

# THE 4<sup>th</sup> MULTI-ENVIRONMENT TESTING FOR IRRIGATED LOWLAND RICE - STAGE 1 WET SEASON (MET1-IR, 2012 WS)

## Introduction

IRRI breeding programs generate fixed and stable lines each season that are identified from pedigree nurseries as well as observational and replicated yield trials. Eventually, elite lines are advanced to multi-environment testing (MET) conducted via breeding networks. These networks, however, presently have limited geographical coverage and face challenges in terms of germplasm movement. Moreover, the materials tested through these networks are generally in the advanced stage of varietal development. An exhaustive MET system for early generation breeding products is so far lacking at IRRI and in the global rice breeding community. For this reason, a new MET system is being established at IRRI beginning in 2011 under the Global Rice Science Partnership (GRiSP), to be piloted for irrigated lowland rice.

## Goal

- To establish a systematic, sequential, multistage, and multi-environment testing (MET) system for elite breeding lines, managed through one entity, in order to improve overall breeding efficiency.

## Objectives

- To identify elite breeding lines with high and stable yields and wide adaptation across a target population of environments that can be the future mega-varieties;
- To be able to select superior breeding materials adapted to one or more specific environment(s) and agro-ecologies;
- To develop and deploy varieties and breeding products to specific market segments;
- To exploit genotype, environment, and genotype x environment (G X E) interaction contributions to varietal performance in releasing breeding products to one or more target environments;
- To generate earlier feedback to breeders on trait performance and identify trait packages needed for molecular breeding;
- To improve partnerships with public, NGO, and private sectors who may have roles to play at certain testing/variety development stages. .

## Trial Composition

The MET1-IR trial is the first stage of testing for irrigated breeding lines from IRRI and collaborating NARES institution under the overall MET concept. For 2012 dry season, the trial will consist of 600 test entries and 5 checks. The test entries will mostly include breeding lines developed by the various breeding programs (both hybrid and inbred) of IRRI and PhilRice. The designation, source and other information of each entry are provided in Table 1.

The check varieties and their corresponding entry numbers are as follows:

Designation	Classification	MET No.	Entry No.		
			Border	Module 1	Module 2
PSB Rc10	Very early	MT4901	901	396	196
PSB Rc82	Early	MT4902	902	397	197
NSIC RC222	Medium	MT4903	903	398	198
PSB Rc18	Late	MT4904	904	399	199
NSIC Rc124H (MESTIZO 4)	Late (Hybrid)	MT5432	905	400	200

### Criteria for Selection of Entries

To fill the 600 entries needed for MET Stage 1, top 50 percent (300) of good performing entries from the previous season would be retained in this trial while the other half (300) would come from nominations from breeding groups (100 from Irrigated breeding group, 100 from 10 other breeding groups at IRRI and 100 from PhilRice).

### Flow of Materials Across Seasons

The table below shows the flow of retaining, replacing and removing seeds across seasons from 2011 to 2015:

MET 1	2011		2012		2013		2014		2015	
Classification of Seeds	DS	WS	DS	WS	DS	WS	DS	WS	DS	WS
New	900		300	300	300	300	300	300	300	300
Retained		900	300	300	300	300	300	300	300	300
Dropped			150	230	230	230	230	230	230	230
Promoted to MET2			150	70	70	70	70	70	70	70

### The Experimental Site

An experimental field uniform in soil texture, depth, and fertility should be chosen for the MET1-IR trial. It should not have been used previously for fertilizer experiments. It should also have adequate irrigation and drainage facilities. The area covers 1 hectare of land per site. It is suggested that the same area be utilized for the MET every season.

### Experimental Design

The trial will be conducted using a **Row-Column Design with two replications**. This design is used to consider possible field variation. There are two modules, based on the flowering time of entries - Module 1 for very early/early flowering and, Module 2 for medium/late flowering, as follows:

Flowering	Classification
90 and below	Very early/Early
Above 90	Medium/Late

For each replicate, module 1 has 55 rows and 8 columns while module 2 has 30 rows and 8 columns.

**\*This fieldbook contains the plot randomization, field plan and data sheets for the MET1-IR 2012 for wet season.**

For each module, the test entries are randomly assigned plot numbers. Within each module, the 2 replicates have different randomizations. All five checks are randomly assigned in a replicate and are included within each column (checks are systematically arranged on every 11<sup>th</sup> row to help on PACP scoring). Different trial sets have different randomization of entries. The plot randomization of entries is

given in Tables 2 and 3. There are 440 plots for Module 1 while Module 2, has 240 plots. The seed packets are arranged and numbered according to plot numbers.

**The field layout in Figure 1 is provided for your reference. Please do not modify the design or the layout.**

Prepare the field thoroughly at least one month before transplanting following the locally recommended standards. Lay out rows in beds before seeding. The experimental field should be properly labeled. The plot size for each entry is  $5.2\text{m}^2 = 1.0\text{ m} \times 5.2\text{ m}$  (5 rows with 20 cm distance between rows).

There should be no vacant rows between plots (entries). Number the plots consecutively from left to right in all replications. Place the stakes bearing the plot number at the first left-most row of each plot. Label all plots before distributing the seedlings for transplanting.

Apply molluscicide two times, i.e. once at four days before and another immediately after transplanting.

### **Nursery Establishment and Management**

Initially all seeds are placed in an oven for breaking dormancy at  $50^{\circ}\text{C}$  for 5 days. A total of 50 grams of seeds for each entry are seeded, which should allow the planting of 2 replications each with 1 m width (5 rows) x 5.2 m length (26 hills). The seeds could be seeded in either wet or dry beds where they are grown for 21 days. The seedling beds are carefully kept free from insect and diseases and properly irrigated. After seeding, apply uniformly  $1\text{kg}/100\text{m}^2$  of Ammonium Sulfate (21-0-0 S) in the seedbed. If the seedlings show yellowing (N deficiency), apply another  $1\text{kg}/100\text{m}^2$  of Ammonium Sulfate (21-0-0 S) 10-12 days after seeding (DAS).

Prior to pulling, prepare tags to mark seedlings to be transported from seedbed to the field. After 21 days of sowing, each seedling of the entries are pulled out from the seedling beds, bundled, and tied with a G.I. wire marked with pot labels bearing the plot numbers. Distribute seedlings in the field corresponding to the lay-out. Check the entries and the plots for any possible mistake(s) before transplanting the seedlings. Alternatively, apply zinc sulfate in the nursery seedbed, or dip seedlings in 2-4 % zinc oxide suspension before transplanting. (If zinc sulfate is to be applied in the soil as basal, dipping is no longer necessary.)

The seedlings are transplanted into the field in 2-3 seedlings per hill following a spacing of 20 cm x 20cm. Keep some seedlings at the end of the plot near the plot label to replant missing hills.

Shallow water depth should be maintained starting from about 3 days after transplanting that is gradually increased to 3-5 cm until the hard dough stage. Replant missing hills within 7 days after transplanting to obtain a uniform plant population. Care should be taken to uniformly distribute fertilizers and plant protection chemicals.

The recommended fertilizer rates (kg/ha) for different test sites in the Philippines during the 2012 dry season are:

- Recommended at IRRI

Season	Stage	N <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	Zn <sup>4</sup>
DRY	<i>Total</i>	160	30	40	5
	Basal	60	30	40	5
	Mid Tiller	40	-	-	-
	Panicle Initiation	60	-	-	-
WET	<i>Total</i>	90	15	20	5
	Basal	30	15	20	5
	Mid Tiller	30	-	-	-
	Panicle Initiation	30	-	-	-

- For PhilRice – Nueva Ecija and Isabela

Season	Stage	N <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	Zn <sup>4</sup>
DRY	<i>Total</i>	150	60	60	5
	Basal	60	60	60	5
	Mid Tiller	40	-	-	-
	Panicle Initiation	50	-	-	-
WET	<i>Total</i>	90	60	60	5
	Basal	60	60	60	5
	Mid Tiller	15	-	-	-
	Panicle Initiation	15	-	-	-

- For PhilRice – Agusan

Season	Stage	N <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	Zn <sup>4</sup>
DRY	<i>Total</i>	60	40	70	5
	Basal	30	40	70	5
	Mid Tiller	15	-	-	-
	Panicle Initiation	15	-	-	-
WET	<i>Total</i>	60	40	70	5
	Basal	30	40	70	5
	Mid Tiller	15	-	-	-
	Panicle Initiation	15	-	-	-

- For DA – Bohol

Season	Stage	N <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	Zn <sup>4</sup>
DRY	<i>Total</i>	91	24	14	-
	Basal	22	24	14	-
	Mid Tiller	34.5	-	-	-
	Panicle Initiation	34.5	-	-	-
WET	<i>Total</i>	91	24	14	-
	Basal	22	24	14	-
	Mid Tiller	34.5	-	-	-
	Panicle Initiation	34.5	-	-	-

<sup>1</sup> In the form urea

<sup>2</sup> As P<sub>2</sub>O<sub>5</sub> from triple superphosphate or solophos

<sup>3</sup> K<sub>2</sub> from KCl

<sup>4</sup> As ZnSO<sub>4</sub>

For weed control, a pre-emergence herbicide (Sofit EC if available) and molluscicide may be applied uniformly in the experimental field immediately after transplanting following the recommended rate. Maintain a shallow water depth of 2-5 cm for at least 2 weeks after herbicide application. Subsequent hand weeding may be done if needed.

For disease and insect control, the experimental field should be well protected. Choose the appropriate cultural, chemical, and biological control to effectively manage insects and diseases. If available, carbofuran may be applied at around 15 DAT and at PI. Do prophylactic application of Benlate at PI and follow up spray 2 weeks later for sheath blight.

Rouging should be done to remove off-type plants. Rogue the field repeatedly up to the hard dough stage or for as long as off-types can be identified. These off-type plants should be cut at the base.

At harvest, collect all the plants in a plot except the border rows, one on each side of the plot and two border rows, one on both ends of all the plots (The total number of plants harvested from a plot is 3 rows x 24 plants). The harvest from each plot is placed in clean cloth bags. Put the labels, bearing the entry number and plot number inside the bag. A vogue thresher is used to thresh the samples. Clean the thresher well after every sample. Put the label inside the bag after threshing. All threshed samples are dried in a batch dryer at 45°C for 4-5 days. In removing half and empty grains, clean the seed blower before processing each sample to avoid seed mixtures. Transfer clean seeds into labeled paper bags bearing the MET name, MET entry number, plot number, year, and season.

### Data Collection

The general reference for data collection is the Standard Evaluation System for Rice (SES, 1996). The following agronomic data are collected:

#### Trait

#### Explanation

VG: Vegetative Vigor. Note: Several factors may interact, influencing seedling vigor (e.g. tillering ability, plant height, etc.) Use this scale for evaluating genetic material and varieties under stress and non-stress conditions.

1	Extra vigorous (very fast growing; plants at 5-leaf stage have 2 or more tillers in majority of population)
3	Vigorous (fast growing; plants at 4-5 leaf stage have 1-2 tillers in majority of population)
5	Normal (plants at 4-leaf stage)
7	Weak (plants somewhat stunted; 3-4 leaves; thin population; no tiller formation)
9	Very weak (stunted growth; yellowing of leaves)

ZN:

Zinc Deficiency

1	Growth and tillering nearly normal, healthy
2	Growth and tillering nearly normal, basal leaves slightly discolored
3	Stunting slight, tillering decreased, some basal leaves brown or yellow
5	Growth and tillering severely retarded, about half of all leaves brown or yellow
7	Growth and tillering ceases, most leaves brown or yellow
9	Almost all plants dead or dying

FLW (DAS): Days to flowering. Number of days from seeding to 50% flowering. 50% of the main tillers of the whole population (in a plot) are flowering.

MAT: Days to maturity. Number of days from seeding to grain ripening (85% of grains on panicle of the whole plot are mature, i.e. color is yellow).

HT (cm): Plant height. Average of five samplings measured in centimeters from soil surface to the tip of the tallest panicle (awns excluded) and can be measured when 80% are mature. (i.e. HT1=height for sample 1, so on)

TILLER: Tiller Number. Average of five samplings taken from inner hills by counting the number of productive tillers (the same samples used in measuring plant height). (i.e. TILLER1=number of tillers for sample 1, so on)  
Note: 2-3 seedlings per hill.

LDG: Lodging incidence. Percent of plants that lodged with at least 45 degree angle.

PACP: Phenotypic acceptability  
Scale

1	Excellent = very good plant type, dense medium slender grains, no grain discoloration, without awns, no symptoms of diseases or deficiencies, medium to high tillering, comparable or better than the best check.
3	Good = good plant type, medium to high tillering, no symptoms of diseases and deficiencies, no grain discoloration, comparable to the check varieties.
5	Fair = moderate tolerance to diseases and deficiencies, acceptable plant type, medium tillering and good grains.
7	Poor = poor plant type, awns, discolored grains, low tiller number, showing disease and deficiency problem.
9	Unacceptable = very poor plant type, all plants have diseases and showing symptoms of deficiencies.

YLD: Plot yield (g) adjusted to 14% moisture content (excluding borders)  
Adjusted yield = (plot yield/no. of harvested hills)\*standard harvested hills\*MF  
Where MF= (100-MC at harvest)/86

NO\_PLANTS: Number of plants harvested. Standard number of hills to harvest = 72.

MC: Moisture Content (in %). Weigh the samples and test the moisture content for yield data calculation. Note: Upon weighing, measure also MC.

Grain quality characteristics will be measured to selected entries (top 100):

AMY: Amylose content of grain (in %).

GELTEMP: Gelatinization Temperature

GELCON: Gelatinization Consistency after milling.

Scale	(mm)	Gel consistency type
1	80-100	Soft
3	61-80	Soft
5	41-60	Medium
7	36-40	Hard
9	Less than 35	Hard

GRL: Grain length in mm. Distance from the base of the lowermost sterile lemma to the tip (apiculus) of the fertile lemma or palea. In the case of awned varieties, the grain is measured to a point comparable to the tip of the apiculus.

GRS: Grain shape. After harvesting, cleaning and dehulling.

Scale	Shape	Ratio
1	Slender	Over 3.0
3	Medium	2.1 to 3.0
5	Bold	1.1 to 2.0
9	Round	Less than 1.1

CHK: Chalkiness of endosperm. Percent in Kernel Area. Evaluate a representative milled sample for the degree (extent) of chalkiness that will best describe the sample with respect to: a. white belly; b. white center; and c. white back.

Scale

0	None
1	Small (less than 10%)
5	Medium (11% to 20%)
9	Large (more than 20%)

Data are to be recorded in electronic field books. Protocol on data gathering will be provided later.

## Data Reporting

Data can be reported to the INGER Coordinator -- electronic copy (sent as e-mail attachment) or hard copy (via courier).

An excel file for data recording corresponds to a trial-year-set number combination. A set number refers to a specific testing site. Examples of excel files are:

- a. MET1-IR 2012/Set No. 1 - \_\_\_\_\_(PHILRICE Nueva Ecija, Philippines)

The data sheet names and data to be entered in each sheet are summarized below:

Excel file sheet name	Data to be entered
EXPT-OBS (experiment-observation)	Entry data (plant height, days to heading, etc.)
LOCATION and EXPT-DESC (experiment-description)	Test site data, names of cooperators and data
WEATHER-OBS (weather-observation)	Monthly weather data
PEST-OBS (pest-observation)	Pest type, pest name and degree of pressure

In excel data sheets, only rows and columns important to cooperators are shown. Hidden rows and columns are for INGER use only. For example, in sheet LOCATION and EXP-DESC, rows 2-3 and columns c-t are hidden while in sheet WEATHER-OBS, rows 1-13, 19, 33-34 and columns h-i are all hidden.

Please fill-out the excel data sheet and send to IRRI as an email attachment to: [a.galang@cgiar.org](mailto:a.galang@cgiar.org) or [a.tabanao@irri.org](mailto:a.tabanao@irri.org).

You may send printed data sheets of this field book to: INGER

Coordinator  
Plant Breeding, Genetics and Biochemistry Division  
International Rice Research Institute (IRRI) DAPO Box 7777  
Metro Manila, Philippines



**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4001	1	1	IR 10G108	IRRI	Green Super Rice/ J. Ali
MT4002	1	2	HHZ 5-SAL 9-Y 3-Y 1	IRRI	Green Super Rice/ J. Ali
MT4003	1	3	HHZ 5-DT 8-DT 1-Y1	IRRI	Green Super Rice/ J. Ali
MT4005	1	4	HHZ 5-SAL 10-DT 1-DT 1	IRRI	Green Super Rice/ J. Ali
MT4006	1	5	IR 10G101	IRRI	Green Super Rice/ J. Ali
MT4007	1	6	HHZ 1-DT 4-Y1	IRRI	Green Super Rice/ J. Ali
MT4010	1	7	IR 10G107	IRRI	Green Super Rice/ J. Ali
MT4011	1	8	HHZ 5-SAL 10-DT 3-Y 2	IRRI	Green Super Rice/ J. Ali
MT4012	1	9	IR 10G103	IRRI	Green Super Rice/ J. Ali
MT4014	1	10	HHZ 8-SAL 12-Y2-DT 1	IRRI	Green Super Rice/ J. Ali
MT4016	1	11	IR 10A136	IRRI	Irrigated/ P. Virk
MT4020	1	12	IR 10G102	IRRI	Green Super Rice/ J. Ali
MT4021	1	13	IR 10G104	IRRI	Green Super Rice/ J. Ali
MT4022	1	14	IR 10G105	IRRI	Green Super Rice/ J. Ali
MT4024	1	15	IR 10N138	IRRI	Irrigated/ P. Virk
MT4025	1	16	IR 09A183	IRRI	Irrigated/ P. Virk
MT4027	1	17	IR 09A138	IRRI	Irrigated/ P. Virk
MT4029	1	18	IR 10N105	IRRI	Irrigated/ P. Virk
MT4031	1	19	IR 09A128	IRRI	Irrigated/ P. Virk
MT4037	1	20	IR 08A111	IRRI	Irrigated/ P. Virk
MT4039	1	21	IR 09N516	IRRI	Irrigated/ P. Virk
MT4040	1	22	IR 09N531	IRRI	Irrigated/ P. Virk
MT4042	1	23	IR 07A253	IRRI	Irrigated/ P. Virk
MT4044	1	24	IR 09N536	IRRI	Irrigated/ P. Virk
MT4045	1	25	IR 09N534	IRRI	Irrigated/ P. Virk
MT4048	1	26	IR 07A107	IRRI	Irrigated/ P. Virk
MT4051	1	27	IR 09A130	IRRI	Irrigated/ P. Virk
MT4052	1	28	IR 09N379	IRRI	Irrigated/ P. Virk
MT4056	1	29	IR 09A172	IRRI	Irrigated/ P. Virk
MT4058	1	30	IR 10A108	IRRI	Irrigated/ P. Virk
MT4060	1	31	IR 10A114	IRRI	Irrigated/ P. Virk
MT4061	1	32	IR 10A115	IRRI	Irrigated/ P. Virk
MT4062	1	33	IR 10N296	IRRI	Irrigated/ P. Virk
MT4063	1	34	IR 10M292	IRRI	Irrigated/ P. Virk
MT4064	1	35	HHZ 1-SAL 9-Y1	IRRI	Green Super Rice/ J. Ali
MT4068	1	36	IR 09N496	IRRI	Irrigated/ P. Virk
MT4070	1	37	IR 09A105	IRRI	Irrigated/ P. Virk
MT4072	1	38	IR 08M114	IRRI	Irrigated/ P. Virk
MT4074	1	39	IR 02A486	IRRI	Irrigated/ P. Virk
MT4076	1	40	IR 09N389	IRRI	Irrigated/ P. Virk
MT4077	1	41	IR 03A568	IRRI	Irrigated/ P. Virk
MT4078	1	42	IR 08M118	IRRI	Irrigated/ P. Virk
MT4079	1	43	IR 08N210	IRRI	Irrigated/ P. Virk
MT4083	1	44	IR10M243	IRRI	Irrigated/ P. Virk
MT4084	1	45	IR 09N126	IRRI	Irrigated/ P. Virk
MT4086	1	46	IR 10N111	IRRI	Irrigated/ P. Virk
MT4089	1	47	IR 09A192	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4090	1	48	IR 10M142	IRRI	Irrigated/ P. Virk
MT4091	1	49	IR 10N240	IRRI	Irrigated/ P. Virk
MT4092	1	50	IR 10N276	IRRI	Irrigated/ P. Virk
MT4093	1	51	IR 10N290	IRRI	Irrigated/ P. Virk
MT4097	1	52	IR 08N194	IRRI	Irrigated/ P. Virk
MT4098	1	53	IR 07A257	IRRI	Irrigated/ P. Virk
MT4103	1	54	IR 09A131	IRRI	Irrigated/ P. Virk
MT4104	1	55	IR 09A200	IRRI	Irrigated/ P. Virk
MT4106	1	56	IR 02A496	IRRI	Irrigated/ P. Virk
MT4107	1	57	IR 08A138	IRRI	Irrigated/ P. Virk
MT4111	1	58	IR 09N537	IRRI	Irrigated/ P. Virk
MT4112	1	59	IR 09N423	IRRI	Irrigated/ P. Virk
MT4113	1	60	IR 03A262	IRRI	Irrigated/ P. Virk
MT4114	1	61	IR 08M113	IRRI	Irrigated/ P. Virk
MT4116	1	62	IR 04N106	IRRI	Irrigated/ P. Virk
MT4122	1	63	IR 09N530	IRRI	Irrigated/ P. Virk
MT4123	1	64	IR 10N121	IRRI	Irrigated/ P. Virk
MT4124	1	65	IR 09N199	IRRI	Irrigated/ P. Virk
MT4125	1	66	IR 10N130	IRRI	Irrigated/ P. Virk
MT4126	1	67	IR 10N141	IRRI	Irrigated/ P. Virk
MT4128	1	68	IR 10A128	IRRI	Irrigated/ P. Virk
MT4129	1	69	IR 10N187	IRRI	Irrigated/ P. Virk
MT4134	1	70	IR 10A117	IRRI	Irrigated/ P. Virk
MT4139	1	71	IR 07A183	IRRI	Irrigated/ P. Virk
MT4140	1	72	IR 07A250	IRRI	Irrigated/ P. Virk
MT4141	1	73	IR 09N497	IRRI	Irrigated/ P. Virk
MT4143	1	74	IR 09N127	IRRI	Irrigated/ P. Virk
MT4144	1	75	IR 05A260	IRRI	Irrigated/ P. Virk
MT4145	1	76	IR 07A266	IRRI	Irrigated/ P. Virk
MT4151	1	77	IR 06N147	IRRI	Irrigated/ P. Virk
MT4162	1	78	IR 10N134	IRRI	Irrigated/ P. Virk
MT4155	1	79	IR 72	IRRI	Irrigated/ P. Virk
MT4156	1	80	IR 07N187	IRRI	Irrigated/ P. Virk
MT4157	1	81	IR 08A192	IRRI	Irrigated/ P. Virk
MT4160	1	82	IR 09N520	IRRI	Irrigated/ P. Virk
MT4164	1	83	IR 10N137	IRRI	Irrigated/ P. Virk
MT4166	1	84	IR 10N272	IRRI	Irrigated/ P. Virk
MT4168	1	85	IR 10N266	IRRI	Irrigated/ P. Virk
MT4169	1	86	IR 10N270	IRRI	Irrigated/ P. Virk
MT4170	1	87	IR 10A142	IRRI	Irrigated/ P. Virk
MT4177	1	88	HHZ 2-Y3-Y1	IRRI	Green Super Rice/ J. Ali
MT4181	1	89	IR 09N527	IRRI	Irrigated/ P. Virk
MT4182	1	90	IR 09N540	IRRI	Irrigated/ P. Virk
MT4185	1	91	IR 03A477	IRRI	Irrigated/ P. Virk
MT4186	1	92	IR 06N170	IRRI	Irrigated/ P. Virk
MT4187	1	93	IR 08N180	IRRI	Irrigated/ P. Virk
MT4189	1	94	IR 09N509	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4191	1	95	IR 09N161	IRRI	Irrigated/ P. Virk
MT4192	1	96	IR 09A181	IRRI	Irrigated/ P. Virk
MT4193	1	97	IR 06M137	IRRI	Irrigated/ P. Virk
MT4197	1	98	IR 06M142	IRRI	Irrigated/ P. Virk
MT4199	1	99	IR 09N506	IRRI	Irrigated/ P. Virk
MT4200	1	100	IR 09N278	IRRI	Irrigated/ P. Virk
MT4204	1	101	IR 10N263	IRRI	Irrigated/ P. Virk
MT4208	1	102	Zhongzu 14	IRRI	Green Super Rice/ J. Ali
MT4210	1	103	IR 10F379	IRRI	Submergence/ B. Collard
MT4211	1	104	IR 10F382	IRRI	Submergence/ B. Collard
MT4215	1	105	IR 06N212	IRRI	Irrigated/ P. Virk
MT4216	1	106	IR 09N499	IRRI	Irrigated/ P. Virk
MT4218	1	107	IR 09N508	IRRI	Irrigated/ P. Virk
MT4219	1	108	IR 09N474	IRRI	Irrigated/ P. Virk
MT4221	1	109	IR 05N229	IRRI	Irrigated/ P. Virk
MT4222	1	110	IR 03N137	IRRI	Irrigated/ P. Virk
MT4223	1	111	IR 04A285	IRRI	Irrigated/ P. Virk
MT4224	1	112	IR 09N501	IRRI	Irrigated/ P. Virk
MT4227	1	113	IR 73004-3-1-2-1	IRRI	Irrigated/ P. Virk
MT4230	1	114	IR 04A395	IRRI	Irrigated/ P. Virk
MT4235	1	115	IR 09M109	IRRI	Irrigated/ P. Virk
MT4242	1	116	IR 10N242	IRRI	Irrigated/ P. Virk
MT4251	1	117	IR 06M147	IRRI	Irrigated/ P. Virk
MT4252	1	118	IR 08N128	IRRI	Irrigated/ P. Virk
MT4253	1	119	IR 07N201	IRRI	Irrigated/ P. Virk
MT4254	1	120	IR 09N184	IRRI	Irrigated/ P. Virk
MT4255	1	121	IR 04A216	IRRI	Irrigated/ P. Virk
MT4258	1	122	IR 08A128	IRRI	Irrigated/ P. Virk
MT4259	1	123	IR 09A120	IRRI	Irrigated/ P. Virk
MT4260	1	124	IR 09N514	IRRI	Irrigated/ P. Virk
MT4262	1	125	IR 08N185	IRRI	Irrigated/ P. Virk
MT4263	1	126	IR 08N215	IRRI	Irrigated/ P. Virk
MT4264	1	127	IRRI 146	IRRI	Irrigated/ P. Virk
MT4269	1	128	IR 09N507	IRRI	Irrigated/ P. Virk
MT4270	1	129	IR 10M239	IRRI	Irrigated/ P. Virk
MT4271	1	130	IR 09N202	IRRI	Irrigated/ P. Virk
MT4272	1	131	IR 10N117	IRRI	Irrigated/ P. Virk
MT4274	1	132	IR 10M124	IRRI	Irrigated/ P. Virk
MT4277	1	133	IR 10A135	IRRI	Irrigated/ P. Virk
MT4281	1	134	Huanghuazhan	IRRI	Green Super Rice/ J. Ali
MT4282	1	135	KCD 1	IRRI	Green Super Rice/ J. Ali
MT4283	1	136	Weed tolerant rice 1	IRRI	Green Super Rice/ J. Ali
MT4287	1	137	IR 06M134	IRRI	Irrigated/ P. Virk
MT4288	1	138	IR 07A137	IRRI	Irrigated/ P. Virk
MT4292	1	139	IR 09N505	IRRI	Irrigated/ P. Virk
MT4294	1	140	IR 05A272	IRRI	Irrigated/ P. Virk
MT4296	1	141	IR 10N101	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4300	1	142	IR 09N529	IRRI	Irrigated/ P. Virk
MT4306	1	143	IR 10M115	IRRI	Irrigated/ P. Virk
MT4307	1	144	IR 10N136	IRRI	Irrigated/ P. Virk
MT4311	1	145	IR 10N114	IRRI	Irrigated/ P. Virk
MT4312	1	146	IR 10N260	IRRI	Irrigated/ P. Virk
MT4313	1	147	IR 10N271	IRRI	Irrigated/ P. Virk
MT4314	1	148	IR 10A139	IRRI	Irrigated/ P. Virk
MT4315	1	149	IR 10M147	IRRI	Irrigated/ P. Virk
MT4316	1	150	IR 10M252	IRRI	Irrigated/ P. Virk
MT4317	1	151	IR 10M286	IRRI	Irrigated/ P. Virk
MT4319	1	152	IR 06N141	IRRI	Irrigated/ P. Virk
MT4321	1	153	IR 09N217	IRRI	Irrigated/ P. Virk
MT4325	1	154	IR 09N247	IRRI	Irrigated/ P. Virk
MT4326	1	155	IR 07N197	IRRI	Irrigated/ P. Virk
MT4521	1	156	PR37990-3B-4-2	Philippines	PhilRice
MT4523	1	157	PR36831-42-1-2-2-1-1-1	Philippines	PhilRice
MT4525	1	158	PR37160-1-1-1-1-1-1	Philippines	PhilRice
MT4526	1	159	PR37160-9-3-1-1-1-1	Philippines	PhilRice
MT4530	1	160	PR38737-2B-5-1-1	Philippines	PhilRice
MT4532	1	161	PR37251-1-5-1-3	Philippines	PhilRice
MT4533	1	162	PR37274-6-32-8-2-2-1	Philippines	PhilRice
MT4534	1	163	PR37938-3B-3-1-1	Philippines	PhilRice
MT4535	1	164	PR38696-24-1	Philippines	PhilRice
MT4539	1	165	PR37165-1-2-1-1-1-1	Philippines	PhilRice
MT4540	1	166	PR36823-39-1-5-3-1-1-1	Philippines	PhilRice
MT4541	1	167	PR37160-8-3-1-1-1-1	Philippines	PhilRice
MT4542	1	168	PR37956-3B-44-1	Philippines	PhilRice
MT4551	1	169	PR38729-B-B-1-1	Philippines	PhilRice
MT4552	1	170	PR38712-2B-8-1-1	Philippines	PhilRice
MT4555	1	171	PR36723-B-1-3-3-3-2	Philippines	PhilRice
MT4558	1	172	PR38677-2-1	Philippines	PhilRice
MT4559	1	173	PR37157-1-1-1-1-1-1	Philippines	PhilRice
MT4563	1	174	PR37285-17-31-12-1-21-1-2	Philippines	PhilRice
MT4565	1	175	PR37241-3-1-3-1-1-2	Philippines	PhilRice
MT4570	1	176	PR38001-3B-5-2-1	Philippines	PhilRice
MT4571	1	177	PR38001-3B-9-3-1	Philippines	PhilRice
MT4575	1	178	PR38000-3B-4-3	Philippines	PhilRice
MT4577	1	179	PR37942-3B-5-1-1	Philippines	PhilRice
MT4579	1	180	PR35766-B-7-5-3-4-1	Philippines	PhilRice
MT4580	1	181	PR37165-2-2-1-1-1	Philippines	PhilRice
MT4581	1	182	PR37340-B-4-4	Philippines	PhilRice
MT4582	1	183	PR37957-B-3-3-1-1	Philippines	PhilRice
MT4583	1	184	PR37934-3B-8-2-2	Philippines	PhilRice
MT4637	1	185	PR37957-B-3-3-1-1-1	Philippines	PhilRice
MT4703	1	186	PR37171-1-1-1-2-1-1-1	Philippines	PhilRice
MT4906	1	187	IR64-PYL1	IRRI	Japan Project/ T. Ishimaru
MT4907	1	188	IR 86635-26-3-1-3	IRRI	RDA Korea/ W. Ha

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4908	1	189	Hanareumbyeo 2 (Milyang 2	IRRI	RDA Korea/ W. Ha
MT4909	1	190	Milyang 23	IRRI	RDA Korea/ W. Ha
MT4910	1	191	Hanareumbyeo	IRRI	RDA Korea/ W. Ha
MT4911	1	192	Saegyejinmibyeo	IRRI	RDA Korea/ W. Ha
MT4912	1	193	Dasanbyeo	IRRI	RDA Korea/ W. Ha
MT4913	1	194	Hangangchal 1	IRRI	RDA Korea/ W. Ha
MT4914	1	195	IR 78875-207-B-3	IRRI	Aerobic/ A. Kumar
MT4915	1	196	IR06L132	IRRI	Aerobic/ A. Kumar
MT4916	1	197	IR08L216	IRRI	Aerobic/ A. Kumar
MT4917	1	198	IR06G112	IRRI	Aerobic/ A. Kumar
MT4918	1	199	IR09L324	IRRI	Aerobic/ A. Kumar
MT4919	1	200	IR09L225	IRRI	Aerobic/ A. Kumar
MT4920	1	201	IR10L149	IRRI	Aerobic/ A. Kumar
MT4921	1	202	IR10L182	IRRI	Aerobic/ A. Kumar
MT4922	1	203	IR10L139	IRRI	Aerobic/ A. Kumar
MT4923	1	204	IR10L185	IRRI	Aerobic/ A. Kumar
MT4924	1	205	IR 10L196	IRRI	Aerobic/ A. Kumar
MT4925	1	206	IR10L314	IRRI	Aerobic/ A. Kumar
MT4926	1	207	IR10L249	IRRI	Aerobic/ A. Kumar
MT4927	1	208	IR 75870-8-1-2-B-6-1-1-B	IRRI	Biotic Tolerance/ K. Jena
MT4928	1	209	IR 86088-52-2-2	IRRI	RDA Korea/ W. Ha
MT4929	1	210	IR 65482-7-216-1-2-B	IRRI	Biotic Tolerance/ K. Jena
MT4930	1	211	IR 54751-1-2-44-15-2-3-B	IRRI	Biotic Tolerance/ K. Jena
MT4931	1	212	IR64-NIL7	IRRI	Japan Project/ T. Ishimaru
MT4932	1	213	IR64-NIL10	IRRI	Japan Project/ T. Ishimaru
MT4933	1	214	IR64-NIL11	IRRI	Japan Project/ T. Ishimaru
MT4934	1	215	IR09F154	IRRI	Submergence/ B. Collard
MT4935	1	216	IR 10C146	IRRI	Heat/Cold Tolerance/ E. Redoña
MT4936	1	217	IR 10C141	IRRI	Heat/Cold Tolerance/ E. Redoña
MT4937	1	218	IR 10C171	IRRI	Heat/Cold Tolerance/ E. Redoña
MT4938	1	219	IR 10C140	IRRI	Heat/Cold Tolerance/ E. Redoña
MT4939	1	220	IR 10C168	IRRI	Heat/Cold Tolerance/ E. Redoña
MT4940	1	221	HHZ 2-Y13-DT1-DT1	IRRI	Green Super Rice/ J. Ali
MT4941	1	222	HHZ 2-Y3-Y1-Y1	IRRI	Green Super Rice/ J. Ali
MT4942	1	223	HHZ 4-Y5-Y1-Y1	IRRI	Green Super Rice/ J. Ali
MT4943	1	224	HHZ 5-DT20-DT2-DT1	IRRI	Green Super Rice/ J. Ali
MT4944	1	225	HHZ 5-DT20-DT3-Y2	IRRI	Green Super Rice/ J. Ali
MT4945	1	226	HHZ 5-SAL6-SAL3-DT1	IRRI	Green Super Rice/ J. Ali
MT4946	1	227	HHZ 5-SAL8-DT3-SUB1	IRRI	Green Super Rice/ J. Ali
MT4947	1	228	HHZ 5-SAL14-SAL2-Y1	IRRI	Green Super Rice/ J. Ali
MT4948	1	229	HHZ 5-SAL14-SAL2-Y2	IRRI	Green Super Rice/ J. Ali
MT4949	1	230	HHZ 5-Y3-Y1-DT1	IRRI	Green Super Rice/ J. Ali
MT4950	1	231	HHZ 5-Y7-Y2-SAL1	IRRI	Green Super Rice/ J. Ali
MT4951	1	232	HHZ 5-Y7-Y2-SUB1	IRRI	Green Super Rice/ J. Ali
MT4952	1	233	HHZ 6-DT8-Y2	IRRI	Green Super Rice/ J. Ali
MT4953	1	234	HHZ 6-DT10-LI1-LI1	IRRI	Green Super Rice/ J. Ali
MT4954	1	235	HHZ 6-SAL16-LI1-LI1	IRRI	Green Super Rice/ J. Ali

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4955	1	236	HHZ 8-SAL6-SAL3-SAL1	IRRI	Green Super Rice/ J. Ali
MT4956	1	237	HHZ 10-DT12-LI1-LI1	IRRI	Green Super Rice/ J. Ali
MT4957	1	238	HHZ 15-DT4-DT1-Y1	IRRI	Green Super Rice/ J. Ali
MT4958	1	239	HHZ 17-Y16-Y3-SAL1	IRRI	Green Super Rice/ J. Ali
MT4959	1	240	HHZ 17-DT6-Y1-DT1	IRRI	Green Super Rice/ J. Ali
MT4960	1	241	HHZ 25-DT9-Y1-Y1	IRRI	Green Super Rice/ J. Ali
MT4961	1	242	IR64-NIL5	IRRI	Japan Project/ T. Ishimaru
MT4962	1	243	IR80637H	IRRI	Hybrid/ F. Xie
MT4963	1	244	IR81949H	IRRI	Hybrid/ F. Xie
MT4964	1	245	IR81955H	IRRI	Hybrid/ F. Xie
MT4965	1	246	IR82363H	IRRI	Hybrid/ F. Xie
MT4966	1	247	IR82372H	IRRI	Hybrid/ F. Xie
MT4967	1	248	IR82386H	IRRI	Hybrid/ F. Xie
MT4968	1	249	IR82391H	IRRI	Hybrid/ F. Xie
MT4969	1	250	IR83199H	IRRI	Hybrid/ F. Xie
MT4970	1	251	IR84714H	IRRI	Hybrid/ F. Xie
MT4971	1	252	IR85466H	IRRI	Hybrid/ F. Xie
MT4972	1	253	IR85471H	IRRI	Hybrid/ F. Xie
MT4973	1	254	IR86169H	IRRI	Hybrid/ F. Xie
MT4974	1	255	IR 10A293	IRRI	Irrigated/ P. Virk
MT4975	1	256	IR 10A294	IRRI	Irrigated/ P. Virk
MT4976	1	257	IR 10A325	IRRI	Irrigated/ P. Virk
MT4977	1	258	IR 10N315	IRRI	Irrigated/ P. Virk
MT4978	1	259	IR 10A267	IRRI	Irrigated/ P. Virk
MT4979	1	260	IR 10A304	IRRI	Irrigated/ P. Virk
MT4980	1	261	IR 10A240	IRRI	Irrigated/ P. Virk
MT4981	1	262	IR 10A269	IRRI	Irrigated/ P. Virk
MT4982	1	263	IR 10A183	IRRI	Irrigated/ P. Virk
MT4983	1	264	IR 10A317	IRRI	Irrigated/ P. Virk
MT4984	1	265	IR 10A323	IRRI	Irrigated/ P. Virk
MT4985	1	266	IR 10A245	IRRI	Irrigated/ P. Virk
MT4986	1	267	IR 10A268	IRRI	Irrigated/ P. Virk
MT4987	1	268	IR 10N323	IRRI	Irrigated/ P. Virk
MT4988	1	269	IR 10A226	IRRI	Irrigated/ P. Virk
MT4989	1	270	IR 10A235	IRRI	Irrigated/ P. Virk
MT4990	1	271	IR 10A239	IRRI	Irrigated/ P. Virk
MT4991	1	272	IR 10A259	IRRI	Irrigated/ P. Virk
MT4992	1	273	IR 10A173	IRRI	Irrigated/ P. Virk
MT4993	1	274	IR 10A191	IRRI	Irrigated/ P. Virk
MT4994	1	275	IR 10A237	IRRI	Irrigated/ P. Virk
MT4995	1	276	IR 11A127	IRRI	Irrigated/ P. Virk
MT4996	1	277	IR 11A155	IRRI	Irrigated/ P. Virk
MT4997	1	278	IR 10A287	IRRI	Irrigated/ P. Virk
MT4998	1	279	IR 11A327	IRRI	Irrigated/ P. Virk
MT4999	1	280	IR 10A199	IRRI	Irrigated/ P. Virk
MT5000	1	281	IR 10A207	IRRI	Irrigated/ P. Virk
MT5001	1	282	IR 10A228	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT5002	1	283	IR 10A275	IRRI	Irrigated/ P. Virk
MT5003	1	284	IR 10A314	IRRI	Irrigated/ P. Virk
MT5004	1	285	IR 10A233	IRRI	Irrigated/ P. Virk
MT5005	1	286	IR 10A284	IRRI	Irrigated/ P. Virk
MT5006	1	287	IR 11A211	IRRI	Irrigated/ P. Virk
MT5007	1	288	IR 10A159	IRRI	Irrigated/ P. Virk
MT5008	1	289	IR 10A260	IRRI	Irrigated/ P. Virk
MT5009	1	290	IR 11A257	IRRI	Irrigated/ P. Virk
MT5010	1	291	IR 10N375	IRRI	Irrigated/ P. Virk
MT5011	1	292	IR 87073-68-3-2-1-3	IRRI	Irrigated/ P. Virk
MT5012	1	293	IR 10A205	IRRI	Irrigated/ P. Virk
MT5013	1	294	IR 10A234	IRRI	Irrigated/ P. Virk
MT5014	1	295	IR 10A168	IRRI	Irrigated/ P. Virk
MT5015	1	296	IR 10A302	IRRI	Irrigated/ P. Virk
MT5016	1	297	IR 11A167	IRRI	Irrigated/ P. Virk
MT5017	1	298	IR 10N383	IRRI	Irrigated/ P. Virk
MT5018	1	299	IR 10A171	IRRI	Irrigated/ P. Virk
MT5019	1	300	IR 10A231	IRRI	Irrigated/ P. Virk
MT5020	1	301	IR 10A232	IRRI	Irrigated/ P. Virk
MT5021	1	302	IR 11A172	IRRI	Irrigated/ P. Virk
MT5022	1	303	IR 11A109	IRRI	Irrigated/ P. Virk
MT5023	1	304	IR 11A298	IRRI	Irrigated/ P. Virk
MT5024	1	305	IR 11A312	IRRI	Irrigated/ P. Virk
MT5025	1	306	IR 11A314	IRRI	Irrigated/ P. Virk
MT5026	1	307	IR 10N310	IRRI	Irrigated/ P. Virk
MT5027	1	308	IR 11A341	IRRI	Irrigated/ P. Virk
MT5028	1	309	IR 10N362	IRRI	Irrigated/ P. Virk
MT5029	1	310	IR 11N134	IRRI	Irrigated/ P. Virk
MT5030	1	311	IR 11W106	IRRI	Irrigated/ P. Virk
MT5031	1	312	IR 10A219	IRRI	Irrigated/ P. Virk
MT5032	1	313	IR 10A225	IRRI	Irrigated/ P. Virk
MT5033	1	314	IR 11A158	IRRI	Irrigated/ P. Virk
MT5034	1	315	IR 11A285	IRRI	Irrigated/ P. Virk
MT5035	1	316	IR 11A318	IRRI	Irrigated/ P. Virk
MT5036	1	317	IR 10N343	IRRI	Irrigated/ P. Virk
MT5037	1	318	IR 10N361	IRRI	Irrigated/ P. Virk
MT5038	1	319	IR 10N389	IRRI	Irrigated/ P. Virk
MT5039	1	320	IR64-NIL17	IRRI	Japan Project/ T. Ishimaru
MT5040	1	321	IR64-NIL19	IRRI	Japan Project/ T. Ishimaru
MT5041	1	322	IR 86052-32-3-2	IRRI	RDA Korea/ W. Ha
MT5042	1	323	IR 86385-259-1-2-B	IRRI	Salinity/ G. Gregorio
MT5043	1	324	IR 86385-80-3-1-B	IRRI	Salinity/ G. Gregorio
MT5044	1	325	IR 86385-248-2-1-B	IRRI	Salinity/ G. Gregorio
MT5045	1	326	IR 86385-56-2-1-B	IRRI	Salinity/ G. Gregorio
MT5046	1	327	IR 86385-270-1-1-B	IRRI	Salinity/ G. Gregorio
MT5047	1	328	IR 87923-2-2-2-B	IRRI	Salinity/ G. Gregorio
MT5048	1	329	IR 88349-1-AJY1-B	IRRI	Salinity/ G. Gregorio

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT5049	1	330	IR 88379-1-AJY1-B	IRRI	Salinity/ G. Gregorio
MT5050	1	331	IR 84115-6-B-AJY2-3-1-AJY1-	IRRI	Salinity/ G. Gregorio
MT5051	1	332	IR 85860-B-B-AJY1-B	IRRI	Salinity/ G. Gregorio
MT5052	1	333	IR 87934-2-2-3-B	IRRI	Salinity/ G. Gregorio
MT5053	1	334	IR 88332-1-AJY1-B	IRRI	Salinity/ G. Gregorio
MT5054	1	335	IR 83988-10-B-SDO3-3-1-AJY	IRRI	Salinity/ G. Gregorio
MT5055	1	336	IR 87919-6-1-2-B	IRRI	Salinity/ G. Gregorio
MT5056	1	337	IR 87937-6-1-3-B	IRRI	Salinity/ G. Gregorio
MT5057	1	338	Jinmibyeo	IRRI	RDA Korea/ W. Ha
MT5058	1	339	IR 73681-11-4-1-2-4-1-B	IRRI	Biotic Tolerance/ K. Jena
MT5059	1	340	PR 38269-6-2-2-3-B	Philippines	PhilRice
MT5060	1	341	PR38792-2B-4	Philippines	PhilRice
MT5061	1	342	PR39141-11-2-2-B	Philippines	PhilRice
MT5062	1	343	PR39149-29-2-3-B	Philippines	PhilRice
MT5063	1	344	PR 37797-26-1-3-2-1-B-B	Philippines	PhilRice
MT5064	1	345	PR38711-2B-1-2-1	Philippines	PhilRice
MT5065	1	346	PR38712-2B-3-1-2	Philippines	PhilRice
MT5066	1	347	PR38631-B1-1-1-1	Philippines	PhilRice
MT5067	1	348	MARS A 189-1-1-1-1-1-1	Philippines	PhilRice
MT5068	1	349	PR38854-30-2-3-1-B	Philippines	PhilRice
MT5069	1	350	PR 37787-5-3-2-3-2-B-B	Philippines	PhilRice
MT5070	1	351	PR 37533-8-1-1-1-3-2-1-3-B-	Philippines	PhilRice
MT5071	1	352	PR38858-4-3-3-2-B	Philippines	PhilRice
MT5072	1	353	PR 37801-15-1-1-3-2-B-B	Philippines	PhilRice
MT5073	1	354	PR38867-24-3-3-1-B	Philippines	PhilRice
MT5074	1	355	PR 37790-26-1-2-2-1-B-B	Philippines	PhilRice
MT5075	1	356	PR38009-3B-7-3-1	Philippines	PhilRice
MT5076	1	357	PR37942-3B-5-1-2	Philippines	PhilRice
MT5077	1	358	PR37319-3B-4-4-1-1	Philippines	PhilRice
MT5078	1	359	PR38733-B-B-24-1	Philippines	PhilRice
MT5079	1	360	PR37559-3B-8-1-1	Philippines	PhilRice
MT5080	1	361	PR30658-3B-B-1-1	Philippines	PhilRice
MT5081	1	362	PR34368-3-Pokkali-AC-51-M	Philippines	PhilRice
MT5082	1	363	PR 38293-13-3-2-1-B-B	Philippines	PhilRice
MT5083	1	364	PR13-7-84	Philippines	PhilRice
MT5084	1	365	PR38668-6-62-2	Philippines	PhilRice
MT5085	1	366	PR38697-12-81-9	Philippines	PhilRice
MT5086	1	367	PR4-2-24	Philippines	PhilRice
MT5087	1	368	PR8-5-50	Philippines	PhilRice
MT5088	1	369	PR8-5-58	Philippines	PhilRice
MT5089	1	370	PR8-5-59-1	Philippines	PhilRice
MT5090	1	371	PR12-6-67	Philippines	PhilRice
MT5091	1	372	PR12-6-69	Philippines	PhilRice
MT5092	1	373	PR38650-5-20-1	Philippines	PhilRice
MT5093	1	374	PR3-1-5	Philippines	PhilRice
MT5094	1	375	Elite17	Philippines	PhilRice
MT5095	1	376	Elite19	Philippines	PhilRice



**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT5096	1	377	Elite26	Philippines	PhilRice
MT5097	1	378	Elite30	Philippines	PhilRice
MT5098	1	379	Elite32	Philippines	PhilRice
MT5099	1	380	Elite39	Philippines	PhilRice
MT5100	1	381	Elite40	Philippines	PhilRice
MT5101	1	382	Elite66	Philippines	PhilRice
MT5102	1	383	Elite68	Philippines	PhilRice
MT5103	1	384	Elite69	Philippines	PhilRice
MT5104	1	385	Elite74	Philippines	PhilRice
MT5105	1	386	Elite77	Philippines	PhilRice
MT5106	1	387	Elite81	Philippines	PhilRice
MT5107	1	388	Elite86	Philippines	PhilRice
MT5108	1	389	Elite35	Philippines	PhilRice
MT5109	1	390	Elite63	Philippines	PhilRice
MT5110	1	391	Elite12	Philippines	PhilRice
MT5111	1	392	SPSI 35	Philippines	PhilRice
MT5112	1	393	SPSI 36	Philippines	PhilRice
MT5113	1	394	PR39495VAC3438	Philippines	PhilRice
MT5114	1	395	POS14	Philippines	PhilRice
MT4328	2	1	IR 07N128	IRRI	Irrigated/ P. Virk
MT4329	2	2	IR 08N109	IRRI	Irrigated/ P. Virk
MT4330	2	3	IR 03A550	IRRI	Irrigated/ P. Virk
MT4331	2	4	IR 09N517	IRRI	Irrigated/ P. Virk
MT4332	2	5	IR 09A225	IRRI	Irrigated/ P. Virk
MT4333	2	6	IR 06A145	IRRI	Irrigated/ P. Virk
MT4336	2	7	IR 08N118	IRRI	Irrigated/ P. Virk
MT4343	2	8	IR 10A121	IRRI	Irrigated/ P. Virk
MT4344	2	9	IR 10N148	IRRI	Irrigated/ P. Virk
MT4345	2	10	IR 10M131	IRRI	Irrigated/ P. Virk
MT4347	2	11	IR 10N250	IRRI	Irrigated/ P. Virk
MT4348	2	12	IR 10A143	IRRI	Irrigated/ P. Virk
MT4349	2	13	IR 10N278	IRRI	Irrigated/ P. Virk
MT4355	2	14	IR 08A175	IRRI	Irrigated/ P. Virk
MT4360	2	15	IR 09N465	IRRI	Irrigated/ P. Virk
MT4361	2	16	IR 08A176	IRRI	Irrigated/ P. Virk
MT4364	2	17	IR 07N123	IRRI	Irrigated/ P. Virk
MT4368	2	18	IR 06A144	IRRI	Irrigated/ P. Virk
MT4370	2	19	IR 06N120	IRRI	Irrigated/ P. Virk
MT4371	2	20	IR 06N156	IRRI	Irrigated/ P. Virk
MT4374	2	21	IR 06A150	IRRI	Irrigated/ P. Virk
MT4375	2	22	IR 08A172	IRRI	Irrigated/ P. Virk
MT4378	2	23	IR 09N261	IRRI	Irrigated/ P. Virk
MT4381	2	24	IR 10A122	IRRI	Irrigated/ P. Virk
MT4382	2	25	IR 10M127	IRRI	Irrigated/ P. Virk
MT4388	2	26	IR 10N253	IRRI	Irrigated/ P. Virk
MT4389	2	27	IR 10N249	IRRI	Irrigated/ P. Virk
MT4393	2	28	IR 10N294	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4396	2	29	IR 02A127	IRRI	Irrigated/ P. Virk
MT4400	2	30	IR 09A231	IRRI	Irrigated/ P. Virk
MT4402	2	31	IR 07N177	IRRI	Irrigated/ P. Virk
MT4405	2	32	IR 09A234	IRRI	Irrigated/ P. Virk
MT4408	2	33	IR 06A155	IRRI	Irrigated/ P. Virk
MT4409	2	34	IR 10N115	IRRI	Irrigated/ P. Virk
MT4410	2	35	IR 09N146	IRRI	Irrigated/ P. Virk
MT4411	2	36	IR 10N122	IRRI	Irrigated/ P. Virk
MT4412	2	37	IR 10N211	IRRI	Irrigated/ P. Virk
MT4416	2	38	IR 10N277	IRRI	Irrigated/ P. Virk
MT4419	2	39	IR 10F358	IRRI	Submergence/ B. Collard
MT4420	2	40	IR 10F187	IRRI	Submergence/ B. Collard
MT4422	2	41	IR 10F221	IRRI	Submergence/ B. Collard
MT4424	2	42	IR 04A428	IRRI	Irrigated/ P. Virk
MT4425	2	43	IR 09N273	IRRI	Irrigated/ P. Virk
MT4427	2	44	IR 08A191	IRRI	Irrigated/ P. Virk
MT4435	2	45	IR 10N146	IRRI	Irrigated/ P. Virk
MT4437	2	46	IR 10N204	IRRI	Irrigated/ P. Virk
MT4440	2	47	IR 10N285	IRRI	Irrigated/ P. Virk
MT4442	2	48	IR 10N305	IRRI	Irrigated/ P. Virk
MT4443	2	49	SACG-4	IRRI	Green Super Rice/ J. Ali
MT4448	2	50	IR 05N173	IRRI	Irrigated/ P. Virk
MT4451	2	51	IR 10M112	IRRI	Irrigated/ P. Virk
MT4459	2	52	IR 10F202	IRRI	Submergence/ B. Collard
MT4464	2	53	IR 09A133	IRRI	Irrigated/ P. Virk
MT4466	2	54	IR 09N251	IRRI	Irrigated/ P. Virk
MT4469	2	55	IR 10N208	IRRI	Irrigated/ P. Virk
MT4470	2	56	IR 10N223	IRRI	Irrigated/ P. Virk
MT4472	2	57	IR 10N236	IRRI	Irrigated/ P. Virk
MT4474	2	58	IR 10N301	IRRI	Irrigated/ P. Virk
MT4475	2	59	IR 10N303	IRRI	Irrigated/ P. Virk
MT4480	2	60	IR 09A116	IRRI	Irrigated/ P. Virk
MT4490	2	61	IR 10F402	IRRI	Submergence/ B. Collard
MT4491	2	62	IR 10F364	IRRI	Submergence/ B. Collard
MT4492	2	63	IR 10F365	IRRI	Submergence/ B. Collard
MT4493	2	64	IR 10F371	IRRI	Submergence/ B. Collard
MT4496	2	65	IR 10N231	IRRI	Irrigated/ P. Virk
MT4511	2	66	IR 09N274	IRRI	Irrigated/ P. Virk
MT4513	2	67	IR 78386 H	IRRI	Hybrid/ F. Xie
MT4519	2	68	IR 84711 H	IRRI	Hybrid/ F. Xie
MT4520	2	69	IR 80814 H	IRRI	Hybrid/ F. Xie
MT4800	2	70	PR38711-2B-8-3-1	Philippines	PhilRice
MT4803	2	71	PR36831-31-1-1-2-3-2-2	Philippines	PhilRice
MT4804	2	72	PR37954-2B-5-2	Philippines	PhilRice
MT4805	2	73	PR37944-B-2-3-1-1	Philippines	PhilRice
MT4806	2	74	PR35766-B-13-1-2-3-3	Philippines	PhilRice
MT4147	2	75	IR 07A260	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT4815	2	76	PR35251-2B-5-5-3-1-1	Philippines	PhilRice
MT4821	2	77	PR36979-PB	Philippines	PhilRice
MT4822	2	78	PR40080-1B-4-1	Philippines	PhilRice
MT4823	2	79	PR37241-3-1-2-1-1	Philippines	PhilRice
MT4824	2	80	PR37046-B-13-5-1-1	Philippines	PhilRice
MT4832	2	81	PR37251-5-4-1-1-2-3	Philippines	PhilRice
MT4837	2	82	PR37179-1-1-1-6-1-1-2	Philippines	PhilRice
MT4838	2	83	PR35414-2-4-1-1-1-1	Philippines	PhilRice
MT4840	2	84	PR37241-3-1-3-1-1-3	Philippines	PhilRice
MT4842	2	85	PR37252-2-1-1-1-2-3	Philippines	PhilRice
MT4844	2	86	PR36921-B-6-1-3-1-1	Philippines	PhilRice
MT4845	2	87	PR38172-B-34	Philippines	PhilRice
MT4852	2	88	PJ(G) 6-2-4-5-4	Philippines	PhilRice
MT4854	2	89	PR34641-2B-15-1-1-1(G)	Philippines	PhilRice
MT4859	2	90	PR36905-B-1-11-2-1-1-1	Philippines	PhilRice
MT4869	2	91	PR37946-B-28-3-2	Philippines	PhilRice
MT4870	2	92	PR40083-1B-1-2	Philippines	PhilRice
MT4871	2	93	PR35251-2B-5-3-1-1-4-4-3	Philippines	PhilRice
MT4873	2	94	PR36933-B-1-21-3-1-3-1-2	Philippines	PhilRice
MT4885	2	95	PR26645-B-7-3-4-5	Philippines	PhilRice
MT4887	2	96	PR37123-PB-12-5-6-9-15	Philippines	PhilRice
MT4893	2	97	PR37043-B-6-3-1(A)	Philippines	PhilRice
MT4898	2	98	PR30952-AC10-SSD-164	Philippines	PhilRice
MT4900	2	99	PR37416-18-1	Philippines	PhilRice
MT5115	2	100	IR06L138	IRRI	Aerobic/ A. Kumar
MT5116	2	101	IR09L337	IRRI	Aerobic/ A. Kumar
MT5117	2	102	IR09L336	IRRI	Aerobic/ A. Kumar
MT5118	2	103	IR09L204	IRRI	Aerobic/ A. Kumar
MT5119	2	104	IR09L120	IRRI	Aerobic/ A. Kumar
MT5120	2	105	IR 77981-19-3-6-2-B	IRRI	Biotic Tolerance/ K. Jena
MT5121	2	106	IR09F162	IRRI	Submergence/ B. Collard
MT5122	2	107	IR09F173	IRRI	Submergence/ B. Collard
MT5123	2	108	IR10F109	IRRI	Submergence/ B. Collard
MT5124	2	109	IR10F501	IRRI	Submergence/ B. Collard
MT5125	2	110	IR10F630	IRRI	Submergence/ B. Collard
MT5126	2	111	IR10F699	IRRI	Submergence/ B. Collard
MT5127	2	112	IR 10C135	IRRI	Heat/Cold Tolerance/ E. Redoña
MT5128	2	113	IR 10C145	IRRI	Heat/Cold Tolerance/ E. Redoña
MT5129	2	114	IR 10C112	IRRI	Heat/Cold Tolerance/ E. Redoña
MT5130	2	115	IR 10C177	IRRI	Heat/Cold Tolerance/ E. Redoña
MT5131	2	116	IR 10C144	IRRI	Heat/Cold Tolerance/ E. Redoña
MT5132	2	117	IR 91152-AC-1	IRRI	High Iron/ DP. Grewal
MT5133	2	118	IR 91152-AC-424	IRRI	High Iron/ DP. Grewal
MT5134	2	119	IR 10A224	IRRI	Irrigated/ P. Virk
MT5135	2	120	IR 10N404	IRRI	Irrigated/ P. Virk
MT5136	2	121	IR 10A257	IRRI	Irrigated/ P. Virk
MT5137	2	122	IR 11A284	IRRI	Irrigated/ P. Virk

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT5138	2	123	IR 11A287	IRRI	Irrigated/ P. Virk
MT5139	2	124	IR 11A292	IRRI	Irrigated/ P. Virk
MT5140	2	125	IR 10A258	IRRI	Irrigated/ P. Virk
MT5141	2	126	IR 10A227	IRRI	Irrigated/ P. Virk
MT5142	2	127	IR 11A108	IRRI	Irrigated/ P. Virk
MT5143	2	128	IR 11A291	IRRI	Irrigated/ P. Virk
MT5144	2	129	IR 11A294	IRRI	Irrigated/ P. Virk
MT5145	2	130	IR 11A303	IRRI	Irrigated/ P. Virk
MT5146	2	131	IR 11N193	IRRI	Irrigated/ P. Virk
MT5147	2	132	IR 10N424	IRRI	Irrigated/ P. Virk
MT5148	2	133	IR 11A283	IRRI	Irrigated/ P. Virk
MT5149	2	134	IR 10A327	IRRI	Irrigated/ P. Virk
MT5150	2	135	IR 86204-189-3-2-1-3	IRRI	Irrigated/ P. Virk
MT5151	2	136	IR 10N314	IRRI	Irrigated/ P. Virk
MT5152	2	137	IR 10N421	IRRI	Irrigated/ P. Virk
MT5153	2	138	IR 10N350	IRRI	Irrigated/ P. Virk
MT5154	2	139	IR 11A331	IRRI	Irrigated/ P. Virk
MT5155	2	140	IR 10A318	IRRI	Irrigated/ P. Virk
MT5156	2	141	IR 10N339	IRRI	Irrigated/ P. Virk
MT5157	2	142	IR 10N396	IRRI	Irrigated/ P. Virk
MT5158	2	143	IR 10A326	IRRI	Irrigated/ P. Virk
MT5159	2	144	IR 10A156	IRRI	Irrigated/ P. Virk
MT5160	2	145	IR 10A266	IRRI	Irrigated/ P. Virk
MT5161	2	146	IR 10A256	IRRI	Irrigated/ P. Virk
MT5162	2	147	IR 10A306	IRRI	Irrigated/ P. Virk
MT5163	2	148	IR 87487-100-2-1-2	IRRI	Irrigated/ P. Virk
MT5164	2	149	IR64-NIL8	IRRI	Japan Project/ T. Ishimaru
MT5165	2	150	IR64-NIL9	IRRI	Japan Project/ T. Ishimaru
MT5166	2	151	IR64-NIL18	IRRI	Japan Project/ T. Ishimaru
MT5167	2	152	PR38600-B1-1-1-1	Philippines	PhilRice
MT5168	2	153	MARS B 265-1-1-1-1-1-1	Philippines	PhilRice
MT5169	2	154	PR38560-1-Azucena (Coll. No. 1)	Philippines	PhilRice
MT5170	2	155	12DS-GMET-1	Philippines	PhilRice
MT5171	2	156	12DS-GMET-3	Philippines	PhilRice
MT5172	2	157	12DS-GMET-5	Philippines	PhilRice
MT5173	2	158	12DS-GMET-7	Philippines	PhilRice
MT5174	2	159	12DS-GMET-9	Philippines	PhilRice
MT5175	2	160	12DS-GMET-11	Philippines	PhilRice
MT5176	2	161	12DS-GMET-15	Philippines	PhilRice
MT5177	2	162	12DS-GMET-18	Philippines	PhilRice
MT5178	2	163	12DS-GMET-19	Philippines	PhilRice
MT5179	2	164	12DS-GMET-20	Philippines	PhilRice
MT5180	2	165	12DS-GMET-22	Philippines	PhilRice
MT5181	2	166	12DS-GMET-25	Philippines	PhilRice
MT5182	2	167	PR37920-B-28-1-2-1-1	Philippines	PhilRice
MT5183	2	168	PR37139-3-1-3-1-2-4-2-1	Philippines	PhilRice
MT5184	2	169	PR38876-2B-31	Philippines	PhilRice

**Table 1. Particulars of entries in the 4th MET Stage 1 - Irrigated Lowland Rice Wet Season (2012)**

MET No.	Module No.	Entry No.	Fixed Name	Origin	Group/Scientist
MT5185	2	170	PR38601-B1-2-1-1	Philippines	PhilRice
MT5186	2	171	PR37994-B-19-3-3-1	Philippines	PhilRice
MT5187	2	172	MARS A 47-1-1-1-1-1-1	Philippines	PhilRice
MT5188	2	173	PR31279-2B-1-1-1-B-Cg	Philippines	PhilRice
MT5189	2	174	PR39306-75-B-B-2	Philippines	PhilRice
MT5190	2	175	PR37770 (Fe)-B-1-2-2-2	Philippines	PhilRice
MT5191	2	176	PR38856-2-2-1-3-B	Philippines	PhilRice
MT5192	2	177	PR 37598-9-3-2-3-1-3-B-B	Philippines	PhilRice
MT5193	2	178	PR38001-3B-9-1-1	Philippines	PhilRice
MT5194	2	179	PR38816-2B-36	Philippines	PhilRice
MT5195	2	180	PR38877-2B-33	Philippines	PhilRice
MT5196	2	181	MARS A 179-1-1-1-1-1-1	Philippines	PhilRice
MT5197	2	182	PR37598-12-2-B	Philippines	PhilRice
MT5198	2	183	PR37088-B-5-2-1-2-4-1-1-3(S	Philippines	PhilRice
MT5199	2	184	PR36908-B-11-3-5-1-2-1-1(S	Philippines	PhilRice
MT5200	2	185	MARS B 56-1-1-1-1-1-1	Philippines	PhilRice
MT5201	2	186	MARS A 131-1-1-1-1-1-1	Philippines	PhilRice
MT5202	2	187	PR40077-2B-28-1	Philippines	PhilRice
MT5203	2	188	PR38012-3B-1-3 (SP)	Philippines	PhilRice
MT5204	2	189	PR33282-B-8-1-1-1-1-1(SP)	Philippines	PhilRice
MT5205	2	190	PR38732-B-B-1 (SP)	Philippines	PhilRice
MT5206	2	191	PR37343-B-6-3-2-2-2(SP)	Philippines	PhilRice
MT5207	2	192	PR39495VAC3414	Philippines	PhilRice
MT5208	2	193	PR39495VAC3706	Philippines	PhilRice
MT5209	2	194	PR36921-B-6-1-3-4	Philippines	PhilRice
MT5210	2	195	PR36933-B-1-21-3-3-3-3	Philippines	PhilRice
MT4901	2	196	IRRI 104	IRRI	
MT4902	2	197	IRRI 123	IRRI	
MT4903	2	198	IRRI 154	IRRI	
MT4904	2	199	IRRI 105	IRRI	
MT5432	2	200	NSIC Rc124H (MESTIZO 4)	IRRI	
MT4901	1	396	IRRI 104	IRRI	
MT4902	1	397	IRRI 123	IRRI	
MT4903	1	398	IRRI 154	IRRI	
MT4904	1	399	IRRI 105	IRRI	
MT5432	1	400	NSIC Rc124H (MESTIZO 4)	IRRI	
MT4901	ch	901	IRRI 104	IRRI	
MT4902	ch	902	IRRI 123	IRRI	
MT4903	ch	903	IRRI 154	IRRI	
MT4904	ch	904	IRRI 105	IRRI	
MT5432	ch	905	NSIC Rc124H (MESTIZO 4)	IRRI	

FIGURE 1. FIELD PLAN FOR ROW-COLUMN DESIGN FOR TWO MODULES FOR MET STAGE 1 - IRRIGATED LOWLAND RICE

Module 1. Very early/Early

Rep. 1							
5001	5110	5111	5220	5221	5330	5331	5440
5002	5109	5112	5219	5222	5329	5332	5439
5003	5108	5113	5218	5223	5328	5333	5438
5004	5107	5114	5217	5224	5327	5334	5437
5005	5106	5115	5216	5225	5326	5335	5436
5006	5105	5116	5215	5226	5325	5336	5435
5007	5104	5117	5214	5227	5324	5337	5434
5008	5103	5118	5213	5228	5323	5338	5433
5009	5102	5119	5212	5229	5322	5339	5432
5010	5101	5120	5211	5230	5321	5340	5431
5011	5100	5121	5210	5231	5320	5341	5430
5012	5099	5122	5209	5232	5319	5342	5429
5013	5098	5123	5208	5233	5318	5343	5428
5014	5097	5124	5207	5234	5317	5344	5427
5015	5096	5125	5206	5235	5316	5345	5426
5016	5095	5126	5205	5236	5315	5346	5425
5017	5094	5127	5204	5237	5314	5347	5424
5018	5093	5128	5203	5238	5313	5348	5423
5019	5092	5129	5202	5239	5312	5349	5422
5020	5091	5130	5201	5240	5311	5350	5421
5021	5090	5131	5200	5241	5310	5351	5420
5022	5089	5132	5199	5242	5309	5352	5419
5023	5088	5133	5198	5243	5308	5353	5418
5024	5087	5134	5197	5244	5307	5354	5417
5025	5086	5135	5196	5245	5306	5355	5416
5026	5085	5136	5195	5246	5305	5356	5415
5027	5084	5137	5194	5247	5304	5357	5414
5028	5083	5138	5193	5248	5303	5358	5413
5029	5082	5139	5192	5249	5302	5359	5412
5030	5081	5140	5191	5250	5301	5360	5411
5031	5080	5141	5190	5251	5300	5361	5410
5032	5079	5142	5189	5252	5299	5362	5409
5033	5078	5143	5188	5253	5298	5363	5408
5034	5077	5144	5187	5254	5297	5364	5407
5035	5076	5145	5186	5255	5296	5365	5406
5036	5075	5146	5185	5256	5295	5366	5405
5037	5074	5147	5184	5257	5294	5367	5404
5038	5073	5148	5183	5258	5293	5368	5403
5039	5072	5149	5182	5259	5292	5369	5402
5040	5071	5150	5181	5260	5291	5370	5401
5041	5070	5151	5180	5261	5290	5371	5400
5042	5069	5152	5179	5262	5289	5372	5399
5043	5068	5153	5178	5263	5288	5373	5398
5044	5067	5154	5177	5264	5287	5374	5397
5045	5066	5155	5176	5265	5286	5375	5396
5046	5065	5156	5175	5266	5285	5376	5395
5047	5064	5157	5174	5267	5284	5377	5394
5048	5063	5158	5173	5268	5283	5378	5393
5049	5062	5159	5172	5269	5282	5379	5392
5050	5061	5160	5171	5270	5281	5380	5391
5051	5060	5161	5170	5271	5280	5381	5390
5052	5059	5162	5169	5272	5279	5382	5389
5053	5058	5163	5168	5273	5278	5383	5388
5054	5057	5164	5167	5274	5277	5384	5387
5055	5056	5165	5166	5275	5276	5385	5386
7001	7060	7061	7120	7121	7180	7181	7240
7002	7059	7062	7119	7122	7179	7182	7239
7003	7058	7063	7118	7123	7178	7183	7238
7004	7057	7064	7117	7124	7177	7184	7237
7005	7056	7065	7116	7125	7176	7185	7236
7006	7055	7066	7115	7126	7175	7186	7235
7007	7054	7067	7114	7127	7174	7187	7234
7008	7053	7068	7113	7128	7173	7188	7233
7009	7052	7069	7112	7129	7172	7189	7232
7010	7051	7070	7111	7130	7171	7190	7231
7011	7050	7071	7110	7131	7170	7191	7230
7012	7049	7072	7109	7132	7169	7192	7229
7013	7048	7073	7108	7133	7168	7193	7228
7014	7047	7074	7107	7134	7167	7194	7227
7015	7046	7075	7106	7135	7166	7195	7226
7016	7045	7076	7105	7136	7165	7196	7225
7017	7044	7077	7104	7137	7164	7197	7224
7018	7043	7078	7103	7138	7163	7198	7223
7019	7042	7079	7102	7139	7162	7199	7222
7020	7041	7080	7101	7140	7161	7200	7221
7021	7040	7081	7100	7141	7160	7201	7220
7022	7039	7082	7099	7142	7159	7202	7219
7023	7038	7083	7098	7143	7158	7203	7218
7024	7037	7084	7097	7144	7157	7204	7217
7025	7036	7085	7096	7145	7156	7205	7216
7026	7035	7086	7095	7146	7155	7206	7215
7027	7034	7087	7094	7147	7154	7207	7214
7028	7033	7088	7093	7148	7153	7208	7213
7029	7032	7089	7092	7149	7152	7209	7212
7030	7031	7090	7091	7150	7151	7210	7211

Rep. 2							
6001	6110	6111	6220	6221	6330	6331	6440
6002	6109	6112	6219	6222	6329	6332	6439
6003	6108	6113	6218	6223	6328	6333	6438
6004	6107	6114	6217	6224	6327	6334	6437
6005	6106	6115	6216	6225	6326	6335	6436
6006	6105	6116	6215	6226	6325	6336	6435
6007	6104	6117	6214	6227	6324	6337	6434
6008	6103	6118	6213	6228	6323	6338	6433
6009	6102	6119	6212	6229	6322	6339	6432
6010	6101	6120	6211	6230	6321	6340	6431
6011	6100	6121	6210	6231	6320	6341	6430
6012	6099	6122	6209	6232	6319	6342	6429
6013	6098	6123	6208	6233	6318	6343	6428
6014	6097	6124	6207	6234	6317	6344	6427
6015	6096	6125	6206	6235	6316	6345	6426
6016	6095	6126	6205	6236	6315	6346	6425
6017	6094	6127	6204	6237	6314	6347	6424
6018	6093	6128	6203	6238	6313	6348	6423
6019	6092	6129	6202	6239	6312	6349	6422
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6030	6081	6140	6191	6250	6301	6360	6411
6031	6080	6141	6190	6251	6300	6361	6410
6032	6079	6142	6189	6252	6299	6362	6409
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6034	6077	6144	6187	6254	6297	6364	6407
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6036	6075	6146	6185	6256	6295	6366	6405
6037	6074	6147	6184	6257	6294	6367	6404
6038	6073	6148	6183	6258	6293	6368	6403
6039	6072	6149	6182	6259	6292	6369	6402
6040	6071	6150	6181	6260	6291	6370	6401
6041	6070	6151	6180	6261	6290	6371	6400
6042	6069	6152	6179	6262	6289	6372	6399
6043	6068	6153	6178	6263	6288	6373	6398
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6045	6066	6155	6176	6265	6286	6375	6396
6046	6065	6156	6175	6266	6285	6376	6395
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6054	6057	6164	6167	6274	6277	6384	6387
6055	6056	6165	6166	6275	6276	6385	6386
8001	8060	8061	8120	8121	8180	8181	8240
8002	8059	8062	8119	8122	8179	8182	8239
8003	8058	8063	8118	8123	8178	8183	8238
8004	8057	8064	8117	8124	8177	8184	8237
8005	8056	8065	8116	8125	8176	8185	8236
8006	8055	8066	8115	8126	8175	8186	8235
8007	8054	8067	8114	8127	8174	8187	8234
8008	8053	8068	8113	8128	8173	8188	8233
8009	8052	8069	8112	8129	8172	8189	8232
8010	8051	8070	8111	8130	8171	8190	8231
8011	8050	8071	8110	8131	8170	8191	8230
8012	8049	8072	8109	8132	8169	8192	8229
8013	8048	8073	8108	8133	8168	8193	8228
8014	8047	8074	8107	8134	8167	8194	8227
8015	8046	8075	8106	8135	8166	8195	8226
8016	8045	8076	8105	8136	8165	8196	8225
8017	8044	8077	8104	8137	8164	8197	8224
8018	8043	8078	8103	8138			



