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ADDENDUM TO
PROJECT TO CONSIDER THE PUBLICATION OF VARIETY DESCRIPTIONS

DEVELOPMENT OF REGIONAL SETS OF EXAMPLE VARIETIES FOR THE
TEST GUIDELINES FOR RICE

Document prepared by experts from the Republic of Korea

1. With the aim of developing regional sets of example varieties in rice Test Guidelines, it was agreed at the thirty-second session of the Technical Working Party for Agricultural Crops (TWA), held in Tsukuba, Japan, in September 2003, that China, Japan and the Republic of Korea would cooperate in performing growing trials.
2. In 2004, Japan and the Republic of Korea carried out growing trials and assessed the characteristics of 20 varieties on the basis of their national test guidelines. In March 2005, those two countries compared the expression of characteristics. Although there was some disharmony between the national test guidelines, those two countries selected tentative example varieties as listed in Table 1.
3. One year's trial was not enough to check the characteristics and a harmonized method in observing characteristics proved necessary. Therefore, the Republic of Korea conducted a second trial with the same varieties on the basis of UPOV Test Guidelines. Unfortunately, Japan could not carry out growing trials in that year.

4. The comparison of data between two growing trials are as follows:

Table 1. Performance of tentative example varieties over two years

No.	Characteristic	Scale	Tentative Example varieties	Notes in 2004	Notes in 2005 (Rep. of Korea only)
15	Flag leaf: attitude of blade(early observation)	1~7	Dasan	1	1
			Kusahonami	1	1
			Odae	3	3
19	Time of heading (50% of plants with heads)	1~7	Jinbuol	1	1
			Hwaseong	5	5
			Dasan	5	5
23	Lemma: anthocyanin coloration of apex (early observation)	1~9	Heugnam	1	7
			Asamurasaki	1	7
24	Spikelet: color of stigma	1~5	Hwaseong	1	1
			Asamurasaki	5	5
30	Panicle: length of main axis	3~7	Ilpum	5	6
			Beniroman	5	5
			Dasan	7	7
			Yumetoiro	7	7
36	Spikelet: pubescence of lemma	1~9	Ilpum	5	5
			Asamurasaki	5	5
39	Panicle: attitude in relation to stem	1~4	Ilpum	3	3
			Kusahonami	3	3
42	Panicle: attitude of branches	1~5	Ilpum	3	3
			Kusahonami	3	3
50	Lemma: anthocyanin coloration of apex (late observation)	1~9	Heugnam	7	5
			Asamurasaki	7	3
53	Grain: weight of 1000 (fully developed grains)	3~7	Sariqueen	3	2
			Ilpum	5	4
58	Decorticated grain: length	3~7	Tsukushiakamochi	3	3
			Yumetoiro	5	5
			Daerip 1	7	6
59	Decorticated grain: width	3~7	Hoshiyutaka	3	3
			Hwaseong	5	5
			Manyoumochi	5	5
			Daerip 1	7	7
61	Decorticated grain: color	1~9	Hwaseonchal	1	1
			Manyoumochi	1	1
			Hwaseong	2	2
			Heuginju	9	9
			Asamurasaki	9	9

5. The notes over two years were, in general, consistent. Nevertheless, some characteristics showed differences between the two trials. Some measured characteristics such as: Panicle: length; Grain: weight; and Grain: length, showed small differences (one note), whereas a large difference was found in the anthocyanin coloration of apex. With regard to anthocyanin coloration of apex (early and late observation, No. 23 & No. 51), it was considered that the inconsistency was partly due to differences in growth stage, specific region between national and UPOV Test Guidelines at which observation was made. A further investigation on these aspects will be made during the trial in 2006.

6. In 2006, besides Japan and the Republic of Korea, China is participating in the growing trial with nine of its own varieties. The total number of countries and varieties is 3 and 29, respectively.

The following Table gives the name and origination of varieties:

No.	Republic of Korea	No.	Japan	No.	<u>China</u>
1	Hwaseong	11	Asamurasaki	21	Guang Lu Ai 4
2	Dasan	12	Yumetoiro	22	Lu Chuan Zao
3	Heugnam	13	Koshihikari	23	Gui Hua huang
4	Odae	14	Manyouchi	24	He Jiang 18
5	Daerip 1	15	Sariqueen	25	Zhu Jin Sui
6	Ilpum	16	Hoshiyutaka	26	Zhu Yun Nuo
7	Heugjinju	17	Kusahonami	27	Li Shui Nuo
8	Hwaseonchal	18	Tsukushiakamochi	28	Che Chon 9
9	Hyangnam	19	Beniroman	29	Li-Jiang-Xin-Tuan-Hei-Gu
10	Jinbuol	20	Nipponbare		

7. In the Republic of Korea, seeds were sown in seedling boxes on April 25, 2006. After one month of nursing, on May 25, 2006, the seedlings were transplanted to a paddy field with a 30×15 cm spacing. Regarding the characteristics to be observed, the three countries agreed to observe 31 characteristics included in UPOV Test Guidelines.

8. Thirty-one characteristics basically contain grouping, asterisked and characteristics with example varieties. Those are as follows: UPOV Test Guideline characteristic numbers: 4, 5, 9, 15, 16, 19, 23, 24, 26, 27, 30, 31, 34, 36, 37, 39, 42, 44, 46, 47, 50, 51, 52, 53, 56, 57, 58, 59, 60, 61, 65

9. At the time of preparing this document, rice was progressing from the stem elongation stage to the booting stage. The number of observed characteristics, therefore, was limited to 2 or 3.

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