

VARIETY DESCRIPTORS  
WHEAT (Triticum Soft Wh. Winter)

1. Kind of Wheat: (circle one)

COMMON DURUM EMMER SPELT POLISH POULARD CLUB

a. If common, type of wheat Soft White Winter  
(Example: hard red winter)

b. Describe methods used for testing and evaluating variety.  
Protein, germination, milling and baking and weight tests,  
with insect testing now is in progress. In a 12 (twelve) year  
test no weevil were found working in the kernels.

2. Factors of Adaptation:

a. Daylength sensitive? (circle one) YES NO UNKNOWN

b. Winter survival (circle one or range)

POOR FAIR GOOD EXCELLENT NOT APPLICABLE

Compared to Hills 81 LESS SAME MORE  
(known variety)

c. Reaction to major diseases within area of adaptation (list)

d. Reaction to major insects within area of adaptation (list) See attached sheet

e. Other factors See attached sheet

3. Plant Characteristics:

xa. Habit of growth (circle one) WINTER SPRING OTHER \_\_\_\_\_

b. Coleoptile color (circle one) WHITE RED OTHER \_\_\_\_\_

c. Coleoptile expression (circle one) REDUCED HEIGHT CONVENTIONAL

Compared to Hills 81 SHORTER SAME LONGER  
(known variety)

d. Juvenile plant growth habit (circle one)

PROSTRATE SEMI-ERECT ERECT

e. Plant tillering (circle one) LOW INTERMEDIATE HIGH

Compared to Hills 81 LESS SAME MORE  
(known variety)

4. Leaves:

a. Color at booting (circle one)

YELLOW-GREEN

GREEN

BLUE-GREEN

GRAY-BLUE

Appears most similar to Hills 81 (known variety)

b. Flag leaf at booting

(circle one)

ERECT

RECURVED

(circle one) TWISTED

NOT TWISTED

✓ (circle one)

WAXY BLOOM

NO WAXY BLOOM

c. First leaf below flag leaf

1) 17 average millimeters in width (circle one)

NARROW

MID-WIDE

WIDE

2) 235 average millimeters in length (circle one)

SHORT

MID-LONG

LONG

3) Pubescence present? (circle one) YES

NO

d. Auricles

1) Color (circle one)

WHITE

PURPLE

OTHER \_\_\_\_\_

2) Pubescence present? (circle one) YES

NO

5. Time of Heading:

(circle one)

EARLY

MIDSEASON

LATE

OTHER \_\_\_\_\_

12

Average number of days earlier than Hills 81  
(known variety)

0

Average number of days later than none known of  
(known variety)

6. Stem:

a. Color (circle one)

WHITE

PURPLE

OTHER \_\_\_\_\_

b. Strength (circle one) WEAK

MID-STRONG

STRONG

Compared to Hills 81  
(known variety)

LESS

SAME

MORE

c. No. of nodes 3 to 4

- ✓
- d. Waxy bloom present? (circle one) YES NO
- e. Internodes are (circle one) HOLLOW SOLID
- f. Pubescence present on last internode of rachis?  
(circle one) YES NO

\*7. Plant Height:

- a. Relative (circle one or range)  
SHORT MEDIUM SHORT MEDIUM MEDIUM TALL TALL
- b. Average height 82.5 centimeters.  
Range 75 to 90 centimeters.
- c. 22 centimeters taller than Gaines  
(known variety)  
35 centimeters shorter than Hill 81  
(known variety)

\*8. Time of Anthesis:

- a. Relative (circle one or range) EARLY MIDSEASON LATE
- b. Total days to anthesis after planting \_\_\_\_\_
- c. 10 No. of days earlier than Hills 81  
(known variety)  
0 No. of days later than unknown  
(known variety)

\*9. Spike:

- a. Color of anthers (circle one) YELLOW PURPLE
- b. Awnedness (circle one)  
AWNLESS APICALLY AWNLETED AWNLETED AWNED
- c. Average length of awns-range 6.5 to 8 cm.  
(circle one) SHORT MID-LONG LONG

d. Size

1) Average length of spike 8 to 10 cm.

(circle one) SHORT SHORT TO MID-LONG  
MIDLONG MID-LONG TO LONG LONG

2) Average width 13 to 16 mm

(circle one) NARROW MID-WIDE WIDE

e. Shape (circle one or range) FUSIFORM OBLONG CLAVATE

ELLIPTICAL OTHER \_\_\_\_\_

f. Density (circle one or indicate range)

VERY LAX LAX MID-DENSE DENSE VERY DENSE

g. Color of awns at maturity (circle one) BLACK BLUE BROWN

GREY PURPLE RED TAN WHITE/AMBER YELLOW

ROW MIXED FOR COLOR MULTICOLORED PLANT PART

h. Position of spike at maturity (circle one)

ERECT INCLINED NODDING

i. Shattering (circle one)

1 2 3 4 5 6 7 8 9  
(very low) (very high)

Compared to Hills 81 LESS SAME MORE  
(know variety)

\*10. Glumes:

a. Color at maturity (circle one) BLACK BLUE BROWN

GREY PURPLE RED TAN WHITE/AMBER YELLOW

ROW MIXED FOR COLOR MULTICOLORED PLANT PART

b. Average length 8-10 mm.

Relative (circle one) SHORT MID-LONG LONG

c. Average width 4.8 mm.

Relative (circle one) NARROW MID-WIDE WIDE

d. Shoulder

- 1) Width in mm. (circle one) NARROW MID-WIDE WIDE
- 2) Shape (circle one or range) WANTING OBLIQUE ROUNDED  
SQUARE ELEVATED APICULATE

e. Beak

- 1) Width (circle one) NARROW MID-WIDE WIDE
- 2) Length--range 6 to 9 mm  
(circle one) VERY SHORT SHORT MEDIUM SHORT  
MEDIUM MEDIUM LONG LONG VERY LONG
- 3) Shape of apex (circle one) ACUMINATE OBTUSE ACUTE

- f. Pubescence of glume (circle one) 1 2 3 4 5 6 7 8 9  
1=none or glabrous

\*11. Seed Characteristics:

- a. Color (circle one) WHITE AMBER RED PURPLE OTHER \_\_\_\_\_

b. Size

- 1) Length (circle one) SHORT MID-LONG LONG  
Average length 7 mm (not including brush)
- 2) Width (circle one) NARROW MID-WIDE WIDE  
Average width 4 mm
- 3) Average weight per 1000 seeds 49 grams.

- c. Shape (circle one) OVATE OVAL ELLIPTICAL

- d. Describe texture and quality of this variety as compared to a known variety.

e. Brush

- 1) Size (circle one) SMALL MEDIUM LARGE
- 2) Length (circle one) SHORT MEDIUM LONG
- 3) Collared? (circle one) YES NO

- f. Crease
- |                       |                |          |      |
|-----------------------|----------------|----------|------|
| 1) Width (circle one) | <u>NARROW</u>  | MID-WIDE | WIDE |
| 2) Depth (circle one) | <u>SHALLOW</u> | MID-DEEP | DEEP |
- g. Cheek (circle one)      ROUNDED                      ANGULAR
- h. Germ
- |                      |       |        |              |
|----------------------|-------|--------|--------------|
| 1) Size (circle one) | SMALL | MEDIUM | <u>LARGE</u> |
|----------------------|-------|--------|--------------|
- i. Seeds of this variety are most similar to \_\_\_\_\_  
(known variety)

\*12. Variant (See definition):  
Describe variants observed, including frequency of occurrence. Not to include off-type. Spike length increased from (8) mesh to (14) fourteen mesh two years in (18) crop years (8) eight mesh to (10) ten mesh, ten years of the 18 year crops. Stem length 29" to 36" varied with weather conditions.

\*13. List any other traits or special markers that may be helpful in identifying the variety, including characteristics determined by use of biochemical methods (e.g. phenol reaction or electrophoresis).  
Longer heads, winter hardiness shows high, 1989 no damage loss. (other varieties from 40% to 90% of which most had to replant to spring varieties. 1990 already has a loss of 20% to 25% on W. Wheat seeded. (another winter hardiness test) 10 days of heavy rain before harvest - kernel discolor by fungus was very little. Sprout in the embryo showed a fraction. All other varieties in the same area suffered badly and went for feed only.

Key - \* High priority descriptors