

4. PLANT HEIGHT: (continued)

<input type="checkbox"/> <input type="checkbox"/>	cm Shorter than	} <table border="0" style="margin-left: 20px;"> <tr><td>1 = Nugget</td><td>2 = Fylking</td><td>3 = Delta</td></tr> <tr><td>4 = Merion</td><td>5 = Newport</td><td>6 = Baron</td></tr> <tr><td>7 = Mystic</td><td>8 = Sabre</td><td>9 = Reubens</td></tr> </table>	1 = Nugget	2 = Fylking	3 = Delta	4 = Merion	5 = Newport	6 = Baron	7 = Mystic	8 = Sabre	9 = Reubens
1 = Nugget	2 = Fylking		3 = Delta								
4 = Merion	5 = Newport		6 = Baron								
7 = Mystic	8 = Sabre	9 = Reubens									
<input type="checkbox"/> <input type="checkbox"/>	Height same as										
<input type="checkbox"/> <input type="checkbox"/>	cm Taller than										

5. GROWTH HABIT:

<input type="checkbox"/>	Habit: 1 = Prostrate (Nugget)	2 = Semiprostrate (Merion)	3 = Erect (Delta)
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	cm Amount of spread by rhizomes in 1 year (give test area _____)		

6. LEAF BLADE:

<input type="checkbox"/>	Green color:	1 = Light green (Mystic)	2 = Medium green (Fylking, Bonnieblue)								
		3 = Moderately dark green (Merion, Adelphi)	4 = Very dark green (Nugget, Glade, Enmundi)								
<input type="checkbox"/>	Bluegreen color:	1 = Not bluegreen (Mystic, Touchdown, Parade)	2 = Moderately bluegreen (Merion, A-34)								
		3 = Bluegreen (Nugget, Enmundi, Adelphi)	4 = Strongly bluegreen (Majestic)								
<input type="checkbox"/>	Winter color:	1 = Light green	2 = Dark green								
		4 = Dark purple	5 = Not purple								
			3 = Light purple								
			6 = Not green or purple								
<input type="checkbox"/>	Hairs upper side:	1 = Absent (Nugget)	2 = Sparse (Merion)								
			3 = Dense (Park)								
<input type="checkbox"/>	Hairs lower side:	1 = Absent (Fylking, Merion)	2 = Sparse								
			3 = Dense (Nugget)								
<input type="checkbox"/>	Luster upper side:	1 = Shiny (Eclipse, Enmundi)	2 = Dull (Aquila, Parade)								
<input type="checkbox"/>	Luster lower side:	1 = Shiny (Mystic, Enmundi)	2 = Dull (Barbie, Eclipse)								
<input type="checkbox"/>	Margin hairs: (Fringe on Margin or Base)	1 = Absent (Delta)	2 = Present (Fylking, Merion)								
<input type="checkbox"/>	Width:	1 = Very fine (Mystic)	2 = Fine (Nugget)								
		4 = Broad (Adelphi, Baron)	5 = Very broad (Monopoly)								
<input type="checkbox"/> <input type="checkbox"/>	mm Width (flag leaf)										
<input type="checkbox"/> <input type="checkbox"/>	mm Narrower than	} <table border="0" style="margin-left: 20px;"> <tr><td>1 = Nugget</td><td>2 = Fylking</td><td>3 = Delta</td></tr> <tr><td>4 = Merion</td><td>5 = Newport</td><td>6 = Baron</td></tr> <tr><td>7 = Mystic</td><td>8 = Sabre</td><td>9 = Reubens</td></tr> </table>	1 = Nugget	2 = Fylking	3 = Delta	4 = Merion	5 = Newport	6 = Baron	7 = Mystic	8 = Sabre	9 = Reubens
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<input type="checkbox"/> <input type="checkbox"/>	Width same as										
<input type="checkbox"/> <input type="checkbox"/>	mm Wider than										
<input type="checkbox"/> <input type="checkbox"/>	mm Length (flag leaf)										
<input type="checkbox"/> <input type="checkbox"/>	mm Shorter than	} <table border="0" style="margin-left: 20px;"> <tr><td>1 = Nugget</td><td>2 = Fylking</td><td>3 = Delta</td></tr> <tr><td>4 = Merion</td><td>5 = Newport</td><td>6 = Baron</td></tr> <tr><td>7 = Mystic</td><td>8 = Sabre</td><td>9 = Reubens</td></tr> </table>	1 = Nugget	2 = Fylking	3 = Delta	4 = Merion	5 = Newport	6 = Baron	7 = Mystic	8 = Sabre	9 = Reubens
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<input type="checkbox"/> <input type="checkbox"/>	Length same as										
<input type="checkbox"/> <input type="checkbox"/>	mm Longer than										
<input type="checkbox"/>	Position of flag leaf (angle to stem):	1 = Appressed	2 = Open angle, yet stiff								
			3 = Nodding								

7. LEAF SHEATH:

<input type="checkbox"/> <input type="checkbox"/>	mm sheath length		
<input type="checkbox"/>	Seedling Color (base of sheath):	1 = Green (Nugget, Merion)	2 = Red (Delta)
<input type="checkbox"/>	Hairs on Margin:	1 = Absent (Fylking)	2 = Present (Nugget)
<input type="checkbox"/>	Margin Roughness (to touch):	1 = Smooth (Delta)	2 = Rough (Sabre)
<input type="checkbox"/>	Hairs on Surface:	1 = Absent	2 = Present (Nugget)
<input type="checkbox"/>	Surface Roughness (to touch):	1 = Smooth (Fylking)	2 = Rough (Ram 1)
<input type="checkbox"/>	Hairs on both sides just beneath leaf blade (under collar):	1 = Absent (Merion)	2 = Present (Nugget)

7. LEAF SHEATH: (continued)

<input type="checkbox"/>	Hairs on ligule:	1 = Absent (Fylking)	2 = Short (Baron)	3 = Long (Nugget)
<input type="checkbox"/>	Glaucoisity:	1 = Absent (Mystic, Enmundi)	2 = Present (Birka)	
<input type="checkbox"/>	Keel:	1 = Absent (Ram 1)	2 = Present (Adelphi)	

8. PANICLE: (Mature Plant)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mm Length (Lowest branch whorl to top, for 10 plants) Test Area: _____												
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mm Shorter than	} <table> <tr> <td>1 = Nugget</td> <td>2 = Fylking</td> <td>3 = Delta</td> </tr> <tr> <td>4 = Merion</td> <td>5 = Newport</td> <td>6 = Baron</td> </tr> <tr> <td>7 = Mystic</td> <td>8 = Sabre</td> <td>9 = Reubens</td> </tr> </table>	1 = Nugget	2 = Fylking	3 = Delta	4 = Merion	5 = Newport	6 = Baron	7 = Mystic	8 = Sabre	9 = Reubens		
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			Panicle same as												
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	mm Longer than												
<input type="checkbox"/>	Color (at 50% flowering):	1 = Not red (Fylking)	2 = Red (Nugget)												
<input type="checkbox"/>	Shape of Rachis (opposite lower side branches):	1 = No bend (Nugget)	2 = Bend (Merion)												
<input type="checkbox"/>	Collar:	1 = Opened (Nugget)	2 = Closed (Merion)												
<input type="checkbox"/>	Branches attitude (lowest whorl):	1 = Drooping (America, Prato)	2 = Horizontal (Merion)	3 = Ascending (Tundra)											
<input type="checkbox"/>	Number of main branches in lowest whorl.														
<input type="checkbox"/>	Panicle habit:	1 = Nodding (Newport)	2 = Upright (Nugget)												
<input type="checkbox"/>	Panicle type:	1 = Open	2 = Intermediate	3 = Compact											
<input type="checkbox"/>	Anther color (anthesis):	1 = Purple	2 = Yellow	3 = Brown											

9. LEMMA:

<input type="checkbox"/>	Keel	1 = Glabrous	2 = Slightly pubescent	3 = Pubescent
<input type="checkbox"/>	Marginal Nerves			
<input type="checkbox"/>	Intermediate Nerves:	1 = Distinct	2 = Obscure	
<input type="checkbox"/>	Basal Webbing:	1 = Absent	2 = Scant (Baron)	3 = Copious (Merion)

10. SEED: (Floret—not dehulled)

<input type="checkbox"/>	Apomixis Percentage:	1 = more than 95	2 = 85 to 95	3 = less than 85										
<input type="checkbox"/>	Phenol Reaction:	1 = none-lemma removed (Merion)	2 = Beige (Cougar)	3 = Brown (Windsor)										
		4 = Black (Mystic - 2hrs)	5 = Black (-24hrs)										
<input type="checkbox"/>	<input type="checkbox"/>	mm Width (average of 10)	<input type="checkbox"/>	mm Length										
<input type="checkbox"/>	<input type="checkbox"/>	Milligrams per 10,000 seeds												
<input type="checkbox"/>	<input type="checkbox"/>	Milligrams less than	} <table> <tr> <td>1 = Nugget</td> <td>2 = Fylking</td> <td>3 = Delta</td> </tr> <tr> <td>4 = Merion</td> <td>5 = Newport</td> <td>6 = Baron</td> </tr> <tr> <td>7 = Mystic</td> <td>8 = Sabre</td> <td>9 = Reubens</td> </tr> </table>	1 = Nugget	2 = Fylking	3 = Delta	4 = Merion	5 = Newport	6 = Baron	7 = Mystic	8 = Sabre	9 = Reubens		
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		Weight same as												
<input type="checkbox"/>	<input type="checkbox"/>	Milligrams more than												
<input type="checkbox"/>	Weight Class (g/10,000 seeds):	1 = Light (< 3 g Sydspport, Merion)	2 = Medium (3 g - 4 g Adelphi, Parade)	3 = Heavy (> 4 g Fylking, Nugget)										

11. ENVIRONMENTAL RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible; 2 = Moderately Susceptible; 3 = Moderately Resistant; 4 = Highly Resistant)

<input type="checkbox"/>	Cool Temperature (Winter color)	<input type="checkbox"/>	Cold (injury)	<input type="checkbox"/>	Heat	<input type="checkbox"/>	Drought
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11. ENVIRONMENTAL RESISTANCE: (continued)

(0 = Not Tested; 1 = Very Susceptible; 2 = Moderately Susceptible; 3 = Moderately Resistant; 4 = Highly Resistant)

- | | | | |
|--|--|---|--|
| <input type="checkbox"/> Shade | <input type="checkbox"/> Low Fertility | <input type="checkbox"/> Acid Soil (< pH 5.5) | <input type="checkbox"/> Alkalinity (pH > 7.5) |
| <input type="checkbox"/> Salinity | <input type="checkbox"/> Soil Compaction | <input type="checkbox"/> Poor Drainage | <input type="checkbox"/> Air Pollution |
| <input type="checkbox"/> Other (Please Specify): _____ | | | |

12. DISEASE RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible; 2 = Moderately Susceptible; 3 = Moderately Resistant; 4 = Highly Resistant)

- | | |
|--|--|
| <input type="checkbox"/> Melting-Out <i>Drechslera poae</i> (<i>Helminthosporium vagans</i>) | <input type="checkbox"/> Sclerotinia <i>S. borealis</i> |
| <input type="checkbox"/> Helminthosporium Leaf Spot <i>Bipolaris sorokiniana</i> | <input type="checkbox"/> Stem Rust <i>Puccinia graminis</i> |
| <input type="checkbox"/> Brown Patch <i>Rhizoctonia solani</i> | <input type="checkbox"/> Stripe Rust <i>P. striiformis</i> |
| <input type="checkbox"/> Powdery Mildew <i>Erysiphe graminis</i> | <input type="checkbox"/> Leaf Rust <i>P. poae-nemorale</i> |
| <input type="checkbox"/> Stripe Smut <i>Ustilago striiformis</i> | <input type="checkbox"/> Orange Stripe Rust <i>P. poarum</i> |
| <input type="checkbox"/> Flag Smut <i>Urocystis agropyri</i> | <input type="checkbox"/> Pythium Blight <i>Pythium</i> spp. |
| <input type="checkbox"/> Pink Snow Mold <i>Fusarium nivale</i> | <input type="checkbox"/> Red Thread <i>Corticium fujiciforme</i> |
| <input type="checkbox"/> Ergot <i>Claviceps purpurea</i> | <input type="checkbox"/> Other (Please Specify): _____ |
| <input type="checkbox"/> Fusarium Blight <i>Fusarium roseum</i> , <i>F. tricinctum</i> | <input type="checkbox"/> Other (Please Specify): _____ |
| <input type="checkbox"/> Typhula Blight <i>Typhula</i> spp. | |
| <input type="checkbox"/> Dollar Spot <i>Sclerotinia homoeocarpa</i> | |

13. INSECTS, NEMATODES, RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible; 2 = Moderately Susceptible; 3 = Moderately Resistant; 4 = Highly Resistant)

- | |
|---|
| <input type="checkbox"/> Chinch Bug <i>Blissus</i> spp. (give species: _____) |
| <input type="checkbox"/> Sod Webworm <i>Crambus</i> spp. (give species: _____) |
| <input type="checkbox"/> Bluegrass Billbug (<i>Sphenophorus parvulus</i>) |
| <input type="checkbox"/> White Grub: Japanese Beetle, Chafers (give species: _____) |
| <input type="checkbox"/> Greenbug Aphid (<i>Schizaphis graminum</i>) |
| <input type="checkbox"/> Other (Please Specify: _____) |
| <input type="checkbox"/> Other (Please Specify: _____) |

14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety, 2 = Same as, 3 = More than, better, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading			Leaf Width		
Height			Leaf Color Spring		
Seed Size			Leaf Color Summer		
Seed Weight			Leaf Color Winter		
Cold Injury			Drought		
Heat			Disease**		
Shade					

** Specify each disease evaluated

15. ADDITIONAL DESCRIPTION:

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.