

4. MATURITY:

Season: 1 = Very Early (Raja) 2 = Early (Noralta) 3 = Medium-Late (Bison) 4 = Late (Dufferin)

Determine number of days from seeding date to each maturity stage below. If fall sown, determine days from January 1 instead of from seeding date.

Days to First Bloom (10% Plants in Flower):

Days Earlier Than

Same as

Days Later Than

Comparison Variety

Days to Last Bloom (90% Plants Have Ceased Flowering)

Days to Capsule Maturity (90% Capsules Brown)

Days to Mid-bloom (50% Plants in Flower):

Days Earlier Than

Same as

Days Later Than

Comparison Variety

Days Earlier Than

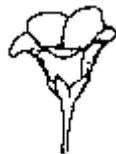
Same As

Days Later Than

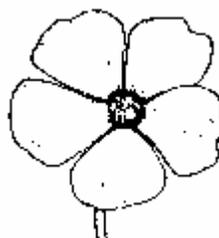
Comparison Variety

5. FLOWER: (Observe Fresh, Fully Open Flowers)

Shape:



1 = Funnel



2 = Disk



3 = Star

4 = Other (Specify) _____

Corolla Diameter (Measured Before or During Mid-bloom):

 mm

Petal Length and Width (Measured Before or During Mid-bloom):

 mm Long

 mm Wide

Petal Color (Observe Early to Midmorning):

Veins

1 = Blue

2 = White (No Color in HCL)

Vein Chart Color No. _____

Intervenia

3 = Pink

4 = Other (Specify) _____

Intervenium Color Chart No. _____

Veins – Intervenia Color Comparison:

1 = Veins Darker

2 = No Difference

3 = Veins Lighter

Sepal Spotting

0 = Absent

1 = Present

The following characters should be observed between midmorning and early afternoon in full sun.

Filament Color:

1 = Blue with White

2 = White Only

Anther Color:

1 = Blue

2 = Yellow

Style Color:

1 = Blue with White

2 = White Only

Stigma Color:

1 = Purple

2 = Pink

3 = White

6. POLLEN:

Color: 1 = Blue 2 = Yellow

7. CAPSULE: (At Maturity)

Dehiscence: 1 = Indehiscent (Dunes) 2 = Semidehiscent (Bison)

False Septa Width: . mm

False Septa Ciliation: 0 = Absent 1 = Present

True Septa Width: . mm

8. SEED: (At Maturity)

Color: 1 = Brown (Bison) 2 = Yellow (Foster) 3 = Greenish-Yellow (CI 1798)
4 = Greenish-Brown (CI 479) 5 = Other (Specify) _____

Size: 1 = Small (Noralta) 2 = Medium (Linott) 3 = Large (Bison)

. mm Long . mm Wide Weight: . g/1000 Seeds

Percent of Oil (of Oven-dry, Mature Seed): . % Indicate Number of Tests:

Indicate Test Method: _____

. % Lower Than }
Same as } Comparison Variety
 . % Higher Than }

9. SEED OIL:

Iodine Number: Indicate Number of Tests:
 Lower Than }
Same as } Comparison Variety
 Higher Than }
Indicate Test Method: _____

10. DISEASE AND PEST REACTIONS: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

Flax Rust (*Melampsora lini*) Gene(s) _____ resistant to the following race groups:
Argentine _____ Etyptian _____ North American _____
Australian _____ European _____

Flax wilt (*Fusarium lini*) Location of Wilt Nursery:
 Fargo, ND _____ St. Paul, MN _____ Morden, Manitoba _____
 Brookings, SD _____ St. Paul, MN II _____

PasmO (*Mycosphaerella linorum*) Nematodes (Specify Genera) _____
 Anthracnose (*Colletotrichum lini*) Other Disease (Specify) _____
 Browning, Stem Break (*Polyspora lini*) Other Disease (Specify) _____
 Damping Off (*Rhizoctonia solani*) Insects (Specify) _____

11. STRESS TOLERANCE: (Provide Substantiating Evidence in Exhibit D)

Herbicide Tolerance to (Specify) _____

More than Variety _____

Same As Variety _____

Less Than Variety _____

Cold Tolerance

More than Variety _____

Same As Variety _____

Less Than Variety _____

Seedling Chlorosis Tolerance

More than Variety _____

Same As Variety _____

Less Than Variety _____

12. ADDITIONAL INFORMATION: (PROVIDE ANY ADDITIONAL INFORMATION WHICH MAY BE USEFUL IN PROVIDING A THOROUGH DESCRIPTION OF THE APPLICATION AND COMPARISON VARIETY).