Variety

Sahbhagi Dhan

(IR 55419-4*2* x WAY RAREM*)

Product Profile

Early maturity, semi-dwarf,long-bold grain, widely adaptable variety mainly grown as direct seeded under rainfed and upland conditions. Developed by CRRI, Hajaribag & IRRI and released in 2008 for Jharkhand and Odhisa. Tolerant to drought and highly adaptable to water scarce and upland environments. Excellent grain and eating quality with low glycemic index.

Priority Market Segment - TLaM-R

Planting Method		Ecosystem		
PTR	DSR	Irrigated Lowland	Rainfed Lowland	Upland
Recommended	Recommended	Not Recommended	Recommended	Recommended

Positioning

Position	Irrigated Lowland	Rainfed Lowland	Upland
Replace	None	IR-64	IR-64
Companion	None	Samba Masuri, DRR Dhan 42	DRR Dhan 42

Key Strengths

- Drought tolerant
- Semi-dwarf; Profuse tillering; High straw yield
- Long bold grain
- Early maturity; Non-lodging
- High HRR; Excellent eating quality
- Tolerant to Leaf blast, Sheath blight&Leaf folder

Considerations

- Susceptible to low temperature
- Low yield under sever drought
- Susceptible to Leaf blight

Relative Variety Performance - Grain Yield and Agronomic Traits

Variety	Grain yield		Maturity (days)	Plant height (cm)	Lodging	HRR %	Amylose content %	1000 grain weight (g)
	(Kg/ha)	% Adv						
Sahbhagi Dhan	3800-4500	5	100-110	85-90	Tolerant	64.7	24.7	22.3
IR-64	4000-4300	-	115-120	100-105	Tolerant	49.1	24.5	23.1

Relative Variety Performance - Biotic and Abiotic Stress

Variety	Leaf blast	Leaf blight	Sheath blight	BPH	Stem borer	Leaf folder	Drought
Sahbhagi Dhan	Tolerant	Susceptible	Tolerant	Susceptible	Tolerant	Tolerant	Tolerant
IR-64	Tolerant	Resistant	Susceptible	Tolerant	Susceptible	Susceptible	Susceptible

Producibility: *Sahbhagi Dhan= 1500-1800Kgs. / acre*

Recommendation: *Released for cultivation in Odhisa, Madhya Pradesh, Andhra Pradesh, Jharkhand, Chhattisgarh, Bihar, West Bengal, Assam, UttarPradesh.*

National check in varietal trial (Early direct seeded) conducted by IIRR, India.

**Parental line (s) from IRRI germplasm*

CGIAR

IRRI