

**TWO/38/11****ORIGINAL:** English**DATE:** September 7, 2005

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY  
FOR  
ORNAMENTAL PLANTS AND FOREST TREES**

**Thirty-Eighth Session  
Seoul, September 12 to 16, 2005**

**PROJECT TO CONSIDER THE PUBLICATION OF VARIETY DESCRIPTIONS:  
MODEL STUDY ON ALSTROEMERIA**

*Document prepared by expert from Netherlands*

1. In the model study on Alstroemeria descriptions were requested for 7 varieties which had been plant breeders' rights in Canada, Japan, the Netherlands and South Africa.

2. Descriptions of the following varieties were received:

Stabec:	a pink flowered variety used for cut flower production
Stamond:	a white flowered variety used for cut flower production
Staprilan:	a yellow flowered variety used for production of pot plants
Staprinag:	a white flowered variety used for production of pot plants
Staprisis:	a white flowered variety used for production of pot plants
Stasach:	a red flowered variety for production of cut flowers
Statiren:	a pink flowered variety for production of cut flowers

3. The following photographs and additional documentation on the growing of the plants (as far as available) were received from 3 countries:

*Canada*

- Color photographs were taken by the testing centre.
- The plants were grown in summer/Fall in pots or open greenhouse; all in 5 gallon pots; duration of growth 4 to 6 months.
- Minimum temperature 12 C; full sunlight.
- Pot varieties are grown in the same way as varieties for cut flower production, the only difference being a smaller pot for the pot types (10 inch pot)

#### *Japan*

- No pictures were made at the testing centre
- In Japan there is normally on-site inspection
- The applicants are given the following information: Planting in the greenhouse, number of plants and spacing.
- Planting time: Spring: May; or Autumn: September

#### *Netherlands*

- Photographs from the testing centre.
- Growing in autumn/winter/spring in the greenhouse
- Temperature low, to be kept free from frost in winter.
- No shading
- Flowering in April/May
- Pot varieties are treated in the same way as varieties grown for cut flower production: both are grown in the open greenhouse soil.

### Results

4. The survey of the data received from the different countries is provided as Annex I. Annex 2 provides selected characteristics, which include those characteristics which will be retained in the new draft Test Guidelines and the non-asterisked characteristics in that draft. The UPOV Color Groups have been added where applicable.

### Discussion

#### *Char. 1      Stem length*

RSA scores 3 for the pot varieties. That is interesting as these varieties are expected at the bottom of the scale. No further information has been received from RSA.  
For the cut-flower varieties Japan scored lower than the Netherlands, perhaps due to different growing circumstances.

#### *Char. 8      Umbel branches: number*

Rather consistent scores.

*Char. 9 Umbel branches: length*

Some variation; length is strongly depending on the time of observation.

*Char. 10 Pedicel: length*

Same comment as for Char. 9.

*Char. 11 Flower: main color*

Stabec: note 6, red, appears to deviate compared to notes 7 and 8 light pink and pink. Perhaps the red blotch on a pink background is impressive and, whilst not covering the largest part of the flower, has been the basis of the decision here.

Staprinag: the same as for Stabec, but in this case, there is a light pink blotch on a white background.

For the other varieties there may often be confusion by taking the most impressive color instead of the color that is covering the largest part of the surface. In addition, there is difficulty in the cases where 2 colors cover the surface on a 50/50 basis.

*Char. 12 Size*

Rather consistent scores.

*Char 14 Outer tepal: Shape of blade*

Hopefully attention will be paid in the shape document to the distinctness between the shapes mentioned here. The same remark on the distinctness between claw and blade.

*Char. 16 Main color of inner side of blade*

The confusion that can be seen here has been already been solved in the revised draft by dividing the petal into several parts for color observation

*Char. 18 Outer tepal: number of stripes on inner side of blade*

The same as for Char. 16: division in parts and better definition

*Char. 20 Inner lateral tepal: main color of inner side of middle zone of blade*

Not so much variation as far as the color groups are concerned. Yellow orange for Stasach is questionable.

*Char. 22 Inner lateral tepal; size of stripes on inner side of blade.*

Rather large variation in states, which has been addressed in the new draft Test Guidelines by division into parts and better definition of the characteristic.

*Char. 23 Stamen: main color of filament*

Some understandable variation in states

*Char. 25 Stamens: color of the anthers at the start of dehiscence*

This characteristic is very dependent on the time of observation. The color of the pollen is *not* meant here.

*Char. 26 Anthocyanin coloration of the ovary.*

Extremely variable results, which has been addressed in the draft Test Guidelines by a more precise definition.

*General*

It appears that the differences may be partly caused by different environmental factors between the different testing locations but also by unclear definitions of characteristics and/or the indication of the time of observation.

[Annexes follow]

	<b>Alstroemeria</b>
<b>Contributor: (Authority)</b>	
<b>Contact Details Name E-mail Tel. No.</b>	

## TG/29/6

Variety Denomination	Breeder's Reference	Breeder	Applicant (if different from breeder)	Status of Description (Official / Other)	Year of description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
						* Stem: length	* Stem: thickness	* Stem: density of foliage	* Leaf: length	* Leaf: width	* Leaf: shape of blade	* Leaf: longitudinal axis of blade	* Inflorescence: number of branches in umbel	* Inflorescence: length of branches in umbel	* Inflorescence: length of pedicel	* Flower: main color	* Flower: size	* Flower: spread of tepals	* Outer tepal: shape of blade	* Outer tepal: depth of emargination	* Outer tepal: main color of inner side of blade	* Outer tepal: stripes on inner side of blade	* Outer tepal: number of stripes on inner side of blade	* Inner tepal: shape of blade	* Inner lateral tepal: main color of inner side of middle zone of blade	* Inner lateral tepal: number of stripes on inner side of blade	* Inner lateral tepal: size of stripes on inner side of blade	* Stamens: main color of filament	* Stamens: small spots on filament	* Stamens: color of anthers at the start of dehiscence	* Pistil: anthocyanin coloration of ovary	* Pistil: spots on the stigma
<i>Example</i>						1-9	1-9	1-9	1-9	1-9	1-3	1/2	1-9	1-9	1-9	1-12	1-9	1-9	1-5	1-9	RHS	1/9	1-9	1/2	RHS	1-9	1-9	1-9	1/9	1-7	1-9	1/9
<i>e.g. Carmen</i>	BR/98/1	Acebreeder	Agentace	Official	2003	2	5	5	5	5	2	1	5	5	5	2	5	5	4	5		9	5	2		5	5	8	9	4	5	9
Stabec	90708-20	Staaveren		Off.NL	1993	7	8	5	9	7	2	1	5	7	3	7	5	5	5	7	62B-C	9	1	1	9B	5	5	6	1	1	1	1
Stabec	90708-20	Staaveren		Off.RSA	1997	5	5	3	5	5	2	1	5	7	4	8	5	5	5	7	54C	9	3	1	9A	5	5	6	1	1	5	1
Stabec		Zanten		Off.CA	2001	N/A	5	6	N/A	N/A	2	1	5	N/A	N/A	6	7	7	N/A	5	54A	1	N/A	1	9A	5	5	7	1	7	5	1
Stabec		Staaveren		Off.JP	1998	7	5		7	5	3		5	5	5	8	7	7	3	3	55A	1		2	12B	9	7	6		7	3	1
Stamond	90629-37	Staaveren		Off.NL	1993	9	7	6	7	5	2	1	5	5	3	1	7	5	3	5	155D	9	1	1	155D	4	5	6	1	4	4	1
Stamond	90629-37	Staaveren		Off.RSA	1997	5	7	7	5	5	1	2	6	5	7	1	5	3	3	7	155D	9	5	2	155D	5	5	6	1	7	3	
Stamond		Zanten		Off.CA	2001	N/A	5	7	N/A	N/A	2	2	5	N/A	N/A	1	7	6	N/A	5	155D	9	1	1	4D	5	5	6	1	5	7	1
Stamond		Staaveren		Off.JP	1998	7	5		7	7	2		5	5	5	1	7	7	4	5	158D	9	1	2	158C	9	7	6		7	3	1
Staprilan	91D-169-16	Staaveren		Off.NL	1993	1	1	9	1	1	3	2	3	3	3	3	5	5	5	3	8B-C	9	1	2	9A-B	4	5	2	1	4	1	1
Staprilan	91D-169-16	Staaveren		Off.RSA	1997	3	3	5	5	5	2	1	5	3	3	3	5	5	4	3	20A	9	5	2	9B	7	3	2	1	4	1	1
Staprilan		Zanten		Off.CA	2001	N/A	3	5	N/A	N/A	2	1	5	N/A	N/A	3	5	5	N/A	5	5C	9	3	1	12A	5	5	7	1	7	1	1
Staprilan		Staaveren		Off.JP	2000	1	3		3	5	2		5	5	3	3	5	5	4	5	7D	9	1	2	12B	9	5	2		4	1	1
Staprinag	93D-820-12	Staaveren		Off.NL	1997	1	1	9	1	5	3	2	1	3	3	1	5	5	5	3	155A	9	1	2	4A-B	4	4	6	1	7	3	1
Staprinag	93D-820-12	Staaveren		Off.RSA	1997	3	5	7	6	5	2	2	5	5	3	7	5	5	4	5	36D	1	5	1	4B	7	3	6	1	7	3	1
Staprinag		Zanten		Off.CA	2001	N/A	3	5	N/A	N/A	1	1	5	N/A	N/A	1	5	5	N/A	5	155D	9	3	1	2B	5	5	7	1	7	3	1
Staprinag		Staaveren		Off.JP	2000	1	3		3	5	3		5	5	3	1	5	6	4	5	157D	9	1	2	7D	9	5	6		5	1	1
Staprisis	93D-788-11	Staaveren		Off.NL	1997	1	1	9	1	1	3	1	3	3	3	8	5	4	5	3	65A-B	1	1	2	8D	4	4	7	1	4	1	9
Staprisis	93D-788-11	Staaveren		Off.RSA	1997	3	3	5	3	5	3	2	3	3	5	8	3	5	4	3	54B	1		2	9A	5	5	6	1	4	1	1
Staprisis		Zanten		Off.CA	2001	N/A	3	5	N/A	N/A	1	1	3	N/A	N/A	8	4	4	N/A	5	65A	1	N/A	1	12A	5	5	7	1	7	1	9
Staprisis		Staaveren		Off.JP	2000	1	3		3	5	3		3	5	3	7	5	5	4	5	65C	9	1	2	1B	9	5	9		5	1	1
Stasach	90T-689-15	Staaveren		Off.NL	1997	7	5	5	7	5	1	2	5	7	5	6	5	5	5	3	40A	9	1	2	40A	5	6	4	1	4	3	1
Stasach	90T-689-15	Staaveren		Off.RSA	1997	5	3	5	7		3	1	5	7	5	6	5	5	4	3	44A	1		2	44A	5	3	5	1	4	5	1
Stasach		Zanten		Off.CA	2001	N/A	5	6	N/A	N/A	3	2	3	N/A	N/A	6	4	5	N/A	3	42B	1	N/A	1	15A	5	3	5	1	3	5	1
Stasach		Staaveren		Off.JP	1998	5	5		5	5	2		5	5	5	8	5	5	5	5	39A	1		1	44C	9	7	5		4	5	1
Statiren	90R708-16	Staaveren		Off.NL	1997	5	5	7	7	5	1	2	5	5	3	8	7	5	5	5	55D	9	1	1	4C-D	3	6	5	1	1	1	9
Statiren	90R708-16	Staaveren		Off.RSA	1999	7	5	5	6	5	2	1	5	7	6	8	7	7	5	7	51C	9	3	1	9D	7	5	6	1	7	5	1
Statiren		Zanten		Off.CA	2001	N/A	6	6	N/A	N/A	3	2	5	N/A	N/A	6	7	7	N/A	5	48A	9	2	1	3C	5	6	5	1	7	3	9
Statiren		Staaveren		Off.JP	1998	5	5		7	5	2		5	5	5	5	7	7	4	39D	9	1	2	158C	9	7	6		1	3		

Note: For Characteristics # 1, 4, 5, 9 and 10 marked N/A actual measurements have been taken ; characteristic #14 marked N/A has not been taken up in the guideline.

[Annex 2 follows]

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## ANNEX 2

Variety	Country Year of Testing	Char. 1 Stem: Length	Char. 8 Umbelbranches: number	Char. 9 Umbelbranches: Length	Char. 10 Pedicel: Length	Char. 11 Flower: Main color	Char. 12 Flower: Size	Char. 14 Outer tepal: Shape of blade	Char. 16 Outer tepal: Main color of inner side of blade (RHS colour)	Char. 16 Idem UPOV Color Group
Stabec	NL 1993	7	5	7	3	7	5	5	62 B-C	L. blue pink
Stabec	RSA1997	5	5	7	4	8	5	5	54C	Purple red
Stabec	CA 2001	-	5	-	-	6	7	-	54A	Purple red
Stabec	JP 1998	5	5	5	5	8	7	3	55A	Purple red
Stamond	NL 1993	9	5	5	3	1	7	3	155 D	White
Stamond	RSA1997	5	6	5	7	1	5	3	155 D	White
Stamond	CA 2001	-	5	-	-	1	7	-	155 D	White
Stamond	JP 1998	7	5	5	5	1	7	4	158 D	White
Staprilan	NL 1993	1	3	3	3	3	5	5	8 B-C	L. yellow
Staprilan	RSA1997	3	5	3	3	3	5	4	20A	Yell. orange
Staprilan	CA 2001	-	5	-	-	3	5	-	5C	Yellow
Staprilan	JP 2000	1	5	5	3	3	5	4	7D	Yellow
Staprinag	NL 1997	1	5	3	3	1	5	5	155 A	White
Staprinag	RSA1997	3	5	5	3	7	5	4	36 D	L. red pink
Staprinag	CA 2001	-	5	-	-	1	5	-	155 D	White
Staprinag	JP 2000	1	5	5	3	1	5	4	157 D	White

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Variety	Country Year of Testing	Char. 1 Stem: Length	Char. 8 Umbelbranches: number	Char. 9 Umbelbranches: Length	Char. 10 Pedicel: Length	Char. 11 Flower: Main color	Char. 12 Flower: Size	Char. 14 Outer tepal: Shape of blade	Char. 16 Outer tepal: Main color of inner side of blade (RHS colour)	Char. 16 Idem UPOV Color Group
Staprisis	NL1997	1	3	3	3	8	5	5	65 A-B	Blue pink/ L. blue pink
Staprisis	RSA1997	3	3	3	5	8	3	4	54 B	Purple red
Staprisis	CA2001	-	3	-	-	8	4	-	65 A	Blue Pink
Staprisis	JP2000	1	3	5	3	7	5	4	65 C	L. blue pink
Stasach	NL 1997	7	5	7	5	6	5	5	40 A	Red
Stasach	RRSA199	5	5	7	5	6	5	4	44 A	Red
Stasach	7	-	3	-	-	6	4	-	15 A	Yell.orange
Stasach	CA 2001 JP 1998	5	5	5	5	8	5	5	44 C	Red
Statiren	NL 1997	5	5	5	3	8	7	5	55 D	L.blue pink
Statiren	RSA1999	7	5	7	6	8	7	5	51 C	Red pink
Statiren	CA 2001	-	5	-	-	6	7	-	42 B	Red
Statiren	JP 1998	5	5	5	5	5	-	7	39 A	Orange red

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Variety	Country Year of Testing	Char. 18 Outer tepal:number of stripes on inner side of blade	Char. 20 Inner lateral tepal: main color of inner side of middle zone of blade	Char. 20 Idem UPOV Color group	Char. 22 Inner lateral tepal; size of stripes on inner side of blade	Char. 23 Stamens: main color of filament	Char. 25 Stamens: Color of anthers at the start of dehiscence	Char. 26 Pistil:anthocyanin coloration of ovary
Stabec	NL 1993	1	9 B	Yellow	5	6	1	1
Stabec	RSA1997	3	9 A	Yellow	5	6	1	5
Stabec	CA 2001	-	9 A	Yellow	5	7	7	5
Stabec	JP 1998	-	12 B	Yellow	7	6	7	3
Stamond	NL 1993	1	155 D	White	5	6	4	4
Stamond	RSA1997	5	155 D	White	5	6	7	3
Stamond	CA 2001	1	4 D	White	5	6	5	7
Stamond	JP 1998	1	158 C	L.yellow brown	7	6	7	3
Staprilan	NL 1993	1	9 A-B	Yellow	5	2	4	1
Staprilan	RSA1997	5	9 B	Yellow	3	2	4	1
Staprilan	CA 2001	3	12 A	Yellow	5	7	7	1
Staprilan	JP 1998	1	12 B	Yellow	5	2	4	1
Staprinag	NL 1997	1	4 A-B	Yellow	4	6	7	3
Staprinag	RSA1997	5	4 B	Yellow	3	6	7	3
Staprinag	CA 2001	3	2 B	Yellow	5	7	7	3
Staprinag	JP 2000	1	7 D	Yellow	5	6	5	1



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Variety	Country Year of Testing	Char. 18 Outer tepal:number of stripes on inner side of blade	Char. 20 Inner lateral tepal: main color of inner side of middle zone of blade	Char. 20 Idem UPOV Color group	Char. 22 Inner lateral tepal; size of stripes on inner side of blade	Char. 23 Stamens: main color of filament	Char. 25 Stamens: Color of anthers at the start of dehiscence	Char. 26 Pistil:anthocyanin coloration of ovary
Staprisis	NL1997	-	8 D	Light yellow	4	7	4	1
Staprisis	RSA1997	-	9 A	Yellow	5	6	4	1
Staprisis	CA2001	-	12 A	Yellow	5	7	7	1
Staprisis	JP2000	1	1 B	Yellow green	5	9	5	1
Stasach	NL 1997	-	40 A	Red	6	4	4	3
Stasach	RSA1997	-	44 A	Red	3	5	4	5
Stasach	CA 2001	-	15 A	Yellow orange	3	5	3	5
Stasach	JP 1998	-	44 C	Red	7	5	4	5
Statiren	NL 1997	1	4 C-D	Yellow green/ Light yellow	6	5	1	1
Statiren	RSA1999	3	9 D	Light yellow	5	6	7	5
Statiren	CA 2001	2	3 C	Yellow	6	5	7	3
Statiren	JP 1998	1	158 C	Light yellow brown	7	6	1	3

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