## 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 2 c 's, and the 2 d 's.

Anyone wishing to read this report may request its loan from the ADS Library under the care of the Executive Director, George S. Lee, Jr., 89 Chichester Road, New Canaan, Conn. 06840.

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## DAFFODIL VARIETY EVALUATION

 SPRING 1969By C. R. Johnson and J. H. Crawford ${ }^{I}$

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 comercial 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 varity from each source. The bulbs were received from individual persons d bulb companies in cosperation with the American Daffodil Society. 1:

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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.

Growth 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 b* The Royal Horticultural Society.

Class. The classification of the variety according t) flower size and color standardized by The Royal Horticultural Society.

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 blow. Badly listing or broken गnes were rated lower.

Full bloom. The date all or most of the flowers of a sample were fully open.

Flower diameter. Measurement (in inches) made 4) 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 cor

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 l. Results from varieties replanted in fall 1968 and from those newly established in 1968 are shown in Tables 2 and 3 respectively.

The daia from the l9ób lantir. f point out daffodil varieties that can be succesif lly grown in the upper South Carolina or similar climatic regions. A number of varieties did not survive over this period of time, terause they are not adapted to this part of the United States. The records from the 1968 plantings can be compared to those of previous $\because e a r s$ as a means of selecting hardy varieties which are adasted to the So.t.:eastern United States.

The informatioz recorded for each variety is of value to both the nome and comercial gardener. Stem strength, for example, is indicativi ว $\hat{i}$ general plant nealt! and is directly related to a stem's ability to withstand soring wind ant rain. Stem length, on the other hand, is of vai.e for naxinp a llwer garder more attractive and interesting; the shorter and smaller variety is planted in front of the taller and large: varietそ。

Flower dianoter and trumpet length indicates size and general shap ग: the fiswer nesi. The date of fade indicates the length of time a variety remair.i in tlon with a fresn and attractive appearance. One would roose varieties when planting a garden that vary not only in heirit, size, a.l? ! iomint diste, cut also those which stay in blom the lonzost perior of time.

[^1]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, staivility of plant stems and general adaptability of several current popular daffodil varieties for culture in the Southeastern United States.

| Varlety Name | Quantity | Class | Stem Strength | Stem Length inches |  | $\begin{gathered} \text { Full } \\ \text { B1. } \end{gathered}$ | Diameter B1. inches | Trumpet <br> Length <br> inches | Number Bl. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Abslone | 1 | 2 b | E | $161 / 4$ |  | 3/30 | 4 | 1 | 4 | 4/9 |
| Accolade | 1 | 3 b | G | 16 1/2 |  | 4/9 | $31 / 8$ | 1/4 | 4 | 4/16 |
| Algeciras | 0 | 3 b | Did Not | Survive |  |  |  |  |  |  |
| Alpine Eagle | 2 | 7 a | E | $151 / 2$ |  | 3/30 | $33 / 4$ | $15 / 8$ | 2 | 4/10 |
| Amateur | 5 | 3 b | G | 15 1/2 |  | 3/30 | $31 / 4$ | 1/2 | 12 | 4/11 |
| Angeline | 3 | 3 b | F | 17 1/2 |  | 3/30 | 3 | 3/8 | 26 | $4 / 7$ |
| Arbar | 2 | 2 b | E | $161 / 2$ |  | 3/30 | $37 / 8$ | 1/2 | 5 | L/6 |
| Artic Sold | 2 | $1 a$ | E | 16 |  | 3/30 | $31 / 4$ | $11 / 2$ | 8 | 4/6 |
| Ardbane | 0 | 2 c | Did Not | Survive |  |  |  |  |  |  |
| Ark Royal | 2 | 1 a | G | 17 |  | 3/30 | 4 | $11 / 2$ | 4 | L/6 |
| Baby Doll | 4 | 6a | G | 10 |  | 3/30 | $23 / 4$ | $11 / 4$ | 10 | 4/7 |
| Rayard | 3 | 1 a | E | $141 / 2$ |  | 3/30 | $31 / 2$ | $15 / 8$ | 1 | 4/9 |
| Pawn Boy | 1 | 1a | Did Not | Survive |  |  |  |  |  |  |
| 3izerta | 3 | 2 b | G | 13 |  | 3/30 | $33 / 4$ | 7/8 | 10 | L/10 |
| Border Chief | 1 | 2 a | E | 18 |  | 3/30 | 4 | 5/8 | 20 | 1/7 |
| Bunting | 1 | 7 b | E | 12 1/4 |  | 4/4 | $21 / 4$ | 3/8 | 8 | $4 / 9$ |
| Rurnished Gold | 1 | la | G | $121 / 2$ |  | 3/30 | 3 | $11 / 2$ | 2 | 4/6 |
| Cantatrice |  | 1 c | Did Not | Survive |  |  |  |  |  |  |
| Ceylon | 2 | 2 a | E | 16 1/2 |  | 3/30 | 4 | 1 | 5 | 4/6 |
| Charity May | 6 | 6 a | G | 13 |  | 3/30 | $33 / 8$ | 1 | 19 | 4/9 |
| Charter | 2 |  | Did Not | Produce | Buds | or Flo |  |  |  |  |
| Chinith | 1 |  | G | $131 / 2$ |  | $4 / 1$ | $21 / 8$ | 1/8 | 2 |  |
| Chula | 4 | 1 a | E | $18 \mathrm{l} / 2$ |  | 3/30 | 3 3/4 | $11 / 2$ | 16 | $4 / 6$ |
| CJ.onmare | 1 | 23 | E | 16 |  | 3/30 | $35 / 8$ | $13 / 4$ | 6 | $1 / 6$ |
| Court Nartial | 1 | 3 c | E | $181 / 2$ |  | 3/30 | 4 | $5 / 8$ | 4 | $4 / 15$ |
| Cushendall | 2 | 4 | G | 13 |  | 4/16 | $21 / 2$ | 1/8 | 4 | 4/19 |
| "aphne | 6 | 2 b | Did Not | Produce | Buds | or Flo |  |  |  |  |
| Paviot | 0 | 2 b | Did Not | Survive |  |  |  |  |  |  |
| Dillenberg | 6 | 2 a | G | $14.3 / 4$ |  | 3/30 | $31 / 2$ | 5/8 | 19 | 4/11 |
| Toue vings | 4 | 6a | G | 14, 3/4 |  | 3/30 | $23 / 4$ | 7/8 | 10 | 4/6 |
| Nownhill | 1 | 3c | E | $151 / 2$ |  | 3/30 | $31 / 4$ | 3/8 | 5 | 4/9 |
| Dragaman | 2 | 3 b | G | 11 1/2 |  | 4/16 | $31 / 2$ | 1/4 | 1 | - |
| Iream Castle | 0 | 3 c | Did Not | Survive |  |  |  |  |  |  |
| Entrancement | 4 | 1 d | E | 17 |  | 3/30 | 3 | $11 / 2$ | 8 | 4/6 |

rable 1 corntinued.

| Variety : $:$ ame | : ar aritity | Cl-ss | $\begin{gathered} i \in!n \\ \therefore i m, \& t h i \end{gathered}$ | $\begin{aligned} & \text { Sen } \\ & \text { inchesth } \end{aligned}$ | $\begin{gathered} \text { Ful] } \\ 31 . \end{gathered}$ | ": iancter l. nches | ?rumpet <br> Lencth <br> incles | Number <br> Pl. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\because$ | 19 | 3/30 | $31 / 2$ | 1/2 | $21$ |  |
| Crie ${ }_{\text {colleer }}$ | 2 | 3 l | $\bigcirc$ | 73 | L/11 | 3 | $1 / 1 / 4$ | $3$ | $\begin{aligned} & 4 / 10 \\ & 4 / 0 \end{aligned}$ |
| Par-vell | 1 | $2 \%$ | E | 16 | 3/30 | $41 / 2$ |  | 4 | 1/9 |
| "awnelo | 2 | !a | $\pm$ | $1 / 1 / 2$ | 3/30 | $41 / 4$ | $15 / 8$ | 5 | l/1/19 |
| Festivity | 1 | $\therefore$ | \% | 16 | 3/30 | ${ }_{2}^{4} 1 / 4$ |  | 2 | 4/11 |
| Pegey Dew | 1 | 3 c | $\stackrel{\sim}{4}$ | 13 3/4 | 4/9 |  | 3/3 |  |  |
| Frrty :"iner | $\rho$ | a | Dic シ | Survive |  | $1.3 / 3$ | $11 / 2$ | 7 | L/7 |
| Frolic | ? | 1. | G | 16 | 3/30 | $4.3 / 0$ | $11 / 2$ |  |  |
| galway | 0 | 2 a | Did N | Survive |  |  |  |  |  |
| 3leeful | 0 | 2 d | $\mathrm{Di}_{\mathrm{E}}$ Did | Survive |  |  |  | 6 | 4/6 |
| Glen Shesk Godolohin | 2 | lc | E | 16 15 16 | $3 / 30$ $3 / 30$ | ${ }_{4}^{3} 1 / 2$ | 1 $5 / 3$ | 4 | 4/6 |
| Godolohin Golden Incense | 4 | la | E | 15 16 | 4/16 | $21 / 8$ | $1 / 2$ | 24 | $4 / 22$ |
| Golden Incense | 4 | 7a | Did N | Survive | $4 / 16$ | $21 / 8$ |  |  |  |
| Gossamer | , | 3b | E | 15 | 4/16 | 3 | 3/8 | 1 | 4/22 |
| Green Island | 2 | 2 L | E | 16 | 3/30 | 4 | 3/4 | 9 | 4/11 |
| Halolight | 0 | 2 d | Did N | Survive |  |  | 1/8 | 1 | 4/6 |
| Halrose | 1 | - | G | 10 3/4 | 3/30 | $?$ | 1/8 | 1 | 4/6 |
| Honey bird | 0 | 1 d | Did N | Survive |  | 4 | $13 / 4$ | 9 | 4/11 |
| Hunters Moon | 3 | 1 la | E | 14 | $3 / 30$ $3 / 30$ | $41 / 4$ | $15 / 8$ | 7 | 4/9 |
| Imogen | 2 | 2 b | E | ${ }_{6}$ | 3/30 | $21 / 2$ | 5/8 | 1 | 4/21 |
| Inglescomb | 5 3 | $\stackrel{4}{1}$ | G | 6 17 $1 / 2$ | $4 / 7$ | $31 / 2$ | 5/8 | 12 | $4 / 14$ |
| Inver | 2 | 12 | E | $161 / 2$ | 3/30 | $31 / 2$ | $11 / 2$ | 9 | $4 / 1$ |
| Jezebel | 0 | 3 a | Did N | Survive |  |  |  |  |  |
| jubilation | 2 | 2 b | G | 14 3/4 | 3/30 | $41 / 4$ | 7/8 |  | 4/9 |
| Kines Court | 3 | 1a | E | $151 / 2$ | 3/30 | $37 / 8$ | $15 / 8$ | 10 | 4/7 |
| King Fisher | 1 | - | E | 13 | 3/30 | 3 | 1/4 | 33 |  |
| Knowehead | 0 | 2c | Did N | Survive |  |  |  |  |  |
| Late Sun | 2 | 1a | G | $131 / 2$ | $4 / 5$ $3 / 30$ | 3518 $31 / 2$ |  | 13 | $4 / 6$ |
| Le Beau | +r9 | $\begin{array}{r}\text { ba } \\ \hline 2 \mathrm{a}\end{array}$ | G | +13 1/2 | $3 / 30$ $3 / 30$ | $31 / 8$ 3 | 1. $1 / 2$ | 16 | $\mathrm{L} / 6$ |
| ~- | $\bigcirc$ | 1. | n | 15. | 3/30 | $31 / 2$ | $13 / 4$ | 8 | 4/6 |


| Variety Name | Quantity | Class | Stem Strength | Stem <br> Length <br> inches | Full B1. | Diameter Bl. inches | Trumpet Length inches | Number | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lemnos | 1 | 2 a | G | $131 / 2$ | $3 / 30$ | $31 / 4$ | 7/8 | 4 | 4/7 |
| Limeade | 0 | 2d | Did Not | Survive |  | $31 / 4$ | $7 /$ | 4 | $4 / 7$ |
| Limone | 5 | 1 a | E | 18 | 3/30 | $31 / 2$ | $15 / 8$ | 10 | 4/6 |
| Lough Erne | 2 | 3b | G | 16 | 3/30 | 3 | $13 / 4$ | 3 | L/19 |
| Luna Moth | 1 | la | G | 17 | 3/30 | $31 / 2$ | $13 / 4$ | 1 | $4 / 1$ |
| Lunar Sea | - | 1 d | Did Not | Survive |  |  |  |  |  |
| Mahee | 2 | 1 a | G | 12 1/2 | 3/30 | $31 / 2$ | $11 / 2$ | 1 | 4/10 |
| Matador | 2 | 8 | G | 15 | 3/30 | $21 / 8$ | 1/8 | 2 | 4/7 |
| Melody Lane | 1 | - | G | 12 1/4 | 3/30 | $31 / 2$ | $11 / 4$ | 1 | $4 / 11$ |
| Merlin | 2 | 3b | E | 15 | 3/30 | $31 / 4$ | 1/4 | 3 | 4/19 |
| Milanion | 7 | 1 a | G | 15 | 3/30 | $31 / 2$ | $15 / 8$ | 17 | 4/9 |
| Moon Dance | 1 | 3 c | E | 15 | 3/30 | $31 / 4$ | 1/4 | 2 | 4/9 |
| Moon Goddess | 2 |  | E | 19 | 3/30 | 4 | $13 / 4$ | 7 | 4/5 |
| Noonlight Sonata | 1 | Id | G | 13 | 4/1 | 3 | $11 / 4$ | 1 | $4 / 14$ |
| Moonshot | 1 | - | G | 17 1/2 | 3/30 | 4 | $15 / 8$ | 3 | 4/7 |
| Moonstruck | 1 | 1 a | E | 17 1/2 | 3/30 | $41 / 2$ | $21 / 8$ | 5 | $4 / 5$ |
| Mullato | 4 | la | G | 17 1/2 | 3/30 | $31 / 4$ | $11 / 2$ | 7 | 4/4 |
| Nampa | 1 | 1 d | E | 15 | 3/30 | $31 / 2$ | $13 / 4$ | 2 | 4/6 |
| Nazareth | 2 | 2 b | G | 17 | 3/30 | 3 | 1 | 6 | 4/6 |
| Newcastle | c | 1b | Did Not | Survive |  |  |  |  |  |
| Olivet | 2 | 2 c | G | 20 1/4 | 3/30 | 3 3/8 | 7/8 | 8 | L/7 |
| Ormeau | 1 | 2 a | G | 14 | 3/30 | $41 / 4$ | $15 / 8$ | 2 | 4/9 |
| Orrissa | 2 | 3 a | G | 17 1/2 | 3/30 | $31 / 4$ | 1/4 | 7 | 4/9 |
| Parigutin | 2 | - | G | 15 | 3/30 | $33 / 4$ | 5/8 | 4 | 4/9 |
| Passionale | 2 | 2 b | E | $12 \mathrm{l} / 2$ | 3/30 | 4 | $11 / 4$ | 3 | $4 / 14_{4}$ |
| Pastorale | 0 | 2d | Did Not | Survive |  |  |  |  |  |
| Peeping Tom | 6 | 5a | E | 16 | 3/30 |  | $13 / 8$ | 23 | 4/6 |
| Persuasion | 1 | , | E | $121 / 4$ | 3/30 | $35 / 8$ | 3/8 | 1 | 4/9 |
| ?ink Chiffon | 2 | 4 | E | 17 1/2 | 4/6 | $31 / 2$ | 1/2 | 6 | 4/11 |
| Pipit | 1 | 7 b | E | 15 1/2 | 4/6 | $23 / 8$ | 1/2 | 18 | $4 / 26$ |
| Pontresina | 0 | 2 b | Did Not | Survive |  |  |  |  |  |
| Pres. Lebrum | 12 | 1 b | E | $161 / 2$ | 3/30 | $33 / 4$ | $15 / 8$ | 21 | $4 / 7$ |
| Prospero | 2 | 3 b | E | 15 | 3/30 | $31 / 4$ | 1/4 | 4 | 4/11 |

Table 1 contirued

| Variety Name | uantity | Slass | Stem strength | Stem Length inches |  | $\begin{aligned} & \text { Full } \\ & 31 . \end{aligned}$ | Diameter 31. <br> inches | Trumpet <br> Length <br> inches | Number Bl. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Purity | $J$ | 2 c | Did Not | Survive |  |  |  |  |  |  |
| Rashee | 0 | 1 c | Did Not | Survive |  |  |  |  |  |  |
| Rima | 1 | 1 b | G | $151 / 2$ |  | 3/30 | $37 / 8$ | 1 1/2 | 4 | 4/6 |
| Rinsey | 0 | 3c | Did Not | Survive |  |  |  |  |  | $4 / 7$ |
| Royal Jak | 2 | 1 a | E | 17 |  | 3/30 | $31 / 2$ | $11 / 2$ | 3 | $4 / 7$ |
| Rush Light | 1 | 2 d | Did Not | Produce | Buds | or Fl | rs $3 / 8$ |  |  | 4/11 |
| Salmon Trout | 1 | 20 | E | $131 / 2$ |  | $3 / 30$ $4 / 21$ | $\begin{aligned} & 4 \\ & 1 \\ & 1\end{aligned} 3 / 4$ | 1/4 | 2 | 4/16 |
| Scarlet Gerl | 7 | ? | G | $91 / 2$ |  | 4/21 | $\begin{array}{ll}1 & 3 / 4 \\ 3 & 1 / 2\end{array}$ | $13 / 8$ | 12 | $4 / 7$ |
| Sheppy | 6 | 14 | G | 17 |  | 3/30 | $31 / 2$ | $13 / 8$ | 12 | 4 |
| Slieve Boy | 0 | 3 | Did Not | Survive |  |  |  | $13 / 8$ | 11 | L/4 |
| St. Keverne | 2 | 2 a | E | 22 14 |  | $3 / 30$ $4 / 4$ | $31 / 4$ $21 / 2$ | $1 / 4$ | 6 | 4/26 |
| Suzy | 2 | 7 | G | 114 |  | $4 / 4$ $4 / 4$ | $\begin{aligned} & 2 \\ & 3\end{aligned} 1 / 4$ |  | 14 | L/7 |
| Tamino | 10 | ? 2 | G | 14 |  | $4 / 4$ | $\begin{array}{ll}3 & 3 / 4 \\ 3 & 3 / 4\end{array}$ | $15 / 8$ | 6 | 4/11 |
| Trostan | 1 | 2h | E | 15 |  | 4/4 | ${ }_{4} 3 / 4$ | 2 | 7 | 4/9 |
| Ulster Prince | ? | ia | G | 18 |  | 3/30 | 4 1/2 | 1/2 | 6 | $4 / 21$ |
| Verdin | 1 | 7 | G | $143 / 4$ |  | 4/12 | $21 / 2$ | $1 / 2$ | 3 | $4 / 9$ |
| Vigil | 1 | Iit | E | 15 |  | 3/30 | 4 | $13 / 4$ | 2 | $4 / 7$ |
| Viking | 1 | $\bigcirc \mathrm{C}$ | E | 16 1/2 |  | 3/30 | 4 | 1 1/2 | 2 | 4 |
| Vulcan | $?$ | 2 a | Did Not | Survive |  |  |  |  |  |  |
| Wedding Gift | 0 | - | Did Not | Survive |  |  |  |  |  |  |
| White Spire | 0 | ? | Did Not | Survive |  |  | 4 | $11 / 2$ | 8 | $4 / 6$ |
| Woodcock | 2 | 0.1 | E | 16 |  | 3/30 | 4 | $11 / 2$ | - |  |


| Variety Name Qu | Quantity | Class | Stem Strength | Stem Length inches | $\begin{aligned} & \text { Full } \\ & \text { Bl. } \end{aligned}$ | Diameter Bl. inches | Trumpet Length inches | Number Bl. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actaea | 6 | 9 | E | 14 | 4/1 | $31 / 2$ | 1/4 | 5 | 4/7 |
| Alamein | 7 | 2a | G | 10 | 4/1 | $23 / 4$ | 3/4 | 6 | 4/7 |
| April Tears | 6 | 5 b | E | 2 | 4/9 | 2 | 1/4 | 5 | 4/17 |
| April Showers | 8 | 2 b | E | 10 1/4 | 4/9 | 4 | 1/2 | 15 | 4/7 |
| Aspasia | 8 | 8 | E | 11 | 4/1 | $21 / 4$ | 1/8 | 8 | 4/9 |
| Ave | 7 | 2 c | G | 10 1/2 | $4 / 1$ | 3 3/4 | 1/2 | 11 | 4/4 |
| Beaucaillou | 8 | $2{ }^{\circ}$ | E | 13 | 4/1 | $31 / 2$ | 1/2 | 12 | $4 / 7$ |
| Ben Hur | 6 | 1 a | G | 11 1/2 | L/1 | $31 / 2$ | 1/2 | 6 | 4/7 |
| Beryl | 1 | 6 b | G | 8 | 4/1 | 2 | 1/2 | 1 | 4/4 |
| Biflorus | 6 | 10 | G | 10 | 4/20 | $11 / 2$ | 1/8 | 5 | 4/30 |
| Bodilly | 2 | 2 b | G | 12 | 4/20 | 4 | 1/2 | 3 | 4/30 |
| Bolton | 5 | 7 b | G | 10 | 4/20 | $31 / 2$ | 3/4 | 9 | 4/30 |
| Brightwork | 7 | 3b | G | $93 / 4$ | 4/2 | $21 / 2$ | 1/4 | 8 | $4 / 4$ |
| Brookville | 7 | 2 b | E | 11 | 4/2 | $31 / 2$ | 3/4 | 6 | $4 / 1$ |
| California Gold | 8 | 2 a | G | $141 / 2$ | 4/1 | 3 | 1/2 | 9 | L/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 | L/13 |
| Charmant | 8 | 3b | G | 11 | 4/6 | 4 | 1/2 | 12 | $4 / 3$ |
| Cheerio | 8 | 2 a | G | 14 | 4/6 | 4 | 1/2 | 12 | 4/3 |
| Chinese White | 7 | 3 c | E | 10 1/2 | $4 / 7$ | 3 | 1/4 | 9 | 4/9 |
| Chinjok | 6 | 2 b | G | $131 / 2$ | $4 / 7$ | $31 / 2$ | 3/4 | 15 | 4/2 |
| Clackamas | 5 | 2 b | E | 12 | $4 / 7$ | $33 / 4$ | 1/2 | 3 | 4/6 |
| Clock Face | 8 | 3b | E | 13 | 4/8 | $31 / 2$ | 1/8 | 10 | $4 / 14$ |
| Coloratura | 7 | 3 b | E | 7 | $4 / 4$ | 3 | 1/2 | 4 | 4/11 |
| Cornet | 8 | 6 a | G | 11 | 4/2 | $31 / 2$ | 3/4 | 12 | 4/11 |
| Coverback Perfection | on 5 | 2 2 | $\stackrel{F}{ }$ | 11 | 4/2 | $31 / 4$ | 3/4 | 7 | 4/11 |
| Cragford | 7 | 8 | G | 11 | $4 / 2$ | $31 / 2$ | 1/4 | 8 | $4 / 1$ |
| Crush Lake | 6 | 3 c | $\Sigma$ | 7 | 4/5 | 3 | 1/4 | 9 | $4 / 14$ |
| Dreamlight | 6 | 3 b | G | 13 | 4/8 | $21 / 2$ | 1/8 | 8 | 4/16 |
| Dew Pond | 5 | 2 c | G | 8 | $4 / 4$ | $33 / 4$ | 3/4 | 3 | $4 / 14$ |
| Earl Winterton | 8 | 2a | E | $141 / 2$ | $4 / 4$ | $31 / 2$ | 1 | 15 | 4/14 |
| Elgin | 8 | 1a | E | $131 / 2$ | 4/4 | $31 / 2$ | $11 / 2$ | 13 | 4/14 |
| Fireproof | 7 | 2a | E | 13 | 4/4 | $31 / 2$ | 3/4 | 8 | 4/14 |
| Flying Saucer | 8 | 2 b | G | 13 | 4/4 | 4 | $3 / 4$ | 12 | $4 / 4$ |

Table 2 continued

| Variety Name | Juantity | Class | St.em Strength | Stem Lencth inches | $\begin{aligned} & \text { Full } \\ & \text { B1. } \end{aligned}$ | $\begin{aligned} & \text { liameter } \\ & \text { Bl. } \\ & \text { inches } \end{aligned}$ | Trumpet <br> Leng, th <br> inches | Number B1. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Foresight |  | 1 b |  | 11 |  |  |  |  |  |
| Forfar Geranium | 6 | 3 b | C | 12 | $4 / 4$ $3 / 31$ | $\begin{aligned} & 1 \\ & 3 \end{aligned}$ | $11 / 4$ $1 / 4$ | 5 | 4/4 |
| Geranium | 6 5 | 8 | E | 10 | $4 / 4$ | $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | $1 / 4$ | 4 | 4/4 |
| Gold Eigger | 8 | lc | G | 11 | $4 / 4$ | $21 / 4$ | $11 / 2$ | 3 | 4/9 |
| Golden Torch | 8 | la | E | 11 | $4 / 4$ | 3 | 1/2 | 8 | 4/9 |
| Golden Torch | 8 | 2a | E | 11 1/2 | 4/4 | 4 | $11 / 2$ | 11 | $4 / 9$ |
| colden Riot | 8 | la | E | $131 / 2$ | 4/4 | $31 / 4$ | 1 | 12 | 4/9 |
| Golden Triumphato | s | ? 2 | G | $91 / 2$ | $3 / 31$ | 2 | 1/4 | 7 | 4/11 |
| Gracilus . | 7 | 12 | $\stackrel{\text { G }}{ }$ | $9_{12} 1 / 2$ | 3/31 |  | 1/2 | 13 | 4/11 |
| Gratia | 8 | 2 i | E | 12 | $3 / 31$ $3 / 31$ | $11 . / 4$ | 1/8 | 8 | 4/17 |
| Greenland | 6 | 2 c | L | 10 | 3/31 | $41 / 2$ | 3/4 | 11 | 4/1 |
| Hamzalic | 5 | 3 b | G | 10 1/2 | $4 / 1$ | $\begin{array}{lll}3 & 1 / 2 \\ 3 & 3 / 4\end{array}$ |  | 8 | $4 / 6$ |
| Harvester | 8 | 1 a | E | $101 / 2$ 13 | $4 / 1$ $4 / 1$ | $\begin{array}{lll}3 & 3 / 4 \\ 3 & 3 / 4\end{array}$ | $11 / 4$ | 7 | $4 / 7$ |
| Hollywood Homefires | 5 | 2 a | E | 11112 | $4 / 1$ | $\begin{array}{ll}3 & 3 / 4 \\ 3 & 3 / 4\end{array}$ | 2 | 12 | 4/7 |
| Homefires Hugh Paote | 6 | 2 a | E | 14 | $4 / 1$ | 3 3 | 2 | 12 | $4 / 7$ |
| Hugh Paote Imperator | 8 | 2 a | G | $111 / 4$ | $4 / 1$ | ${ }_{3} 31 / 2$ | 1 | $?$ | $4 / 1$ |
| Imperator | 6 8 | 1 c | E | $101 / 2$ | 4/1 |  | 3/4 | 8 | $4 / 1$ |
| Insulinde | 8 | 4 | G | 11. | $4 / 2$ $4 / 2$ | $33 / 4$ | $3 / 4$ | 7 | $4 / 8$ |
| Interim | 7 | 2bp | G | 9 | $4 / 2$ | $\begin{aligned} & 3 \\ & 3\end{aligned} 1 / 4$ | $3 / 4$ | 10 | 4/4 |
| Ischia | 7 | 2 b | G | 6 | $4 / 5$ | $\begin{array}{lll}3 & 1 / 4 \\ 3 & 1 / 4\end{array}$ | 3/4 | 1 | $4 / 4$ |
| Isola | 7 | 3 b | G | 11 | $4 / 5$ | $\begin{array}{lll}3 & 1 / 4 \\ 2 & 3 / 4\end{array}$ | $1 / 2$ | 6 | 4/9 |
| Kilbride | 18 7 | 2 a | $\stackrel{1}{4}$ | 12 | $4 / 3$ | ${ }_{4}^{2} 3$ | 1/4 | 5 | 4/12 |
| King of the North | 7 | 2 b | $\stackrel{L}{1}$ | $12 \mathrm{l} / 2$ | $4 / 1$ | 4 | $3 / 4$ $3 / 4$ | 5 | $4 / 6$ |
| King of the North Lady Kesteven | 8 | la | E | 11 | $4 / 1$ | 4 | $13 / 4$ | ${ }_{6}$ | $4 / 14$ |
| Lebanon | 7 | 3b | G | $91 / 2$ | 4/1 | 4 | $1 / 2$ | 5 | $4 / 7$ |
| Lemon Heart | 8 | 5 a | G | 14 8 | 4/1 | 4 | 3/4 | 9 | $4 / 7$ |
| Lemstar | 8 | la | E | 8 | 4/1 | 3 | 1 | 12 | $4 / 8$ |
| Linn | 7 | 2 b | E |  | $4 / 1$ | 3 | $11 / 2$ | 5 | $4 / 8$ |
| Lisbreen | 8 | 2 pp | G | $121 / 2$ 12 | $4 / 1$ | $\begin{array}{lll}3 & 3 / 4 \\ 3 & 1 / 4\end{array}$ | 1.18 | 14 | $4 / 8$ |
|  |  | $\underline{ }$ | $\stackrel{ }{ }$ | $121 / 4$ 9 | $4 / 1$ |  | $11 / 8$ $1 / 4$ | 8 | $4 / 8$ |


| Variety Name | Quantity | Class | Stem Strength | Stem <br> Length inchess | $\begin{aligned} & \text { Full } \\ & \text { Bl. } \end{aligned}$ | Diameter Bl. inches | Trumpet Length inches | Number Bl. | Fade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Matapan | 6 | 3b | G | $91 / 2$ | 4/2 | $31 / 4$ | 1/4 |  |  |
| Mendel | 7 | 2 a | E | 9 | $4 / 2$ | 4/12 | $1 / 4$ $1 / 2$ | 7 | $4 / 7$ $4 / 4$ |
| Merapi | 8 | 2a | G | 11 | $4 / 2$ | $31 / 4$ | 3/4 | ? 8 | 4/4 |
| Moon Shine | 3 | 5 a | - | 11 | 4/2 | $31 / 4$ | $3 / 4$ | 0 | 4/4 |
| Mrs. A.N. Pearson | 8 | 8 | E | 8 | $4 / 2$ | $21 / 2$ | 1/4 | 11 | 4/9 |
| Narvik | 8 | 2 c | E | 9 | $4 / 3$ | $31 / 2$ | $11 / 2$ | 7 | 4/9 |
| Nim | 4 | 2b | G | $12 \mathrm{l} / 2$ | $4 / 3$ | 3 3/4 | $3 / 4$ | 12 | 4/9 |
| Orange Lace | S | 2 b | E | 7 | $4 / 3$ | $31 / 2$ | $3 / 4$ | 1 | $4 / 1$ |
| Orange Glory | 7 | $6 a$ | G | 10 1/2 | 4/3 | $31 / 2$ | 1 | 2 | $4 / 4$ |
| Pearly Queen Pigeon | 6 | 5 a | a | 9 | 4/3 | 2 1/2 | 3/4 | 9 | 4/4 |
| Pigeon Pink Favorite | 3 | 2c | E | 10 | $4 / 3$ | $33 / 4$ | $11 / 4$ | 3 | $4 / 8$ |
| Dink Lace | 7 | 2 cp | E | 9 | $4 / 4$ | $31 / 4$ | 1 | 12 | L/8 |
| Pinwheel | 3 | 2a | G | 11 | $4 / 4$ | $\begin{array}{ll}3 & 1 / 2 \\ 3 & 1 / 2\end{array}$ | $11 / 4$ | 7 | 4/7 |
| Playboy | 3 | 2a | $\overline{\text { E }}$ | $91 / 2$ | $4 / 2$ | $31 / 2$ | $3 / 4$ | 3 | $4 / 5$ |
| Portrush | 6 | 3 c | E | 8 | 4/10 | 3 | 1/4 | 6 | $4 / 27$ |
| Pride of Holland | $\overline{7}$ | 8 | Jid Not | Survive |  |  |  |  |  |
| Red Bird | 6 | 2b | G | $91 / 2$ | $4 / 1$ |  | $11 / 4$ | 8 | 4/17 |
| Red Devon Red Guard | 6 | 2a | E | $12 \mathrm{l} / 2$ | 4/1 | $31 / 4$ | $3 / 4$ | 7 | 4/7 |
| Red Guard Ped Hackle | 7 | 8 | G | 10 | $4 / 7$ | $23 / 4$ | 1/2 | 6 | 4/3 |
| Red Riband | 7 | 2 c | E | 6 | $4 / 5$ | 3 | 1/2 | 7 | 4/11 |
| Roman Star | 8 | 3 a | G | 14 | $4 / 9$ | $31 / 2$ 2 | 3/4 | 9 | $4 / 11$ |
| Rossmore | 3 | 2a | G | 13 | 4/9 | $21 / 2$ | 1 | 2 | $4 / 13$ |
| Rouge Royal Crown. | \% | 2 a | Did Not | Survive |  |  |  |  |  |
| Rustom Pasha | 8 | 2 a | $\stackrel{E}{\text { E }}$ | 11 1/2 | 4/9 | $21 / 2$ | 1 | 16 | 4/13 |
| Santiam | 8 | ¿a | E | 15 | 4/9 |  | 3/4 | 1 | $1 / 13$ |
| Scarlet Leader | 7 | ¿a | G | 11 | 4/9 | 3 | 1/2 | 8 | 4/13 |
| Selma Lagerloff | ${ }_{1}$ | 6 | G | 14 | 4/9 | $33 / 4$ | 1/2 | 13 | $4 / 13$ |
| Silver Chimes | 14 | 8 | G | 10 | 4/9 | $31 / 2$ | 1 | 3 | $4 / 7$ |
|  |  |  |  | 5 | 4/2 | 2 | 1/2 | 6 | 4/15 |

Tahle? continued

| Variety Name : | cuantity | Olass | Stem strenfth | ¿ tem <br> Length <br> inches | $\begin{aligned} & \text { Y1211 } \\ & \text { E1. } \end{aligned}$ | ```Diareter Bl. incnes``` | Trumpet <br> Length <br> inches | Nurber ${ }^{15}$ 1。 | Wade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sincerity | 7 | 1 b | E | 10 | $4 / 3$ | 3 | $11 / 2$ | 10 | 4/12 |
| Soundness | 2 | 1 b | E | 12 | $4 / 3$ | 3 | $11 / 2$ | 2 | 1./12 |
| St. Egwin |  | 2 a | Did No | Survive |  |  |  |  |  |
| St. Issey | 8 | 2 a | E | 13 | 4/3 | 3 | $11 / 4$ | 6 | 4/12 |
| St. Louis | 5 | 3b | G | 8 | 4/5 | $41 / 4$ | 1/4 | 4 | 4/9 |
| Stoke $\sim$ | 7 | 5 a | G | 10 | 4/1 | $23 / 4$ | $1 / 2$ | 8 | $4 / 5$ |
| Sweetness | 8 | 7 a | G | 11 | $1 / 11$ | 2 | 3/4 | 21 | $4 / 5$ |
| Carzan | 3 | 2 b | E | $123 / 4$ | $4 / 1$ | 3 | $1 / 2$ | 14 | $4 / 5$ |
| Thalia | 8 | 5 a | E | $81 / 2$ | 4/1 | 3 | 3/4 | 8 | $4 / 7$ |
| Tinker | 8 | 2 a | G | 13 | $4 / 1$ | $31 / 4$ | 1 | 11 | $4 / 7$ |
| Tresamble | 7 | Sa | G | 11 | $4 / 1$ | $31 / 2$ | 3/4 | 6 | 4/8 |
| Ulster Prince | 10 | la | E | 9 | $4 / 1$ | $31 / 2$ | $13 / 4$ | 10 | L/8 |
| Unsurpassable | 2 | ? 2 | G | 12 1/2 | $4 / 1$ | $31 / 2$ | $13 / 4$ | 1 | $4 / 8$ |
| Valencia | 8 | 4 | E | 10 | 4/11 | 2 | Double | 9 | $L / 14$ |
| $\cdots$ 'hite Lion | 6 | ! | C | 12 1/2 | 4/11 | $31 / 2$ | 1/2 | 7 | L/8 |
| White Marvel | 5 | 4 | E | 9 | 4/7 | $23 / 4$ | 1/2 | 5 | L/'15 |
| White Pearl | ; | 3 | G | 9 | 4/7 | $11 / 4$ | 1/8 | 13 | $4 / 1$ |
| Killiamette | 8 | 2? | G | 13 | 4/7 | 3 | 1/2 | 1. | 4/1 |
| Worlds Favorite | 7 | $?$ | E | 11 | $4 / 7$ | $31 / 2$ | $11 / 2$ | 4 | $4 / 2$ |
| Yankee Clipper | 4 | 2 a | G | 15 | $4 / 7$ | $31 / 2$ | $11 / 2$ | 6 | $4 / 2$ |
| Yellow Cheerfulness | s 6 | 1 | E | 10 | 4/10 | $11 / 4$ | 1/2 | 1 | $1 / 17$ |
| 7ircon | 7 | 23 | G | 13 | - | $41 / 4$ | $11 / 4$ | 12 | 4/17 |

## TABLE




[^0]:    W. H. Wiley hn of Agriculture and
    logical Sciences

[^1]:    2

