



**9. PLANT HEIGHT:** (from soil to top of head, excluding awns)

cm (Average)

cm Taller Than \_\_\_\_\_ \*

Same As \_\_\_\_\_ \*

cm Shorter Than \_\_\_\_\_ \*

**10. STEM:****A. ANTHOCYANIN**

1 = Absent    2 = Present

**B. WAXY BLOOM**

1 = Absent    2 = Present

**C. HAIRINESS** (last internode of rachis)

1 = Absent    2 = Present

**D. INTERNODE**

1 = Hollow    2 = Semi-Solid    3 = Solid

Number of Nodes

**E. PEDUNCLE**

1 = Erect    2 = Recurved    3 = Semi-Erect

cm Length

**F. AURICLE**

Anthocyanin:    1 = Absent    2 = Present

Hair:    1 = Absent    2 = Present

**11. HEAD:** (At Maturity)**A. DENSITY**1 = Lax  
2 = Middense (Laxidense)  
3 = Dense**B. SHAPE**1 = Tapering  
2 = Strap  
3 = Clavate  
4 = Other (Specify) \_\_\_\_\_**C. CURVATURE**1 = Erect  
2 = Inclined  
3 = Recurved**D. AWNEDNESS**1 = Awnless  
2 = Apically Awnletted  
3 = Awnletted  
4 = Awned**12. GLUMES:** (At Maturity)**A. COLOR**1 = White  
2 = Tan  
3 = Other (Specify) \_\_\_\_\_**B. SHOULDER**1 = Wanting    2 = Oblique  
3 = Rounded    4 = Square  
5 = Elevated    6 = Apiculate  
7 = Other (Specify) \_\_\_\_\_**C. SHOULDER WIDTH**1 = Narrow  
2 = Medium  
3 = Wide**D. BEAK**1 = Obtuse  
2 = Acute  
3 = Acuminate**E. BEAK WIDTH**1 = Narrow  
2 = Medium  
3 = Wide**F. GLUME LENGTH**1 = Short (ca. 7 mm)  
2 = Medium (ca. 8 mm)  
3 = Long (ca. 9 mm)**G. WIDTH**1 = Narrow (ca. 3 mm)  
2 = Medium (ca. 3.5 mm)  
3 = Wide (ca. 4 mm)**H. PUBESCENCE**1 = Not Present  
2 = Present

13. SEED:

A. SHAPE

- 1 = Ovate
- 2 = Oval
- 3 = Elliptical

B. CHEEK

- 1 = Rounded
- 2 = Angular

C. BRUSH

- 1 = Short
- 2 = Medium
- 3 = Long
- 1 = Not Collared
- 2 = Collared

D. CREASE

- 1 = Width 60% or less of Kernel
- 2 = Width 80% or less of Kernel
- 3 = Width Nearly as Wide as Kernel
- 1 = Depth 20% or less of Kernel
- 2 = Depth 35% or less of Kernel
- 3 = Depth 50% or less of Kernel

E. COLOR

- 1 = White
- 2 = Amber
- 3 = Red
- 4 = Other (Specify) \_\_\_\_\_

F. TEXTURE

- 1 = Hard
- 2 = Soft
- 3 = Other (Specify) \_\_\_\_\_

G. PHENOL REACTION (See Instructions)

- 1 = Ivory
- 2 = Fawn
- 3 = Light Brown
- 4 = Dark Brown
- 5 = Black

H. SEED WEIGHT

- g/1000 Seed (whole number only)

I. GERM SIZE

- 1 = Small
- 2 = Midsized
- 3 = Large

14. DISEASE: PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

(0 = Not Tested    1 = Susceptible    2 = Resistant    3 = Intermediate    4 = Tolerant)

- |   |   |
|---|---|
| <input type="checkbox"/> Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> ) | <input type="checkbox"/> Leaf Rust ( <i>Puccinia recondita</i> f. sp. <i>tritici</i> )                      |
| <input type="checkbox"/> Stripe Rust ( <i>Puccinia striiformis</i> )                  | <input type="checkbox"/> Loose Smut ( <i>Ustilago tritici</i> )   |
| <input type="checkbox"/> Tan Spot ( <i>Pyrenophora tritici-repentis</i> )             | <input type="checkbox"/> Flag Smut ( <i>Urocystis agropyri</i> )  |
| <input type="checkbox"/> Halo Spot ( <i>Selenophoma donacis</i> )                     | <input type="checkbox"/> Common Bunt ( <i>Tilletia tritici</i> or <i>T. laevis</i> )                        |
| <input type="checkbox"/> <i>Septoria nodorum</i> (Glume Blotch)                       | <input type="checkbox"/> Dwarf Bunt ( <i>Tilletia controversa</i> )   |
| <input type="checkbox"/> <i>Septoria avenae</i> (Speckled Leaf Disease)               | <input type="checkbox"/> Karnal Bunt ( <i>Tilletia indica</i> )   |
| <input type="checkbox"/> <i>Septoria tritici</i> (Speckled Leaf Blotch)               | <input type="checkbox"/> Powdery Mildew ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> )                  |
| <input type="checkbox"/> Scab ( <i>Fusarium</i> spp.)                                 | <input type="checkbox"/> "Snow Molds"   |
| <input type="checkbox"/> "Black Point" (Kernel Smudge)                                | <input type="checkbox"/> Common Root Rot ( <i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.) |
| <input type="checkbox"/> Barley Yellow Dwarf Virus (BYDV)                             | <input type="checkbox"/> Rhizoctonia Root Rot ( <i>Rhizoctonia solani</i> )                                 |
| <input type="checkbox"/> Soilborne Mosaic Virus (SBMV)                                | <input type="checkbox"/> Black Chaff ( <i>Xanthomonas campestris</i> pv. <i>translucens</i> )               |
| <input type="checkbox"/> Wheat Yellow (Spindle Streak) Mosaic Virus                   | <input type="checkbox"/> Bacterial Leaf Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )          |
| <input type="checkbox"/> Wheat Streak Mosaic Virus (WSMV)                             | <input type="checkbox"/> Other (Specify) _____  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |

15. INSECT: (0 = Not Tested    1 = Susceptible    2 = Resistant    3 = Intermediate    4 = Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

- |  |  |
|--|--|
| <input type="checkbox"/> Hessian Fly ( <i>Mayetiola destructor</i> )   | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> Stem Sawfly ( <i>Cephus</i> spp.)             | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> Cereal Leaf Beetle ( <i>Oulema melanopa</i> ) | <input type="checkbox"/> Other (Specify) _____ |

15. INSECT: (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE SPECIFY BIOTYPE (Where Needed)

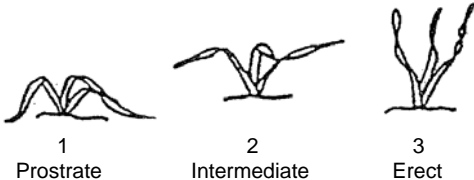
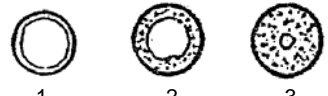
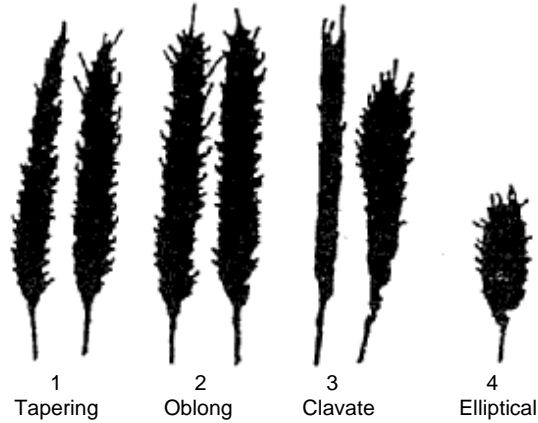

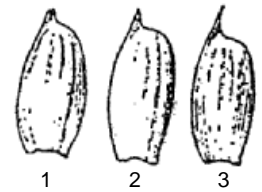
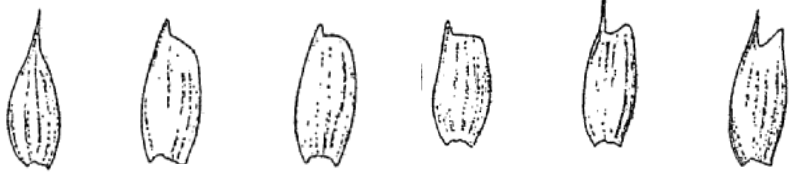
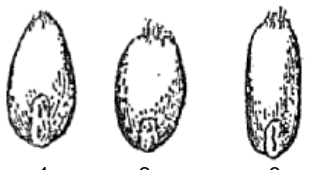






<input type="checkbox"/>	Russian Aphid ( <i>Diuraphis noxia</i> )	<input type="checkbox"/>	Other (Specify) _____
<input type="checkbox"/>	Greenbug ( <i>Schizaphis graminum</i> )	<input type="checkbox"/>	Other (Specify) _____
<input type="checkbox"/>	Aphids	<input type="checkbox"/>	Other (Specify) _____

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16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

WHEAT DESCRIPTOR ILLUSTRATIONS

Section Numbers Correspond to the Numbers of the Sections on the Form

<p>4. EARLY PLANT GROWTH HABIT:</p>  <p>1 Prostrate      2 Intermediate      3 Erect</p>	<p>10. (D.) STEM INTERNODE X-SECTION:</p>  <p>1 Hollow      2 Semi-solid      3 Solid</p>	<p>11. (B.) SPIKE SHAPE:</p>  <p>1 Tapering      2 Oblong      3 Clavate      4 Elliptical</p>	
<p>11. (D.) AWNEDNESS:</p>  <p>1 Awnless      2 Apically Awnleted      3 Awnleted      4 Awned</p>	<p>12. (D.) BEAK SHAPE:</p>  <p>1 Obtuse      2 Acute      3 Acuminate</p>	<p>12. (C.) SHOULDER SHAPE:</p>  <p>1 Wanting      2 Oblique      3 Rounded      4 Square      5 Elevated      6 Apiculate</p>	
<p>13. (A.) SEED SHAPE:</p>  <p>1 Ovate      2 Oval      3 Elliptical</p>	<p>13. (B.) CHEEK SHAPE:</p>  <p>1 Rounded      2 Angular</p>	<p>13. (C.) BRUSH SIZE:</p>  <p>1 Small      2 Midsized      3 Large      4 Collared</p>	<p>13. (C.) BRUSH HAIR LENGTH:</p>  <p>1 Short      2 Medium      3 Long</p>
<p>13. (I.) GERM (EMBRYO) SIZE:</p>  <p>1 Small      2 Midsized      3 Large</p>	<p>13. (D.) SEED CREASE WIDTH:</p>  <p>1 Narrow      2 Mid-wide      3 Wide</p>	<p>13. (D.) SEED CREASE DEPTH:</p>  <p>1 Shallow      2 Mid-Deep      3 Deep</p>	