



**2. CULM:** (continued)

## LENGTH

\_\_\_ • \_\_\_ cm (Soil level to top of extended panicle on main stem)

\_\_\_ • \_\_\_ cm Shorter Than Check Variety: \_\_\_\_\_

Length Same as Check Variety: \_\_\_\_\_

\_\_\_ • \_\_\_ cm Longer than Check Variety: \_\_\_\_\_

\_\_\_ Height Class: 1 = Short ( $\leq 95$  cm) 2 = Medium (96-114 cm) 3 = Tall ( $\geq 115$  cm)

\_\_\_ Internode Color: (After Flowering): 1 = Green 2 = Light Gold 3 = Purple Lines 4 = Purple

\_\_\_ Strength (Lodging Resistance): 1 = Strong (no Lodging) 3 = Moderately Strong (Most Plants Leaning)  
5 = Intermediate (Most Plants Lodged) 7 = Weak (Most Plants Flat)  
9 = Very Weak (All Plants Flat)

**3. FLAG LEAF:** (At Maturity)

\_\_\_ • \_\_\_ cm Length \_\_\_ • \_\_\_ mm Width

\_\_\_ Pubescence: 1 = Glabrous 2 = Intermediate 3 = Pubescent

\_\_\_ Leaf Angle (After Heading): 1 = Erect 3 = Intermediate 5 = Horizontal 7 = Descending

\_\_\_ Blade Color (At Heading): 1 = Pale Green 2 = Green 3 = Dark Green 4 = Purple Tips  
5 = Purple Margins 6 = Purple Blotch 7 = Purple

\_\_\_ Basal Leaf Sheath Color (At Heading): 1 = Green 2 = Purple Lines 3 = Light Purple 4 = Purple

**4. LIGULE:**

\_\_\_ • \_\_\_ mm Length (From base of collar to the tip, at late vegetative stage)

\_\_\_ Color: (Late Vegetative Stage): 1 = White 2 = Purple Lines 3 = Purple

\_\_\_ Shape: 1 = Acute to Acuminate 2 = 2-Cleft 3 = Truncate

\_\_\_ Collar Color (Late Vegetative Stage): 1 = Pale Green 2 = Green 3 = Purple

\_\_\_ Auricle Color (Late Vegetative Stage): 1 = Pale Green 2 = Purple

**5. PANICLE:**

\_\_\_ • \_\_\_ cm Length

\_\_\_ Type: 1 = Compact 5 = Intermediate 9 = Open

\_\_\_ Secondary Branching: 1 = Absent 2 = Light 3 = Heavy 4 = Clustering

\_\_\_ Exsertion (Near Maturity): 1 = Less than 90% 2 = 90 – 99% 3 = 100% Exserted

\_\_\_ Shattering (At Maturity): 1 = Low ( $\leq 5\%$ ) 5 = Moderate (6 – 25%) 9 = High (More than 25%)

\_\_\_ Threshability: 1 = Difficult 2 = Intermediate 3 = Easy

**6. GRAIN:** (Spikelet)

\_\_\_ Awns (After Full Heading): 0 = Absent 1 = Short and Partly Awned 5 = Short and Fully Awned  
7 = Long and Partly Awned 9 = Long and Fully Awned

\_\_\_ Apiculus Color (At Maturity): 1 = White 2 = Straw 3 = Brown (Tawny) 4 = Red  
5 = Red Apex 6 = Purple 7 = Purple Apex

\_\_\_ Apiculus Color (After Full Heading): 1 = White 2 = Straw 3 = Brown (Tawny) 4 = Red  
5 = Red Apex 6 = Purple 7 = Purple Apex

\_\_\_ Stigma Color: 1 = White 2 = Light Green 3 = Yellow 4 = Light Purple 5 = Purple

**6. GRAIN: (Spikelet)**

\_\_\_ Lemma and Palea Color (At Maturity):

0 = Straw	1 = Gold and/or Gold Furrows on Straw Background	2 = Brown Spots on Straw (Piebald)
3 = Brown Furrows on Straw	4 = Brown (Tawny)	5 = Reddish to Light Purple
6 = Purple Spots on Straw	7 = Purple Furrows on Straw	8 = Purple
9 = Black	10 = White	

\_\_\_ Lemma and Palea Pubescence:      1 = Glabrous      2 = Hairs on Lemma Keel      3 = Hairs on Upper Portion  
 4 = Short Hairs      5 = Long Hairs (Velvety)

\_\_\_ Spikelet Sterility (At Maturity):      1 = Highly Fertile (> 90%)      3 = Fertile (75 – 90%)      5 = Partly Sterile (50 – 74%)  
 7 = Highly Sterile (< 50% to Trace)      9 = Completely Sterile (0%)

**7. GRAIN: (Seed)**

\_\_\_ Seed Coat (Bran) Color:      1 = White      2 = Light Brown      3 = Speckled Brown      4 = Brown  
 5 = Red      6 = Variable Purple      7 = Purple

\_\_\_ Endosperm Type:      1 = Nonglutinous (Nonwaxy)      2 = Glutinous (Waxy)      3 = Indeterminate

\_\_\_ Endosperm Translucency:      1 = Clear      5 = Intermediate      9 = Opaque

\_\_\_ Endosperm Chalkiness:      0 = None      1 = Small (Less than 10% of Sample)  
 5 = Medium (10 – 20% of Sample)      9 = Large (More than 20% of Sample)

\_\_\_ Scent (Aroma):      0 = Nonscented      1 = Lightly Scented      2 = Scented

Shape Class (Length/Width Ratio):

\_\_\_ Paddy      1 = Short (2.2:1 and Less)      2 = Medium (2.3:1 to 3.3:1)      3 = Long (3.4:1 and More)

\_\_\_ Brown      1 = Short (2.0:1 and Less)      2 = Medium (2.1:1 to 3.0:1)      3 = Long (3.1:1 and More)

\_\_\_ Milled      1 = Short (1.9:1 and Less)      2 = Medium (2.0:1 to 2.9:1)      3 = Long (3.0:1 and More)

Measurements:

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)
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Paddy      \_\_\_\_\_

Brown      \_\_\_\_\_

Milled      \_\_\_\_\_

\_\_\_ Milling Quality (% Hulls)      \_\_\_ Milling Yield (% White Kernel (head) Rice to Rough Rice)

\_\_\_ % Protein      \_\_\_ % Amylose

Alkali Spreading Value:      \_\_\_\_\_ 1.5% KOH Solution      or      \_\_\_\_\_ 1.7% KOH Solution

\_\_\_ Gelatination Temperature Type:      1 = High      5 = Intermediate      7 = Low

Amylographic Paste Viscosity

Peak	Hot Paste	Cooled Paste	"Breakdown" "Setback"
_____	_____	_____	_____

**8. RESISTANCE TO LOW TEMPERATURE:**

\_\_\_ Germination and Seedling Vigor:      1 = Low      2 = Medium      3 = High

\_\_\_ Flowering (Spikelet Fertility):      1 = Low      2 = Medium      3 = High

**9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:**

\_\_\_ Vigor:      1 = Low      2 = Medium      3 = High

**10. BLAST RESISTANCE:** (*Magnaporthe oryzae*). (International races found under References)

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

Group	IB		IC			ID	IE	IG	IH	Others:	
Number	1	5	45	49	54	1	17	1	13	1	1
Resistance	___	___	___	___	___	___	___	___	___	___	___

**11. RESISTANCE TO OTHER DISEASES:**

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

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|---|---|
| ___ Narrow Brown Leaf Spot ( <i>Cerospora oryzae</i> )  | ___ Aggregate Sheath Spot ( <i>Rhizoctonia oryzae-sativae</i> )                 |
| ___ Leaf Smut ( <i>Entyloma oryzae</i> )  | ___ Straight Head   |
| ___ Brown Leaf Spot ( <i>Helminthosporium oryzae</i> )<br>(= <i>Bipolaris oryzae</i> )<br>(= <i>Drechslera oryzae</i> ) | ___ Kernel Smut ( <i>Neovossia horrida</i> )<br>(= <i>Tilletia barclayana</i> ) |
| ___ Leaf Scald ( <i>Gerlachia oryzae</i> )  | ___ White Tip Nematode ( <i>Aphelenchoides besseyi</i> )                        |
| ___ Hoja Blanca Virus   | ___ Stem Rot ( <i>Sclerotium oryzae</i> )                                       |
| ___ Sheath Rot ( <i>Sarocladium oryzae</i> )  |   |
| ___ Pythium Seedling Blight ( <i>Pythium</i> sp.)   | ___ Bacterial Blight ( <i>Xanthomonas campestris</i> pv. <i>oryzae</i> )        |
| ___ Sheath Spot ( <i>Rhizoctonia oryzae</i> )   | ___ Sheath Blight ( <i>Rhizoctonia solani</i> )                                 |
| ___ Other: _____  |   |

**12. INSECT RESISTANCE:**

0 = Immune      1 = Resistant      3 = Moderately Resistant      5 = Intermediate      7 = Moderately Susceptible      9 = Susceptible

- |                     |  |
|---------------------|--|
| ___ Grasshopper     | ___ Rice Stink Bug ( <i>Oegalus pugnax</i> )               |
| ___ Rice Leafhopper | ___ Swarm Caterpillar                                      |
| ___ Rice Hispa      | ___ Rice Water Weevil ( <i>Lissorhoptrus oryzophilus</i> ) |
| ___ Rice Midge      | ___ Rice Stalk Borer ( <i>Chilo plejadellus</i> )          |
| ___ Least Skipper   | ___ Sugarcane Borer ( <i>Diatraea saccharalis</i> )        |

**13. OTHER DESCRIPTORS:** If there are other characters that describe this variety, please indicate below:**REFERENCES**

- C. R. Adair *et al.* 1972. Rice in the United States: Varieties and Production. USDA Handbook No. 289 (Rev.), 124 pp.
- J. G. Atkins *et al.* 1967. An International Set of Rice Varieties for Differentiating Race of *Pyricularia Oryzae*. Phytopath. 57:297-301.
- IBPGR-IRRI Rice Advisory Committee. 1980. Descriptors for Rice *Oryzae Sativa* L. International Rice Research Institute. 21 pp.
- K. C. Ling and S. H. Ou, 1969. Standardization of the International Race Numbers of *Pyricularia Oryzae*. Phytopath. 59:339-342.
- B. D. Webb *et al.* 1985. Utilization Characteristics and Qualities of United States Rice. In Proceedings on Rice Grain Quality and Marketing. International Rice Research Institute (IRRI), Los Branos, Philippines. P. 25-35.