

III. GROWTH HABIT: (con.)

3. _____ Juvenile Plant Growth:

A. Erect

B. Intermediate

C. Prostrate

IV. EAR EMERGENCE:

1. _____ Days earlier than Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

2. _____ Days to Ear Emergence, Same as Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

3. _____ Days Later than Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

V. MATURITY:

1. _____ Maturity:

A. Very Early

B. Early

C. Mid-Season

D. Late

E. Very Late

2. _____ Days to Maturity, Earlier than Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

3. _____ Days to Maturity, Same as Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

4. _____ Days to Maturity, Later than Variety _____

A. Von Lochow

B. Frontier

C. Cougar

D. Rymin

E. Florida Black

F. Weser

G. Gator

VII. STEM: (con.)

8. _____ Resistance to Lodging:

- | | | |
|-------------------------|------------------------|--------------------------|
| A. Good (Seldom lodged) | B. Fair (Often lodged) | C. Poor (Usually lodged) |
|-------------------------|------------------------|--------------------------|

9. _____ Stem Nodes:

- | | | |
|----------|-----------------|-----------|
| A. Solid | B. Intermediate | C. Hollow |
|----------|-----------------|-----------|

VIII. LEAVES:

1. _____ Leaf Length, 1st leaf below flag leaf (cm)

2. _____ Leaf Width, 1st leaf below flag leaf (cm)

3. _____ Flag Leaf Twist:

- | | |
|----------------|------------|
| A. Not Twisted | B. Twisted |
|----------------|------------|

4. _____ Flag Leaf Sheath Glaucoity:

- | | | |
|------------------------|--------------------------|---------------------|
| A. Absent or Very Weak | B. Very Weak to Weak | C. Weak |
| D. Weak to Medium | E. Medium | F. Medium to Strong |
| G. Strong | H. Strong to Very Strong | I. Very Strong |

5. _____ Number of Leaves Originating from Nodes Above Ground (#)

6. _____ Waxy Bloom on Leaf (at boot):

- | | | |
|-----------|------------------|---------|
| A. Absent | B. Slightly Waxy | C. Waxy |
|-----------|------------------|---------|

7. _____ Upper Leaf Surface (at boot):

- | | | |
|-------------|---------------------|--------------|
| A. Glabrous | B. Slightly Spinous | C. Pubescent |
|-------------|---------------------|--------------|

8. _____ Leaf Color (at boot):

- | | |
|---------------------------------|--------------------------------|
| A. Dark Green (Frontier, Weser) | B. Light Green (Florida Black) |
| C. Other (Specify) _____ | |

9. _____ Main Stem Leaf Habit (during tillering):

- | | | |
|------------|-------------|-------------|
| A. Upright | B. Recurved | C. Drooping |
|------------|-------------|-------------|

10. _____ Main Stem Leaf Habit (at boot):

- | | | |
|------------|-------------|-------------|
| A. Upright | B. Recurved | C. Drooping |
|------------|-------------|-------------|

11. _____ Leaf Sheath (at boot):

- | | | |
|-------------|--------------------|--------------|
| A. Glabrous | B. Lightly Spinous | C. Pubescent |
|-------------|--------------------|--------------|

12. _____ Anthocyanin in Auricles:

- | | |
|-----------|------------|
| A. Absent | B. Present |
|-----------|------------|

IX. HEAD:

1. _____ Head Density:

- | | |
|-----------------------------|-----------------------|
| A. Lax (Frontier) | B. Lax to Mid-Dense |
| C. Mid-Dense (Tetra Petkus) | D. Mid-Dense to Dense |
| E. Dense (Cougar) | |

2. _____ Head Attitude:

- | | | |
|----------|--------------------|-------------|
| A. Erect | B. Slightly Curved | C. Inclined |
|----------|--------------------|-------------|

IX. HEAD: (con.)

3. _____ Shape:
- | | |
|------------------------|--------------------------|
| A. Fusiform (Tapering) | B. Parallel |
| C. Oblong | D. Elliptical |
| E. Clavate | F. Other (Specify) _____ |
4. _____ Waxy Bloom:
- | | | |
|-----------|------------------|---------|
| A. Absent | B. Slightly Waxy | C. Waxy |
|-----------|------------------|---------|
5. _____ Anthocyanin:
- | | |
|-----------|------------|
| A. Absent | B. Present |
|-----------|------------|
6. _____ Resistance to Shattering:
- | | | |
|---------|---------|---------|
| A. Good | B. Fair | C. Poor |
|---------|---------|---------|
7. _____ Head Length:
- | | | |
|----------------------|---------------------|-------------|
| A. Long | B. Mid-Long to Long | C. Mid-Long |
| D. Short to Mid-Long | E. Short | |
8. _____ Head Length Excluding Awns (cm)
9. _____ Awn Length (cm)
10. _____ Head Width:
- | | | |
|-----------------------|--------------------------|---------------------|
| A. Very Narrow | B. Very Narrow to Narrow | C. Narrow |
| D. Narrow to Mid-wide | E. Mid-wide | F. Mid-wide to Wide |
| G. Wide | H. Wide to Very Wide | I. Very Wide |
11. _____ Head Width (mm)
12. _____ Anthocyanin in Awns
- | | | |
|-----------|-----------------------|-----------------------|
| A. Absent | B. Slightly Pigmented | C. Strongly Pigmented |
|-----------|-----------------------|-----------------------|
13. _____ Glume (chaff) Color:
- | | | |
|----------|-----------------|-----------|
| A. White | B. Light Yellow | C. Yellow |
|----------|-----------------|-----------|

X. COLEOPTILE:

1. _____ Coleoptile Color:
- | | | |
|----------|-----------------|----------|
| A. Green | B. Red (Purple) | C. Mixed |
|----------|-----------------|----------|
2. _____ Coleoptile Length:
- | | | |
|--------------------|------------------------|-------------------|
| A. Very Short | B. Very Short to Short | C. Short |
| D. Short to Medium | E. Medium | F. Medium to Long |
| G. Long | H. Long to Very Long | I. Very Long |
3. _____ Coleoptile Length (mm)

XI. SEED:

1. Seed Color (Total = 100%):

_____ % Black	_____ % Gray	_____ % Blue
_____ % Blue-Green	_____ % Green	_____ % Olive-Green
_____ % Yellow	_____ % Tan	_____ % Brown
_____ % Other (Specify) _____		
_____ % Other (Specify) _____		

2. _____ Aleurone Color:

A. Colorless (White)	B. Blue
----------------------	---------

3. _____ Endosperm:

A. Light	B. Dark	C. Mixed
----------	---------	----------

4. _____ Shape:

A. Elliptical	B. Fusiform
C. Other (Specify) _____	

5. _____ 1000 Seed Weight (g)

6. _____ Seed Size:

A. Very Small	B. Very Small to Small
C. Small (Caribou)	D. Small to Medium
E. Medium (Puma)	F. Medium to Large
G. Large (Rymin)	H. Large to Very Large
I. Very Large (Tetra Petkus)	

7. _____ Seed Width (mm)

8. _____ Seed Width:

A. Very Narrow	B. Very Narrow to Narrow	C. Narrow
D. Narrow to Mid-Wide	E. Mid-Wide	F. Mid-Wide to Wide
G. Wide	H. Wide to Very Wide	I. Very Wide

9. _____ Seed Length (mm)

10. _____ Seed Length:

A. Very Short	B. Very Short to Short	C. Short
D. Short to Mid-Long	E. Mid-Long	F. Mid-Long to Long
G. Long	H. Long to Very Long	I. Very Long

11. _____ Seed Surface:

A. Smooth	B. Other (Specify) _____
-----------	--------------------------

XI. SEED: (con.)

12. _____ Seed Phenol Reaction:

- | | | |
|-------------------------|------------------------|-------------------|
| A. Absent or Very Light | B. Very Light to Light | C. Light |
| D. Light to Medium | E. Medium | F. Medium to Dark |
| G. Dark | H. Dark to Very Dark | I. Very Dark |

XII. DISEASE AND INSECT RESISTANCE:

(0 = Not Tested 1 = Susceptible 2 = Resistant)
 (Indicate as completely as possible including species and races where known)

- | | |
|---|-------------|
| ___ Leaf rust – <i>Puccinia recondite</i> | Race: _____ |
| ___ Stem rust – <i>P. graminis secalis</i> | Race: _____ |
| ___ Stripe rust – <i>P. glumarum</i> | Race: _____ |
| ___ Powdery mildew – <i>Erysiphe graminis secalis</i> | Race: _____ |
| ___ Anthracnose – <i>Colletotrichum graminicola</i> | Race: _____ |
| ___ Scald – <i>Rhynchosporium secalis</i> | Race: _____ |
| ___ Ergot – <i>Claviceps purpurea</i> | Race: _____ |
| ___ Other Disease _____ | Race: _____ |
| ___ Other Disease _____ | Race: _____ |
| ___ Insect _____ | Race: _____ |
| ___ Insect _____ | Race: _____ |

XIII. MOST SIMILAR VARIETY TRAITS:

INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THE APPLICATOIN VARIETY FOR THE FOLLOWING CHARACTERS:

Character	Variety	Character	Variety
Growth Habit		Tillering	
Leaf Width		Ear Emergence	
Leaf Length		Area of Adaptation	
Leaf Color		Winter Hardiness	
Leaf Carriage		Drought Resistance	
Seed Shape		Lodging	
Seed Size		Shattering	

[PLEASE ENTER ADDITIONAL VARIETY TRAITS ON NEXT PAGE]

XIV. ADDITIONAL DESCRIPTION:

Describe all characteristics that cannot be adequately described in the form above.

Comparative varieties should be used where appropriate, such as for disease.

Append all comparative trial and evaluation data.

(Use additional sheets as required)