

TWC/25/3 Add. ORIGINAL: English DATE: December 7, 2009

F

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

# TECHNICAL WORKING PARTY ON AUTOMATION AND COMPUTER PROGRAMS

Twenty-Fifth Session Sibiu, Romania, September 3 to 6, 2007

> ADDENDUM TO TGP DOCUMENTS

ORAL PRESENTATIONS ON MEASURED QUANTITATIVE CHARACTERISTICS

made by experts from Japan, Republic of Korea, United Kingdom

## TABLE OF CONTENTS

ANNEX I	The Methods to Adjust the Assessment Table for Quantitative Characteristics	by experts from Japan
ANNEX II	Distinctness Assessment of Rice in Korea	by experts from the Republic of Korea
ANNEX III	UK Vegetable Test Centre (excluding potatoes)	by experts from the United Kingdom

TWC/25/3 Add.

ANNEX I







Diana Olar		Coi	mp	OS	itio	n c	of F	TA	-		
No. Characteristics	sar	Note	m 1	2	3	4	5	6	7	8	9
3 Excluding	0				10	20	30	50	70	90	110
varieties for	0	Bango		~	~	~	~	~	~	~	~
cut flower		Kange		0	10	20	10	69	80	109	
varieties for		Width		10	10	10	20	20	20	20	
upright type :		Median		4.5	14.5	24 5	20 F	59.5	79 5	00 F	
Plant width		Example		4.5	14.5	24.3	37.5	57.5	77.5	77.5	
mm		Remarks			<20		40		70<		
5 Stem:	0			8.0	13	18	23	28	36	45	55
Internode		Range	~	~	~	~	~	~	~	~	~
length			7	12	17	22	27	35	44	54	A
		Width		5	5	5	5	8	9	10	
		Median		10.0	15.0	20.0	25.0	31.5	40.0	49.5	
		Example			Shuhu-no-				Sei-rosa		
mm		Domorko			15		25		40		
10 Leaf : length	0			49.0	56	64	72	90	110	130	150
		Range	~	~	~	~	~	~	~		~
			48	55	63	71	89	109	129	149	a series
	1	Width		7	8	8	18	20	20	20	~
		Median		52.0	59.5	67.5	80.5	99.5	119.5	139.5	in the second se
		Example variety			Oki-no- Shiranami		Shuhu-no- Chikara				
mm		Remarks	<49		60		80		120	Arra H	150<
						:			Ţ		4





















S	tep3-1	: /	Ac	dju	str	ne	nt	wit	h	th	е	pr	0	рс	or	ti	or	al	m	ne	tho	d
	e.g. PD : 1	78.	5 (	mm)		_ F	oro	porti	on	=						3	K PI	D: P	rese	ent	data	
	HD :	82.	5 (	mm	) _	7	78.5	imm.	<u>⁄8</u>	2.5	mr	n=	0.9	95			Н	D:H	isto	rica	al data	
	FAT										-											
	No. Characteris	tics	d.p.	Note	е	1	2		3	4		5		6			7	8		9		
	10 Leaf : lengt	h	0				49	.0 5	56	64	4	72	2	90	)	1	10	13	0	150	)	
				Rang	je	~	~		~	~		~		~	-		~	~	_	~		
						48	5!	5 6	53	7	1	89	2	10	9	1	20	14	9			
				Widt	h		52	0 5	8	6 47	-	00	5	20	<u>ر</u>	4	20	20	,			
				Exam	ple		52	.0 5	9.5	07	.5	80.	.5	77.	.5	-	7.5	139	.5	-		
				varie	ty							EV	<u> </u>									
	mm			PD							_	78.	5							1		
												×	: 0	.9	5		A	dj	ust	tec	<b>k</b>	
Th	e Assessme	ent	tak	ole in	this	yea	r									_		•				
No.	Characteristics	d.p.	N	lote	1		2	3		4	Ę	5	6	ò		7		8	9		coefficien	t
10	Leaf : length	0				4	7.0	53	6	51	6	8	8	6	10	)2	1	24	14	3		
			Ra	ange	~		~	~		~	-	~	~		-	~		~	~		×0.95	)
					46	Ę	52	60	6	57	8	5	10	)4	1:	2.2	1	42				
			W	/idth			6	8		7	1	8	1	9	1	9		19				
			Me	edian		4	9.5	56.5	6	4.0	76	5.5	95	0.	11	4.0	0 13	33.0				
			Exa va	ample iriety							5	S										
	mm			PD							S:7	8.5								1	proportior	1
	L					<b>.</b>												1	-		, <b>"</b>	- I









Ste	pЗ	8-2:A	٩dju	ust v	vith	the	sli	ding	me	tho	d
FAT		-						_			
No. Characteristic	s d.p.	Note	1	2	3	4	5	6	7	8	9
12 Leaf : ratio:	2			0.65	0.85	1.05	1.25	1.45	1.65	1.85	2.05
iength/width		Range	~	~	~	~	~	~	~	~	~
			0.64	0.84	1.04	1.24	1.44	1.64	1.84	2.04	
		Width		0.20	0.20	0.20	0.20	0.20	0.20	0.20	
		Median		0.75	0.95	1.15	1.35	1.55	1.75	1.95	
		Example					EV				
ratio		variety				EV-1 16					
Bet	ore	•	¥		_			After			
N	ote	5					ſ	Note	5	1	
		1.2	5 <b>—0</b> .2	2 = 1.05					1.0	5	
Ra	nge	~ 1 4	4-0.2	2 = 1.24				Range	1 2	4	
W	idth	0.2	D No	adjust				Width	0.2	D	
Me	dian	1.3	5 <b>—0</b> .2	2 = 1.15				Median	1.1	5	
Exa va	mple riety	EV			PD ≒ I	Nedian		Example variety	EV		-
	PD	EV:1.	16					PD	EV:1.	16	

Step	53	8-2:A	٩dju	ıst v	vith	the	slic	ling	me	etho	d
FAT											
No. Characteristics	d.p.	Note	1	2	3	4	5	6	7	8	9
12 Leaf : ratio:	2			0.65	0.85	1.05	1.25	1.45	1.65	1.85	2.05
length/width		Range	~	~	~	~	~	~	~	~	~
			0.64	0.84	1.04	1.24	1.44	1.64	1.84	2.04	
		Width		0.20	0.20	0.20	0.20	0.20	0.20	0.20	
		Median		0.75	0.95	1.15	1.35	1.55	1.75	1.95	
		Example variety					EV				
ratio		PD				EV:1.16					
The Assessr	nei	nt Tabl	e in th	is yea	r						
No. Characteristics	d.p.	Note	1	2	3	4	5	6	7	8	9
12 Leaf : ratio:	2			0.45	0.65	0.85	1.05	1.25	1.45	1.65	1.85
length/width		Range	~	~	~	~	~	~	~	~	~
			0.44	0.64	0.84	1.04	1.24	1.44	1.64	1.84	
		Width		0.20	0.20	0.20	0.20	0.20	0.20	0.20	F
		Median		0.55	0.75	0.95	1.15	1.35	1.55	1.75	
		Example variety					EV				
ratio		PD					EV:1.16				
		1							E	en.	

The points of the adjustment with FAT

- The proportional method
- The sliding method (for the characteristic with fixed distance)

\* In addition, we use the least variable Example Variety during many years' DUS growing tests about each characteristic. TWC/25/3 Add.

### ANNEX II













Simp	lified e	xam	ple : Stem length
Stem length (excluding panicle)	Example varieties	Note	<ul> <li>Measured data of varities</li> <li>Min. : 66cm</li> </ul>
Very short	AHH	1	♦ Max. : 120cm
Short	EV-3	3	<ul> <li>✤ EV-3 : 75cm</li> <li>♦ EV-5 : 94cm</li> </ul>
Medium	EV-5	5	
Long	ATC)	7	<ul> <li>Candidate var. CV-a: 77cm</li> <li>Comparing var. SV a: 82cm</li> </ul>
Very long	1110	9	<ul> <li>Comparing Var. 3V-a. 82cm</li> <li>Candidate var. CV-b: 77cm</li> </ul>
THEFT	ALC A	TADA	Comparing var. SV-b: 91cm

1 <sup>st</sup> step : whole Range	Range	Notes	
120-66 = 54	62-70	2	
2 <sup>nd</sup> step : Interval	71-79	3	EV-3 : 75cm
54/6 = 9cm (Note 2~8)	80-88	4	
	89-97	5	EV-5 : 94cm
<ul> <li>3<sup>rd</sup> step : determination of range of states based on</li> </ul>	98-106	6	11111111
example varieties	107-115	7	
EV-3 : 75cm, EV-5 : 94cm	116-124	8	

(0.70			pull 3
62-70	2		
71-79	3	CV-a	CV-b
80-88	4	SV-a	
89-97	5		SV-b
98-106	6		
107-115	7	RRADE	
116-124	8		





Replication123MeaCandidate var.60636261.1Comparing var.69686768.0					
Candidate var.         60         63         62         61. <sup>-</sup> Comparing var.         69         68         67         68.0	Replication	1	2	3	Mean
Comparing 69 68 67 68.0 var.	Candidate var.	60	63	62	61.7
	Comparing var.	69	68	67	68.0
mputation results = 6.0083	omputation re = 6.0083	esults	68	67	68.0
= 6-2 = 4	= 6-2 =4				

#### TWC/25/3 Add.

### ANNEX III



Measured, quantitative characteristics Assessment of distinctness for vegetatively propagated and self-pollinated varieties

- Measured characteristics
  - Usually apply COYD on original scale
  - Converted to 1-9 afterwards for variety description
- Scored characteristics
  - Generally 2 note difference for distinctness
  - May be less or more depending on the character
- Decisions based on first year
  - Based on expert knowledge depends on consistency of scoring from year to year



[End of Annex III and of document]