

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 (≤ 95 cm) 2 = Medium (96-114 cm) 3 = Tall (≥ 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
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___ Endosperm Translucency:	1 = Clear	5 = Intermediate	9 = Opaque
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___ 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
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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)
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___ Brown	1 = Short (2.0:1 and Less)	2 = Medium (2.1:1 to 3.0:1)	3 = Long (3.1:1 and More)
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___ Milled	1 = Short (1.9:1 and Less)	2 = Medium (2.0:1 to 2.9:1)	3 = Long (3.0:1 and More)
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Measurements:

Grain Form	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1000 Grains (grams)
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Paddy	_____	_____	_____	_____	_____
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Brown	_____	_____	_____	_____	_____
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Milled	_____	_____	_____	_____	_____
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___ Milling Quality (% Hulls)	___ Milling Yield (% White Kernel (head) Rice to Rough Rice)
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___ % Protein	___ % Amylose
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Alkali Spreading Value:	_____ 1.5% KOH Solution	or	_____ 1.7% KOH Solution
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___ Gelatination Temperature Type:	1 = High	5 = Intermediate	7 = Low
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Amylographic Paste Viscosity

Peak	Hot Paste	Cooled Paste	"Breakdown" "Setback"
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8. RESISTANCE TO LOW TEMPERATURE:

___ Germination and Seedling Vigor:	1 = Low	2 = Medium	3 = High
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___ Flowering (Spikelet Fertility):	1 = Low	2 = Medium	3 = High
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9. SEEDLING VIGOR NOT RELATED TO LOW TEMPERATURE:

___ Vigor:	1 = Low	2 = Medium	3 = High
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10. BLAST RESISTANCE: (*Pyricularia 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>)
(= <i>Bipolaris oryzae</i>)
(= <i>Drechslera oryzae</i>) | ___ Kernel Smut (<i>Neovossia horrida</i>)
(= <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 pv. 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

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|---------------------|--|
| ___ 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.