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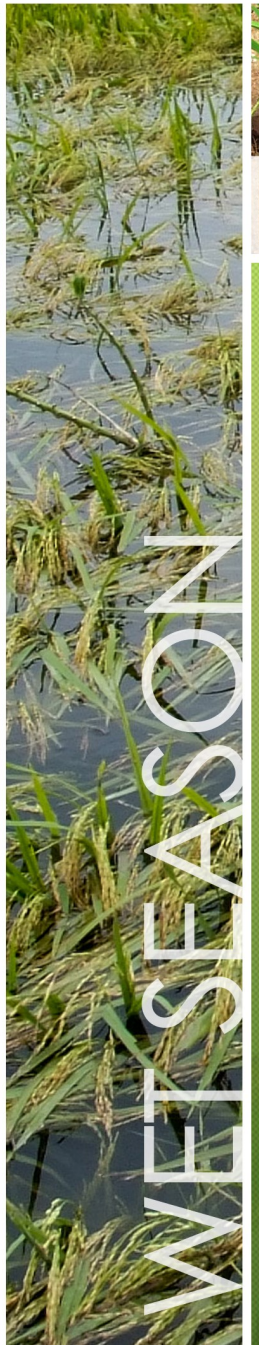
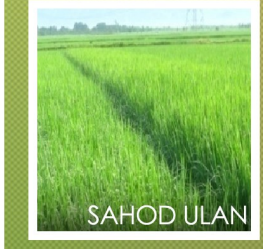
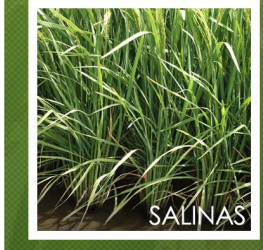
Bureau of Plant Industry
G/F NSIC Building, BPI Compound, Malate, Manila
Tel/Fax (02) 8525-1534
E-mail Address: seedcouncil@yahoo.com

DEPARTMENT OF AGRICULTURE
BUREAU OF PLANT INDUSTRY
NATIONAL SEED INDUSTRY COUNCIL







RICE VARIETIES

ADAPTABLE TO ABIOTIC STRESS CONDITIONS

CLIMATE CHANGE VARIETIES

2ND EDITION
2012

Preface

2nd Edition

Our office is releasing the second edition of our Seed Catalogue on rice varieties that are adaptable in certain abiotic conditions. We are doing this because it is our desire to continuously inform the public that there are rice varieties that can be grown under adverse conditions.

This latest edition listed new varieties that are adaptable in drought and saline prone areas. It is a known fact the climate change phenomenon has been unfavorably changing the agriculture landscape. Because of this, the government through its research and development and policy offices have been crafting strategies in meeting the challenges caused by changes in the climate and or our environment.

One strategy that works is the development of crop varieties that are suited in unfavorable soil conditions. The growing environment could be high in salt, and prone to prolonged wet and dry conditions. This approach is considered long-term; however, plant breeders had long anticipated the existence of such environments and therefore have developed varieties that can withstand such conditions.

Some people are asking, 'do we have varieties that can still give farmers economic yield?" The answer is yes. The Department of Agriculture through the Bureau of Plant Industry-National Seed Industry Council has in its crop variety registry the list or names of such varieties. The registry record of the varieties contains their respective agronomic characteristics.

This Seed Catalogue also contains the name and address of the breeders of such varieties. This information would assist the seed user in finding the variety and avail such for his or her farming endeavors.

It is hoped that this information material can serve the public and help our farmers.

CLARITO M. BARRON, PhD., CESO IV
Director
Bureau of Plant Industry

ADDRESS OF BREEDERS:

Philippine Rice Research Institute

Maligaya, Science City of Muñoz, 3119 Nueva Ecija
TRUNKLINES: +63 (44) 456-0277
Help Desk: +63 (044) 456-5387
Text Center: 0917-111-7423
E-mail: prri.mail@philrice.gov.ph
Website: www.philrice.gov.ph

International Rice Research Institute

Pili Drive, Los Baños, Laguna 4031
Tel. No. +63 (02) 8580 5600, +63 (02) 8845 0563
e-mail address: info@irri.org
Website: www.irri.org

University of the Philippines Los Baños

College of Agriculture, Los Baños, College, Laguna
Tel./Fax No. +63 (049)536 3604
e-mail address: uplb@up.edu.ph
Website: www.uplb.edu.ph

NSIC 2001 Rc104 (Balili)
Cool Elevated

BACKGROUND:

Pedigree Number: PR26770-PJ2

Parents : TODOROKIWASE//TODOROKIWASE/OSOK

YIELD (kg/ha)	:	4668 dry season
	:	3868 wet season
MATURITY (DAS)	:	155 dry season
	:	148 wet season
PLANT HEIGHT (cm)	:	93 dry season
	:	94 wet season
PRODUCTIVE TILLERS (no/hill)	:	18 dry season
	:	15 wet season

REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, bacterial leaf blight, sheath blight and brown planthopper 2

GRAIN QUALITY:

Hull (%)	:	24.82 Fair
Brown rice recovery (%)	:	75.18 Fair
Milling recovery (%)	:	64.15 Grade 2
Head rice recovery (%)	:	48.1 Grade 1
Amylose content (%)	:	17.6 Low
Protein (%)	:	9.3
Gel consistency (mm)	:	31.5 High
Chalky grains (%)	:	6.1 Grade 2

* Suitable to medium elevation, January and July planting
* Moderate tolerance to cool temperature
* Good grain quality
* Short and intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

Preface

1st Edition

Climate change is one of many interlinked environmental concerns that will increasingly affect food production now and in the future. Before, the Department of Agriculture was able to address El Nino phenomenon by proactively undertaking actions before it occurs. Now, more than ever, we are faced with a greater challenge of mitigating the adverse effects climate change in crop production.

One of the most practical ways of adapting to climate change is the development, production, and maintenance of the high quality seeds and plant materials that are suitable to varied conditions. Understanding their important role in this endeavor, plant breeders are vigorous than ever in refocusing their thrust to develop varieties that can withstand unfavorable agro-climatic conditions.

For its part, the National Seed Industry Council (NSIC) in responding to the challenge of changing climate had released rice varieties suited to the different growing conditions in our country – irrigated, rainfed, upland, cool elevated, and saline. Moreover, there are rice varieties developed by the breeding institutions like the Philippine Rice Research Institute (PhilRice), International Rice Research Institute (IRRI) and the University of the Philippines Los Baños (UPLB) that are suitable for drought, saline and flood prone areas, and stop-gap varieties for tungro hot spot areas. These are concrete steps by various institutions to provide their contributions to address climate change.

Today, the NSIC is launching a special Rice Seed Catalogue that will provide information on the agronomic characteristics of NSIC-accredited and registered rice varieties. This Seed Catalogue will bridge the information from the rice breeders to our agriculture stakeholders in the hope of providing them technical information that will aid them in crop production in the midst of changing climate.

May this Seed Catalogue assist each stakeholder, the rice farmers, seed producers, and rice-based businessmen in taking part in the noble task of addressing food security and profitability for the Filipino people in this challenging times.

LARRY R. LACSON, PhD
OIC-Executive Director
National Seed Industry Council

NSIC 2000 Rc96 (Ibulao)
Cool Elevated

BACKGROUND

Pedigree Number: IR61608-3B-20-2-2-1-1
Parents : IR32429-47-3-2-2//DOBONGBYEO MOROBEREKEN

YIELD (kg/ha)	:	3675
MATURITY (DAS)	:	136
PLANT HEIGHT (cm)	:	80
PRODUCTIVE TILLERS (no/hill)	:	16

REACTION TO PESTS AND DISEASES

* Resistant to blast at cool elevated areas
* Moderately resistant to brown planthopper 2
* Susceptible to blast at lowland condition, bacterial leaf blight, sheath blight, modified and induced tungro virus, green leafhopper and whiteheads

GRAIN QUALITY:

Hull (%)	:	24.6 Fair
Brown rice recovery (%)	:	75.4 Fair
Milling recovery (%)	:	66.1 Grade 1
Head rice recovery (%)	:	50.8 Grade 1
Amylose content (%)	:	26.2 High
Protein (%)	:	8.7
Gel consistency (mm)	:	30.5 High
Chalky grains (%)	:	2.4 Grade 1

* Adaptable to low to medium elevation
* Long and slender grains
* High acceptability

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2000 Rc94 (Hungduan)
Cool Elevated

BACKGROUND
Pedigree Number: IR61336-4B-14-3-2
Parents : IR44535-22-3-3-3/IR8866-30-3-1-4-2

YIELD (kg/ha) : 3321
MATURITY (DAS) : 133
PLANT HEIGHT (cm) : 80
PRODUCTIVE TILLERS (no/hill): 16
REACTION TO PESTS AND DISEASES:

* Resistant to blast at cool elevated areas
* Intermediate reaction to brown planthopper 2
* Susceptible to blast at lowland and highland condition, bacterial leaf blight, sheath blight, modified and induced tungro virus and green leafhopper

GRAIN QUALITY:

Hull (%)	:	23.2 Fair
Brown rice recovery (%)	:	76.8 Fair
Milling recovery (%)	:	68.2 Grade 1
Head rice recovery (%)	:	52.4 Grade 1
Amylose content (%)	:	26.2 High
Protein (%)	:	8.6
Gel consistency (mm)	:	30.2 High
Chalky grains (%)	:	2.6 Grade 1

* Adaptable to low to medium elevation
* Good headrice recovery
* High acceptability
* Medium and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

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NSIC 2000 Rc92 (Sagada)
Cool Elevated

BACKGROUND

Pedigree Number: IR9202-25-1-3

Parents: IR2053-521-1-1/K116//KN-1B-361-1-8-6-9-1

YIELD (kg/ha)	:	3631
MATURITY (DAS)	:	131
PLANT HEIGHT (cm)	:	94
PRODUCTIVE TILLERS (no/hill)	:	15

REACTION TO PESTS AND DISEASES:

* Resistant to blast at cool elevated areas.
* Intermediate reaction to modified rice. tungro virus, whiteheads, and brown planthopper.
* Susceptible to blast at lowland condition, bacterial leaf blight, sheath blight, induced tungro virus and green leafhopper.

GRAIN QUALITY:

Hull (%)	:	22.5 Fair
Brown rice recovery (%)	:	77.5 Fair
Milling recovery (%)	:	69.7 Grade 1
Head rice recovery (%)	:	50.0 Grade 1
Amylose content (%)	:	25.4 High
Protein (%)	:	9.4
Gel consistency (mm)	:	31.0 High
Chalky grains (%)	:	5.2 Grade 2

* Adaptable to low to medium elevation
* High yielding
* Good headrice recovery
* Highly acceptable
* Short and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

PSB 1995 Rc46 (Sumadel)
Cool elevated

BACKGROUND

Line Designation : IR25976-12-2-2-2-1-1
Parents : JUMALI/IR9129-159-3//KN-1B-361-1-8-6-9

YIELD (kg/ha) : 4282
MATURITY (DAS) : 135
PLANT HEIGHT (cm) : 98
PRODUCTIVE TILLERS (no./hill) : 13

REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, bacterial leaf blight and green leafhopper
* Moderately susceptible to brown planthopper 1, 2 & 3

GRAIN QUALITY:

Amylose content (%) : 26.5 High
Gel consistency (mm) : 54.0 Soft

COLD TOLERANCE : Intermediate

* High yielding
* Wet season adaptation
* Good grain quality
* Medium and slender grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

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Varieties for Cool Elevated Areas

PSB 1995 Rc36 (Ma-ayon)
Drought Prone Rainfed Lowland

BACKGROUND

Entry Designation: ENNANO II

Parents: Traditional Variety

YIELD (kg/ha)

Phase I	:	3148
Phase II	:	2313
MATURITY (DAS)	:	127
PLANT HEIGHT (cm)	:	121
PRODUCTIVE TILLERS (no./hill)	:	11

REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, bacterial leaf blight, sheath blight, tungro modified, green leafhopper, yellow stem borer and brown plant hopper 1 & 3
* Moderately susceptible to deadhearts and whiteheads and susceptible to tungro induced and brown planthopper 2

GRAIN QUALITY:

Hull (%)	:	23.49 Fair
Brown rice recovery (%)	:	76.51 Fair
Milling recovery (%)	:	62.54 Grade 3
Head rice recovery (%)	:	40.54 Grade 2
Amylose content (%)	:	27.57 High
Protein (%)	:	7.49
Gel consistency (mm)	:	63.0 Soft

* Drought tolerant
* Better eating quality
* Medium and intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

PSB 1995 Rc44 (Gohang)
Cool elevated

BACKGROUND

Line Designation : IR59469-B-B-3-2

Parents : IR9202-5-2-2-2/RPKN2//IR15889-32-1

YIELD (kg/ha)	:	4181
MATURITY (DAS)	:	144
PLANT HEIGHT (cm)	:	98
PRODUCTIVE TILLERS (no./hill)	:	16

REACTION TO PESTS AND DISEASES:

* Resistant to deadhearts
* Intermediate reaction to blast
* Susceptible to bacterial leaf blight, sheath blight, tungro modified and brown planthopper

GRAIN QUALITY:

Hull (%)	:	22.08 Fair
Brown rice recovery (%)	:	77.92 Fair
Milling recovery (%)	:	67.35 Grade 2
Head rice recovery (%)	:	52.41 Grade 1
Amylose content (%)	:	30.08 High
Protein (%)	:	8.26
Gel consistency (mm)	:	69.60 Soft

* Good for low to medium elevated areas.
* High yielding
* Good quality comparable with traditional varieties
* Medium and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2003 Rc120 (Matatag 6)
Tungro Hot Spot

BACKGROUND
Pedigree Number: LF-31-28-1
Parents : ARC 11554/6*TNI/IR64

YIELD (kg/ha) : 4606 dry season
: 4200 wet season
MATURITY (DAS) : 113 dry season
: 117 wet season
PLANT HEIGHT (cm) : 94 dry season
: 106 wet season
PRODUCTIVE TILLERS (no/hill): 14 dry season
: 14 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to rice tungro virus modified
* Moderately resistant to whiteheads stemborer
* Intermediate reaction to blast, bacterial leaf blight, sheath blight, yellow stemborer, green leafhopper & induced rice tungro virus

GRAIN QUALITY:

Brown rice recovery (%)	:	75.2 Fair
Milling recovery (%)	:	63.3 Grade 3
Head rice recovery (%)	:	43.8 Grade 2
Amylose content (%)	:	19.5 Low
Protein (%)	:	8.25
Chalky grains (%)	:	1.7 Premium

* Tungro resistance from a wild rice *O. rupifogon*
* Good milling and headrice recovery.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

PSB 1995 Rc38 (Rinara)
Drought Prone Rainfed Lowland

BACKGROUND
Entry Designation: RINARA
Parents: RINARA, local traditional

YIELD (kg/ha)
Phase I : 3221
MATURITY (DAS) : 127
PLANT HEIGHT (cm) : 119
PRODUCTIVE TILLERS (no./hill) : 11

REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, bacterial leaf blight, sheath blight, tungro modified, whiteheads, green leafhopper, yellow stemborer and brown planthopper 1
* Moderately susceptible to deadhearts and susceptible to tungro induced and brown planthopper 2 & 3

GRAIN QUALITY:

Hull (%)	:	23.80 Fair
Brown rice recovery (%)	:	76.20 Fair
Milling recovery (%)	:	62.48 Grade 3
Head rice recovery (%)	:	42.93 Grade 2
Amylose content (%)	:	28.07 High
Protein (%)	:	7.91
Gel consistency (mm)	:	69.83 Soft

* Drought tolerant
* Acceptable grain quality
* Medium and intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

PSB 1995 RC40 (CHAYONG)
DROUGHT PRONE RAINFED LOWLAND

BACKGROUND
Entry Designation: CHAYONG
Parents: CHAYONG, Local Traditional

YIELD (kg/ha)
Phase I : 3071
Phase II : 2527
MATURITY (DAS) : 30
PLANT HEIGHT (cm) : 126
PRODUCTIVE TILLERS (no./hill) : 10

REACTION TO PESTS AND DISEASES:

* Resistant to blast
* Intermediate reaction to bacterial leaf blight, sheath blight, tungro modified, green leafhopper, yellow stemborer and brown planthopper 1
* Moderately susceptible to deadhearts and whiteheads susceptible to tungro induced and brown planthopper 2 & 3

GRAIN QUALITY:

Hull (%)	:	23.34 Fair
Brown rice recovery (%)	:	76.66 Fair
Milling recovery (%)	:	64.24 Grade 3
Head rice recovery (%)	:	43.55 Grade 2
Amylose content (%)	:	27.26 High
Protein (%)	:	8.06
Gel consistency (mm)	:	54.60 Medium

* Drought tolerant
* Good grain quality
* Medium and intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2003 Rc118 (Matatag 3)
Tungro Hot Spot

BACKGROUND
Pedigree Number : IR68305-18-1-1
Parents : IR1561-228-3-3*2/UTRI MERAH

YIELD (kg/ha) : 4606 dry season
:4200 wet season
MATURITY (DAS) : 113 dry season
:117 wet season
PLANT HEIGHT (cm) : 94 dry season
:106 wet season
PRODUCTIVE TILLERS (no/hill) :14 dry season
:14 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to rice tungro virus modified
* Moderately resistant to whiteheads stemborer
* Intermediate reaction to blast, bacterial leaf blight, sheath blight, yellow stemborer, green leafhopper & induced rice tungro virus

GRAIN QUALITY:

Brown rice recovery (%)	:	75.2 Fair
Milling recovery (%)	:	63.3 Grade 3
Head rice recovery (%)	:	43.8 Grade 2
Amylose content (%)	:	19.5 Low
Protein (%)	:	8.25
Chalky grains (%)	:	1.7 Premium

* Tungro resistance from a wild rice *O. rupifogon*
* Good milling and headrice recovery.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

Stop gap variety (Matatag 9)
Tungro Hot Spot

BACKGROUND

Pedigree Number : IR73885-1-4-3-2-1-6
Parents : IR64/O.RUFIPOGON (105908)//IR64

YIELD (kg/ha)	:	4606 dry season
	:	4200 wet season
MATURITY (DAS)	:	113 dry season
	:	117 wet season
PLANT HEIGHT (cm)	:	94 dry season
	:	106 wet season
PRODUCTIVE TILLERS (no/hill)	:	14 dry season
	:	14 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to rice tungro virus modified
* Moderately resistant to whiteheads stemborer
* Intermediate reaction to blast, bacterial leaf blight, sheath blight, yellow stemborer, green leafhopper & induced rice tungro virus

GRAIN QUALITY:

Brown rice recovery (%)	:	75.2 Fair
Milling recovery (%)	:	63.3 Grade 3
Head rice recovery (%)	:	43.8 Grade 2
Amylose content (%)	:	19.5 Low
Protein (%)	:	8.25
Chalky grains (%)	:	1.7 Premium

* Tungro resistance from a wild rice *O. rupifogon*
* Good milling and headrice recovery.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

PSB 1995 Rc42 (Baliwag)
Drought Prone Rainfed Lowland

BACKGROUND

Line Designation: MRC22939-24-2
Parents: MRC8129-1104/IR36

YIELD (kg/ha)	:	3224
MATURITY (DAS)	:	114
PLANT HEIGHT (cm)	:	113
PRODUCTIVE TILLERS (no./hill)	:	75

REACTION TO PESTS AND DISEASES:

* Resistant to blast
* Intermediate reaction to bacterial leaf blight, sheath blight, tungro modified, yellow stemborer and brown planthopper 1 & 2
* Moderately susceptible to deadhearts and whiteheads and susceptible to tungro induced, green leafhopper and brown planthopper 3

GRAIN QUALITY:

Hull (%)	:	23.13 Fair
Brown rice recovery (%)	:	77.00 Fair
Milling recovery (%)	:	61.34 Grade 3
Head rice recovery (%)	:	37.12 Grade 2
Amylose content (%)	:	23.47 High
Protein (%)	:	7.41

* Drought tolerant
* Good for dry-seeding culture
* Good grain quality
* Long and slender grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2000 Rc98 (Lian)
Drought Prone Rainfed Lowland

BACKGROUND
Pedigree Number : C3419-10-1-2
Parents: IR4563-52-1-3-6/IR36974-13-3-3// IR32479-47-3-2-2

YIELD (kg/ha)

Phase I	: 2685 drought environment
	: 3857 favorable environment
Phase II	: 3957 drought environment
	: 5282 favorable environment
MATURITY (DAS)	: 116
PLANT HEIGHT (cm)	: 98
PRODUCTIVE TILLERS (no/hill): 13	

REACTION TO PESTS AND DISEASES:

* Resistant to brown planthopper 1 & 3
* Intermediate reaction to blast, bacterial leaf blight, sheath blight, modified tungro virus, whiteheads, green leafhopper, yellow stemborer, and brown planthopper 2
* Susceptible to induced tungro virus and deadhearts

GRAIN QUALITY:

Hull (%)	:	24.4 Fair
Brown rice recovery (%)	:	75.6 Fair
Milling recovery (%)	:	66.1 Grade 1
Head rice recovery (%)	:	51.0 Grade 1
Amylose content (%)	:	26.5 High
Protein (%)	:	7.8
Gel consistency (mm)	:	77.1 Slender
Chalky grains (%)	:	3.7 Grade 1

* High yielding
* Highly acceptable
* Long and intermediate grains

BREEDER: **University of the Philippines at Los Baños**
Los Baños, College, Laguna

Stop gap variety (Matatag 2)
Tungro Hot Spot

BACKGROUND
Pedigree Number: IR69726-29-1-2-2-2
Parents: IR61009-37-2-1-2/IR1561///UTRI MERAH//IR1561

YIELD (kg/ha):

Favorable Environment	: 5794 dry season
	: 3704 wet season
Stress Environment	: 4102 dry season
	: 3119 wet season
MATURITY (DAS)	: 120 dry season
	: 113 wet season
PLANT HEIGHT (cm)	: 100 dry season
	:109 wet season
PRODUCTIVE TILLERS (no/hill)	:14 dry season
	:13 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to modified rice tungro virus
* Moderately resistant to whiteheads and brown planthopper 1 & 3

GRAIN QUALITY:

Hull (%)	:	22.9 Fair
Brown rice recovery (%)	:	77.1 Fair
Milling recovery (%)	:	64.6 Grade 2
Head rice recovery (%)	:	45.5 Grade 2
Amylose content (%)	:	25.6 High
Protein (%)	:	9.8
Chalky grains (%)	:	1.6 Premium

* Adaptable to both transplanting and direct seeding
* Medium and slender grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2009 Rc194 (Submarino 1)
Flood Prone Areas

BACKGROUND

Pedigree Number: IR84194-139 (IR64-Sub1)

Parents : IR40931-33-1-3-2/3*IR64

YIELD (t/ha) : 3.5 normal condition
: 2.5 submerged condition

MATURITY (80%DAT) : 112 normal condition
: 125 submerged condition

PLANT HEIGHT (cm) : 97 normal condition
: 93 submerged condition

TILLER AT MATURITY : 20 normal condition

(no/hill) : 18 submerged condition

REACTION TO PESTS AND DISEASES:

* Moderate resistance to BLB and GLH.

GRAIN QUALITY:

Amylose content (%) : 22.6 Intermediate

Gel Consistency : 93

* High tolerance to complete submergence at seedling to vegetative stage up to 14 days and retaining the good traits of high yield and good eating quality

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2000 Rc102 (Mamburao)
Drought Prone Rainfed Lowland

BACKGROUND

Pedigree Number: IR54068-B-60-1-3-3

Parents: DHULAR/IR28878-R-R-27-3-1// IR31802-48-2-2-2

YIELD (kg/ha):

Phase I : 2343 drought environment
: 3934 favorable environment

Phase II : 3558 drought environment
: 4672 favorable environment

MATURITY (DAS) : 117

PLANT HEIGHT (cm) : 101

PRODUCTIVE TILLERS (no/hill): 13

REACTION TO PESTS AND DISEASES:

* Moderately resistant to whiteheads
* Intermediate reaction to blast, bacterial leaf blight, sheath blight, green leafhopper, yellow stem borer, and brown planthopper 1, 2 & 3

GRAIN QUALITY:

Hull (%)	:	25.6 Poor
Brown rice recovery (%)	:	74.4 Poor
Milling recovery (%)	:	61.4 Grade 2
Head rice recovery (%)	:	38.3 Grade 3
Amylose content (%)	:	28.7 High
Protein (%)	:	4.8
Gel consistency (mm)	:	56.5 Medium
Chalky grains (%)	:	3.1 Grade 1

* Early maturity
* Long and slender grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2009 Rc192 (Sahod Ulan 1)
Rainfed Lowland Dry Seeded

BACKGROUND
Pedigree Number: IR4371-54-1-1
Parents: IR55419-4/WAYRAREM/IR55419-4

YIELD (kg/ha) : 3673
MATURITY (DAS) : 106
PLANT HEIGHT (cm) : 109
PRODUCTIVE TILLERS (no/hill) : 91

REACTION TO PESTS AND DISEASES:

* Resistant to whiteheads (YSB) and moderately.
  resistant to DH & WH (WSB).

GRAIN QUALITY:

Brown rice recovery (%)	:	78.0 Fair
Milling recovery (%)	:	70.1 Premium
Head rice recovery (%)	:	44.1 Grade 2
Amylose content (%)	:	23.5 Intermediate
Chalky grains (%)	:	13.9 Grade 3

* Yield advantage of 8.4% over PSB Rc14.
* Early maturing at 106 days when dry seeded, 109 when transplanted .
* Intermediate amylase content.
* Very good milling recovery.
* High percentage acceptability as compared to IR64 and PSB Rc14.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc296 (Salinas 9)
Saline Prone Irrigated Lowland

BACKGROUND
Pedigree Number: IR71896-3R-8-3-1
Parents : IR55182-3B-14-3-2/IR65195-3B-13-2-3

YIELD (kg/ha) : 3300 dry season
: 3159 wet season
MATURITY (DAS) : 116 dry season
: 117 wet season
PLANT HEIGHT (cm) : 79 dry season
: 86 wet season
PRODUCTIVE TILLERS (no/hill) : 15 dry season
: 16 wet season

REACTION TO PESTS AND DISEASES:

* Intermediate resistance to bacterial leaf blight and sheath blight.

GRAIN QUALITY:

Brown rice recovery (%)	:	79.1 Fair
Milling recovery (%)	:	70.1 Premium
Head rice recovery (%)	:	55.3 Grade 1
Amylose content (%)	:	23.9 Intermediate
Chalky grains (%)	:	9.9 Grade 2

* Consistently produced a yield of at least 3.2 t/ha across seasons, with very high yield advantage especially during the dry season (55.7%); 32.3% in the wet season; and 38.1% across season
* Early maturing at 117days
* Intermediate amylase content with medium and slender grains
* Premium milling recovery and Grade 1 head rice recovery, and fair brown rice.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc294 (Salinas 8)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number : PR28378-AC96-36
Parents : PSB Rc50/IR64

YIELD (kg/ha)	:	3140 dry season
	:	2765 wet season
MATURITY (DAS)	:	117 dry season
	:	117 wet season
PLANT HEIGHT (cm)	:	83 dry season
	:	85 wet season
PRODUCTIVE TILLERS (no/hill)	:	15 dry season
	:	15 wet season

REACTION TO PESTS AND DISEASES:

* Intermediate to bacterial leaf blight and stemborer.

GRAIN QUALITY:

Brown rice recovery (%)	:	77.9 Fair
Milling recovery (%)	:	68.1 Grade 1
Head rice recovery (%)	:	54.0 Grade 1
Amylose content (%)	:	21.0 Intermediate
Chalky grains (%)	:	5.6 Grade 2

* High yield advantage of 48.2% during the dry season, 15.7% in the wet season and 23.9% across season, against PSB Rc50, with at least 3.0 t/ha yield
* Early maturing at 117 days
* Moderate salinity tolerance
* Good grain quality with high milling and head rice recovery, intermediate amylase with long and slender grain.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc272 (Sahod Ulan 2)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: PR34363-4-Pokkali/
AC-45-M_5R-19
Parents : Pokkali

YIELD (kg/ha)	:	3003
MATURITY (DAS)	:	110
PLANT HEIGHT (cm)	:	88
PRODUCTIVE TILLERS (no/hill)	:	94

REACTION TO PESTS AND DISEASES:

Resistant to moderately resistant to Whiteheads (WSB & YSB).

GRAIN QUALITY:

Brown rice recovery (%)	:	75.6 Fair
Milling recovery (%)	:	66.6 Grade 1
Head rice recovery (%)	:	32.3 Grade 3
Amylose content (%)	:	25.0 Intermediate
Chalky grains (%)	:	7.8 Grade 2

* With an average yield of 3.0 t/ha, and high yield advantage of 29.7% over the check variety, PSB Rc14.
* Early maturing at 110 days.
* Intermediate amylose content.
* High milling recovery.
* Moderately resistant to intermediate reaction to green leafhopper.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc274 (Sahod Ulan 3)
Rainfed Lowland Dry Seeded

BACKGROUND
Pedigree Number: IR81412-B-B-82-1
Parents : IR57514-PMI-5-B-1-2/PSB Rc82

YIELD (kg/ha)	:	2977
MATURITY (DAS)	:	116
PLANT HEIGHT (cm)	:	92
PRODUCTIVE TILLERS (no/hill)	:	69

REACTION TO PESTS AND DISEASES:
Resistant to moderately resistant to Whiteheads (WSB & YSB).

GRAIN QUALITY:

Brown rice recovery (%)	:	76.2 Fair
Milling recovery (%)	:	67.5 Grade 1
Head rice recovery (%)	:	35.8 Grade 3
Amylose content (%)	:	18.7 Low
Chalky grains (%)	:	5.2 Grade 2

* High yield advantage of 28.5% over the check variety, PSB Rc14
* Medium maturing at 116 days
* Resistant to intermediate reaction to Whiteheads (YSB) and moderately resistant to green leafhopper across season
* Long and slender grain with high milling recovery.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc292 (Salinas 7)
Saline Prone Irrigated Lowland

BACKGROUND
Pedigree Number: PR30244-AC-V19
Parents : Wagwag (Anther Culture)

YIELD (kg/ha)	:	3135 dry season
	:	2912 wet season
MATURITY (DAS)	:	111 dry season
	:	111 wet season
PLANT HEIGHT (cm)	:	85 dry season
	:	86 wet season
PRODUCTIVE TILLERS (no/hill)	:	14 dry season
	:	15 wet season

REACTION TO PESTS AND DISEASES:
* Intermediate resistance to blast and tungro under field condition.

GRAIN QUALITY:

Brown rice recovery (%)	:	78.6 Fair
Milling recovery (%)	:	69.8 Grade 1
Head rice recovery (%)	:	55.3 Grade 1
Amylose content (%)	:	18.0 Low
Chalky grains (%)	:	8.8 Grade 2

* With at least 3 t/ha yield better than PSB Rc50 which recorded an average yield advantage of 12.5% during the dry season; 29.3% in the wet season and23.7% across season
* Early maturing at 111days
* High milling and headrice recovery and fair brown rice with long and slender grains.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc290 (Salinas 6)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: PR28377-AC97-54

Parents : PSB Rc50/PSB Rc10

YIELD (kg/ha)	:	4159 dry season
	:	2885 wet season
MATURITY (DAS)	:	113 dry season
	:	113 wet season
PLANT HEIGHT (cm)	:	80 dry season
	:	82 wet season
PRODUCTIVE TILLERS (no/hill)	:	15 dry season
	:	14 wet season

REACTION TO PESTS AND DISEASES:

* Wide spectrum of resistance to blast, bacterial leaf blight, stem borer, brown planthopper and green leafhopper.

GRAIN QUALITY:

Brown rice recovery (%)	:	78.7 Fair
Milling recovery (%)	:	69.3 Grade 1
Head rice recovery (%)	:	53.0 Grade 1
Amylose content (%)	:	19.1 L
Chalky grains (%)	:	9.7 Grade 2

* Average yield of 4.2 t/ha during dry season; 2.9 t/ha in wet season; and 3.6 t/ha across season
* Early maturing at 113 days
* High milling and headrice recovery with fair brown rice.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc276 (Sahod Ulan 4)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number : C8108-B-10-2-2-1

Parents : C5649-2B-5-2-2-1/
IR74627-30-1-1-8

YIELD (kg/ha)	:	2630
MATURITY (DAS)	:	119
PLANT HEIGHT (cm)	:	100
PRODUCTIVE TILLERS (no/hill)	:	81

REACTION TO PESTS AND DISEASES:

Resistant to intermediate reaction to Whiteheads (YSB) and moderately resistant to green leafhopper across season.

GRAIN QUALITY:

Brown rice recovery (%)	:	78.0 Fair
Milling recovery (%)	:	69.0 Grade 1
Head rice recovery (%)	:	53.9 Grade 1
Amylose content (%)	:	26.0 High
Chalky grains (%)	:	16.3 aa

* High yield advantage of 28.5% over the check variety, PSB Rc14
* Medium maturing at 119 days
* Long and slender grain with high milling and head rice recovery.

BREEDER: **University of the Philippines Los Baños**
Los Baños, College, Laguna

NSIC 2011 Rc278 (Sahod Ulan 5)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: IR81023-B-116-1-2

Parents : IR77298-5-6/CT6510-24-1-2

YIELD (kg/ha) : 2421

MATURITY (DAS) : 110

PLANT HEIGHT (cm) : 122

PRODUCTIVE TILLERS (no/hill) : 86

REACTION TO PESTS AND DISEASES:

Resistant to moderately resistant to Whiteheads (WSB&YSB) and moderately resistant to green leafhopper.

GRAIN QUALITY:

Brown rice recovery (%)	:	76.5 Fair
Milling recovery (%)	:	68.5 Grade 1
Head rice recovery (%)	:	40.0 Grade 2
Amylose content (%)	:	20.4 Intermediate
Chalky grains (%)	:	7.3 Grade 2

* Average yield of 2.4 t/ha and yield advantage of 4.5% over the check variety, PSB Rc14.
* Early maturing at 110 days.
* Intermediate amylose content, long and intermediate grain with a high milling recovery.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2009 Rc190 (Salinas 5)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: PR25997-B-B-B

Parents : IR9764-45-2-2/IR81491-AC-5-1

YIELD (kg/ha) : 3332 dry season
: 2405 wet season

MATURITY (DAS) : 119 dry season
: 121 wet season

PLANT HEIGHT (cm) : 83 dry season
: 89 wet season

PRODUCTIVE TILLERS (no/hill): 14 dry season
: 14 wet season

REACTION TO PESTS AND DISEASES:

* Intermediate reactions to blast, blb, shb, GLH and YSB.

GRAIN QUALITY:

Brown rice recovery (%)	:	78.4 Fair
Milling recovery (%)	:	69.5 Grade 1
Head rice recovery (%)	:	53.5 Grade 1
Amylose content (%)	:	18.2 Low
Chalky grains (%)	:	6.8 Grade 2

* Very good headrice and milling recovery.
* Long and slender grain.
* High percentage acceptability both in cooked and raw forms.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2009 Rc188 (Salinas 4)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: PR28524-AC97-55

Parents : TCCP266-1-3B-10-2-1/PSB Rc10

YIELD (kg/ha) : 3295 dry season
: 3184 wet season

MATURITY (DAS) : 114 dry season
: 113 wet season

PLANT HEIGHT (cm) : 82 dry season
: 81 wet season

PRODUCTIVE TILLERS (no/hill) : 14 dry season
: 15 wet season

REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, whiteheads and yellow stem-borer

GRAIN QUALITY:

Brown rice recovery (%)	:	79.4 Fair
Milling recovery (%)	:	70.8 Pr
Head rice recovery (%)	:	56.9 Grade 1
Amylose content (%)	:	18.6 Low
Chalky grains (%)	:	9.0 Grade 2

* Early maturing variety.
* Premium milling recovery, very good headrice.
* Percent acceptability comparable to the check variety.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc280 (Sahod Ulan 6)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: IR72667-16-1-B-B-3

Parents : WS91 (ACC0797)/ABHAYA//
IR43070-UBN-511-2-1-1-1

YIELD (kg/ha) : 2516

MATURITY (DAS) : 123

PLANT HEIGHT (cm) : 104

PRODUCTIVE TILLERS (no/hill) : 81

REACTION TO PESTS AND DISEASES:

Resistant to intermediate to Whiteheads (WSB&YSB) and moderately resistant to intermediate to green leafhopper.

GRAIN QUALITY:

Brown rice recovery (%)	:	75.7 Fair
Milling recovery (%)	:	65.4 Grade 1
Head rice recovery (%)	:	38.3 Grade 3
Amylose content (%)	:	22.3 Intermediate
Chalky grains (%)	:	8.0 Grade 2

* With positive yield advantage of 8.6% over the check variety, PSB Rc14.
* Grade 1 milling recovery.
* Intermediate amylose content with extra long and slender grain.
* Slightly aromatic in the raw form.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc282 (Sahod Ulan 7)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: C8231-B-1-1

Parents : C5649-2B-5-2-2-1/C6518-2B-5-1-1

YIELD (kg/ha) : 2878

MATURITY (DAS) : 120

PLANT HEIGHT (cm) : 115

PRODUCTIVE TILLERS (no/hill) : 68

REACTION TO PESTS AND DISEASES:

Resistant to moderately resistant to Whiteheads (WSB & YSB).

GRAIN QUALITY:

Brown rice recovery (%)	:	77.4 Fair
Milling recovery (%)	:	69.3 Grade 1
Head rice recovery (%)	:	53.8 Grade 1
Amylose content (%)	:	27.2 High
Chalky grains (%)	:	11.8 Grade 3

* Yield advantage of 8.6% over the check variety, PSB Rc14
* Resistant to intermediate reaction to sheath blight, Whiteheads (WSB & YSB
* Very good milling and head rice recovery, long and slender grain.

BREEDER: **University of the Philippines Los Baños**
Los Baños, College, Laguna

NSIC 2009 Rc186 (Salinas 3)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number : PR30244-AC-V2

Parents : Wagwag (Anther Culture)

YIELD (kg/ha) : 3380 dry season
: 2927 wet season

MATURITY (DAS) : 117 dry season
: 113 wet season

PLANT HEIGHT (cm) : 79 dry season
: 88 wet season

PRODUCTIVE TILLERS (no/hill) : 15 dry season
: 15 wet season

REACTION TO PESTS AND DISEASES:

* Moderately susceptible to whiteheads, green leafhopper and brown planthopper
* Susceptible to blast, bacterial leaf blight and sheath blight.

GRAIN QUALITY:

Brown rice recovery (%)	:	78.1 Fair
Milling recovery (%)	:	69.0 Grade 1
Head rice recovery (%)	:	53.0 Grade 1
Amylose content (%)	:	21.1 Low
Chalky grains (%)	:	13.5 Grade 3

* Intermediate amylase content.
* Good milling and Headrice recovery.
* Long and slender grain.
* Acceptable both in cooked and raw forms.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2009 Rc184 (Salinas 2)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: PR26016-16-B-B-B

Parents : IR8234-07-9-2-4-0-2/GIZA 171

YIELD (kg/ha)	:	3554 dry season
	:	1684 wet season
MATURITY (DAS)	:	119 dry season
	:	121 wet season
PLANT HEIGHT (cm)	:	87 dry season
	:	87 wet season
PRODUCTIVE TILLERS:		13 dry season
(no/hill)	:	14 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to blast and whiteheads
* Moderately susceptible to green and brown planthoppers

GRAIN QUALITY:

Brown rice recovery (%)	:	76.4 Fair
Milling recovery (%)	:	67.6 Grade 1
Head rice recovery (%)	:	41.7 Grade 2
Amylose content (%)	:	19.1 Low
Protein (%)	:	7.4
Chalky grains (%)	:	10.4 Grade 4

* Good milling recovery.
* Preferred both in cooked and raw forms.
* High percentage acceptability both in cooked and raw forms.

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2011 Rc284 (Sahod Ulan 8)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: IR74963-262-5-1-3-3

Parents : IR43/IR65564-22-2-3//IR68

YIELD (kg/ha)	:	3733
MATURITY (DAS)	:	114
PLANT HEIGHT (cm)	:	98
PRODUCTIVE TILLERS (no/hill)	:	91

REACTION TO PESTS AND DISEASES:

* Resistant to moderately resistant to Whiteheads (WSB&YSB) and moderately resistant to green leafhopper.
* Resistant to intermediate reaction to blight.

GRAIN QUALITY:

Brown rice recovery (%)	:	77.9 Fair
Milling recovery (%)	:	68.2 Grade 1
Head rice recovery (%)	:	41.2 Grade 2
Amylose content (%)	:	22.2 Intermediate
Chalky grains (%)	:	7.2 Grade 2

* Average yield of 3,733 kg/ha and yield advantage of 10.2% over the check variety, PSB Rc14
* Early maturing at 114 days
* Intermediate amylose content with extra long and slender grain
* High milling recovery with adaptable headrice and physical attributes.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc286 (Sahod Ulan 9)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: C6392-2B-3-3-1-2

Parents : TOX4004-36-2-3-2/Kasturi1 (MS4)

YIELD (kg/ha) : 3494

MATURITY (DAS) : 115

PLANT HEIGHT (cm) : 94

PRODUCTIVE TILLERS (no/hill) : 97

REACTION TO PESTS AND DISEASES:

* Moderate to intermediate resistance to major pests WSB, YSB, BPH, and GLH.
* Better blast resistance than PSB Rc14.

GRAIN QUALITY:

Brown rice recovery (%)	:	79.5 Fair
Milling recovery (%)	:	70.9 Pr
Head rice recovery (%)	:	48.9 Grade 1
Amylose content (%)	:	26.9 High
Chalky grains (%)	:	18.7

* Average yield of 3.5 t/ha and yield advantage of 13.0% over the check variety, PSB Rc14
* Early maturing at 115 days
* Very high percentage acceptability in the raw form as compared to IR64 and PSB Rc14.

BREEDER: **University of the Philippines Los Baños**
Los Baños, College, Laguna

NSIC 2009 Rc182 (Salinas 1)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: IR63307-4B-4-3

Parents: IR51511-B-B-34-B/TCCP266-2-49-B-B-3

YIELD (kg/ha) : 2951 dry season
: 1861 wet season

MATURITY (DAS) : 114 dry season
: 110 wet season

PLANT HEIGHT (cm) : 87 dry season
: 84 wet season

PRODUCTIVE TILLERS (no/hill): 13 dry season
: 13 wet season

REACTION TO PESTS AND DISEASES:

* Susceptible to blast and sheath blight and intermediate reaction to bacterial leaf blight.
* Susceptible rice tungro virus.
* Moderately resistant to whiteheads and moderately susceptible to brown planthopper.

GRAIN QUALITY:

Brown rice recovery (%)	:	77.4 Fair
Milling recovery (%)	:	69.0 Grade 1
Head rice recovery (%)	:	34.4 Grade 3
Amylose content (%)	:	21.5 Low
Chalky grains (%)	:	28.7 aa

* Yield advantage of 71.9% over the check variety, PSB Rc50 during the WS and 29.5% during the DS.
* Moderately resistant to stemborer (WH)
* Intermediate amylase content.
* Good milling recovery.

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2011 Rc288 (Sahod Ulan 10)
Rainfed Lowland Dry Seeded

BACKGROUND

Pedigree Number: PR25769-B-9-1

Parents : M9-33B/IR53236-218-3

YIELD (kg/ha)	:	3562
MATURITY (DAS)	:	118
PLANT HEIGHT (cm)	:	127
PRODUCTIVE TILLERS (no/hill)	:	60

REACTION TO PESTS AND DISEASES:

Wide spectrum of resistance to blast, bacterial leaf blight and stem borer across the test sites.

GRAIN QUALITY:

Brown rice recovery (%)	:	77.7 Fair
Milling recovery (%)	:	69.7 Grade 1
Head rice recovery (%)	:	56.9 Grade 1
Amylose content (%)	:	19.67 Low
Chalky grains (%)	:	7.8 Grade 2

* Average yield of 3.0 t/ha and yield advantage of 5.4% over UPL R17
* Early maturing at 118 days
* High milling and headrice recovery

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

* High yield both DSR and TPR
* Early maturing
* Good eating quality
* High milling and head rice recovery
* Versatile owing to adaptability to local problems like salinity and low solar radiation

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

PSB 1995 Rc48 (Hagonoy)
Saline-Prone Irrigated Lowland

BACKGROUND
Line Designation: IR9884-54-3-IE-PI
Parents: NONA BOKRA/IR2070-414-3-5-6//IR34

YIELD (kg/ha) : 2744
MATURITY (DAS) : 126
PLANT HEIGHT (cm) : 88
PRODUCTIVE TILLERS (no/hill): 19

REACTION TO PESTS AND DISEASES:

* Resistant to stemborer
* Intermediate reaction to bacterial leaf blight, brown planthopper 1 & 2 and green leafhopper

GRAIN QUALITY:

Milling recovery (%)	:	64.7 Grade 3
Head rice recovery (%)	:	42.5 Grade 2
Amylose content (%)	:	25.8 High
Gel consistency (mm)	:	48.4 Medium

PHYSICOCHEMICAL STRESS EVALUATION:

Salinity score : 3.8 (SES Scale)
Submergence : 4.9 (75.94% survival)
Phosphorous Deficiency: 4.3 (60.79% relative tillering ability)

* Tolerant to moderate salinity levels
* Moderately resistant to saline soil-related stresses such as submergence and phosphorous deficiency
* Acceptable yield
* Medium and slender grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

D. Productive Tillers

TPR		
Dry season	:	16
Wet season	:	14
Across season	:	14
DWSR		
Dry season	:	124
Wet season	:	96
Across season	:	105

E. Reactions to Diseases

Blast	:	6.59 S
Bacterial leaf blight	:	4.59 I
Sheath blight	:	6.55 S
Rice Tungro Virus		
Modified	:	71.26 S
Induced	:	69.88 S
Insect Pests		
Whiteheads (SB)	:	8.92 MR
Green leafhopper	:	8.00 MS
Yellow stemborer	:	5.00 I
Brown Planthopper 1	:	9.00 S
Brown Planthopper 2	:	6.00 I
Brown Planthopper 3	:	9.00 S

F. Grain Quality

Physico-chemical characteristics		
% Amylose	:	19.1 L
% Protein	:	9.1
G.T. Score	:	6.9 L
Milling Potentials		
% Hull	:	23.1 F
% Brown Rice	:	76.9 F
% Milling Recovery	:	65.5 G1
% Head Rice	:	47.7 G2
Physical Attributes		
% Chalky Grains	:	4.6 G1
% Immature Grains	:	1.5 Pr
Grain length (L in mm)	:	6.7 L
Grain shape (L/W)	:	3.2 S

NSIC 2006 Rc146 (PJ7)

Saline Prone and Low Solar Radiation

BACKGROUND

Pedigree Number	:	PR26703-3B-PJ7
Sponsoring Agency	:	PhilRice
Group/Researchers	:	RVIG – PhilRice (PhilRice JICA Collaboration)

Varietal Characteristics

A. Yield (kg/ha)

Replicated Trials

Phase1

TPR

Dry season	:	5300
Wet season	:	4182
Across season	:	4581

DWSR

Dry season	:	5220
Wet season	:	4466
Across season	:	54736

B. Maturity (DAS)

TPR

Dry season	:	112
Wet season	:	109
Across season	:	110

DWSR

Dry season	:	107
Wet season	:	103
Across season	:	104

C. Plant Height (cm)

TPR

Dry season	:	90
Wet season	:	107
Across season	:	101

DWSR

Dry season	:	91
Wet season	:	103
Across season	:	99

PSB 1995 Rc50 (Bicol)

Saline-Prone Irrigated Lowland

BACKGROUND

Line Designation: IR51500-AC11-1

Parents: IR5657-33-2/IR4630-22-2-5-1-3

YIELD (kg/ha)	:	2969
MATURITY (DAS)	:	118
PLANT HEIGHT (cm)	:	90
PRODUCTIVE TILLERS (no./hill)	:	18

REACTION TO PESTS AND DISEASES:

* Resistant to bacterial leaf blight, stemborer and brown planthopper 1
* Intermediate reaction to brown planthopper 2 & 3
* Susceptible to blast and tungro virus

GRAIN QUALITY:

Milling recovery (%)	:	64.0 Grade 3
Head rice recovery (%)	:	45.3 Grade 2
Amylose content (%)	:	24.7 Intermediate
Gel consistency (mm)	:	75 Soft

PHYSICOCHEMICAL STRESS EVALUATION:

Salinity score	:	3.5 (SES Scale)

* Tolerant to moderate salinity levels
* Acceptable yield
* An anther culture-derived variety
* Long and slender grains

BREDDER: **International Rice Research Institute**
Los Baños, College, Laguna

PSB 2000 Rc84 (Sipocot)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: IR65185-3B-8-3-2

Parents: CSR10/TCCP266-B-B-B-10-3-1

YIELD (kg/ha)	:	1967
MATURITY (DAS)	:	111
PLANT HEIGHT (cm)	:	77
PRODUCTIVE TILLERS (no/hill)	:	19

REACTION TO PESTS AND DISEASES:

* Moderately resistant to brown planthopper
* Intermediate reaction to bacterial leaf blight, modified rice tungro virus and whiteheads
* Moderately susceptible to green leafhopper and susceptible to blast, sheath blight and induced rice tungro virus

GRAIN QUALITY:

Hull (%)	:	24.8 Fair
Brown rice recovery (%)	:	75.2 Fair
Milling recovery (%)	:	65.9 Grade 1
Head rice recovery (%)	:	38.8 Grade 1
Amylose content (%)	:	24.4 Intermediate
Protein (%)	:	9.2
Gel consistency (mm)	:	33.25 Hard
Chalky grains (%)	:	6.4 Grade 2

* Early maturing
* Good grain quality
* Highly acceptable both in cooked and raw forms
* Intermediate salinity tolerance
* Medium and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2001 Rc108 (Anahawan)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: PR26008-8-4B

Parents: IR51500-AC9-8/KOHY//WANG2-B-2-3

YIELD (kg/ha)	:	3315 dry season
	:	2584 wet season
MATURITY (DAS)	:	128 dry season
	:	127 wet season
PLANT HEIGHT (cm)	:	78 dry season
	:	92 wet season
PRODUCTIVE TILLERS (no/hill)	:	15 dry season
	:	16 wet season

REACTION TO PESTS AND DISEASES:

* Moderately resistant to whiteheads
* Intermediate reaction to blast and sheath blight
* Moderately susceptible to green leafhopper and brown planthopper 2 and susceptible to sheath blight, rice tungro virus induced and modified

GRAIN QUALITY:

Hull (%)	:	23.2 Fair
Brown rice recovery (%)	:	76.8 Fair
Milling recovery (%)	:	67.4 Grade 1
Head rice recovery (%)	:	48.9 Grade 1
Amylose content (%)	:	18.7 Low
Protein (%)	:	6.8
Chalky grains (%)	:	6.2 Grade 2

* Fair yield especially during dry season
* Acceptable grain quality
* Medium intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija

NSIC 2001 Rc106 (Sumilao)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: IR61920-3B-22-1-1

Parents : IR32429-47-3-2/WAGWAG

YIELD (kg/ha) : 3586 dry season
: 2315 wet season

MATURITY (DAS) : 119 dry season
: 115 wet season

PLANT HEIGHT (cm) : 74 dry season
: 80 wet season

PRODUCTIVE TILLERS (no/hill): 14 dry season
: 15 wet season

REACTION TO PESTS AND DISEASES

* Resistant to whiteheads
* Intermediate reaction to blast and sheath blight

GRAIN QUALITY:

Hull (%)	:	23.0 Fair
Brown rice recovery (%)	:	77.0 Fair
Milling recovery (%)	:	68.0 Grade 1
Head rice recovery (%)	:	44.5 Grade 2
Amylose content (%)	:	24.7 Intermediate
Protein (%)	:	10.3
Gel consistency (mm)	:	29.0 High
Chalky grains (%)	:	8.8 Grade 2

* Suitable for saline-prone areas with moderate salinity
* Acceptable yield
* Good grain quality
* Medium and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

PSB 2000 Rc86 (Matnog)
Saline Prone Irrigated Lowland

BACKGROUND

Pedigree Number: IR65195-3B-8-2-3

Parents: IR10198-66-2/TCCP66-B-B-B-10-3-1

YIELD (kg/ha) : 2117
MATURITY (DAS) : 113
PLANT HEIGHT (cm) : 82
PRODUCTIVE TILLERS (no/hill) : 16

REACTION TO PESTS AND DISEASES:

* Moderately resistant to brown planthopper.
* Intermediate reaction to bacterial leaf blight and modified rice tungro virus.
* Moderately susceptible to whiteheads, green leafhopper and susceptible to blast, sheath blight and induced rice tungro virus .

GRAIN QUALITY:

Hull (%)	:	21.9 Fair
Brown rice recovery (%)	:	78.1 Fair
Milling recovery (%)	:	70.3 Premium
Head rice recovery (%)	:	46.0 Grade 2
Amylose content (%)	:	25.4 High
Protein (%)	:	8.4
Gel consistency (mm)	:	39.5 Hard
Chalky grains (%)	:	4.6 Grade 1

* Good grain quality
* Moderate salinity tolerance
* Highly acceptable in raw forms
* Short and intermediate grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

PSB 2000 Rc88 (Naga)
Saline Prone Irrigated Lowland

BACKGROUND
Pedigree Number: IR52713-2B-8-2B-1-2
Parents: IR64/IR4630-22-2-5-1-3//IR9764-45-2-2

YIELD (kg/ha) : 2183
MATURITY (DAS) : 116
PLANT HEIGHT (cm) : 88
PRODUCTIVE TILLERS (no/hill) : 17
REACTION TO PESTS AND DISEASES:

* Intermediate reaction to blast, deadhearts, whiteheads, and brown planthopper
* Susceptible to bacterial leaf blight, sheath blight and modified and induced tungro virus

GRAIN QUALITY:

Hull (%)	:	23.2 Fair
Brown rice recovery (%)	:	76.8 Fair
Milling recovery (%)	:	68.3 Grade 1
Head rice recovery (%)	:	49.1 Grade 1
Amylose content (%)	:	22.0 Intermediate
Gel consistency (mm)	:	47.0 Medium
Chalky grains (%)	:	1.0 Premium

* Early maturing
* Excellent eating quality
* Moderate salinity tolerance
* Medium grains

BREEDER: **International Rice Research Institute**
Los Baños, College, Laguna

NSIC 2000 Rc90 (Buguey)
Saline –Prone Irrigated Lowland

BACKGROUND
Pedigree Number: PR25989-2-4B
Parents: IR51491-AC5-1/80-115-76-64

YIELD (kg/ha) : 3635 dry season
: 3166 wet season
MATURITY (DAS) : 121 dry season
: 127 wet season
PLANT HEIGHT (cm) : 75 dry season
: 96 wet season
PRODUCTIVE TILLERS (no/hill) : 15 dry season
: 16 wet season

REACTION TO PESTS AND DISEASES:

* Resistant to whiteheads
* Intermediate reaction to blast and sheath blight

GRAIN QUALITY:

Hull (%)	:	21.9 Fair
Brown rice recovery (%)	:	78.1 Fair
Milling recovery (%)	:	68.9 Grade 1
Head rice recovery (%)	:	56.4 Grade 1
Amylose content (%)	:	24.8 Intermediate
Protein (%)	:	10
Gel consistency (mm)	:	26.5 High
Chalky grains (%)	:	4.7 Grade 1

* Early maturing
* Intermediate salinity tolerance
* Good grain quality
* Medium intermediate grains

BREEDER: **Philippine Rice Research Institute**
Maligaya, Science City of Muñoz, Nueva Ecija