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

OBJECTIVE DESCRIPTION OF VARIETY Barley (Hordeum vulgare L.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME				
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Cod	FOR OFFICIAL USE ONLY					
	PVPO NUMBER					
PLEASE READ ALL INSTRUCTIONS CAREFULLY:						
Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (i.e., 0 9 9 or 0 9 or less.						
1. GROWTH HABIT						
1 = Spring 2 = Facultative Winter 3 =	Winter					
Early Growth: 1 = Prostrate 2 = Prostrate to Semi-Prostrate 3 = Semi-Prostrate 4 = Semi-Prostrate to Erect 5 = Erect						
2. MATURITY: (50% Flowering)						
1 = Early 2 = Early to Midseason 3 = Midseason 4 = Midseason to Late 5 = Late						
	*					
Same as Check *						
No. of Days Later Than *						
3. PLANT: (From Soil Level to Top of Head)						
1 = Semi-Dwarf 2 = Short	3 = Medium Tall 4 = Tall	5 = Other (specify)				
cm Shorter Than	*					
Same as Check	*					
cm Taller Than	*					
4. STEM						
Exertion (Flag to Spike at Maturity): $1 = (0 - 3 \text{ cm})$ $2 = (3 - 10 \text{ cm})$ $3 = (10 - 15 \text{ cm})$ $4 = \text{Other (specify } \underline{\hspace{1cm}}$						
Anthocyanin: 1 = Absent 2 =	Present					
No. of Nodes (Originating from Node Ab	No. of Nodes (Originating from Node Above Ground)					
Collar Shape: 1 = Closed 2 =	V-Shaped 3 = Open 4 = Modified Closed or	Open 5 = Other (specify)				
Shape of Neck: 1 = Straight 2 =	Slightly Snaky 3 = Snaky 4 = Other (Specify	<i>'</i>)				

5. LEAF						
	Basal Leaf Sheath (Seedling): 1 = Glabrous 2 = Pubescent					
	Position of Flag Leaf (At Boot Stage): 1 = Drooping 2 = Horizontal 3 = Upright 4 = Other (specify)					
	Waxiness: 1 = Absent (Glossy) 2 = Slightly Waxy 3 = Waxy 4 = Other (specify)					
	mm Width (First Leaf Below Flag Leaf)					
	cm Length (First Leaf Below Flag Leaf)					
	Anthocyanin in Leaf Sheath: 1 = Absent 2 = Present					
6. HEAD						
	Type: 1 = Two-Rowed 2 = Six-Rowed					
	Density: 1 = Lax 2 = Erect (Not Dense) 3 = Erect (Dense) 4 = Other (specify)					
Ц	Head Attitude: 1 = Erect 2 = Semi-Erect 3 = Nodding 4 = Other (specify)					
	Shape: 1 = Tapering 2 Strap 3 = Clavate 4 = Other (specify)					
	Waxiness 1 = Absent (Glossy) 2 = Slightly Waxy 3 = Waxy 4 = Other (specify)					
	Lateral Kernels Overlap: 1 = None 2 = At Tip 3 = 1/4 - 1/2 of Head 4 = Other (specify)					
	Rachis (Halr on Edge): 1 = Lacking 2 = Lacking to Few 3 = Few 4 = Few to Covered 5 = Covered					
	Rachis Hair Length: 1 = Short; 2 = Midlong; 3 = Midlong to Long; 4 = Long					
7. GLUME						
H	Length: 1 = 1/3 of Lemma 2 = 1/2 of Lemma 3 = More than 1/2 of Lemma 4 = Other (specify)					
\mathbb{H}	Hairs: 1 = None 2 = Short 3 = Long 4 = Other (specify)					
	Hair Covering: 1 = None 2 = Restricted to Middle 3 = Confined to Band 4 = Completely Covered 4 = Other (specify)					
	Awns: 1 = Less than Equal to Length of Glumes 2 = Equal to Length of Glumes 3 = More than Equal to Length of Glumes 4 = Other (specify)					
	, , , , , , , , , , , , , , , , , , , ,					
	Awn Surface: 1 = Smooth 2 = Semi-Smooth 3 = Rough 4 = Other (specify)					
8. LEMMA						
	Awn: 1 = Awnless					
	2 = Awnlets on Central Rows, Awnless on Lateral Rows 3 = Short on Central Rows, Awnlets on Lateral Rows					
	4 = Short (Less than Equal to Length of Spike) 5 = Long (Longer than Spike)					
	6 = Hooded 7 = Other (specify)					
	Awn Surface: 1 = Awnless 2 = Smooth 3 = Semi-Smooth 4 = Rough					
	Awii Guii acc. 1 - Awii coo 2 - Giilouii 5 - Gciii Giilouii 4 - Nougii					
	Tastha A Abaart O Farr O Allumanana A Othan (anasitu					
	Teeth: 1 = Absent 2 = Few 3 = Numerous 4 = Other (specify)					
	Hair: 1 = Absent 2 = Present					
	,					
	Hair: 1 = Absent 2 = Present Shape of Base: 1 = Depression 2 = Depression to Slight Crease 3 = Slight Crease					

9. STIGMA	Hairs: 1 = Few	2 = Many 3 = Other (s _k	pecify)			
10. USE	= Malting 2 = Non-malting	g 3 = Feed (animal) 4 = Forage 5 =	■ Human consumption 6 = Other (specify	у)		
11. SEED:	3 = Mid-Lo 4 = Mid-Lo 5 = Long (6 = Other Wrinkling of Hull:	1 = Absent 2 = Present (8.0 mm) to Mid-Long (7.5 – 9.0 mm) ong (8.5 – 9.5 mm) ong to Long (9.0 – 10.5 mm) 10.0 mm) (specify) 1 = Naked 2 = Slightly Wrinkled 3 = 1 = Colorless (White or Yellow) 2 = Present	3 = Other (specify			
	Septoria Loose Smut Stem Rust	ceptible, 2 = Resistant, 3 = Intermediate, 4 = Net Blotch Bacterial Blight Covered Sm Leaf Rust Scab BSMV BYDV	Powdery Mildew ut False Loose Smut Scald			
13. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Intermediate, 4 = Tolerant, 5 = Mixed) Green Bug Grasshoppers Cerial Leaf Beetle Other (Specify) Hessian Fly Races GP A G G G G G G G G G G G G						
14. CHEMICAL: (0 = Not Tested, 1 = Susceptible, 2 = Resistant, 3 = Intermediate, 4 = Tolerant, 5 = Mixed) Other (Specify)						
15. INDICATE WHICH VAREITY MOST CLOSELY RESEMBLES THAT SUBMITTED:						
	CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY		
Plant Tilleri	ng		Seed Size			
Leaf Size			Coleoptile Elongation			
Leaf Color			Seedling Pigmentation			
Leaf Carria	ge					

REFERENCES:

The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

- Wiebe, G.A., and D.A. Reid, 1961, Classifications of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Department of Agriculture.
- Reid, D.A., and G.A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Department of Agriculture, pp. 61-84.
- 3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Royal Horticultural Society Colour Chart; Munsell book of color or any recognized color fan may be used to determine color of the described variety.