)	2 = Light Green (Washington) 4 = Dark Green (Kingstown, Tracenta) 6 = Other (Please Specify) _____
Texture: (Finished)	<input type="text"/>	1 = Very Fine (Kingstown) 3 = Medium Fine (Astoria) 5 = Medium Coarse (Virginia)	2 = Fine (Exeter) 4 = Medium (Seaside) 6 = Coarse (Vermont)

Lower Surface	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Smooth	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Rough
Upper Surface:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Smooth	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Rough
Margins:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Smooth	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	% Rough

<input type="text"/> <input type="text"/>	mm Width (Average of 10)	<input type="text"/> <input type="text"/>	mm Narrower Than	<input type="text"/>	Comparison Variety
		<input type="text"/> <input type="text"/>	Width Same as.....	<input type="text"/>	Comparison Variety
		<input type="text"/> <input type="text"/>	mm Wider Than	<input type="text"/>	Comparison Variety
<input type="text"/> <input type="text"/>	mm Width (Flag Leaves)	<input type="text"/> <input type="text"/>	cm Length (Flag Leaves)		

8. LEAF SHEATH:

Anthocyanin:	<input type="text"/>	1 = Absent 2 = Present	<input type="text"/> <input type="text"/> <input type="text"/>	% Red Sheaths
--------------	----------------------	------------------------	--	---------------

9. **LIGULE:** (Lower and Middle Leaves)

Shape at Apex: % Acute % Rounded % Truncate

% Other (Please Specify) _____

Pubescence: % Glabrous % Pubescent

Margins: % Entire % Toothed

Other (Please Specify) _____

. mm Length

10. **LEMMA:**

Shape: % Lanceolate % Ovate

% Obovate % Elliptic

% Oblong % Other (Please Specify) _____

. mm Width . mm Length (Exclusive of awn)

Color: % Buff % Silvery

% Other (Please Specify) _____

Surface: % Glossy % Dull

Texture: % Smooth % Punctate

10. **LEMMA:** (continued)

Pubescence: % Glabrous % Sparce

% Copious

Basal Hairs: % Absent % Few

% Many % Short

% Long % Apressed

% Ascending % Spreading

Awns: % Absent % Few

% Many % Awn-pointed

% Short % Long

% Straight % Genuclate

Awn Insertion On Lemma: % Basal % Middle

% Distal

11. PANICLE:

Type: (in Anthesis):	<input type="text"/> <input type="text"/> <input type="text"/>	% Open	<input type="text"/> <input type="text"/> <input type="text"/>	% Compact
Anthocyanin:	<input type="text"/> <input type="text"/> <input type="text"/>	% Absent	<input type="text"/> <input type="text"/> <input type="text"/>	% Present
Branches in Anthesis:	<input type="text"/> <input type="text"/> <input type="text"/>	% Appressed	<input type="text"/> <input type="text"/> <input type="text"/>	% Ascending
	<input type="text"/> <input type="text"/> <input type="text"/>	% Spreading		
Branches in Fruit:	<input type="text"/> <input type="text"/> <input type="text"/>	% Appressed	<input type="text"/> <input type="text"/> <input type="text"/>	% Ascending
	<input type="text"/> <input type="text"/> <input type="text"/>	% Spreading		
Branch Surface:	<input type="text"/> <input type="text"/> <input type="text"/>	% Smooth	<input type="text"/> <input type="text"/> <input type="text"/>	% Scabrous

12. SEED:

. Grams per 1000 seeds

13. SPRING GREEN UP:

1 = Earl (Exeter) 2 = Medium (Astoria) 3 = Late (Kingstown)

14. ENVIRONMENTAL RESISTANCE: (0=Not Tested 1=Susceptible 2=Partial resistance/tolerant 3=Resistant)

Cold Heat Drought Shade Other (Please Specify) _____

15. DISEASE RESISTANCE: (0=Not Tested 1=Susceptible 2=Partial resistance/tolerant 3=Resistant)

<input type="text"/> Red Leaf Spot (<i>Drechslera erythrospila</i>)	<input type="text"/> Helminthosporium Leaf Spot (<i>Bipolaris sorokiniana</i>)
<input type="text"/> Melting Out (<i>Drechslera poae</i> (<i>Helminthosporium vagans</i>))	<input type="text"/> Dollar Spot (<i>Sclerotinia homeocarpa</i>)
<input type="text"/> Pythium Blight (<i>P. aphanidermatum</i>)	<input type="text"/> Pythium Blight (<i>P. ultimum</i>)
<input type="text"/> Fusarium Blight (<i>F. roseum</i>)	<input type="text"/> Fusarium Blight (<i>F. tricinctum</i>)
<input type="text"/> Fusarium Patch (Pink Snow Mold (<i>F. nivale</i>))	<input type="text"/> Powdery Mildew (<i>Erysiphe graminis</i>)
<input type="text"/> Ophiobolus Patch (<i>O. graminis</i>)	<input type="text"/> Stripe Smut (<i>Ustilago striiformis</i>)
<input type="text"/> Copper Spot (<i>Gloeocercospora sorghi</i>)	<input type="text"/> Typhula Blight (Snow Scald) (<i>T. incarnata</i>)

15. DISEASE RESISTANCE: (0=Not Tested 1=Susceptible 2=Partial resistance/tolerant 3=Resistant) continued

<input type="text"/> Red Thread (<i>Corticium fuciforme</i>)	<input type="text"/> Brown Patch (<i>Rhizoctonia solani</i>)
<input type="text"/> Stem Rust (<i>Puccinia graminis</i>)	<input type="text"/> Crown Rust (<i>P. coronata</i>)
<input type="text"/> Leaf Rust (<i>P. poae-nemoralis</i>)	<input type="text"/> Other (Please Specify) _____

16. INSECT RESISTANCE: (0=Not Tested 1=Susceptible 2=Partial resistance/tolerant 3=Resistant)

<input type="text"/> European Chafer (<i>Amphimallon solstitialis</i>)	<input type="text"/> Garden Chafer (<i>Phyllopertha horticola</i>)
<input type="text"/> Chinch Bug (<i>Blissus insularis</i>)	<input type="text"/> Webworm (<i>Crambus</i> spp.)
<input type="text"/> Armyworm (Cutworm) (<i>Pseudaletia unipuncta</i>)	<input type="text"/> Other (Please Specify) _____

17. GIVE VARIETY(S) THAT MOST CLOSELY RESEMBLE THE SUBMITTED VARIETY: For the following characteristics indicate the 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	VARIETY		CHARACTER	VARIETY	
Growth Habit			Leaf Color		
Awn Length			Panicle Type		
Seed Weight			Turf Fineness		
Cold Resistance			Heat Resistance		
Drought Resistance			Shade Resistance		
Brown Patch					

18. COMMENTS: