



HRDC General Report

HRDC Annual Meeting

31 March 2016

Charisse Grace Piadozo-Arlegui

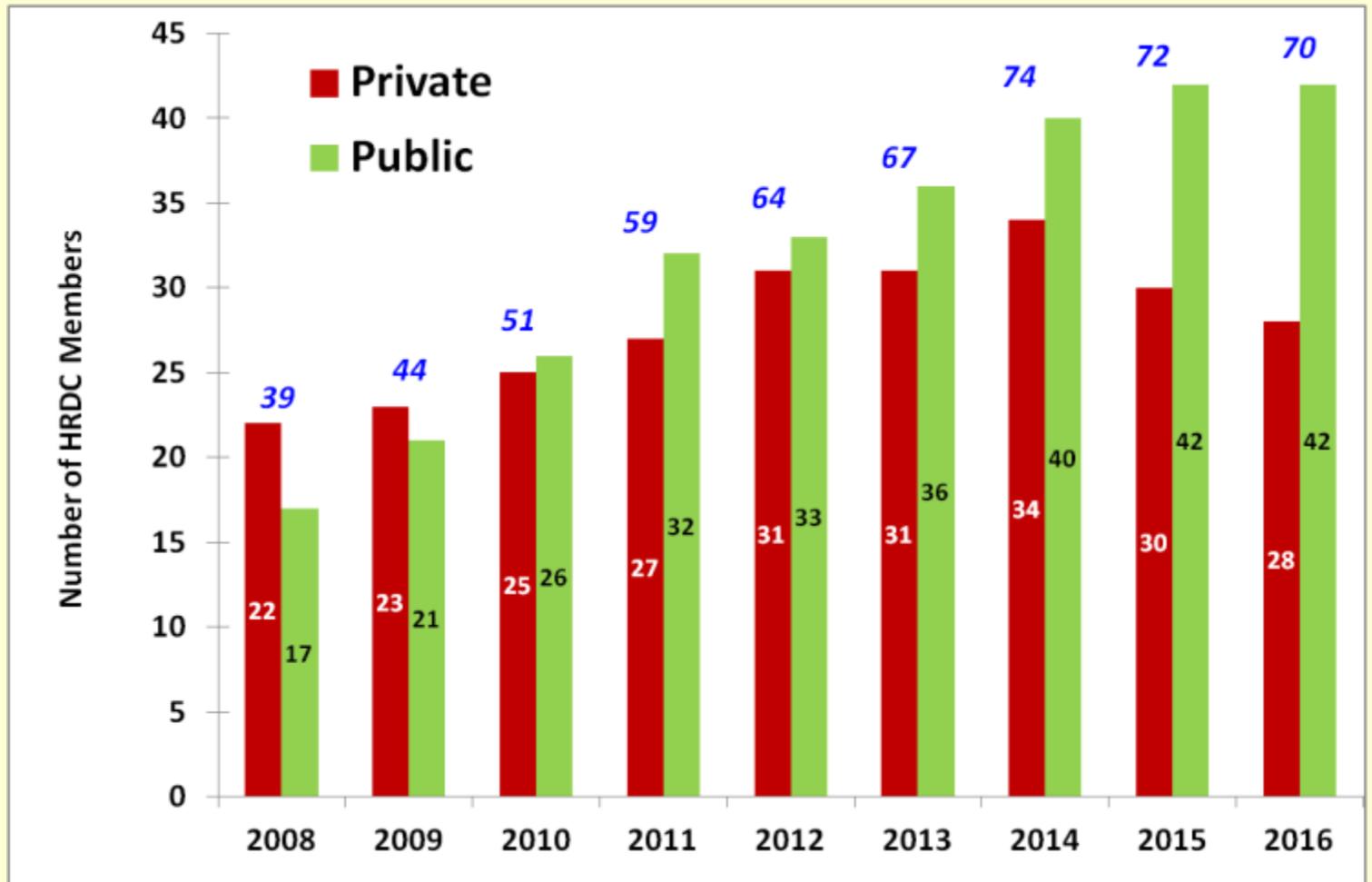
HRDC Assistant Coordinator
Assistant Manager

- √ HRDC Members 2008-2016
- √ Annual meeting & Selection
- √ Training on Hybrid Rice Breeding & Seed Production
- √ Multi-location Replicated Yield Trial (MRYT)
- √ IRRI Hybrid Rice Trial in Hyderabad Hub and member's site
- √ IRRI Hybrids released in the Philippines
- √ Announcements



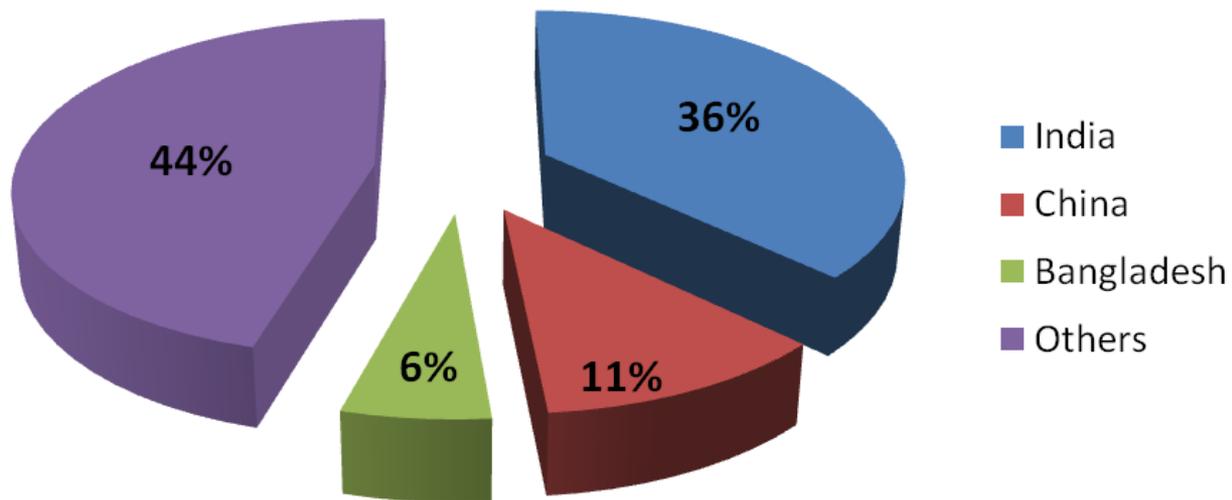
HRDC Members

as of March 30, 2016

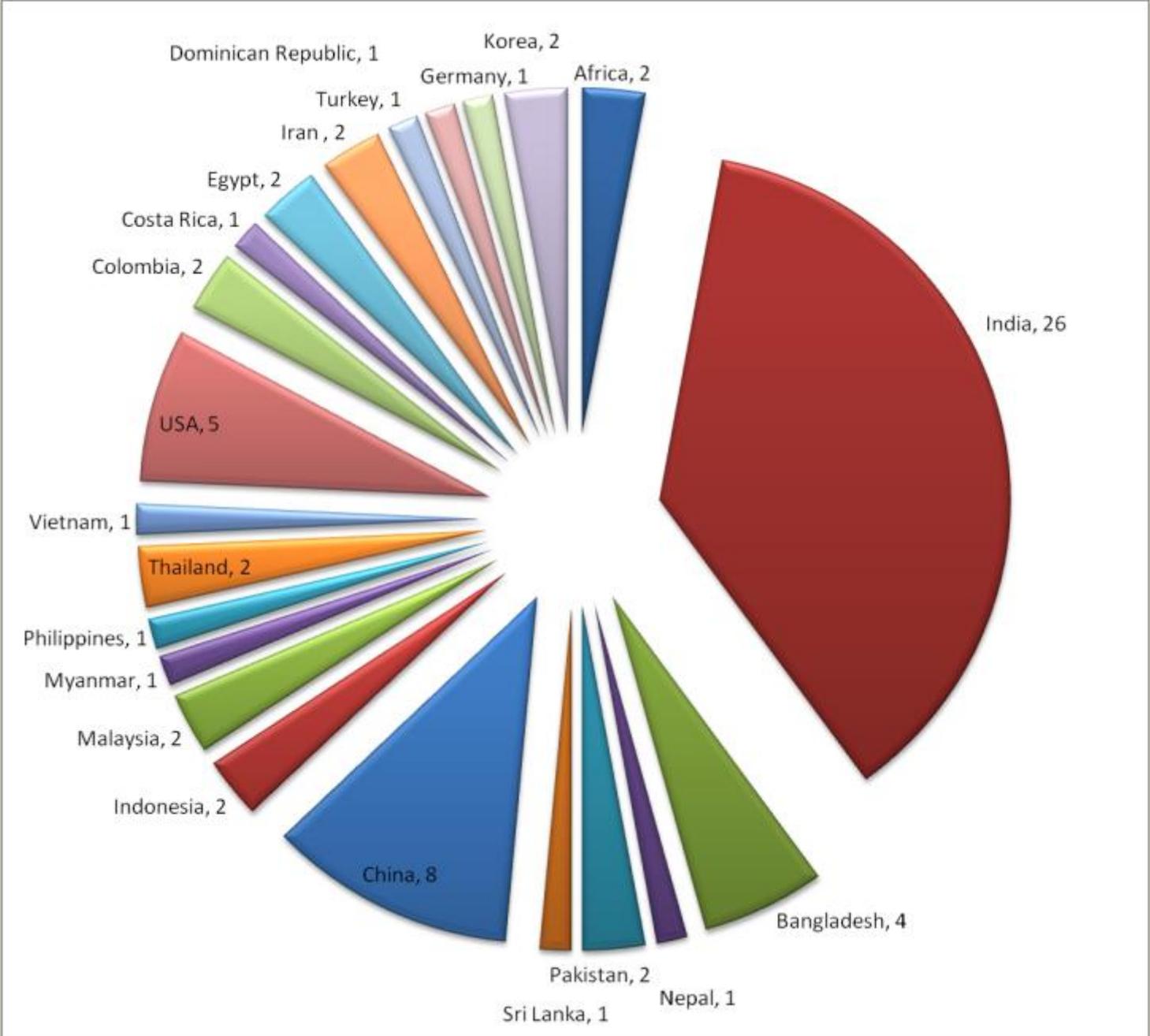




HRDC Members in Major Countries



Country	Private A	Private B	Public	Total
India	3	17	6	26
China			8	8
Bangladesh	1	1	2	4
Others	1	5	26	32





New HRDC Members 2015-2016 (4)

Category	Organization	Country	Date
B	Supreme Seed Company Limited	Bangladesh	Jan 2015
Public	Punjab Agricultural University, Ludhiana	India	Feb 2015
Public	Genome Breeding Institute for Plant Germplasm, Kongju National University	Korea	March 2015
B	Kaveri Seed Company Ltd.	India	Feb 2016

HRDC Annual Meeting

Membership Category	2013	2014	2015	2016
Private A	100%	100%	100%	100%
Private B	72%	81%	79%	83%
Public	38%	34%	38%	38%
Total	60%	57%	58%	57%
<i># of Participants</i>	<i>82</i>	<i>74</i>	<i>90</i>	<i>81</i>





Selection

March 25 and 27, 2015





Field Tour



IRRI Hybrid Rice Yield Trial



IRRI Hybrid CMS demonstration plot





Field Tour



IRRI GRiSP Phenotyping Network



IRRI HRDC Multi-location Replicated Yield Trial (MRYT)





HRDC-JAAS Training on Hybrid Rice Breeding & Seed Production

- ✓ In collaboration with Jiangxi Academy of Agricultural Sciences (JAAS)
- ✓ 2 weeks training (July 5-19)
- ✓ Nanchang, China

Year	# of participants	Private	Public	IRRI
2010	10	8	1	1
2011	14	13	-	1
2012	8	8	-	-
2013	8	5	2	1
2014	-	-	-	-
2015*	11	9	1	1
Total	51	43	4	4

* incorporate Hybrid Rice Breeding in the training as requested by HRDC members



HRDC-JAAS Training on Hybrid Rice Breeding & Seed Production





HRDC-JAAS Training on Hybrid Rice Breeding & Seed Production

2016 Training (1st two weeks of July)

Training Fee : US\$ 4,500

*Hotel accommodation, food, training materials, field tour, local transportation
EXCEPT air ticket*

minimum # of participants = 10

Deadline: April 10, 2016

Topics:

- Leaf counting
- Basics of Rice Biology
- Hybrid Rice Parent Seed Production
- Hybrid Rice Seed Production
- Hybrid Rice Breeding
- Hybrid Rice Cultivation
- Techniques of Split Planting for heading synchronization
- Disease & pest control in Hybrid rice
- Panicle dissection for PI stage
- Rice male sterility systems & application in hybrid rice
- Organizational structure – hybrid rice breeding & seed production
- Current status of hybrid rice R&D in China
- Application of molecular technology in hybrid rice



Multi-location Replicated Yield Trial (MRYT)

- Assist members in assessing performance of their own hybrids
- Enable members particularly those without multi-national testing capabilities to generate reliable performance data across a set of test locations

Option 1: Provide testing site

- at least 3 years of commitment to provide stable testing environment
- 1 or both seasons depending on your location

Option 2: Nominate own hybrids (*best and latest*)

- seed requirement: 2kg per entry

Membership Category	# of entries for testing
Private A	4
Private B	2
Private Associate	1
Public	1

Option 3: Both



Multi-location Replicated Yield Trial (MRYT)

Year	# of MRYT entries	# of Testing Sites*
2013	46	13
2014	43	12
2015	40	11
2016	39	11

** Bangladesh, India, Vietnam, Indonesia, Philippines*

Nomination of entries and testing site for 2017 MRYT

Deadline: April 10, 2016



IRRI Hybrid Rice Trial in Hyderabad Hub and in member's site

Country	# trial sites
Bangladesh	1
Vietnam	1
Myanmar	1
Philippines	3
India *	18
Total	24

** Trial in Hyderabad Hub started in 2015WS*



IRRI Hybrid Rice Trial in member's site

IRRI Hybrids under **RETA**
(Restricted Evaluation and Testing Agreement
for IRRI-Developed Hybrid Rice)



If the member then decides to use the product tested
for commercial production purpose



Member should negotiate a commercial license
agreement with IRRI (c/o PPE Office)



IRRI Hybrids released in the Philippines for commercial production (1994-2015)

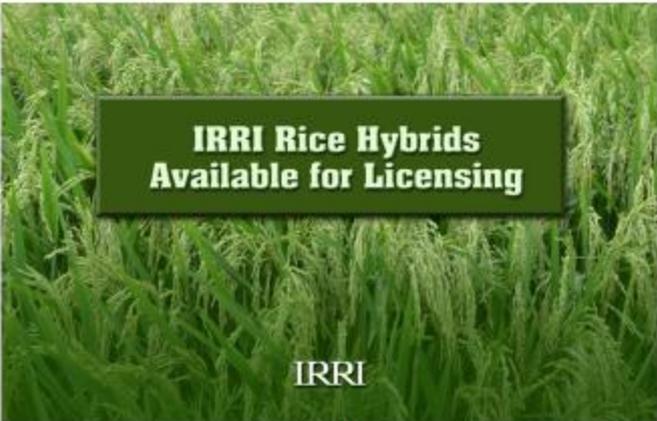
	Hybrid	Commercial Name	IRRI Name	Year Released	IP Ownership	
1	Magat	PSB Rc26H	IR64616H	1994	IRRI & PhilRice	IRRI 107
2	Mestizo 1	PSB Rc72H	IR68284H	1997	IRRI & PhilRice	IRRI 121
3	Mestizo 2	NSIC Rc114H	IR75207H	2002	IRRI & PhilRice	IRRI 137
4	Mestizo 3	NSIC Rc116H	IR75217H	2002	IRRI & PhilRice	IRRI 138
5	Mestizo 7	NSIC Rc136H	IR78386H	2006	IRRI & PhilRice	IRRI 144
6	Mestiso 21	NSIC Rc206H	IR83199H	2009	IRRI & PhilRice	IRRI 153
7	Mestiso 25	NSIC Rc230H	IR82363H	2010	IRRI & PhilRice	IRRI 166
8	Mestiso 26	NSIC Rc232H	IR82372H	2010	IRRI & PhilRice	IRRI 167
9	Mestiso 30	NSIC Rc246H	IR84714H	2011	IRRI & PhilRice	IRRI 158
10	Mestiso 31	NSIC Rc248H	IR80637H	2011	IRRI & PhilRice	IRRI 159
11	Mestiso 32	NSIC Rc250H	IR81949H	2011	IRRI & PhilRice	IRRI 160
12	Mestiso 56	NSIC Rc370H	IR81955H	2014	IRRI & PhilRice	IRRI 182
13	Mestiso 61	NSIC Rc380H	IR81265H	2014	IRRI & PhilRice	IRRI 183
14	Mestiso 68	NSIC 2015 Rc408H	IR82391H	2015	IRRI	IRRI 187

* 9 Hybrids released since HRDC started in 2008

** Since 2013, we pay entries in the NCT as a private organization to receive sole IRRI IP



IRRI Hybrids released in the Philippines for commercial production



2016

Summary of IRRI Rice Hybrids Released or Release-pending in the Philippines (Mestiso)

Name	Mestiso 25	Mestiso 26	Mestiso 30	Mestiso 31	Mestiso 32	Mestiso 56	Mestiso 61	Mestiso 68	IR82386H
Average Yield (kg/ha)	6711	6740	6574	6357	6136	6489	6442	6632	6507
> PSBRC 82 (kg/ha)	548	505	644	425	310	346	658	490	440
Yield Advantage (%)	8.9	8.1	10.9	7.2	5.3	5.6	11.4	8.0	7.2
Data Point	95	95	67	91	69	84	100	108	117
Maturity (d)	112	115	111	111	110	113	110	113	114
Total Milling (%)	67.2	67.8	68.2	67.3	66.9	66.9	69.3	66.3	67.3
Head Rice (%)	48.8	50.5	45.5	49.0	48.5	47.1	54.9	45.7	46.9
Chalkiness (%)	16.3	15.9	9.3	20.9	17.0	15.8	12.1	7.9	16.9
Amylose (%)	24.9	23.9	20.2	23.1	23.9	24.5	21.9	24.5	24.2
Grain Length (mm)	7.00	6.82	6.88	6.88	6.96	6.75	6.92	6.86	6.94
Grain Width (mm)	2.02	1.97	2.12	2.20	2.29	2.26	1.98	1.94	2.01
Year Released	2010	2010	2011	2011	2011	2014	2014	2015	Pending
IP	IRRI-PhilRice Joint							IRRI Sole	IRRI-PhilRice

Interested members may contact:

Dr. Remy Bitoun

Head of Public-Private Engagement Office

Email: r.bitoun@irri.org



Changes in the HRDC Guidelines

effective Sept 1, 2015

- Increase in membership fee
- Addition of new membership category
 - Private Associate
- Early generation breeding lines (Selections)
 - \$100 per line



Announcement

7th International Hybrid Rice Symposium

Oct. 11-13, 2016

Bali, Indonesia



Announcement

HRDC website

<http://hrdc.irri.org/>

for update and migration



Announcement

- MRYT entries for 2015 and 2016
 - approach Cha to get your hybrid code
- Response to the HRDC 2016 Proposed Activities
 - Deadline: April 10, 2016**
 - 1. Nomination of 2017 MRYT Entries & Trial Site
 - 2. Interested participants to the HRDC-JAAS Training in China (July 2016)
 - 3. Scientific research or study
- Selection
 - submit import permit + summary sheet



Thank you!