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THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION REPORT ON DAFFODILS

Dr. C. R. Johnson and J. H. Crawford of the Horticulture Department of the above-named Station at Clemson, South Carolina, have prepared a careful evaluation of 283 daffodils tested by them. The report, Research Series No. 127, bears the title *Daffodil Variety Evaluation Spring 1969* and was issued in February, 1970.

The bulletin furnishes information on the date of full bloom, the number of blooms produced, flower and stem measurements, and the date when the flowers fade. Of particular interest is the phrase in the report, "Did Not Survive", scattered through the tables. The figures showed a considerable mortality in the lc's, the 2c's, and the 2d's.

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Willis H. Wheeler

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DAFFODIL VARIETY EVALUATION

SPRING 1969

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By C. R. Johnson and J. H. Crawford 1

INTRODUCTION

Every year many new varieties of daffodils are introduced as the result of breeding and selection programs over the world. Before these new varieties can be established on the commercial market for a given area, they should be tested over at least a three year period. This is to determine if they are capable of adapting to local environmental conditions.

The daffodil plantings in this evaluation were established in the fall of 1966 and 1968 in the Clemson University variety trial gardens.

The purpose of the evaluation was to determine the varieties that can be successfully grown in the Southeastern United States and particularly in upper South Carolina.

METHODS AND MATERIALS

Two hundred and eighty-three daffodil varieties were observed in the spring of 1969. These had been planted in the gardens either in the fall of 1966 or 1968. In some cases there were bulbs of the same variety from each source. The bulbs were received from individual persons and bulb companies in cooperation with the American Daffodil Society.

ssistant Professor and Associate Professor of Horticulture, respectively.

1:

Planting. The gardens are located in an open area with no shade or wind protection. The beds are 10 feet wide and vary in length from 50 to 100 feet. The soil was basically a heavy clay that had been amended with both sand and organic matter. The beds were fumigated with methyl bromide several days prior to planting. The bulbs were placed about 1 foot apart and 6 inches deep in the soil.

 $\underline{\text{Growth}}$ $\underline{\text{records.}}$ Growth evaluations of all the daffodils were recorded as follows:

Variety name. Official name of the variety according to the Classified List and International Register of Daffodil Names, published bo The Royal Horticultural Society.

<u>Class.</u> The classification of the variety according to flower size and color standardized by <u>The Royal Horticultural Society.</u>

Quantity. The number of individual rosettes of foliage counted soon after most varieties had bloomed.

Stem length. The height in inches of the stem from ground level to the ovary at the base of the flower.

Stem strength. A visual observation rating of excellent, good, fair, or poor. Stems were rated excellent if all were standing straight or nearly so at full bloom. Badly listing or broken ones were rated lower.

 $\underline{Full} \ \underline{bloom}. \ \ \text{The date all or most of the flowers of}$ a sample were fully open.

Flower diameter. Measurement (in inches) made from petal tip on one side of a flower to the same on the opposite side when most of the blooms of a sample were fully open.

Trumpet length. Distance in inches from the position where the corona and perianth segments join to the tip of the corona

Number of blooms. The total number of flower stems per sample.

Flower fade. The date the flowers of a sample were no longer showy and began to wither or dry.

RESULTS

The measurements for varieties planted in fall 1966 are presented in Table 1. Results from varieties replanted in fall 1968 and from those newly established in 1968 are shown in Tables 2 and 3 respectively.

DIRCUSSION AND CONCLUSIONS

The data from the 1966 clanting point out daffodil varieties that can be successfully grown in the upper South Carolina or similar climatic regions. A number of varieties did not survive over this period of time, because they are not adapted to this part of the United States. The records from the 1968 plantings can be compared to those of previous years as a means of selecting hardy varieties which are adapted to the Southeastern United States.

The information recorded for each variety is of value to both the home and commercial gardener. Stem strength, for example, is indicative of general plant health and is directly related to a stem's ability to withstand spring wind and rain. Stem length, on the other hand, is of value for making a flower garden more attractive and interesting; the shorter and smaller-variety is planted in front of the taller and large variety.

Flower diameter and trumpet length indicates size and general shap of the flower need. The date of fade indicates the length of time a variety remains in bloom with a fresh and attractive appearance. One would choose varieties when planting a garden that vary not only in height, size, and blooming date, but also those which stay in bloom the longest period of time.

These data were recorded to be of value to the home or commercial flower gardener. The information gives insight as to the date of flowering, floriferousiness, stability of plant stems and general adaptability of several current popular daffodil varieties for culture in the Southeastern United States.

1:

Variety Name	Quantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Abolone	1	2b	E	16 1/4	3/30	4	1	4	4/9
Accolade	1	3b	G	16 1/2	4/9	3 1/8	1/4	Ĭ.	4/16
Algeciras	0	3b	Did Not	Survive			-/ -	-	4, 10
Alpine Eagle	2	7a	E	15 1/2	3/30	3 3/4	1 5/8	2	4/10
Amateur	5	3b	G	15 1/2	3/30	3 1/4	1/2	12	4/11
Angeline	3	3b	F	17 1/2	3/30	3	3/8	26	4/7
Arbar	2 .	2b	E	16 1/2	3/30	3 7/8	1/2	5	4/6
Artic Gold	2	la	E	16	3/30	3 1/4	1 1/2	8	4/6
Ardbane	0	2c	Did Not	Survive	2, 2	2 -1 4	/-		4/5
Ark Royal	2	la	G	17	3/30	4	1 1/2	4	11/6
Baby Doll	4	6a	G	10	3/30	2 3/4	1 1/4	10	4/7
Bayard	3	la	E	14 1/2	3/30	3 1/2	1 5/8	1	4/9
Bawn Boy	í	la	Did Not	Survive	51 50	7 -/-	1)/0	_	4//
Bizerta	3	2b	G	13	3/30	3 3/4	7/8	10	4/10
Border Chief	1,1	2a	E	18	3/30	4	5/8	20	4/7
Bunting	1	7b	E	12 1/4	4/4	2 1/4	3/8	8	4/9
Burnished Gold	1	la	G	12 1/2	3/30	3	1 1/2	2	4/6
Cantatrice		lc	Did Not	Survive	5, 5-		/-	-	4,0
Ceylon	2	2a	E	16 1/2	3/30	4	1	5	4/6
Charity May	6	6a	G	13	3/30	3 3/8	ì	19	4/9
Charter	2		Did Not	Produce Bu					4//
Chinith	1		G	13 1/2	4/1	2 1/8	1/8	2	4/11
Chula	4	la	E	18 1/2	3/30	3 3/4	1 1/2	16	11/6
Clonmare	1	2a	E	16	3/30	3 5/8	1 3/4	6	11/6
Court Martial	1	3c	E	18 1/2	3/30	4	5/8	4	4/15
Cushendall	. 2	4	G	13	4/16	2 1/2	1/8	4	4/19
aphne	6	2b	Did Not	Produce Bu	ds or Flo			•	4, 1,
Caviot	0	2Ъ	Did Not	Survive					
Dillenberg	. 6	2a	G	14 3/4	3/30	3 1/2	5/8	19	4/11
Ooue Wings	4	6a	G	14 3/4	3/30	2 3/4	7/8	10	4/11
ownhill	ī	3c	E	15 1/2	3/30	3 1/4	3/8	5	4/9
ragaman	2	3b	G	11 1/2	4/16	3 1/2	1/4	1	4/7
ream Castle	Ō	3c		Survive	4/10) 1/2	1/4	-	-
Intrancement	Li Li	1d	E	17	3/30	3	1 1/2	8	4/6

Table 1 continued.

Variety Mame	nantity	Class	Stem Strongth	Item Length inches	Full 31.	Diameter Bl. Inches	Trumpet Length inches	Number Pl.	Fade
	10	?a	7	19	3/30	3 1/2	1/2	21	11/14
Frie	2	3b	P	13	4/11	3	1./4	3	4/16
Tair Colleen	1	2;	E	16	3/30	4 1/2	1	lı	11/0
Far-well	2	?a	E	19 1/2	3/30	4 1/4	1 5/8	5	4/5
awnglo		7d	E	16	3/30	4 1/4	1	5	11/19
Festivity	1		E, E	13 3/4	11/9	3	3/9	2	4/11
Fogry Dew	1	3c		Survive	4/				
Forty Miner	0	ja .	G 750	16	3/30	4 3/3	1 1/2	7	4/7
Frolic	2	11.		Survive	3730	4 3/0	, -		
Galway	. 0	2a		Survive					
Gleeful	0	2d		16	3/30	3 1/2	1 1/2	6	4/6
Glen Shesk	2	lc	E		3/30	h	1 5/3	4	1/6
Godolphin	3	la	E	16 1/4	4/16	2 1/8	1/2	24	4/22
Golden Incense	4	7a	G	16	47.10	2 1/0	1/2	- 4	
Gossamer	0	3b		Survive	b/16	2	3/8	1	4/22
Greenhills	1	3b	Ε	15		3	3/4	9	4/11
Green Island	2	2b	E	16	3/30	4	5/4		4, 22
Halolight	0	2d		Survive	- /	0	1/8	1	1,/6
Halrose	1	-	G	10 3/4	3/30	2	1/0	1	4/0
Honey bird	0	ld		Survive	- 1	,	7 2/1.	9	4/11
Hunters Moon	3	la	E	14	3/30	4	1 3/4	7	4/11
Imagen	2	2b	E	17	3/30	4 1/4	1 5/8	1	4/11
Inglescomb	5	4	G	6	3/30	2 1/2	5/8	12	4/14
Inver	3	la	E	17 1/2	4/7	3 1/2	5/8	9	4/1
Irish Luck	2	la	E	16 1/2	3/30	3 1/2	1 1/2	7	4/1
Jezebel	0	3a	Did Not	Survive			- 10		4/9
Jubilation	2	2b	G	14 3/4	3/30	4 1/4	7/8	14	
Kings Court	. 3	la	E	15 1/2	3/30	3 7/8	1 5/8	10	4/7
King Fisher	í		E	13	3/30	3	1/4	33	4/19
Knowehead	Ō	2c	Did Not	Survive					1 /22
Late Sun	2	la	G	13	4/5	3 5/8	1 1/2	9	4/11
Le Beau	5	6a	G	13 1/2	3/30	3 1/2	7/8	13	4/6
Leitrum	9	2a	₹ × G	15 1/2	3/30	3 7/8	1 1/2	16 8	4/6

Variety Name	Quantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Lemnos	1	2a	G	13 1/2	3/30	3 1/4	7/8	14	4/7
Limeade	0	2d		Survive	<i>J</i> / <i>J</i> 0	J 1/4	170	4	47 (
Limone	5	la	E	18	3/30	3 1/2	1 5/8	10	4/6
Lough Erne	2	3b	G	16	3/30	3	1 3/4	3	4/19
Luna Moth	1	la	G	17	3/30	3 1/2	1 3/4	í	4/1
Lunar Sea	_	ld	Did Not	Survive	5, 50	2 -/ -	1 3/4	1	4/1
Mahee	2 .	la	G	12 1/2	3/30	3 1/2	1 1/2	1	4/10
Matador	2	8	G	15	3/30	2 1/8	1/8	5	4/10
Melody Lane	1	_	G	12 1/4	3/30	3 1/2	1 1/4	1	4/11
Merlin	2	3b	E	15	3/30	3 1/4	1/4	3	4/11
Milanion	7	la	G	15	3/30	3 1/2	1 5/8	17	4/19
Moon Dance	1	3c	E	15	3/30	3 1/4	1/4	2	4/9
Moon Goddess	2	-	E	19	3/30	4	1 3/4	7	4/5
Moonlight Sonata	ì	ld	G	13	4/1	3	1 1/4	í	4/14
Moonshot	า	-	G	17 1/2	3/30	Į.	1 5/8	3	4/7
Moonstruck	ī	la	E	17 1/2	3/30	4 1/2	2 1/8	5	4/5
Mullato	Ĺ.	la	G	17 1/2	3/30	3 1/4	1 1/2	7	4/4
Nampa	i	ld	E	15	3/30	3 1/2	1 3/4	2	4/4
Nazareth	2	2b	G	17	3/30	3	1	6	4/6
Newcastle	c	lb		Survive)/ JO	,	-	0	4/0
Olivet	2	2c	G	20 1/4	3/30	3 3/8	7/8	8	4/7
Ormean	1	2a	Ğ	14	3/30	4 1/4	1 5/8	2	4/1
Orrissa	2	3a	Ğ	17 1/2	3/30	3 1/4	1/4	7	4/9
Parigutin	2	_	G	15	3/30	3 3/4	5/8	4	4/9
Passionale	2	2b	E	12 1/2	3/30	3 3/4 4	1 1/4		
Pastorale	0	2d	-	Survive	3/30	4	1 1/4	3	4/14
Peeping Tom	6	óa	E E	16	3/30	3	1 3/8	23	1.76
Persuasion	i	- -	E	12 1/4	3/30	3 5/8	3/8		4/6
Pink Chiffon	2	14	E	17 1/2	4/6	3 1/2	1/2	1 6	4/9
Pipit	1	7b	E	15 1/2	4/6	2 3/8	1/2	1.8	4/11
Pontresina	0	2b		Survive	4/0	2 3/0	1/2	10	4/16
Pres. Lebrum	12	1b	E E	16 1/2	3/30	3 3/4	1 5/8	07	1 /2
Prospero	2	3b	E	15	3/30	3 1/4	1/4	21	4/7
	-	30	L	-)	3/30	2 1/4	1/4	L	4/11

Table 1 continued

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Variety Name	uantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Purity	3	2c	Did Not	Survive					
Rashee	0	lc	Did Not	Survive					111
Rima	1	1b	G	15 1/2	3/30	3 7/8	1 1/2	4	4/6
Rinsev	0	3c	Did Not	Survive					1 /2
Royal Oak	2	la	E	17	3/30	3 1/2	1 1/2	3	4/7
Rush Light	1	2d	Did Not	Produce Bud			10		1/11
Salmon Trout	1	2°c	E	13 1/2	3/30	4 3/8	1 3/8	1	4/11
Scarlet Gend	1	6	G	9 1/2	4/11	1 3/4	1/4	2	4/15
Sheppy	6	la	G	17	3/30	3 1/2	1 3/8	12	4/ (
Slieve Boy	0	3	bid Not	Survive			10	11	4/4
St. Keverne	2	2a	E	22	3/30	3 3/4	1 3/8	11	4/16
Suzy	2	. 76	G	14	4/4	2 1/2	1/4	6	4/10
Tamino	10	2a	G	14	4/4	3 3/4	1/2	14	4/11
Trostan	lı	16	E	15	4/4	3 3/4	1 5/8	6	4/11
Ulster Prince	?	la	G	18	3/30	4	2	7	
Verdin	1	70	G	14 3/4	4/12	2 1/2	1/2	6	4/11
Vigil	1	la	E	15	3/30	4	1 3/4	3	4/9
Viking	1	1.c	E	16 1/2	3/30	4	1 1/2	2	4/7
Vulcan	į.	2a	Did Not	Survive					
Wedding Gift	0	_	Did Not	Survive					
White Spire	Ö	°c ·	Did Not	Survive					111
Woodcock	2	6a	E.	16	3/30	4	1 1/2	8	4/6

Variety Name	uantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Actaea	6	9	E	14	4/1	3 1/2	1/4	5	4/7
Alamein	7	2a	G	10	4/1	2 3/4	3/4	6	4/7
April Tears	6	5Ъ	E	2	4/9	2	1/4	5	4/17
April Showers	8	2b	E	10 1/4	4/9	4	1/2	15	4/7
Aspasia	8	8	E	11	4/1	2 1/4	1/8	8	4/9
Ave	7	2c	G	10 1/2	4/1	3 3/4	1/2	11	4/4
Beaucaillou	8	26	E	13	4/1	3 1/2	1/2	12	4/7
Ben Hur	8	la	G	11 1/2	4/1	3 1/2	1/2	6	4/7
Beryl	1	6ъ	G	8	4/1	2	1/2	1	4/4
Biflorus	6	10	G	10	4/20	1 1/2	1/8	5	4/30
Bodilly	2	2b	G	12	4/20	4	1/2	3	4/30
Bolton	5	7b	G	10	4/20	3 1/2	3/4	9	4/30
Brightwork	7	3b	G	9 3/4	4/1	2 1/2	1/4	8	4/4
Brookville	7	2b	E	11	4/1	3 1/2	3/4	6	4/1
California Gold	8	2a	G	14 1/2	4/1	3	1/2	9	4/1
Caneton	7	?	G	12 1/2	4/1	3	1	10	4/1
Carol'na	7	3b	E	11	4/6	2	1/4	6	4/13
Charmant	8	3b	G	11	4/6	4	1/2	12	4/3
Cheerio	8	2a	G	14	4/6	4	1/2	12	4/3
Chinese White	7	3c	E	10 1/2	4/7	3	1/4	9	4/9
Chinook	6	2b	G	13 1/2	4/7	3 1/2	3/4	15	4/2
Clackamas		2b	E	12	4/7	3 3/4	1/2	3	4/6
Clock Face	5 8	3b	E	13	4/8	3 1/2	1/8	10	4/14
Coloratura	7	3b	E	7	4/4	3	1/2	4	4/11
Cornet	8	6а	G	iı	4/2	3 1/2	3/4	12	4/11
Coverback Perfectio	n 5	25	F	11	4/2	3 1/4	3/4	7	4/11
Cragford	7	8	G	11	4/2	3 1/2	1/4	8	4/1
Crush Lake	6	3c	Ē	7	4/5	3	1/4	9	4/14
Dreamlight	6	3b	G	13	4/8	2 1/2	1/8	8	4/16
Dew Pond	5	2c	Ū.	8	4/4	3 3/4	3/4	3	4/14
Earl Winterton	8	2a	E	14 1/2	4/4	3 1/2	î	15	4/14
Elgin	8	la	E	13 1/2	4/4	3 1/2	1 1/2	13	4/14
Fireproof	7	2a	E	13	4/4	3 1/2	3/4	8	4/14
Flying Saucer	8	2b	G	13	4/4	4	3/4	12	4/4

Table 2 continued

Variety Name	Quantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Foresight	5	lb	E	11	4/4	1	2.20		
Forfar	6	3b	G	12		14	1 1/4	5	4/4
Geranium	6	8	E	10	3/31	3	1/4	7	4/4
Bloria	6	lc	G	11	4/4	2 1/4	1/4	4	4/9
old Digger	8	la	G	11	4/4	2 1/4	1 1/2	3	4/9
olden Torch	8	2a	E	11 1/2	4/4	3	1/2	8	4/9
olden Torch	8	2a	E		4/4	4	1 1/2	11	4/9
olden Riot	8	la	G	13 1/2 10	4/4	3 1/4	1	12	4/9
olden Triumphato	5	22	G	9 1/2	3/31	2	1/4	7	4/11
racilus .	7	10	£	12	3/31	3	1/2	13	4/11
ratia	8	2b	Ē		3/31	1 1/4	1/8	8	4/17
reenland	6	- 2c	Ē	12 10	3/31	4	3/4	11	4/1
amzalic	5	3b	G		4/1	3 1/2	1	8	4/6
arvester	8	la	E	10 1/2	4/1	3 3/4	1 1/4	7	4/7
ollywood	5	2a	E	13 1/2	4/1	3 3/4	2	12	4/7
omefires	6	2a	Ē	11	4/1	3 3/4	2	12	4/7.
ugh Paote	8	2a	Ğ	14	4/1	3 1/2	1	7	4/1
mperator	6	1c	E	11 1/4	4/1	3	3/4	8	4/1
nsulinde	8	lı lı	G	10 1/2	4/2	3 3/4	3/4	7	4/8
nterim	ì	2bp	G	11	4/2	3	3/4	10	4/4
schia	7	2bp 2b	G	9	4/2	3 1/4	3/4	1	4/4
sola	7	3b	G		4/5	3 1/4	1/2	6	4/9
ilbride	8	2a.	r.	11	4/1	2 3/4	1/4	5	4/12
ilworth	7	2b	Ę	12	4/3	4	3/4	5	4/6
ing of the North	8	la	Ē	12 1/2	4/1	4	3/4	12	4/14
ady Kesteven	6	3b		11	4/1	4	1 3/4	6	4/14
ebanon	7	30 2b	G	9 1/2	4/1	4	1/2	5	4/7
emon Heart	8	20 5a	G	14	4/1	4	3/4	9	4/7
emstar	8	la	-	8	4/1	3	1	12	4/8
inn	7	2b	E	11	4/1	3	1 1/2	5	4/8
Asbreen	8	2bp	E .	12 1/2	4/1	3 3/4	1	14	4/8
The state of the s	A service of		G	9 1/4	4/1	3 1/4 3 1/4	1 1/8	8	4/8

Variety Name	Quantity	Class	Stem Strength	Stem Length inch@s	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number Bl.	Fade
Matapan	6	3b	G	9 1/2	4/2	3 1/4	1/4	6	4/7
Mendel	7	2a	E	9	4/2	4/12	1 1/2	7	4/4
Merapi	8	2a	G	11	4/2	3 1/4	3/4	8	4/4
Moon Shihe	3	5a	_	11	4/2	3 1/4	3/4	0	4/4
Mrs. A.N. Pearson	8	8	E	8	4/2	2 1/2	1/4	11	4/4
Mt Hood	.7	le	E	9	4/3	3 1/2	1 1/2	7	4/9
Narvik	. 8	2a	E	15	4/3	3 3/4	3/4	12	
Nim	4	2b	G	12 1/2	4/3	3	3/L	12	4/9
Orange Lace	8	2b	E	7	4/3	3 1/2	3/4		4/1
Orange Glory	7	6a	G	10 1/2	4/3	3 1/2	1	9	4/4
Pearly Queen	6	5a	G	9	4/3	2 1/2		2	4/4
Pigeon	3	2c	E	10	4/3		3/4	9	4/4
Pink Favorite	8	2bp	E	9	4/3	3 3/4	1 1/4	3	4/8
Pink Lace	7	2b	G	9	4/4	3 1/4	1	11	4/8
Pinwheel	3	2a	G	11		3 1/2	1 1/4	7	4/7
Playboy	3	2a	Ē	9 1/2	4/4	3 1/2	3/4	3	4/7
Portrush	6	3c	E	8	4/2	3 1/2	3/4	3	4/5
Pride of Holland	_	8		Survive	4/10	3	1/4	6	4/17
Pulvius	7	2a	E E	ll	1/20				
Red Bird	6	2b			4/10	4	1 1/4	8	4/17
Red Devon	6	20 2a	G	9 1/2	4/1	3 1/4	3/4	7	4/7
Red Guard	7	2a 8	E	12 1/2	4/1	3 1/4	3/4	7	4/7
Ped Hackle	7	2b	G	10	4/1	2 3/4	1/2	6	4/3
Red Riband	7	20 2a	E E	6	4/5	3	1/2	7	4/11
Roman Star	8			12	4/5	3 1/2	3/4	9	4/11
Rossmore		3a	G	14	4/9	2 1/2	1/8	6	4/13
Rouge	3	2a	G	13	4/9	2 1/2	1	2	4/13
Royal Crown	6	2a		Survive					
Rustom Pasha		2a	E	11 1/2	4/9	2 1/2	1	16	4/13
Santiam	8	2 a.	G	12	4/9	2 1/2	3/4	9	4/13
	8	2a	E	15	4/9	2 1/2	3/4	11	4/13
Scarlet Leader	7	2a	G	11	4/9	3	1/2	8	4/13
Selma Lagerloff	7	26	G	14	4/9	3 3/4	1/2	13	4/13
Shirley Temple	4	4	G	10	4/9	3 1/2	î	3	4/7
Silver Chimes	14	8	E	5	4/2	2	1/2	6	4/15

Table ? continued

Man Carl Sanger Balon

Variety Mame	Cuantity	Class	Stem Strength	Stem Length inches	Full Bl.	Diameter Bl. inches	Trumpet Length inches	Number	Fade
Sincerity	7	lb	E	10	4/3	3	1 1/2	10	4/12
Soundness	2	1b	E	12	4/3	3	1 1/2	2	1,/12
t. Egwin		2a	Did Not	Survive					
t. Issey	8	2a	E	13	4/3	3	1 1/4	6	4/12
St. Louis	5	3b	G	8	4/5	4 1/4	1/4	4	4/9
Stoke	7	5a	G	10	4/1	2 3/4	1/2	8	4/5
Sweetness	8	7a	G	11	11/1	2	3/4	21	4/5
arzan	3	2b	E	12 3/4	4/1	3	1/2	14	4/5
Thalia	8	5a	E	8 1/2	4/1	3	3/4	8	4/7
linker	8	2a	G	13	4/1	3 1/4	1	11	4/7
l'resamble	7	5a	G	11	4/1	3 1/2	3/4	6	4/8
Jlster Prince	10	la	E	9	4/1	3 1/2	1 3/4	10	4/8
Jnsurpassable	2	la	G	12 1/2	4/1	3 1/2	1 3/4	1	4/8
Valencia	8	4	E	10	4/11	2	Double	9	4/14
hite Lion	6	1,	G	12 1/2	4/11	3 1/2	1/2	7	4/8
White Marvel	5	4	E	9	4/7	2 3/4	1/2	5	4/15
White Pearl	3	3	G	9	4/7	1 1/4	1/8	13	4/1
Villiamette	8	25	G	13	4/7	3	1/2	1.C	4/1
Vorlds Favorite	7	?	E	11	4/7	3 1/2	1 1/2	1,	4/2
ankee Clipper),	2a	G	15	4/7	3 1/2	1 1/2	6	4/2
ellow Cheerfulness	6	l _i	E	10	4/10	1 1/4	1/2	1	1/17
ircon	7	25	G	13	-	4 1/4	1 1/4	12	4/17

TABLE 3

Variety Name	Quantity	Class	Stem Strength	Stam Length inches	Full Bl.	Diameter Bl. Inches	Trumpet Length inches	Number Bl.	Fade
Accent	3 5	2b	Е	12 1/2	4/2	4	1	9	4/7
Aircastle	5	3b	E	14	4/2	4 1/2	1/2	11	4/9
Ingeles	7	-	G	15	4/2	3 3/4	3/4	11	4/9
Artic Doric	8	-	E	14	4/2	4 1/4	1 1/4	18	4/7
Bethany	3	2d	E	13	4/2	3 1/2	1 1/4	4	4/9
Sobolink	4	2b	E	15 1/2	4/2	3 1/2	1/2	8	4/9
ridal Crown	10	4	E	13 1/2	4/2	1 3/4	1/2	20	4/11
russels	2	lc	E	12	4/2	3 3/4	1 3/4	5	4/7
adence	0	3b		Survive	4/ -	2 2/4	1 3/4	,	471
arita	4	2b	G	15	4/2	3 3/4	1	13	4/7
ascade	2	_	E	10 3/4	4/3	3 1/2	1/2	3	
ocktail	7	2d	E	15	4/3	3 1/4	1 1/2	22	4/13
allas	9	3c	E	10	4/9	3 1/4	1/4	9	4/13
aydream	5	2d	G	13	4/9				4/17
rigid	í	3c	E	13 1/2	4/9	3 3/4	1 1/4	14	4/6
antara	0	lc		Survive	4/9	3 1/2	1/2	4	4/7
asota	2	7b	E E	11 1/2	1.70	•	- 4		
iberty Bells	5	5a	E	8	4/3	2	1/4	10	4/7
ittle Witch	9	6a	E	***	4/3	3	1	11	4/13
atador	1.	8		9	4/3	3	1	31	4/13
atlock	4		E		4/3	1 3/4	1/8	7	4/13
oonmist	5	2a	G	15 1/2	4/3	1 3/4	3/4	6	4/13
	4	la	E	12	4/3	1 3/4	3/4	12	4/13
rimrose Cheerful	nessIO	4	E	11	4/1	1 3/4	1/2	20	4/9
ristine	1	-	E	15	4/1	4 3/4	1	5	4/9
adiation ,	6	2b	E	18	4/1	4 1/4	1 1/4	16	4/10
edstart	7	3b	E	13 1/2	4/1	4	1/2	17	4/9
eltan	4	2Ъ	E	13 1/4	4/1	4 1/4	1 1/4	13	4/10
tatue .	-	2b	Did Not	Survive					.,
incleton	5	5Ъ	E	20 3/4	4/4	2 3/4	1/2	9	4/9
onto	6	3b	E	13 3/4	4/2	3 3/4	1/2	12	4/7
reasure	7	2a	G	9 1/2	4/2	3 1/2	1 1/2	5	4/6
igil	9	lc	G	14	4/2	4	1 3/4	17	4/5
edding Gift	6	-	E	13	4/2	lı	1 1/2	12	4/9
oodlea	7	lb	G	14 1/2	4/2	3 1/2	1 1/4	1.4	4//