

PERFORMANCE VARIATION OF ROSE CULTIVARS

DUE TO CLIMATIC LOCATION

by

Ormond Keister Evans, Jr.

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APPROVED:

Chairman Wesley P. Judkins

Bruce C. Bass

Albert S. Beecher

H. A. Rollins, Jr.

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INTRODUCTION

Popular rose cultivars are known to show different levels of performance in various climatic regions of the United States. The home gardener is seldom informed of these differences, and little information is available to him should he attempt to determine the performance of specific roses in his own locale.

This study attempts to show the degree (if any) of variation in adaptability of certain rose cultivars according to the area in which they are grown.

A survey form was distributed to some 17,000 American Rose Society members and eight to ten thousand non-members, asking them to evaluate and identify with a numerical rating the performance of each rose. More than 2,000 survey forms were returned by ARS members and two to three thousand non-members who belong to ARS chapters reported through a survey chairman for their specific chapter. It is estimated that five thousand rose growers participated, each reporting on approximately twenty-five roses that he is now growing.

This method of evaluating roses through the use of a rating scale survey was developed for the American Rose Society some forty years ago by Dr. J. Horace McFarland,

who was then Secretary. In 1925 Dr. McFarland inserted cards in the American Rose Annual asking readers to supply comments on the newer roses. "The published results of response to this rating system drew so much interest from the members of the American Rose Society that the system with some modifications has been expanded and published every year since." (4) The new ratings appear each year in a section of the American Rose Annual known as "Proof of the Pudding". They are also published in booklet form in a pamphlet known as "A Guide for Buying Roses" and more recently, "A Handbook for Selecting Roses".

The evaluation being reported in this study differs from the American Rose Society surveys in that it evaluates selected rose cultivars in terms of performance in a specific geographic region. Whereas, the American Rose Society surveys are more general in nature and do not attempt to classify the roses in this manner.

Only those roses introduced into commerce in the U.S.A. since 1962 have been included in the study. It is felt that older roses have generally proven themselves as good performers or are otherwise no longer available on the market. The survey has obtained evaluation ratings on 452 cultivars including all major horticultural types.

The purpose of this study has been to obtain performance ratings of the newer roses in each of three major climatic regions. With this information at hand observations and analysis of the data have been expressed in an effort to show the significance of this study.

Definitions and Descriptions

1. Cultivar - "An assemblage of cultivated individuals distinguished by any characteristics significant for the purposes of agriculture, horticulture, or forestry and which, when reproduced, retains its distinguishing features." (21) For the purposes of this study, the term should be considered synonymous with "variety".

2. Plant Hardiness Zone Map - For this study the hardiness zone map published in Taylor's Encyclopedia of Gardening was selected. The plan for this map was devised by Alfred Rehder of the Arnold Arboretum. The map is designed to show in each zone the lowest mean temperature of the coldest month. For use in the Encyclopedia of Gardening, the map was expanded to cover the entire country.

(18) (See Figure 1)

For the purpose of this study, the nine zones were combined to form three major climatic regions. The regions and minimum temperature ranges are as follows (See Figure 2):

- (a) Region I - A combination of zones 1 and 2
Min. Temp.: zero to 10 above
- (b) Region II - A combination of zones 3 and 4
Min. Temp.: 10 to 25
- (c) Region III - A combination of all zones south
of Zone 4
Min. Temp.: 25 to 60

3. Rosarian - One who maintains an avid interest in roses.

4. Rose Types

- (a) Hybrid Tea - Hybrid teas are the most popular grouping of roses grown today. The hybrid tea class is a result of interbreeding the tea rose with the hybrid perpetual. They are of bush form, with large flowers borne singly or in small clusters on a stem. Flowers vary from single blooms with one row of petals, to double blooms with many rows. They can be expected to bloom continuously throughout the growing season.
- (b) Floribundas - Floribundas came into being through crossing polyantha with hybrid tea varieties. Flowers are borne in clusters of varying sizes. Most cultivars produce well-formed flowers usually smaller than hybrid teas, although the trend in recent years has been toward larger flowers, and modern hybridizers predict for the future, floribunda varieties with flower size equal to the hybrid tea. Floribundas are usually low-growing, bushy plants producing a continuous mass of bloom.
- (c) Grandifloras - In recent years the grandiflora class has developed through the continuous crossing

of hybrid teas and floribundas. The grandiflora is an intermediate class, and in some cases, closely resembles the dominant parent. A true cultivar produces, during the growing season, large hybrid tea-type blooms usually one to a stem, but in a cluster-like formation. Plants tend to be as vigorous as either parent.

- (d) **Climbing Roses** - Climbing roses have a wide variation of characteristics comprising habits of many classes. Some bloom only once in the spring, some have recurrent bloom, while others are described as ever-blooming, although the bloom may be sparse at times. There are climbers with clusters of small flowers and others with large hybrid tea-type blooms; the latter known as large-flowered climbers. The large-flowered climbers are most popular today.
- (e) **Miniature Roses** - The miniature description applies not only to stature, which usually ranges in height from three inches to a little more than a foot, but also to buds, stems and foliage that are equally dwarf. Like the larger bush types, they are recurrent bloomers.

(f) Shrub Roses - There are a number of roses that do not fit well into any of the groups previously described. All have bushy shrub-like form although differing greatly in origin. Shrub roses are usually vigorous, hardy, resistant to insects and diseases and well adapted for general landscape use. Some are ever-blooming, while others bloom only during the spring season.

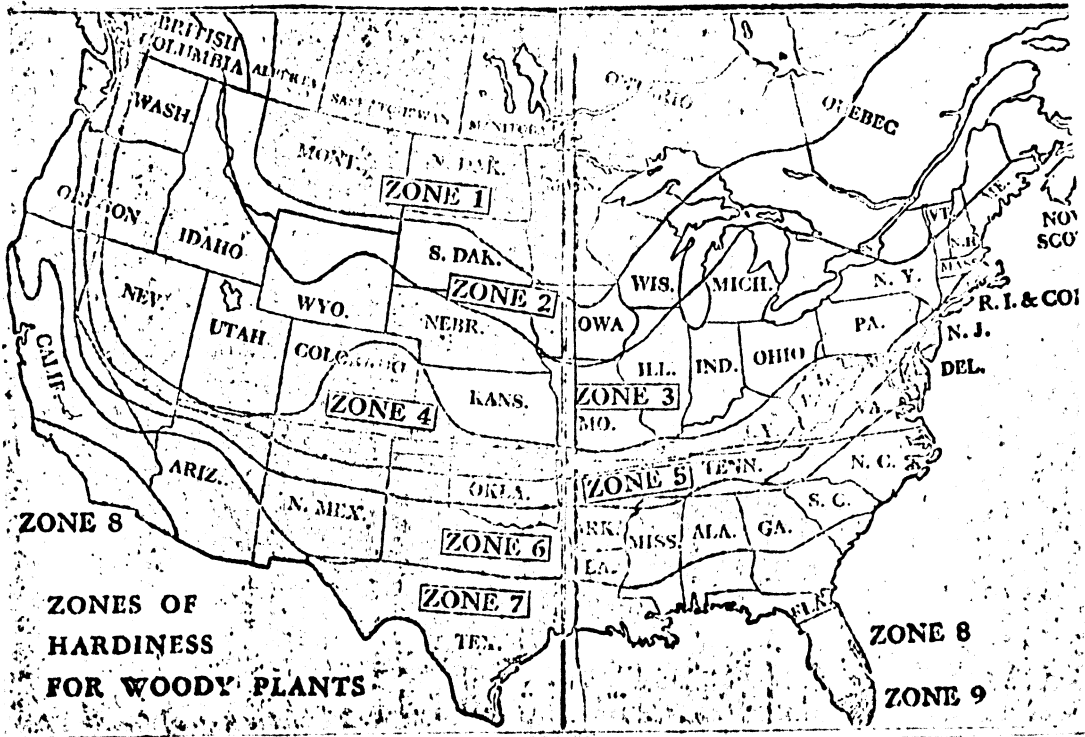


Figure 1. Plant Hardiness Zone Map

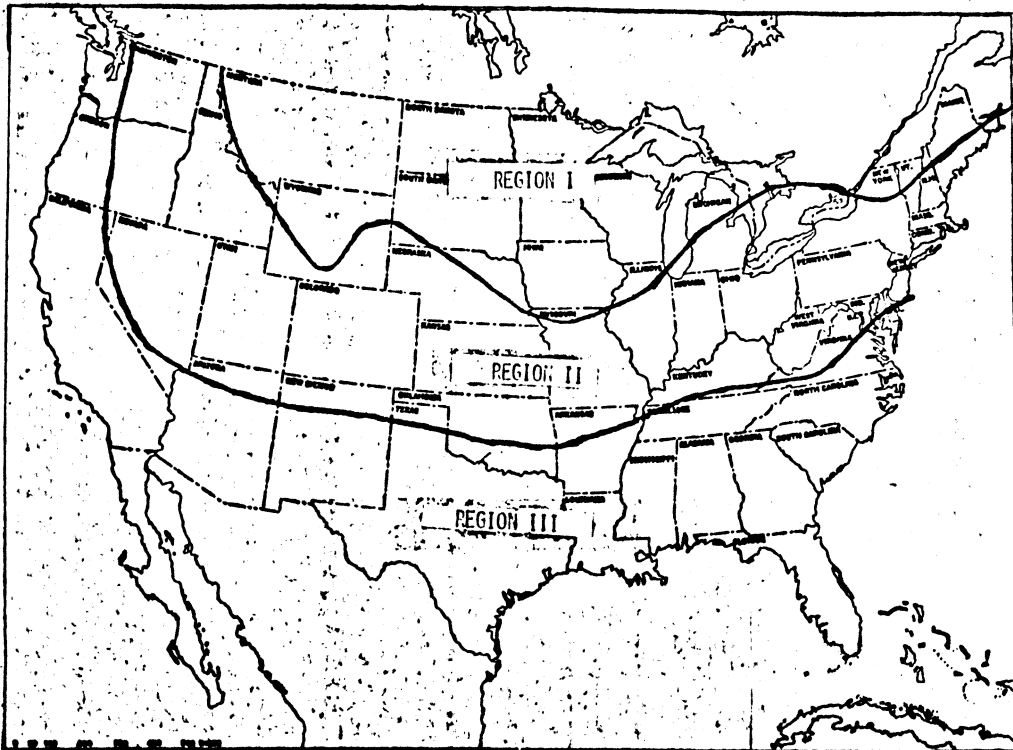


Figure 2. Zone Map Divided into Three Major Geographic Regions

REVIEW OF LITERATURE

Rose growers have, for many years, questioned the variability of performance of specific roses in the different geographic locations of the United States. There have been many unresearched theories that certain roses perform best in a particular climatic region.

Dr. R. C. Allen in his book, Roses for Every Garden, has stated that:

"Rose varieties themselves do not vary as much in their adaptability to specific sections as is commonly supposed. Less than 5 per cent of varieties are really limited to one region or another. When selected lists made by specialists or home gardeners from even remote areas are compared, very few differences can be noted, and these are usually in the order of preference rather than in actual recommendation. The more popular varieties are satisfactory anywhere in the country." (1)

Other authors have felt that the location for certain cultivars was very important. The fact that certain roses perform best in a specific area is evident in the publication by the Texas Rose Research Foundation, Inc., "Rose Growing Suggestions" (20), Potomac Rose Society bulletin, "Roses Recommended in the District of Columbia, Maryland and Virginia" (15) and the Phoenix Rose Society bulletin, "Best Roses for Arizona" (14). Each of these publications gives a list of cultivars known to do best in that specific

location. Yet the recommended list of roses varies considerably from one area to the next. For example the top five white hybrid teas recommended for Texas (20) are 'White Knight', 'Sincera', 'Caledonia', 'Blanche Mallerin' and 'White Beauty'; while for Arizona (14) they are 'White Knight', 'Jack Frost', 'Virgo', 'Matterhorn' and 'White Queen'; and in the states of Maryland, Virginia and the District of Columbia (15) they are 'Matterhorn', 'Sincera', 'Virgo', 'Ivory Fashion' and 'Saratoga'. In the same light the five top red hybrid teas listed for Texas (20) are 'Mister Lincoln', 'Nocturne', 'Mirandy', 'Allegro' and 'Crimson Duke'; while for Arizona (14) they are 'Chrysler Imperial', 'Avon', 'Christian Dior', 'Mexicana' and 'Papa Meilland'; and in Maryland, Virginia and the District of Columbia (15) they are 'Avon', 'Chrysler Imperial', 'Crimson Glory', 'Mister Lincoln' and 'New Yorker'. These comparisons appear to indicate that the best roses for one geographic region are not necessarily the best for another.

In the book, How to Grow Roses in the West (8), the author states that "Under western conditions, roses thrive better than anywhere else in the world". The author of The Rose in America (13) states that "The Boston climate is not easy for most of the less hardy roses . . ." The

Magic World of Roses (2) shows a zone map and cultural recommendations for each major USA zone. For example, the author recommends planting bare-root roses in the northern United States in April and May, in the central states in February and March and the southern states in December and January. This recommendation appears to be approximately one month before the date of the last killing frost. These publications give further evidence that roses do behave differently and require different care in various sections of the country.

DESIGN OF THE STUDY

A "rating-scale" survey was developed whereby each participant could evaluate each rose he now grows. (See Figure 3) The survey form was distributed to amateur rose growers who are members of the American Rose Society. The method of distribution was by attaching the survey in the September, 1967 issue of the American Rose Magazine which was distributed to 16,000 members.

Each amateur rose grower who participated in the survey was requested to evaluate each of certain rose cultivars using the following scale:

A- Excellent - Outstanding rose in every respect; a rose you would highly recommend.

B- Good - A good performer; one that will remain in your garden, but slightly below your standards for an ideal rose.

C- Fair - An average rose; one you would replace with a variety you consider to have better qualities.

D- Poor - Not a good performer; a rose you would not recommend for your area.

The letter ratings were then assigned the following numerical values: A=10; B=8; C=6; D=4.

The total score for each cultivar in each region was then compiled and a regional average rating, based on a ten-point scale was obtained. Each division score on the ten-point rating scale may be interpreted as indicated below:

A	10.0 to 9.0	Excellent
B+	8.9 to 8.0	Outstanding
B-	7.9 to 7.0	Good
C+	6.9 to 6.0	Fair
C-	5.9 to 5.0	Average
D	4.9 and lower	Poor

Each participant was asked to complete the form checking A, B, C or D (See Figure 3 for sample survey form) on each rose he was growing in his own garden, and return it to a survey chairman who was appointed by his local rose society. Three hundred forms were returned from Region I, one thousand from Region II and eight hundred from Region III. Those participants not belonging to a local rose society, returned the form directly to the American Rose Society Headquarters. It is estimated that the survey chairmen in Region I received 600 forms, in Region II 1,400 forms and in Region III 1,000 forms. Each survey chairman compiled ratings for all members of his rose society. This included many rose growers who were not members of the American Rose

Society. These ratings and those submitted by individuals to American Rose Society Headquarters were then compiled and averaged on an electric calculator by a skilled operator. The end result produced a rating score average for each climatic region. Three major climatic regions were selected according to the Arnold Arboretum Plant Hardiness Zone Map. (See Figure 1)

PRESENTATION OF DATA

This step in the study deals mainly in the presentation of descriptions and ratings of all roses from each climatic region.

Key: The name of the rose is followed by the type description and the official American Rose Society color classification. The number of reports received for each rose in each region is given in parenthesis ().

Horticultural types are abbreviated as follows:

- HT - Hybrid Tea
- F - Floribunda
- Gr - Grandiflora
- Cl - Climber
- SeCl - Semi-Climber
- ClHT - Climbing Hybrid Tea
- LCl - Large-flowered Climber
- Min - Miniature
- Pol - Polyantha
- S - Shrub

American Rose Society color classifications are abbreviated as follows:

- ab - apricot blend
- dr - dark red

dy - deep yellow

lp - light pink

lr & dp - light red and deep pink

m - mauve

mp - medium pink

mr - medium red

my - medium yellow

ob - orange and orange blend

or - orange red

pb - pink blend

r - russet

rb - red blend

w - white or near white

yb - yellow blend

Ratings of Roses From
Each Climatic Region

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
ACAPULCO, F, yb		
(3) 7.6	(8) 4.1	(6) 5.0
ALABASTER, HT, w		
(4) 5.6	(1) 2.0	no reports
ALBERT, F, ob		
(2) 6.5	(17) 8.0	(8) 6.1
ALLEGRO, HT, or		
(5) 5.1	(62) 7.4	(26) 7.9
AMARILLO, HT, dy		
(5) 6.7	(32) 7.7	(13) 6.8
AMATSU-OTOME, HT, my		
(5) 7.6	(20) 8.3	(11) 6.2
AMBERLIGHT, F, yb		
no reports	(12) 7.1	(3) 8.0
AMERICAN HERITAGE, HT, yb		
(109) 8.2	(551) 8.6	(345) 7.5
AMERICA'S JUNIOR MISS, F, lp		
(11) 8.5	(76) 7.6	(26) 6.2
ANDANTE, S, lp		
(1) 6.0	(1) 8.0	no reports

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
ANDRE LE TROQUER, HT, ob		
no reports	(5) 4.7	(1) 6.0
ANNE WATKINS, HT, yb		
(4) 7.8	(32) 6.2	(34) 6.0
ANVIL SPARKS (AMBOSSFUNKEN), HT, ob		
(6) 7.0	(30) 7.4	(13) 6.5
APACHE, S, yb		
(6) 7.2	(5) 5.0	(5) 4.8
APRICOT NECTAR, F, ab		
(68) 7.8	(364) 8.3	(215) 8.0
ARPEGGIO, F, lr&dp		
(2) 6.0	(18) 6.3	(2) 8.2
ARTISTE, HT, my		
(3) 8.0	(4) 6.2	(2) 5.0
ATTRAKTION, F, ob		
(2) 7.0	(6) 9.2	(1) 8.0
AUTUMN HUES, F, ob		
no reports	(23) 6.9	(5) 6.0
AVON, HT, dr		
(40) 8.3	(209) 8.3	(169) 8.5
BABY CHERYL, Min, lp		
(1) 8.0	(3) 6.7	(11) 8.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
BABY DARLING, Min, ob		
(16) 8.6	(65) 8.4	(59) 8.7
BABY OPHELIA, Min, pb		
(7) 8.6	(32) 7.7	(37) 8.5
BAJAZZO, HT, rb		
(7) 6.6	(48) 6.8	(16) 6.6
BALINESE, HT, m		
(1) 8.0	(3) 5.0	(11) 5.8
BALLET, HT, lr&dp		
(23) 7.7	(90) 7.3	(26) 6.6
BAMBI, F, mp		
(3) 8.0	(12) 8.7	(11) 7.7
BANZAI, HT, rb		
(2) 7.0	(52) 7.7	(29) 7.1
BARONNE FINAZ, HT, mp		
(5) 8.8	(4) 5.0	no reports
BEAUTE', HT, yb		
(7) 7.2	(70) 7.3	(58) 7.4
BEAUTY SECRET, Min, mr		
(12) 8.9	(49) 8.5	(46) 9.2
BEL ANGE, HT, lr&dp		
(3) 9.3	(48) 7.8	(7) 8.4

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
BERMUDIANA, HT, mp		
(25) 7.1	(112) 7.9	(32) 6.6
BEWITCHED, HT, mp		
(98) 8.6	(392) 8.3	(290) 7.9
BIG RED, HT, dr		
(15) 7.7	(174) 7.4	(88) 7.1
BISCHOFSTADT PADERBORN, S		
no reports	(6) 8.0	no reports
BLAKENEY'S RED, HT, mr		
(4) 7.0	(3) 6.0	no reports
BLITHE SPIRIT, HT, lp		
(23) 7.6	(87) 7.5	(72) 7.1
BLUE MOON (MAINZER FASTNACHT, SISSI), HT, m		
(5) 8.8	(47) 7.9	(15) 6.2
BOB HOPE, HT, mr		
(43) 8.2	(157) 7.7	(98) 7.4
BONJOUR, Gr, mr		
(1) 6.0	no reports	no reports
BONNIE PINK, F, lp		
(3) 6.7	(28) 6.2	(4) 8.0
BORDER GOLD, F, dy		
(7) 3.3	(3) 7.0	(3) 6.7

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
BRANDENBURG, HT, lr&dp		
(9) 9.0	(19) 6.5	(4) 7.2
CAMELOT, Gr, lp		
(108) 8.7	(446) 8.4	(348) 8.3
CANDY STRIPE, HT, pb		
(27) 7.8	(202) 7.5	(82) 6.9
CANTABILE, S, lp		
(1) 6.0	no reports	no reports
CAPE CORAL, HT, ab		
(7) 4.9	(39) 5.9	(25) 5.8
CARINA, HT		
no reports	(1) 10.0	(2) 9.0
CAROLYN DIANNE, F, lp		
(1) 8.0	(3) 4.0	(16) 7.8
CASINO, Cl, my		
(2) 7.8	(7) 7.6	(1) 8.0
CELEBRATION, F, rb		
no reports	(7) 8.0	no reports
CERISE BOUQUET, S		
(1) 4.0	no reports	no reports
CHAMPAGNE, HT, yb		
(37) 8.5	(245) 8.1	(240) 7.6

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
CHANELLE, F, pb		
(5) 6.6	(11) 7.4	(2) 8.3
CHATEAU LA SALLE, HT, yb		
(1) 8.0	(24) 7.2	(20) 7.4
CHEYENNE, ClHT, lp		
(5) 6.8	(4) 8.2	(3) 4.2
CHICAGO PEACE, HT, pb		
(131) 8.6	(648) 8.9	(479) 8.9
CHINATOWN, F, dy		
(4) 6.7	(9) 8.0	(4) 3.6
CHIPPER, Min, lp		
(5) 8.8	(63) 8.0	(34) 8.7
CHRISTIAN DIOR, HT, mr		
(93) 8.9	(479) 7.9	(438) 8.4
CIRCUS PARADE, F, yb		
(15) 7.6	(164) 8.0	(78) 7.8
CLAIR MATIN, Cl, mp		
(1) 7.0	(12) 7.7	(3) 8.7
CL. ALLGOLD, Cl		
(1) 8.0	(3) 8.7	(1) 2.0
CL. BABY GOLD STAR, ClMin, dy		
(4) 9.5	(6) 7.8	(7) 7.4

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
CL. CHARLES MALLERIN, ClHT		
(1) 8.0	(2) 7.0	(4) 5.9
CL. FRITZ THIEDEMANN, ClHT, or		
(3) 6.0	(1) 8.0	(2) 6.0
CL. QUEEN O' THE LAKES, Cl, dr		
(1) 4.0	(8) 7.8	(1) 6.0
CL. SHOW GARDEN, SeCl, mp		
(1) 10.0	(10) 8.1	(6) 7.3
CL. SPARTAN, Cl, or		
(4) 6.5	(21) 7.6	(21) 8.1
COCKTAIL, S, rb		
no reports	(1) 5.0	(4) 7.5
COLISEE, F		
(1) 8.0	(1) 8.0	no reports
COLOUR CARNIVAL, F, yb		
(2) 7.5	(5) 7.8	(1) 6.0
COLOUR WONDER, HT, ob		
(9) 7.5	(29) 8.4	(14) 7.6
COLUMBUS QUEEN, HT, mp		
(47) 8.2	(230) 7.5	(229) 8.0
CONFEDERATION, HT, mp		
(1) 10.0	no reports	(2) 5.8

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
CONRAD HILTON, F, my		
(1) 6.0	(8) 7.3	(4) 7.5
COPPELIA, HT, ob		
(3) 6.0	(12) 7.8	(3) 6.0
CORALITA, LCl, or		
(4) 7.0	(7) 6.3	(2) 6.5
CORAL MIST, HT, pb		
no reports	(1) 4.0	(3) 7.7
CORAL SUNSET, HT, or		
(2) 7.9	(33) 7.8	(4) 7.5
COUP DE FOUDRE, F, or		
(9) 7.7	(61) 8.1	(39) 7.8
CRICRI, Min, mp		
(12) 7.8	(52) 7.9	(49) 8.3
CRIMSON DUKE, HT, mr		
(18) 6.9	(75) 7.4	(62) 6.6
CROWN JEWEL, F, or		
(23) 5.1	(64) 6.0	(29) 5.8
CRYSTAL WHITE, HT, w		
no reports	(3) 6.6	(9) 8.3
CUPIDS CHARM, F, pb		
(1) 6.0	(32) 7.9	(9) 8.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
DACAPO, F, lr&dp		
(1) 8.0	no reports	no reports
DAILY SKETCH, F, pb		
(24) 8.3	(65) 8.1	(40) 7.7
DAME DE COEUR, HT, mr		
(7) 7.2	(68) 8.0	(28) 7.3
DARLING, HT, lp		
(2) 6.1	(6) 7.6	(22) 7.9
DAVE DAVIS, HT, mr		
(7) 7.3	(75) 7.6	(13) 5.9
DEAREST, F, pb		
(6) 7.7	(15) 9.3	(5) 8.0
DEBBIE, Min, yb		
(4) 7.5	(34) 8.0	(31) 8.1
DER KRAD, HT, dr		
(1) 8.0	(1) 10.0	(2) 6.0
DIAMANT (DIAMOND), F, or		
(4) 6.5	(10) 8.0	(3) 7.7
DIPLOMAT, HT, dr		
no reports	(3) 4.9	(1) 6.0
DIXIE BELLE, HT, lp		
(5) 8.0	(58) 6.6	(14) 4.8

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
DOROTHY ANDERSON, HT, lp		
(10) 6.3	(17) 5.7	(8) 5.4
DOROTHY PEACH, HT, yb		
(11) 7.9	(22) 5.5	(10) 5.3
DR. BROWNELL, HT, my		
(5) 7.6	(15) 8.2	(14) 7.9
DRUMMER BOY, F, mp		
no reports	(1) 10.0	(9) 7.8
DWARFKING (ZWERGKONIG), Min, mr		
(15) 8.5	(97) 8.9	(46) 8.8
EBB TIDE, HT, ab		
(10) 7.1	(61) 7.2	(17) 7.4
EIFFEL TOWER, HT, mp		
(71) 8.8	(388) 8.2	(284) 7.8
ELIZABETH OF GLAMIS, F, mp		
(68) 6.8	(156) 7.4	(148) 8.3
ELYSIUM, F, pb		
(3) 7.3	(14) 7.7	(4) 7.0
EMINENCE, HT, m		
(12) 4.8	(116) 6.6	(39) 5.9
EUROPEANA, F, dr		
(14) 7.9	(65) 8.3	(30) 8.6

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
EVELYN FISON, F, mr		
(7) 8.4	(21) 8.1	(12) 8.4
EVENSONG, HT, pb		
(3) 7.3	(16) 5.9	(5) 6.2
FANCY TALK, F, pb		
(2) 8.0	(12) 7.7	(20) 7.5
FEMINA, HT, pb		
(14) 6.7	(67) 7.4	(26) 5.9
FIJI, Gr, or		
(3) 6.0	(4) 7.7	(1) 8.0
FIREFLASH, HT, yb		
no reports	(7) 6.1	(2) 6.3
FIRST FEDERAL, HT, pb		
(5) 7.6	(21) 7.8	(2) 6.5
FIRST LADY, HT, lr&dp		
(1) 5.0	(18) 6.8	(3) 6.3
FLAMEBURST, F, dr		
(3) 6.7	(4) 9.0	no reports
FLAMING ARROW, F, or		
no reports	(8) 6.3	(2) 9.0
FLAMING PEACE (KRONENBOURG), HT, rb		
(48) 7.3	(258) 7.1	(141) 7.1

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
FLORABELLE, F, lp		
no reports	no reports	(1) 2.0
FLORIADE, Gr, ob		
(21) 6.6	(120) 6.4	(116) 6.5
FLORIDA VON SCHARBEUTZ, F, yb		
(1) 4.0	(11) 7.4	(2) 6.0
FOLK SONG, S		
(2) 7.0	(9) 7.8	(6) 6.9
FRAGRANCE, HT, lr&dp		
(3) 8.0	(42) 7.5	(70) 8.0
FRAGRANT CLOUD, HT, or		
(41) 9.2	(84) 8.8	(41) 8.2
FRANCINE, HT, rb		
(1) 8.0	(11) 7.8	(3) 8.0
FRANKFURT AM MAIN, F, mr		
(1) 8.0	no reports	no reports
FRANK SERPA, Gr, lp		
no reports	(1) 10.0	(3) 6.7
FRESH PINK, S, lp		
(4) 7.9	(4) 7.8	(13) 7.8
FRINGETTE, Min, mp		
no reports	(13) 7.6	(9) 8.2

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
FRITZ THIEDEMANN, HT, or		
(10) 6.9	(24) 6.5	(15) 5.3
FROSTFIRE, Min, mr		
(2) 6.5	(37) 7.8	(24) 7.0
GARDEN STATE, Gr, mp		
(32) 8.1	(157) 7.7	(78) 7.5
GARDEN SUPREME, F, ob		
(2) 4.5	(9) 7.4	(4) 6.0
GARTENDIREKTOR O. LINNE, S, lr&dp		
(17) 8.9	(183) 9.7	(33) 8.6
GARVEY, HT, pb		
(2) 7.6	(21) 6.4	(10) 5.2
GAY DEBUTANTE, HT, pb		
(2) 9.0	(19) 7.3	(3) 8.0
GAY PRINCESS, F, lp		
(45) 8.0	(194) 8.0	(146) 7.9
GAYTIME, F, rb		
(14) 8.2	(47) 7.5	(50) 7.1
GINGER, F, or		
(20) 8.6	(199) 8.0	(134) 8.6
GIRL SCOUT, F, dy		
(7) 6.3	(51) 5.6	(23) 5.4

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
GOLD CROWN, HT, my		
(9) 6.8	(32) 6.9	(17) 4.7
GOLDEN CASCADE, LCl, my		
no reports	(1) 10.0	(1) 5.0
GOLDEN CHALICE, HT, dy		
no reports	(2) 8.0	(3) 7.9
GOLDEN GIANT, HT, my		
(48) 7.7	(113) 6.9	(92) 6.6
GOLDEN HAZE, HT, yb		
(1) 8.0	(30) 7.0	(2) 6.8
GOLDEN LACE, F, dy		
(4) 8.1	(13) 5.3	(7) 6.4
GOLDEN LUSTRE, HT, ab		
(2) 9.0	(21) 6.1	(10) 5.7
GOLDEN SALUTE, HT, dy		
(3) 7.6	(34) 6.5	(18) 6.8
GOLDEN SLIPPERS, F, yb		
(102) 7.6	(221) 6.8	(171) 7.3
GOLDEN SPLENDOR, HT, dy		
(3) 6.0	(20) 7.1	(20) 7.7
GOLDEN SUNSHINE, HT, my		
(2) 7.0	(21) 5.9	(17) 8.1

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
GOLDEN WAVE (DR. A. J. VERHAGE), HT, dy		
(2) 5.0	(23) 6.5	(9) 6.1
GOLDGLEAM, F		
no reports	(2) 8.0	no reports
GOLDMARIE, F, dy		
(1) 8.0	(1) 6.5	(5) 4.9
GOLDSCHATZ, F		
no reports	no reports	no reports
GOLDTOPAS, F, yb		
(1) 8.0	(15) 7.6	(1) 8.0
GOVERNOR MARK HATFIELD, Gr, dr		
(9) 7.7	(44) 7.4	(31) 7.4
GRACIOUS LADY, HT, pb		
(3) 8.6	(34) 7.1	(3) 6.7
GRANADA, HT, rb		
(115) 9.8	(568) 8.5	(451) 8.7
GRAND OPERA, HT, pb		
(7) 7.8	(32) 7.0	(21) 7.0
GRAND SLAM, HT, mr		
(40) 7.7	(155) 7.5	(150) 7.4
GRUSS AN BERLIN (GREETINGS), HT, mr		
(8) 8.2	(51) 7.9	(19) 7.9

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
HALLMARK, HT, mr		
(10) 7.4	(76) 7.9	(48) 7.4
HAMBURGER PHOENIX, K, mr		
no reports	(9) 7.3	(3) 8.0
HANSEAT, S		
(3) 9.3	(1) 8.0	no reports
HANSESTADT LUEBECK, F, mr		
no reports	no reports	no reports
HAPPY BIRTHDAY, HT, lr&dp		
(2) 7.0	(9) 6.3	(15) 6.3
HAPPY EVENT, F, yb		
(2) 8.0	no reports	(1) 8.0
HARRY G. HASTINGS, HT		
(3) 9.3	(8) 7.0	(15) 7.6
HEIDELBERG, LCl, mr		
(10) 8.4	(24) 8.2	(12) 8.7
HEINZ ERHARDT, F, mr		
(1) 6.0	(5) 6.2	(1) 8.0
HELENE SCHOEN, HT, mr		
(34) 7.5	(131) 7.2	(104) 7.7
HENKELL ROYAL, HT		
(2) 7.0	(15) 7.7	(2) 6.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
HERBSTFEUER, E		
(2) 6.0	(1) 6.0	no reports
HEURE MAUVE, HT, m		
(2) 7.0	(6) 6.1	(3) 7.9
HIGH ESTEEM, HT, pb		
(16) 7.7	(87) 7.0	(45) 6.1
HI HO, ClMin, lr&dp		
(5) 7.1	(23) 7.9	(20) 9.0
HONEY CHILE, F, mp		
(1) 8.0	(12) 7.1	(9) 9.0
HONEY FAVORITE, HT, pb		
(22) 7.2	(120) 8.0	(50) 8.0
HOUSTONIAN, Gr, dr		
no reports	(2) 3.5	(2) 8.0
HURRA, F		
no reports	(5) 8.0	no reports
ICEBERG, F, w		
(36) 8.7	(95) 8.5	(65) 8.2
ICE WHITE, F, w		
(13) 8.9	(52) 8.6	(43) 8.2
IMPERIAL GOLD, HT, my		
no reports	(8) 6.8	(3) 7.3

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
IMPERIAL QUEEN, HT, mr		
(7) 6.7	(28) 8.1	(13) 6.1
INDIAN GOLD, F, yb		
(1) 6.0	(7) 5.1	(3) 7.1
INTERMEZZO, HT, m		
(8) 7.2	(46) 6.3	(39) 6.3
ISABEL DE ORTIZ, HT, pb		
(34) 7.8	(214) 8.3	(60) 8.2
IVORY TRIUMPH, F, w		
(1) 5.0	(10) 7.3	(7) 7.8
JACK FROST, F, w		
no reports	(6) 7.1	(19) 7.3
JAMAICA, HT, mr		
(22) 8.5	(159) 7.9	(154) 7.6
JANTZEN GIRL, Gr, mr		
(5) 7.8	(42) 8.5	(14) 6.3
JEANIE WILLIAMS, Min, rb		
(8) 7.6	(38) 7.4	(47) 8.5
JET FIRE, F, or		
(1) 6.0	(1) 8.0	(4) 9.0
JET TRAIL, Min, w		
(14) 8.5	(53) 8.1	(50) 8.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
JIAN, Min, mr		
(3) 8.3	(10) 6.7	(6) 8.5
JOHN F. KENNEDY, HT, w		
(49) 7.7	(326) 7.5	(167) 7.7
JOHN S. ARMSTRONG, Gr, dr		
(66) 8.4	(359) 8.3	(305) 8.4
JOLIE MADAME, HT, or		
(1) 10.0	(3) 5.0	(13) 6.9
JOSEPH'S COAT, LCl, rb		
(18) 7.3	(78) 7.5	(86) 7.9
JUNE TIME, Min, lp		
(7) 8.6	(40) 7.7	(52) 8.5
KASSEL, LCl, or		
(4) 6.7	(25) 7.8	(12) 6.8
KATRINA, HT, lr&dp		
no reports	(1) 8.0	(3) 6.0
KING'S RANSOM, HT, dy		
(96) 8.1	(499) 7.9	(416) 8.2
KING'S ROW, S, yb		
no reports	no reports	(1) 6.0
KLAUS STORTEBEKER, HT, mr		
(5) 8.1	(43) 7.2	(20) 6.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
KOLNER KARNEVAL (COLOGNE CARNIVAL), HT, m		
(12) 7.9	(60) 8.0	(14) 7.9
KORDES' PERFECTA SUPERIOR, HT, mp		
(21) 8.2	(135) 7.8	(88) 7.3
LADY ANN, Min, mp		
no reports	(4) 7.2	(7) 7.3
LADY LE-RU, HRg, mp		
(2) 6.0	no reports	no reports
LA FONTAINE, F, my		
no reports	(55) 6.7	(11) 5.5
LANCASTER, ClHT, mr		
no reports	(7) 5.8	(4) 6.2
LAVENDER CHARM, HT, m		
(36) 7.3	(59) 6.3	(47) 6.8
LAVENDER LASSIE, HMsK, m		
(1) 6.0	(1) 4.0	(1) 8.0
LAVENDER LOVE, F, m		
(2) 7.0	(1) 8.0	no reports
LAVENDULA, F		
(3) 8.7	(2) 6.5	no reports
LEGENDARY, HT, lp		
(3) 8.0	(17) 7.0	(10) 5.3

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
LEMON ELEGANCE, HT, my		
(4) 8.0	(12) 7.6	(16) 7.5
LEMON GLOW, HT, my		
(2) 5.0	(39) 5.8	(21) 5.2
LEMON ICE, HT, my		
(1) 8.0	(5) 6.0	(3) 7.1
LEMON SPICE, HT, my		
(31) 8.0	(118) 8.2	(124) 8.0
LIBERTY BELL, HT, rb		
(5) 7.6	(42) 6.9	(19) 6.7
LILAC DAWN, F, m		
(5) 6.6	(48) 7.9	(42) 7.0
LILA TAN, HT, m		
(1) 6.0	(4) 5.5	no reports
LILA VIDRI, HT, m		
(3) 5.3	(3) 6.7	no reports
LILLI MARLENE, F, mr		
(19) 7.7	(87) 8.3	(47) 7.9
LITTLE JUAN, Min, mr		
(4) 10.0	(10) 5.5	(12) 7.2
LORI NAN, Min, lr&dp		
no reports	(17) 7.7	(13) 7.8

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
LOTTE GUNTART, HT, mr		
(41) 8.0	(146) 8.0	(112) 7.4
LUCKY LADY, Gr, lp		
(85) 8.4	(307) 7.8	(192) 7.3
LUCKY PIECE, HT, pb		
(29) 7.6	(209) 7.8	(44) 7.6
LYS ASSIA, F, ob		
(4) 6.7	(1) 6.0	no reports
MADRIGAL, HT, lr&dp		
(1) 6.0	(18) 6.1	(5) 6.4
MARCELLE GRET, HT, my		
no reports	(9) 5.8	(7) 4.6
MARGUERITE HILLING, HMoyesii		
(2) 4.0	(5) 8.0	(1) 8.0
MARIAN ANDERSON, HT, lr&dp		
(1) 8.0	(2) 8.0	(11) 8.3
MARJORIE LE GRICE, HT, ob		
no reports	(19) 5.7	(3) 5.3
MARY ADAIR, Min, ab		
(6) 8.0	(24) 7.8	(30) 8.3
MATTERHORN, HT, w		
(113) 8.0	(460) 7.7	(347) 7.4

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
MAUVE MELODEE, HT, m		
no reports	(1) 8.0	(10) 6.7
MAXIM, F		
no reports	no reports	no reports
MEDLEY, HT, lp		
(6) 8.0	(11) 5.4	(9) 6.4
METROPOLE, HT, mp		
(6) 7.5	(14) 7.9	(4) 7.1
MEXICANA, HT, rb		
(75) 8.0	(330) 7.8	(146) 7.5
MICHELE MEILLAND, HT, pb		
(43) 8.5	(109) 8.1	(122) 8.2
MIGNONNE, HT, mp		
(13) 7.9	(62) 7.0	(10) 6.7
MILORD, HT, mr		
(19) 7.8	(48) 7.1	(65) 7.0
MIRACLE, F, or		
(7) 7.7	(33) 7.8	(12) 7.3
MISCHIEF, HT, mp		
(30) 6.1	(86) 7.5	(78) 7.6
MISS CANADA (PACIFIC BEAUTY), HT, pb		
(16) 7.5	(12) 7.5	(4) 9.2

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
MISS IRELAND, HT, ob		
(8) 6.0	(23) 7.9	(7) 7.5
MISTER LINCOLN, HT, mr		
(121) 8.2	(690) 8.6	(451) 8.8
MITZI, HT, my		
(9) 7.1	(29) 6.0	(28) 7.2
MME. LINE RENAUD, HT, mr		
(6) 7.1	(14) 5.8	(7) 5.4
MME. LOUIS LAPERRIERE, HT, mr		
(4) 7.3	(22) 7.5	(3) 6.7
MONTE CARLO, HT, ob		
(4) 7.0	(12) 6.8	(10) 6.0
MOONLIGHT SONATA, HT, ab		
(10) 5.7	(68) 6.9	(40) 7.2
MOROCCO, HT, mr		
(6) 7.0	(23) 5.6	(6) 5.6
MOUNTAINEER, HT, pb		
(3) 6.2	(12) 5.5	(6) 4.5
MOUNT SHASTA, Gr, w		
(45) 8.2	(356) 8.3	(221) 8.0
MR. PAT, HT, dr		
(1) 6.0	(2) 5.0	(6) 6.9

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
MUSICALE, Gr, rb		
(2) 6.0	(1) 6.0	(1) 8.0
MYSTERIUM, F, yb		
(1) 8.0	(2) 8.0	no reports
NADINE, F, dr		
(1) 8.0	(12) 4.8	(1) 2.0
NEW ORLEANS, HT, dy		
(5) 9.4	(7) 7.2	(19) 5.5
NEW PENNY, Min, or		
(10) 7.9	(25) 7.0	(22) 7.9
NEWSACE, HT, ab		
no reports	(11) 5.9	(1) 8.0
NORTHERN DANCER, HT, ob		
(2) 8.0	(5) 6.0	no reports
NORTH STAR, HT, lp		
no reports	(2) 8.0	no reports
NOVA RED, Min, mr		
no reports	(12) 6.5	(12) 7.0
NYMPH, F, mp		
(1) 6.0	no reports	(1) 10.0
OKLAHOMA, HT, dr		
(73) 8.2	(396) 7.8	(306) 8.0

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
OLÉ, Gr, or		
(30) 7.6	(173) 8.4	(199) 8.5
OPAL JEWEL, Min, mp		
(11) 9.2	(48) 8.0	(19) 9.0
ORANGEADE, F, or		
(10) 8.3	(70) 8.5	(15) 8.4
ORANGE FLAME, HT, or		
(22) 7.3	(115) 7.1	(61) 7.1
ORANGE ICE, F, or		
(2) 7.0	(12) 6.1	(8) 5.4
ORANGE SENSATION, F, or		
(5) 9.3	(16) 7.7	(7) 7.4
OSKAR SCHEERER, Cls		
no reports	(7) 7.7	(1) 4.0
OVERTURE, F, m		
no reports	(10) 6.8	(6) 6.1
PADDY MCGREY, F, mp		
(8) 7.7	(23) 7.6	(13) 7.4
PALM SPRINGS, F, rb		
(6) 6.6	(19) 6.4	(35) 7.7
PAMELA TRAVERS, HT, mp		
(10) 7.2	(5) 7.6	(3) 7.8

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
PAPA MEILLAND, HT, dr		
(27) 7.6	(104) 7.6	(80) 7.7
PAPRIKA, F, or		
(2) 8.5	(4) 6.7	(1) 9.3
PARKDIREKTOR RIGGERS, K, dr		
(6) 8.2	(4) 6.7	(1) 5.0
PARKJUWEL, Cl, lr&dp		
(1) 6.0	(2) 8.0	(1) 8.0
PASCALI, HT, w		
(13) 8.7	(29) 8.1	(11) 8.0
PASTEL, HT, ab		
(3) 8.0	(10) 6.4	(6) 5.8
PAUL BUNYAN, Gr, dr		
(6) 7.3	(22) 7.1	(8) 5.3
PEACHY, Min, pb		
(8) 7.9	(8) 8.1	(12) 8.1
PEPE, HT, rb		
no reports	(6) 6.9	(1) 3.0
PICCADILLY, HT, rb		
(27) 7.7	(92) 7.3	(67) 7.3
PICOTEE, F, rb		
no reports	(8) 8.4	(16) 8.1

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
PIGALLE, HT, m		
no reports	(13) 6.4	(1) 4.0
PIGMY LAVENDER, F, m		
(1) 8.0	(2) 5.2	(8) 5.5
PILLAR OF FIRE, Cl, or		
(1) 6.0	(6) 6.8	(6) 5.4
PINK-A-BOO, F, mp		
(8) 7.8	(12) 7.0	(37) 8.1
PINK EMPEROR, HT, mp		
(1) 8.0	(8) 7.0	(5) 3.6
PINK EUTIN, F, mp		
(3) 6.0	(13) 8.0	(5) 7.8
PINK JOY, Min, lr&dp		
(3) 7.4	(14) 8.0	(22) 8.1
PINK MASTERPIECE, HT, pb		
(21) 7.5	(137) 7.2	(106) 6.8
PINK RIBBON, Min, lp		
(1) 10.0	(7) 7.3	(14) 8.2
PINK SPICE, HT, lp		
no reports	(10) 7.4	(1) 5.0
PIZZICATO, S, lp		
(1) 6.0	no reports	no reports

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
PLAIN TALK, F, mr		
(2) 9.0	(12) 7.1	(32) 7.9
POLONAISE, HT, mr		
(2) 4.5	(11) 6.4	(5) 5.9
POLYNESIAN SUNSET, HT, or		
(40) 7.3	(221) 7.3	(218) 7.4
PRAIRIE CHARM, S		
(1) 8.0	(1) 6.0	no reports
PRAIRIE DAWN, S		
no reports	(1) 6.0	no reports
PRAIRIE FIRE, S, mr		
(7) 8.3	no reports	(1) 8.0
PRAISE OF JIRO, F, or		
no reports	(1) 10.0	no reports
PRESTIGE, S, mr		
(1) 6.0	(2) 7.5	no reports
PRESUMIDA, Min, yb		
(3) 7.6	(25) 7.0	(8) 5.6
PRISSY MISSY, Min, mp		
(1) 4.0	(1) 10.0	(4) 9.0
PURPLE ELF, Min, m		
(4) 7.4	(10) 9.0	(10) 6.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
QUEEN FABIOLA, Gr, or		
(9) 6.8	(23) 6.3	(13) 7.1
QUEENIE, F, lp		
(3) 5.6	(28) 8.0	(7) 5.1
RABBIE BURNS, HT, mr		
(6) 6.8	(11) 5.4	(6) 5.1
RAYMOND CHENAULT, Cl		
no reports	(2) 9.0	no reports
RED AMERICAN BEAUTY, HT, mr		
(12) 5.6	(52) 6.6	(18) 7.0
RED ARROW, Min, mr		
(2) 9.0	(19) 7.7	(26) 7.9
RED CUSHION, F, dr		
(1) 8.0	(3) 7.3	(11) 8.1
RED DANDY, F, mr		
(4) 8.5	(12) 7.6	(2) 7.0
RED GLORY, F, mr		
(3) 8.7	(26) 9.2	(19) 8.6
RED KNIGHT, SeCl, dr		
(1) 6.0	(1) 6.0	(1) 8.0
RED WAND, ClMin, lr&dp		
no reports	(3) 5.6	(8) 8.1

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
RINA HERHOLDT, HT, pb		
(7) 8.9	(27) 7.3	(15) 6.5
RITTER VON BARMSTEDDE, K		
no reports	(2) 9.0	(1) 8.0
RODEO, F, or		
(2) 6.0	no reports	(2) 7.0
ROELOF BUISMAN, HT, mr		
(1) 8.0	(7) 7.3	no reports
ROMAN HOLIDAY, F, rb		
(33) 8.1	(230) 7.9	(162) 8.2
ROSE BOWL, HT, mr		
(2) 9.0	(27) 9.4	(18) 7.5
ROSE GAUJARD, HT, rb		
(56) 8.0	(293) 7.3	(238) 7.5
ROSE OPAL, HT, lr&dp		
(2) 6.0	(7) 7.5	no reports
ROSE QUEEN, HT, or		
(9) 5.9	(29) 6.6	(32) 7.0
ROUGE DE PARIS, F, mr		
no reports	no reports	no reports
ROYAL DAWN, Cl, mp		
no reports	(1) 8.5	no reports

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
ROYAL HIGHNESS, HT, lp		
(120) 9.0	(598) 9.3	(428) 8.6
ROYAL LAVENDER, Cl, m		
no reports	(7) 6.8	(7) 6.6
RUMBA (RHUMBA), F, rb		
(4) 8.5	(49) 7.3	(29) 7.9
SAARBRUCKEN, S, mr		
(1) 8.0	(2) 7.6	no reports
SABINE, HT, lr&dp		
(4) 4.5	(24) 8.7	no reports
SABRINA, HT, rb		
(2) 8.0	(6) 7.6	(1) 8.0
SAMBA, F, yb		
(3) 7.3	(3) 8.5	(3) 7.0
SAMOA, HT, or		
(14) 7.8	(71) 8.6	(28) 7.1
SAN FRANCISCO, HT, mr		
(14) 6.8	(73) 7.5	(81) 7.2
SARATOGA, F, w		
(53) 8.0	(213) 7.9	(128) 8.8
SCARLET GEM, Min, or		
(6) 8.5	(95) 8.1	(47) 9.2

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
SCARLET QUEEN ELIZABETH, F, or		
(6) 8.8	(22) 7.7	(8) 5.0
SCHARLACHGLUT, S, mr		
(6) 9.0	(11) 7.7	(2) 5.0
SEA FOAM, S, w		
(16) 8.5	(72) 8.4	(34) 7.7
SENECA QUEEN, HT, pb		
(9) 6.2	(70) 6.4	(32) 6.4
SENIOR PROM, HT, lr&dp		
(2) 5.0	(13) 7.6	no reports
SEPTEMBER WEDDING, HT, mp		
(2) 7.0	no reports	no reports
SEVENTEEN, F, pb		
(3) 7.4	(32) 7.9	(9) 6.7
SEVENTH HEAVEN, HT, dr		
(19) 7.5	(65) 7.9	(48) 7.4
SHASTA, F, w		
no reports	(20) 7.3	(2) 7.0
SHE, F, or		
(3) 6.7	(5) 7.9	(3) 8.7
SHERRY, F, r		
(2) 8.0	(1) 8.0	(1) 8.0

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
SHOWBOAT, F, yb		
(1) 8.0	(1) 8.0	(6) 7.0
SIBELIUS, HT, mr		
(3) 7.0	(1) 6.0	(2) 6.5
SIERRA SUNSET, Cl, yb		
(1) 6.0	(7) 7.1	(16) 8.2
SILVER LINING, HT, pb		
(46) 8.1	(168) 7.7	(127) 7.2
SILVER TIPS, Min, pb		
(4) 8.3	(20) 7.8	(16) 7.6
SIMON BOLIVAR, HT, or		
(39) 8.5	(128) 8.4	(120) 7.5
SIMPLEX, Min, w		
no reports	(19) 8.6	(5) 8.4
SINCERA, HT, w		
(30) 6.7	(139) 6.8	(97) 7.0
SKYLARK, F, mp		
no reports	(12) 8.2	(4) 7.8
SMALL TALK, F, my		
(7) 6.3	(16) 7.4	(54) 7.5
SNOW FAIRY, F, w		
(2) 7.6	(21) 7.1	(5) 7.8

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
SOMBRERO, F, pb		
(1) 6.0	(3) 6.3	(1) 8.0
SONG OF PARIS, HT, m		
(24) 7.1	(186) 6.7	(133) 6.0
SOUTH SEAS, HT, mp		
(51) 8.0	(397) 8.5	(319) 8.2
SOUV. DU PRESIDENT PLUMECOCQ, HT, mr		
(2) 7.0	(2) 7.1	(2) 6.0
SPEAKER SAM, HT, yb		
(6) 7.0	(31) 6.8	(29) 6.3
STADT ROSENHEIM, S		
(2) 3.0	(7) 7.7	no reports
STARBRIGHT, HT, w		
(4) 8.0	(16) 7.2	(3) 6.6
STARINA, Min, lr&dp		
(16) 9.5	(75) 8.9	(31) 9.6
STARKRIMSON, HT, dr		
(5) 5.0	(15) 7.4	(2) 6.0
STRAWBERRY BLONDE, Gr, or		
(14) 7.5	(60) 6.4	(67) 7.6
SUMMER RAINBOW, HT, pb		
(9) 8.1	(61) 8.0	(57) 7.1

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
SUMMER SONG, F, ob		
(2) 8.5	(7) 5.7	no reports
SUMMER SUNSHINE, HT, dy		
(46) 7.5	(283) 7.7	(281) 8.1
SUNSPOT, F, my		
(1) 8.0	(25) 6.6	(16) 5.7
SUPREME'S SISTER, F, ab		
no reports	no reports	no reports
SWARTHMORE, HT, pb		
(47) 8.6	(392) 8.6	(286) 8.3
SWEET ADELINE, HT, mp		
no reports	no reports	(6) 7.7
SWEET AFTON, HT, w		
(22) 8.0	(154) 8.2	(153) 7.8
SWEET AND LOW, F, pb		
(1) 8.0	(7) 6.9	(5) 6.0
SWEET HARMONY, F, yb		
(2) 7.0	(3) 5.0	no reports
SWEET LELANIE, HT, pb		
(1) 4.0	(1) 9.0	(8) 6.9
SWEET TALK, F, w		
(4) 6.5	(10) 8.1	(22) 7.4

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
SWEET VIVIEN, F, pb		
no reports	(1) 2.0	(11) 8.5
SWORD OF HOPE, HT, mr		
(11) 6.2	(28) 6.7	(8) 5.7
SYMPATHIE, K		
no reports	(2) 7.0	no reports
TAMBOURINE, F, rb		
(2) 7.0	(2) 7.0	(4) 6.5
TEENAGER, HT, pb		
(8) 6.8	(39) 6.9	(10) 6.5
THANKSGIVING, HT, ob		
(4) 6.5	(21) 7.4	(39) 7.7
THE FARMER'S WIFE, F, lp		
(44) 7.7	(123) 7.7	(57) 7.4
THE JESTER, Gr, yb		
(1) 10.0	no reports	no reports
THERESE BAUER, HSet		
(1) 6.0	(1) 6.0	no reports
THUNDERBIRD, F, mr		
(1) 8.0	(8) 8.5	(5) 7.4
TIARA, F, w		
(1) 5.0	(1) 8.0	(10) 7.2

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
TICKLED PINK, HT, mp		
(9) 8.3	(31) 7.5	(55) 7.5
TINY JACK, Min, mr		
(6) 8.7	(20) 6.5	(19) 7.3
TINY JILL, Min, mp		
(3) 5.6	(17) 7.6	(21) 7.7
TIPTOP, F		
(1) 8.0	(9) 8.9	no reports
TOPPER, HT, mr		
no reports	(1) 8.0	no reports
TOUGGOURT, F, or		
no reports	no reports	no reports
TOY CLOWN, Min, rb		
(5) 9.0	(50) 8.8	(34) 8.9
TRADE WIND, HT, rb		
(12) 8.0	(84) 7.7	(73) 7.9
TRAVIATA, HT, rb		
(15) 7.2	(93) 7.1	(41) 7.0
TRINKET, Min, mp		
(2) 7.5	(8) 8.6	(13) 8.8
TROJAN, Gr, yb		
(3) 5.3	(19) 6.1	(9) 4.5

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
TROPICANA, HT, or		
(169) 9.3	(852) 9.3	(592) 9.0
TRUMPET, F, my		
(1) 6.0	(2) 6.0	(2) 9.0
UNCLE SAM, HT, lr&dp		
(2) 7.0	(6) 8.3	(12) 8.9
UNCLE WALTER, HT, mr		
(17) 7.6	(64) 6.0	(45) 6.8
VAGABONDE, F, ab		
(1) 6.0	(9) 8.2	no reports
VALENCIA, HT, ab		
(27) 6.9	(137) 7.0	(84) 7.7
VERA DALTON, F, mr		
(1) 4.0	(3) 8.3	(10) 8.7
VIENNA CHARM, HT, ob		
(6) 8.7	(48) 7.2	(12) 6.0
VIKING QUEEN, Cl, mp		
(17) 6.3	(23) 7.7	no reports
VILLA DE MADRID, HT, or		
(7) 5.2	(54) 6.4	(28) 6.5
VIM, HT, mp		
no reports	(2) 5.5	no reports

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
VIOLET CARSON, F, yb		
(4) 8.0	(5) 9.0	(1) 8.9
WALSHAM COLD, HT, my		
(2) 7.0	(2) 7.0	(2) 3.5
WAR DANCE, Gr, or		
(20) 6.9	(118) 6.9	(115) 6.9
WEISSE AUS SPARRIESHOOP, S		
no reports	(10) 7.4	(4) 8.2
WENDY CUSSONS, HT, mr		
(35) 7.6	(146) 6.8	(107) 7.1
WESTMINSTER, HT, mr		
(6) 5.8	(10) 6.1	(7) 6.3
WHITE BABY STAR, Min, w		
(5) 6.8	(6) 7.3	(3) 6.7
WHITE BEAUTY, HT, w		
(3) 7.3	(15) 5.8	(24) 6.7
WHITE DIAN, Min, w		
(2) 5.0	(7) 5.8	(5) 7.2
WHITE KING, Min, w		
(2) 4.0	(4) 6.2	(10) 7.8
WHITE MA PERKINS, F, w		
(1) 6.0	(2) 4.0	no reports

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
WHITE PRINCE, HT, w		
(9) 8.0	(55) 6.0	(25) 6.4
WILLIAMSBURG, HT, lp		
no reports	(1) 4.0	(10) 5.8
WILLIE MAE, Min, mr		
(6) 7.7	(20) 6.6	(26) 8.1
WINIFRED COULTER, F, rb		
(4) 5.0	(19) 8.1	(63) 8.7
WISBECH GOLD, HT		
(4) 6.0	(2) 6.2	(3) 7.8
WOBURN ABBEY, F, ob		
(15) 7.9	(126) 7.7	(71) 7.2
WORLD'S FAIR SALUTE, HT, mr		
(22) 7.1	(139) 7.2	(110) 7.4
YELLOW CUSHION, F, my		
(1) 4.0	(9) 8.1	(5) 6.8
YELLOW DOLL, Min, my		
(24) 8.8	(74) 8.6	(82) 8.6
YELLOW NECKLACE, Min, my		
(3) 7.7	(15) 8.0	(17) 8.3
YELLOW QUEEN ELIZABETH, Gr, my		
(5) 5.8	(14) 6.5	(14) 6.0

<u>REGION I</u>	<u>REGION II</u>	<u>REGION III</u>
ZAMBRA, F, ob		
(16) 7.6	(43) 7.3	(34) 7.6
ZITRONENFALTER, Hmsk, my		
(1) 10.0	(12) 6.7	(1) 6.0
ZORINA, F, ob		
(1) 8.0	(4) 8.0	(3) 8.6
ZWEIBRUCKEN, X, dr		
(2) 8.0	(2) 7.7	no reports

Table 1. Top rated hybrid tea roses in Region I.

Rose	Color	No. of Reports	Rating
Granada	rb	115	9.8
Tropicana	or	196	9.3
Fragrant Cloud	or	41	9.2
Royal Highness	lp	120	9.0
Christian Dior	mr	93	8.9
Eiffel Tower	mp	71	8.8
Bewitched	mp	98	8.6
Chicago Peace	pb	131	8.6
Swarthmore	pb	47	8.6
Champagne	yb	37	8.5
Michelle Meilland	pb	43	8.5
Simon Bolivar	or	39	8.5

Table 2. Top rated hybrid tea roses in Region II.

Rose	Color	No. of Reports	Rating
Royal Highness	lp	598	9.3
Tropicana	or	852	9.3
Chicago Peace	pb	648	8.9
American Heritage	yb	551	8.6
Mister Lincoln	mr	690	8.6
Swarthmore	pb	392	8.6
Granada	rb	568	8.5
Simon Bolivar	or	128	8.4
Avon	dr	209	8.3
Bewitched	mp	392	8.3
Isabel de Ortiz	pb	214	8.3
Eiffel Tower	mp	388	8.2
Sweet Afton	w	154	8.2

Table 3. Top rated hybrid tea roses in Region III.

Rose	Color	No. of Reports	Rating
Tropicana	or	592	9.0
Chicago Peace	pb	479	8.9
Mister Lincoln	mr	451	8.8
Granada	rb	451	8.7
Royal Highness	lp	428	8.6
Avon	dr	169	8.5
Christian Dior	mr	438	8.4
Swarthmore	pb	286	8.3
Michelle Meilland	pb	122	8.2
Summer Sunshine	dy	281	8.1
Columbus Queen	mp	229	8.0
Lemon Spice	my	124	8.0
Oklahoma	dr	306	8.0

Table 4. Top rated floribunda roses in Region I.

Rose	Color	No. of Reports	Rating
Ice White	w	13	8.9
Scarlet Queen Elizabeth	or	6	8.8
Iceburg	w	36	8.7
Ginger	or	20	8.6
America's Junior Miss	lp	11	8.5
Evelyn Fison	mr	7	8.4
Daily Sketch	rb	24	8.3
Orangeade	or	10	8.3
Gaytime	rb	14	8.2
Gay Princess	lp	45	8.0
Woburn Abbey	ob	15	7.9
Apricot Nectar	ab	68	7.8
Dearest	pb	6	7.7
Lilli Marlene	mr	19	7.7

Table 5. Top rated floribunda roses in Region II.

Rose	Color	No. of Reports	Rating
Dearest	pb	15	9.3
Ice White	w	52	8.6
Iceburg	w	95	8.5
Orangeade	or	70	8.5
Apricot Nectar	ab	364	8.3
Lilli Marlene	mr	87	8.3
Daily Sketch	rb	65	8.1
Evelyn Fison	mr	21	8.1
Circus Parade	yb	164	8.0
Gay Princess	lp	194	8.0
Ginger	or	199	8.0
Scarlet Queen Elizabeth	or	22	7.7
Woburn Abbey	ob	126	7.7
America's Junior Miss	lp	76	7.6

Table 6. Top rated floribunda roses in Region III.

Rose	Color	No. of Reports	Rating
Ginger	or	134	8.6
Evelyn Fison	mr	12	8.4
Orangeade	or	15	8.4
Elizabeth of Glamis	mp	148	8.3
Iceburg	w	65	8.2
Ice White	w	43	8.2
Apricot Nectar	ab	215	8.0
Fancy Talk	pb	20	8.0
Gay Princess	lp	146	7.9
Lilli Marlene	mr	47	7.9
Circus Parade	yb	78	7.8
Daily Sketch	rb	40	7.7
Woburn Abbey	ob	71	7.2
Gaytime	rb	50	7.1

Table 7. Top rated grandiflora roses in Region I.

Rose	Color	No. of Reports	Rating
Camelot	lp	108	8.7
John S. Armstrong	dr	66	8.4
Lucky Lady	lp	85	8.4
Mount Shasta	w	45	8.2
Garden State	mp	32	8.1
Jantzen Girl	mr	5	7.8
Governor Mark Hatfield	dr	9	7.7
Ole'	or	30	7.6

Table 8. Top rated grandiflora roses in Region II.

Rose	Color	No. of Reports	Rating
Jantsen Girl	mr	42	8.5
Camelot	lp	446	8.4
Olé	or	173	8.4
John S. Armstrong	dr	359	8.3
Mount Shasta	w	356	8.3
Lucky Lady	lp	307	7.8
Garden State	mp	157	7.7
Governor Mark Hatfield	dr	44	7.4

Table 9. Top rated grandiflora roses in Region III.

Rose	Color	No. of Reports	Rating
Ole'	or	199	8.5
John S. Armstrong	dr	305	8.4
Camelot	lp	348	8.3
Mount Shasta	w	221	8.0
Garden State	mp	78	7.5
Governor Mark Hatfield	dr	31	7.4
Lucky Lady	lp	192	7.3
Jantzen Girl	mr	14	6.3

Table 10. Top rated miniature roses in Region I.

Rose	Color	No. of Reports	Rating
Starina	lr&dp	16	9.5
Opal Jewel	mp	11	9.2
Toy Clown	-	5	9.0
Beauty Secret	mr	12	8.9
Yellow Doll	my	24	8.8
Tiny Jack	mr	6	8.7
Baby Darling	ob	16	8.6
Baby Ophelia	pb	7	8.6
June Time	lp	7	8.6
Dwarfking	mr	15	8.5
Jet Trail	w	14	8.5
Scarlet Gem	or	6	8.5
Mary Adair	ab	6	8.0
New Penny	or	10	7.9
Peachy	pb	8	7.9

Table 11. Top rated miniature roses in Region II.

Rose	Color	No. of Reports	Rating
Purple Elf	m	10	9.0
Dwarfking	mr	97	8.9
Starina	lr&dp	75	8.9
Toy Clown	-	50	8.8
Yellow Doll	my	74	8.6
Beauty Secret	mr	49	8.5
Baby Darling	ob	65	8.4
Cricri	mp	61	8.1
Jet Trail	w	53	8.1
Peachy	pb	8	8.1
Scarlet Gem	or	95	8.1
Debbie	yb	34	8.0
Opal Jewel	mp	48	8.0
Yellow Necklace	my	15	8.0
Frostfire	mr	37	7.8
Mary Adair	ab	24	7.8

Table 12. Top rated miniature roses in Region III.

Rose	Color	No. of Reports	Rating
Starina	lr&dp	31	9.6
Beauty Secret	mr	46	9.2
Scarlet Gem	or	47	9.2
Opal Jewel	mp	19	9.0
Toy Clown	-	34	8.9
Dwarfking	mr	46	8.8
Baby Darling	ob	59	8.7
Yellow Doll	my	82	8.6
Baby Ophelia	pb	37	8.5
Jeanie Williams	rb	47	8.5
Jet Trail	w	50	8.5
June Time	lp	52	8.5
Mary Adair	ab	30	8.3
Yellow Necklace	my	17	8.3
Fringette	mp	9	8.2

Table 13. Top rated climbing roses in Region I.

Rose	Color	No. of Reports	Rating
Heidelberg	mr	10	8.4
Joseph's Coat	rb	18	7.3
Kassel	or	4	6.7
Climbing Spartan	or	4	6.5

Table 14. Top rated climbing roses in Region II.

Rose	Color	No. of Reports	Rating
Heidelberg	mr	24	8.2
Kassel	or	25	7.8
Climbing Spartan	or	21	7.6
Joseph's Coat	rb	78	7.5

Table 15. Top rated climbing roses in Region III.

Rose	Color	No. of Reports	Rating
Heidelberg	mr	12	8.7
Climbing Spartan	or	21	8.1
Joseph's Coat	rb	86	7.9
Kassel	or	12	6.8

Table 16. Top rated shrub roses
in Region I.

Rose	Color	No. of Reports	Rating
Scharlachglut	mr	6	9.0
Gartendirektor O. Linne	mp	17	8.9
Sea Foam	w	16	8.5
Fresh Pink	lp	4	7.9
Folk Song	-	2	7.0

Table 17. Top rated shrub roses
in Region II.

Rose	Color	No. of Reports	Rating
Gartendirektor O. Linne	mp	183	9.7
Sea Foam	w	72	8.4
Folk Song	-	9	7.8
Fresh Pink	lp	4	7.8
Scharlachglut	mr	11	7.7

Table 18. Top rated shrub roses
in Region III.

Rose	Color	No. of Reports	Rating
Gartendirektor O. Linne	mp	33	8.6
Fresh Pink	lp	13	7.8
Sea Foam	w	34	7.7
Folk Song	-	6	6.9
Scharlachglut	mr	2	6.9

Table 19. Roses Receiving an
'Excellent' (9.0 to 10.0)
Rating in Region I

Bel Ange, HT	9.3*	3**
Brandenburg, HT	9.0	9
Cl. Baby Gold Star, ClMin	9.5	4
Cl. Show Garden, SeCl	10.0	1
Confederation, HT	10.0	1
Fragrant Cloud, HT	9.2	41
Gay Debutante, HT	9.0	2
Golden Lustra, HT	9.0	2
Granada, HT	9.8	115
Hanseat, S	9.3	3
Harry G. Hastings, HT	9.3	3
Jolie Madame, HT	10.0	1
Little Juan, Min	10.0	4
New Orleans, HT	9.4	5
Opal Jewel, Min	9.2	11
Orange Sensation, F	9.3	5
Plain Talk, F	9.0	2
Red Arrow, Min	9.0	2
Rose Bowl, HT	9.0	2
Royal Highness, HT	9.0	120
Scharlachglut, S	9.0	6
Starina, Min	9.5	16
The Jester, Gr	10.0	1
Toy Clown, Min	9.0	5
Tropicana, HT	9.3	169

* Rating

**Number of Reports

Table 20. Roses Receiving an
'Excellent' (9.0 to 10.0)
Rating in Region II

Attraktion, F	9.2*	6**
Carina, HT	10.0	1
Dearest, F	9.3	15
Der Krad, HT	10.0	1
Drummer Boy, F	10.0	1
Frank Serpa, Gr	10.0	1
Gartendirektor O. Linne, S	9.7	183
Golden Cascade, LCl	10.0	1
Prissy Missy, Min	10.0	1
Purple Elf, Min	9.0	10
Raymond Chenault, Cl	9.0	2
Red Gloxy, F	9.2	26
Ritter Von Barmstede, K	9.0	2
Rose Bowl, HT	9.4	27
Royal Highness, HT	9.3	598
Sweet Lelanie, HT	9.0	1
Tropicana, HT	9.3	852
Violet Carson, F	9.0	5

* Rating

**Number of Reports

Table 21. Roses Receiving an
'Excellent' (9.0 to 10.0)
Rating in Region III

Beauty Secret, Min	9.2*	46**
Carina, HT	9.0	2
Flaming Arrow, F	9.0	2
Hi Ho, ClMin	9.0	20
Honey Chile, F	9.0	9
Jet Fire, F	9.0	4
Miss Canada, HT	9.2	4
Nymph, F	10.0	1
Opal Jewel, Min	9.0	19
Paprika, F	9.3	1
Prissy Missy, Min	9.0	4
Scarlet Gem, Min	9.2	47
Starina, Min	9.6	31
Tropicana, HT	9.3	592
Trumpet, F	9.0	2

* Rating

**Number of Reports

Table 22. Roses Receiving an
'Outstanding' (8.0 to 8.9)
Rating in Region I
 (Roses receiving fewer than
 25 reports are not listed)

American Heritage, HT	8.2*	109**
Avon, HT	8.3	40
Baby Darling, Min	8.6	16
Bewitched, HT	8.6	98
Bob Hope, HT	8.2	43
Camelot, Gr	8.7	108
Champagne, HT	8.5	37
Chicago Peace, HT	8.6	131
Christian Dior, HT	8.9	93
Columbus Queen, HT	8.2	57
Eiffel Tower, HT	8.8	71
Garden State, Gr	8.1	32
Gay Princess, F	8.0	45
Ginger, F	8.6	20
Iceberg, F	8.7	36
John S. Armstrong, HT	8.4	66
King's Ransom, HT	8.1	96
Lotte Gunthart, HT	8.0	41
Lucky Lady, Gr	8.4	85
Matterhorn, HT	8.0	113
Mexicana, HT	8.0	75
Michele Meilland, HT	8.5	43
Mister Lincoln, HT	8.2	121
Oklahoma, HT	8.2	73
Roman Holiday, F	8.1	33
Rose Gaujard, HT	8.0	56
Saratoga, F	8.0	53
Silver Lining, HT	8.1	46
Simon Bolivar, HT	8.5	39
South Seas, HT	8.0	51
Swarthmore, HT	8.6	47

* Rating

**Number of Reports

Table 23. Roses Receiving an
'Outstanding' (8.0 to 8.9)
Rating in Region II
(Roses receiving fewer than
25 reports are not listed)

American Heritage, HT	8.6*	551**	Isabel de Ortiz, HT	8.3	214
Apricot Nectar, F	8.3	364	Jantzen Girl, Gr	8.5	42
Avon, HT	8.3	209	Jet Trail, Min	8.1	53
Baby Darling, Min	8.4	65	John S. Armstrong, HT	8.3	359
Beauty Secret, Min	8.5	49	Cologne Carnival, HT	8.0	60
Bewitched, HT	8.3	392	Lemon Spice, HT	8.2	118
Camelot, Gr	8.4	445	Lilli Marlene, F	8.3	87
Champagne, HT	8.1	245	Lotte Gunthart, HT	8.0	146
Chicago Peace, HT	8.9	648	Michele Meilland, HT	8.1	109
Chipper, Min	8.0	63	Mister Lincoln, HT	8.6	690
Circus Parade, F	8.0	164	Mount Shasta, Gr	8.3	356
Colour Wonder, HT	8.4	29	Ole, Gr	8.4	173
Coup de Foudre, F	8.1	61	Orangeade, F	8.5	70
Daily Sketch, F	8.1	65	Pascali, HT	8.1	29
Dame de Coeur, HT	8.0	68	Queenie, F	8.0	28
Debbie, Min	8.0	34	Samoa, HT	8.6	71
Dwarfking, Min	8.9	97	Scarlet Gem, Min	8.1	93
Eiffel Tower, HT	8.2	388	Sea Foam, S	8.4	72
Europeana, F	8.3	65	Simon Bolivar, HT	8.4	128
Fragrant Cloud, HT	8.8	84	South Seas, HT	8.5	397
Gay Princess, F	8.0	194	Starina, Min	8.9	75
Ginger, F	8.0	199	Summer Rainbow, HT	8.0	61
Granada, HT	8.5	568	Swarthmore, HT	8.6	392
Honey Favorite, HT	8.0	120	Sweet Afton, HT	8.2	154
Iceberg, F	8.5	95	Toy Clown, Min	8.8	50
Ice White, F	8.6	52	Yellow Doll, Min	8.6	74
Imperial Queen, HT	8.1	28			

* Rating

**Number of Reports

Table 24. Roses Receiving an
'Outstanding' (8.0 to 8.9)
Rating in Region III
(Roses receiving fewer than
25 reports are not listed)

Apricot Nectar, F	8.0*	215**	Isabel de Ortiz, HT	8.2	60
Avon, HT	8.5	169	Jeanie Williams, Min	8.5	47
Baby Darling, Min	8.7	59	Jet Trail, Min	8.5	50
Baby Ophelia, Min	8.5	37	John S. Armstrong, HT	8.4	305
Camelot, Gr	8.3	348	June Time, Min	8.5	52
Chicago Peace, HT	8.9	479	King's Ransom, HT	8.2	416
Chipper, Min	8.7	34	Lemon Spice, HT	8.0	124
Christian Dior, HT	8.4	438	Mary Adair, Min	8.3	30
Columbus Queen, HT	8.0	229	Michele Meilland, HT	8.2	122
Cri Cri, Min	8.3	49	Mister Lincoln, HT	8.8	451
Debbie, Min	8.1	31	Mount Shasta, Gr1	8.0	221
Dwarfking, Min	8.8	46	Oklahoma, HT	8.0	306
Elizabeth of Glamis, F	8.3	148	Ole, Gr	8.5	199
Europeana, F	8.6	30	Roman Holiday, F	8.2	162
Fragrance, HT	8.0	70	Royal Highness, HT	8.6	428
Fragrant Cloud, HT	8.2	41	Saratoga, F	8.8	128
Gartendirektor O. Linne, S	8.6	33	South Seas, HT	8.2	319
Ginger, F	8.6	134	Summer Sunshine, HT	8.1	281
Granada, HT	8.7	451	Swarthmore, HT	8.3	286
Honey Favorite, HT	8.0	50	Willie Mae, Min	8.1	26
Iceberg, F	8.2	65	Winifred Coulter, F	8.7	63
Ice White, F	8.2	43	Yellow Doll, Min	8.6	82

* Rating

**Number of Reports

**Table 25. Roses Receiving a 'Good'
(7.0 to 7.9) Rating in Region I
(Roses receiving fewer than
25 reports are not listed)**

Apricot Nectar, F	7.8*	68**
Bermudiana, HT	7.1	25
Candy Stripe, HT	7.8	27
Flaming Peace, HT	7.3	48
Golden Giant, HT	7.7	48
Golden Slippers, F	7.6	102
Grand Siam, HT	7.7	40
Helene Schoen, HT	7.5	34
John F. Kennedy, HT	7.7	49
Lavender Charm, HT	7.3	36
Lucky Piece, HT	7.6	29
Ole, Gr	7.6	30
Papa Meilland, HT	7.6	27
Piccadilly, HT	7.7	27
Polynesian Sunset, HT	7.3	40
Summer Sunshine, HT	7.5	46
The Farmer's Wife, F	7.7	44
Wendy Cussons, HT	7.6	35

* Rating

**Number of Reports

Table 26. Roses Receiving a 'Good'
(7.0 to 7.9) Rating in Region II
 (Roses receiving fewer than
 25 reports are not listed)

Allegro, HT	7.4*	62**	June Time, Min	7.7	40
Amarillo, HT	7.7	32	Kassel, LCl	7.8	25
America's Junior Miss, F	7.6	76	King's Ramson, HT	7.9	499
Anvil Sparks, HT	7.4	30	Klaus Stortebeker, HT	7.2	43
Baby Ophelia, Min	7.7	32	Kordes Perfecta Superior, HT	7.8	135
Ballet, HT	7.3	90	Lilac Dawn, F	7.9	48
Banzai, HT	7.7	52	Lucky Lady, Gr	7.8	307
Beaute, HT	7.3	70	Lucky Piece, HT	7.8	209
Bel Ange, HT	7.8	48	Matterhorn, HT	7.7	460
Bermudiana, HT	7.9	112	Mexicana, HT	7.8	330
Big Red, HT	7.4	174	Mignonne, HT	7.0	62
Blithe Spirit, HT	7.5	87	Milord, HT	7.1	46
Blue Moon, HT	7.9	47	Miracle, F	7.8	33
Bob Hope, HT	7.7	157	Mischief, HT	7.5	86
Candy Stripe, HT	7.5	202	New Penny, Min	7.0	25
Christian Dior, HT	7.9	479	Oklahoma, HT	7.8	396
Columbus Queen, HT	7.5	230	Orange Flame, HT	7.1	115
Coral Sunset, HT	7.8	33	Papa Meilland, HT	7.6	104
Cri Cri, Min	7.9	52	Piccadilly, HT	7.3	92
Crimson Duke, HT	7.4	75	Pink Masterpiece, HT	7.2	137
Cupids Charm, F	7.9	32	Polynesian Sunset, HT	7.3	221
Dave Davis, HT	7.6	75	Presumida, Min	7.0	25
Elizabeth of Glamis, F	7.4	156	Rina Herholdt, HT	7.3	24
Femina, HT	7.4	67	Roman Holiday, F	7.9	230
Flaming Peace, HT	7.1	258	Rose Gaujard, HT	7.3	293
Fragrance, HT	7.5	42	Rumba, F	7.3	49
Frostfire, Min	7.8	37	San Francisco, HT	7.5	73
Garden State, Gr	7.7	157	Saratoga, F	7.9	213
Gaytime, F	7.5	57	Seventeen, F	7.9	32
Governor Mark Hatfield, Gr	7.4	44	Seventh Heaven, HT	7.9	63
Gracious Lady, HT	7.1	34	Silver Lining, HT	7.7	168
Grand Opera, HT	7.0	32	Summer Sunshine, HT	7.7	283
Grand Slam, HT	7.5	155	The Farmer's Wife, F	7.7	123
Gruss an Berlin, HT	7.9	51	Tickled Pink, HT	7.5	31
Hallmark, HT	7.9	76	Trade Wind, HT	7.7	84
Helene Schoen, HT	7.2	131	Traviata, HT	7.1	93
High Esteem, HT	7.0	87	Valencia, HT	7.0	137
Jamaica, HT	7.9	159	Vienna Charm, HT	7.2	48
Jeanie Williams, Min	7.4	38	Woburn Abbey, F	7.7	126
John F. Kennedy, HT	7.5	326	World's Fair Salute, HT	7.2	139
Joseph's Coat, LCl	7.5	78	Zambra, F	7.3	43

* Rating

**Number of Reports

Table 27. Roses Receiving a 'Good'
(7.0 to 7.9) Rating in Region III
 (Roses receiving fewer than
 25 reports are not listed)

Allegro, HT	7.9*	26**	Milord, HT	7.0	65
American Heritage, HT	7.5	345	Mischief, HT	7.6	78
Banzai, HT	7.1	29	Mitzi, HT	7.2	28
Beaute, HT	7.4	58	Moonlight Sonata, HT	7.2	40
Bewitched, HT	7.9	290	Orange Flame, HT	7.1	61
Big Red, HT	7.1	88	Palm Springs, F	7.7	35
Blithe Spirit, HT	7.1	72	Papa Meilland, HT	7.7	80
Bob Hope, HT	7.4	98	Piccadilly, HT	7.3	67
Champagne, HT	7.6	246	Plain Talk, F	7.9	32
Circus Parade, F	7.8	78	Polynesian Sunset, HT	7.4	218
Coup de Foudre, F	7.8	39	Red Arrow, Min	7.9	26
Daily Sketch, F	7.7	40	Rose Gaujard, HT	7.5	239
Dame de Coeur, HT	7.3	28	Rumba, F	7.9	29
Darling, HT	7.9	22	Samoa, HT	7.1	28
Eiffel Tower, HT	7.8	284	San Francisco, HT	7.2	81
Flaming Peace, HT	7.1	141	Sea Foam, S	7.7	34
Garden State, Gr	7.5	78	Seventh Heaven, HT	7.4	48
Gay Princess, F	7.9	146	Silver Lining, HT	7.2	127
Gaytime, F	7.1	50	Simon Bolivar, HT	7.5	120
Golden Slippers, F	7.3	171	Sincera, HT	7.0	97
Governor Mark Hatfield, Gr	7.4	31	Small Talk, F	7.5	54
Grand Slam, HT	7.4	150	Strawberry Blonde, Gr	7.4	67
Hallmark, HT	7.4	48	Summer Rainbow, HT	7.1	57
Helene Schoen, HT	7.7	104	Sweet Afton, HT	7.8	153
Jamaica, HT	7.6	154	Thanksgiving, HT	7.7	39
John F. Kennedy, HT	7.7	167	The Farmer's Wife, F	7.4	57
Joseph's Coat, LCl	7.9	86	Tickled Pink, HT	7.5	55
Kordes Perfecta Superior, HT	7.3	88	Trade Wind, HT	7.9	73
Lilac Dawn, F	7.0	42	Traviata, HT	7.0	41
Lilli Marlene, F	7.9	47	Valencia, HT	7.7	84
Lotte Gunthart, HT	7.4	112	Wendy Cussons, HT	7.1	107
Lucky Lady, Gr	7.3	192	Woburn Abbey, F	7.2	71
Lucky Piece, HT	7.6	44	World's Fair Salute, HT	7.4	110
Matterhorn, HT	7.4	347	Zambra, F	7.6	34
Mexicana, HT	7.5	146			

* Rating

**Number of Reports

Table 28. Roses Receiving a 'Fair'
(6.0 to 6.9) Rating in Region I
(Roses receiving fewer than
15 reports are not listed)

Crimson Duke, HT	6.9*	18**
Elizabeth of Glamis, P	6.8	68
Femina, HT	6.7	14
Floriade, Gr	6.6	21
San Francisco, HT	6.8	14
Sincera, HT	6.7	30
Valencia, HT	6.9	27
Viking Queen, Cl	6.3	17
War Dance, Gr	6.9	20

* Rating

**Number of Reports

Table 29. Roses Receiving a 'Fair'
(6.0 to 6.9) Rating in Region II
 (Roses receiving fewer than
 15 reports are not listed)

Anne Watkins, HT	6.2*	32**	Mitzi, HT	6.0	29
Arpeggio, F	6.3	18	Moonlight Sonata, HT	6.9	68
Autumn Hues, F	6.9	23	Palm Springs, F	6.4	19
Bajazzo, HT	6.8	48	Queen Fabiola, Gr	6.3	23
Bonnie Pink, F	6.2	28	Red American Beauty, HT	6.6	52
Brandenburg, HT	6.5	19	Rose Queen, HT	6.6	29
Crown Jewel, F	6.0	64	Seneca Queen, HT	6.4	70
Dixie Belle, HT	6.6	58	Sincera, HT	6.8	139
Eminence, HT	6.6	116	Song of Paris, HT	6.7	186
First Lady, HT	6.8	18	Speaker Sam, HT	6.8	31
Floriade, Gr	6.4	120	Strawberry Blonde, Gr	6.4	60
Fritz Thiedeman, HT	6.5	24	Sunspot, F	6.6	25
Garvey, HT	6.4	21	Sword of Hope, HT	6.7	28
Gold Crown, HT	6.9	32	Teenager, HT	6.9	39
Golden Giant, HT	6.9	113	Tiny Jack, Min	6.5	20
Golden Lustre, HT	6.1	21	Trojan, Gr	6.1	19
Golden Slippers, F	6.8	221	Uncle Walter, HT	6.0	64
Golden Wave, HT	6.5	23	Villa de Madrid, HT	6.4	54
Intermezzo, HT	6.3	46	War Dance, Gr	6.9	118
La Fontaine, F	6.7	55	Wendy Cussons, HT	6.8	146
Lavender Charm, HT	6.3	59	White Prince, HT	6.0	55
Liberty Bell, HT	6.9	42	Willie Mae, Min	6.6	20
Madrigal, HT	6.1	18			

* Rating

**Number of Reports

**Table 30. Roses Receiving a 'Fair'
(6.0 to 6.9) Rating in Region III
(Roses receiving fewer than
15 reports are not listed)**

America's Junior Miss, F	6.2*	26**
Anne Watkins, HT	6.0	34
Bajazzo, HT	6.6	16
Ballet, HT	6.6	20
Bermudiana, HT	6.6	32
Blue Moon, HT	6.2	15
Candy Stripe, HT	6.9	32
Crimson Duke, HT	6.6	62
Floriade, Gr	6.5	116
Golden Giant, HT	6.6	92
Golden Salute, HT	6.8	18
Happy Birthday, HT	6.3	15
High Esteem, HT	6.1	45
Intermezzo, HT	6.3	39
Klaus Stortebeker, HT	6.5	20
Lavender Charm, HT	6.8	47
Liberty Bell, HT	6.7	19
Pink Masterpiece, HT	6.8	106
Rina Berholdt, HT	6.5	15
Seneca Queen, HT	6.4	32
Song of Paris, HT	6.0	133
Speaker Sam, HT	6.3	29
Uncle Walter, HT	6.8	45
Villa de Madrid, HT	6.5	28
War Dance, Gr	6.9	115
White Beauty, HT	6.7	24
White Prince, HT	6.4	25

* Rating

**Number of Reports

Table 31. Roses Receiving an
'Average' (5.0 to 5.9) Rating
in Region I

Alabaster, HT	5.6*	4**
Allegro, HT	5.1	5
Crown Jewel, F	5.1	23
First Lady, HT	5.0	1
Golden Wave, HT	5.0	2
Ivory Triumph, P	5.0	1
Lemon Glow, HT	5.0	2
Lila Vidri, HT	5.3	3
Moonlight Sonata, HT	5.7	10
Queenie, P	5.6	3
Red American Beauty, HT	5.6	12
Rose Queen, HT	5.9	9
Senior Prom, HT	5.0	2
Starkrimson, HT	5.0	5
Tiara, P	5.0	1
Tiny Jill, Min	5.6	3
Trojan, Gr	5.3	3
Villa de Madrid, HT	5.2	7
Westminster, HT	5.8	6
White Dian, Min	5.0	2
Winifred Coulter, F	5.0	4
Yellow Queen Elizabeth, Gr	5.8	5

* Rating

**Number of Reports

Table 32. Roses Receiving an
'Average' (5.0 to 5.9) Rating
in Region II

Apache, S	5.0*	5**
Balinese, HT	5.0	3
Baronne Finaz, HT	5.0	4
Cape Coral, HT	5.9	39
Cocktail, S	5.0	1
Dorothy Anderson, HT	5.7	17
Dorothy Peach, HT	5.5	22
Evensong, HT	5.9	16
Girl Scout, F	5.6	51
Golden Lace, F	5.3	13
Golden Sunshine, HT	5.9	21
Indian Gold, F	5.1	7
Jolie Madame, HT	5.0	3
Lancaster, ClHT	5.8	7
Lemon Glow, HT	5.8	39
Lila Tan, HT	5.5	4
Little Juan, Min	5.5	10
Marcelle Gret, HT	5.8	9
Marjorie Le Grice, HT	5.7	19
Madley, HT	5.4	11
Mme. Line Renaud, HT	5.8	14
Morocco, HT	5.6	23
Mountaineer, HT	5.5	12
Mr. Pat, HT	5.0	2
Newsace, HT	5.9	11
Pigmy Lavender, F	5.2	2
Rabbie Burns, HT	5.4	11
Red Wand, ClMin	5.6	3
Summer Song, F	5.7	7
Sweet Harmony, F	5.0	3
Vin, HT	5.5	2
White Beauty, HT	5.8	15
White Dian, Min	5.8	7

* Rating

**Number of Reports

Table 33. Roses Receiving an
'Average' (5.0 to 5.9) Rating
in Region III

Acapulco, F	5.0*	6**
Artiste, HT	5.0	2
Balinese, HT	5.8	11
Cape Coral, HT	5.8	25
Cl. Charles Mallerin, Cl	5.9	4
Crown Jewel, F	5.8	29
Dave Davis, HT	5.9	13
Dorothy Anderson, HT	5.4	8
Dorothy Peach, HT	5.3	10
Eminence, HT	5.9	39
Femina, HT	5.9	26
Fritz Thiedeman, HT	5.3	15
Garvey, HT	5.2	10
Girl Scout, F	5.4	23
Golden Cascade, LCl	5.0	1
Golden Luster, HT	5.7	10
Legendary, HT	5.3	10
Lemon Glow, HT	5.2	21
Marjorie Le Grice, HT	5.3	3
Mme. Line Renaud, HT	5.4	7
Morocco, HT	5.6	6
New Orleans, HT	5.5	19
Orange Ice, F	5.4	8
Parkdirektor Riggers, K	5.0	1
Pastel, HT	5.8	6
Paul Bunyan, Gr	5.3	8
Pigmy Lavender, F	5.5	8
Pillar of Fire, Cl	5.4	6
Pink Spice, HT	5.0	1
Polonaise, HT	5.9	5
Presumida, Min	5.6	8
Queenie, F	5.1	7
Rabbie Burns, HT	5.1	6
Scarlet Queen Elizabeth, F	5.0	8
Scharlachglut, S	5.0	2
Sunspot, F	5.7	16
Sword of Hope, HT	5.7	8
Williamsburg, HT	5.8	10

* Rating

**Number of Reports

Table 34. Roses Receiving a 'Poor'
(4.9 and below) Rating
in Region I

Border Gold, F	3.3*	7**
Cape Coral, HT	4.9	7
Carise Bouquet, S	4.0	1
Cl. Queen o'the Lakes, Cl	4.0	1
Florida Von Scharbeutz, F	4.0	1
Garden Supreme, F	4.5	2
Marguerite Hilling, HMoysesii	4.0	2
Polonaise, HT	4.5	2
Prissy Missy, Min	4.0	1
Sabine, HT	4.5	5
Stadt Rosenheim, S	3.0	2
Sweet Lelanie, HT	4.0	1
Vera Dalton, F	4.0	1
White King, Min	4.0	2
Yellow Cushion, F	4.0	1

* Rating

**Number of Reports

Table 35. Roses Receiving a 'Poor'
(4.9 and below) Rating
in Region II

Acapulco, F	4.1*	8**
Alabaster, HT	2.0	1
Andre Le Troquer, HT	4.7	5
Carolyn Diane, F	4.0	3
Coral Mist, HT	4.0	1
Diplomat, HT	4.9	3
Houstonian, Cr	3.5	2
Lavender Lassie, RMsK	4.0	1
Nadins, F	4.8	12
Sweet Vivian, F	2.0	1
White Ma Perkins, F	4.0	2
Williamsburg, HT	4.0	1

* Rating

**Number of Reports

Table 36. Roses Receiving a 'Poor'
(4.9 and below) Rating
in Region III

Apache, S	4.8*	5**
Cheyenne, ClHT	4.2	3
Chinatown, F	3.6	4
Cl. Allgold, Cl	2.0	1
Dixie Belle, HT	4.8	14
Florabelle, F	2.0	1
Gold Crown, HT	4.7	17
Goldmarie, F	4.9	5
Mountaineer, HT	4.5	6
Nadine, F	2.0	1
Oskar Scheerer, S	4.0	1
Pepe, HT	3.0	1
Pigalle, HT	4.0	1
Pink Emperor, HT	3.6	5
Trojan, Gr	4.5	9
Walsham Gold, HT	3.5	2

* Rating

**Number of Reports

OBSERVATIONS AND CONCLUSIONS

The primary objective of this study has been to determine the extent to which roses do or do not vary in performance in different climatic regions. This evidence is rather conclusive as ratings of the top roses in each region do vary considerably, although many of the same cultivars rank at the top in each region. Comments on results as obtained for each rose type are found in this section. Also, the roses have been grouped in tables according to rank, and general observations on these tables are presented at the end of this section. First we should consider some general observations based on the results of the survey.

It is apparent that Region II has the largest number of reports. This region has a moderate climate for growing plants and is probably the most heavily populated. Region I, the northernmost zone, is sparsely populated and roses are not as widely grown due to the extremely cold winter temperatures. It should be noted, however, that ratings were generally higher in Region I, with Region III second and Region II third. This fluctuation could be attributed to the degree of difficulty in growing roses in each region. In Region I, where the challenge is greatest, these persons

who do grow roses probably give them maximum attention. The average home gardener probably does not undertake to grow roses unless he is prepared to bury or cover them in the winter, and give the special attention throughout the year. One might further speculate that only the best performing roses survive, causing the average rating to be higher. Region III is also difficult due to a hot dry climate, and the same might apply as ratings in this region were second highest. It is especially interesting to note the consistency of variation in each region with #I always highest, #III second and Region II last.

The reports are especially significant in terms of continuity of performance of certain cultivars. While ratings varied significantly between the regions, it is surprising to note the large number of cultivars that appeared in the listing of top roses from each region. With few exceptions, the higher rated roses seemed to perform well in all regions, although there was considerable variation in the actual ratings they received.

The number of reports each rose received should be given consideration in evaluating its performance. In the lists of top rated roses, those not receiving a significant number of reports as compared with the total number of

reports from that region, were omitted. In the tables of roses grouped according to rank, a cut-off point has been established where the lists are extremely long and those roses with few reports were eliminated. All reports were submitted by qualified rose growers. These gardeners have themselves studied the merits of each rose before purchasing it for their garden. In most cases, the higher rated roses are also those grown by the largest number of gardeners.

While this study for the Master of Science Degree reveals pertinent information, deeper investigations in the same area could be more revealing. This study afforded the opportunity to compare the roses on an over-all basis. A more detailed investigation might seek out and report important, specific characteristics of the cultivars as hardiness, rate of growth, vigor, abundance of bloom, resistance to insects and diseases, and other characteristics as desired.

Results in Each Class

Hybrid Teas - More hybrid tea roses are grown than any other rose type. While the ratings of the top roses in each region varied to some degree, the following cultivars ranked among the top 15 in all three regions (see tables 1, 2 and 3): Granada, Tropicana, Royal Highness, Swarthmore, Bewitched, Chicago Peace, Simon Bolivar.

Based on the total number of reports from each region, 'Tropicana' should be considered the number one hybrid tea rose.

Floribundas - Floribundas also show an amazing continuity among the top rated roses (see tables 4, 5 and 6), although the actual rating of each cultivar varied from one region to another. The following 13 roses ranked among the top 15 in all three regions: Ice White, Iceberg, Ginger, Evelyn Fison, Daily Sketch, Orangeade, Fancy Talk, Gay Princess, Woburn Abbey, Apricot Nectar, Dearest, Lilli Marlene.

Grandifloras - Fewer grandifloras have been introduced in recent years, thus accounting for the fact that they are not so widely grown. The top eight roses from each region are shown in tables 7, 8 and 9. It is interesting to note that the top eight are the same in each region although the order of rank and the numerical rating of the roses vary

considerably.

Miniatures - Miniature roses are growing in popularity. Fifteen top miniatures were listed in each region (see tables 10, 11 and 12). The following roses appeared in each of the three lists: Starina, Opal Jewel, Toy Clown, Beauty Secret, Yellow Doll, Baby Darling, Dwarfking, Jet Trail, Scarlet Gem, Mary Adair.

Climbers and Shrubs - The top four climbing roses and five shrub roses are listed (see tables 13-18). In each case the top roses are the same in all three regions. It is important to note the variability of ratings of each cultivar, even though the order of rank is the same.

Comparison of Roses in Each Rating Category

To give further meaning to the compiled data, tables are presented showing a comparison of roses in each rating category from each of the three regions. This comparison allows some interesting observations. The following comments are based on a study of the comparisons:

The top category is 'excellent'; this includes all roses that rated 9.0 or higher. As one might expect, a relative few roses reached this rating. Of those that did, most received too few reports to be of significance. Three roses in Region I show significant results. 'Granada' received 115 votes in Region I, yet maintained a seemingly impossible rating of 9.8. It is especially interesting to note that 'Granada' did not attain an 'excellent' rating in Region II and III. This evidence appears to reveal that 'Granada' is hardier and a better performer in the colder areas of Region I than in the more temperate Regions II and III. 'Tropicana' and 'Royal Highness' attained an 'excellent' rating with a large number of reports in all three regions. The shrub rose 'Gartendirektor Otto Linne' received an astonishingly high rating of 9.7 with 183 reports in Region II yet did not make the 'excellent' category in the other regions, indicating that the rose is best adapted to the central zones

of Region II.

More roses fell into the 'outstanding' and 'good' categories with ratings of 8.0 - 8.9 and 7.0 - 7.9 than in any other category. From the listings furnished in these groupings, the gardener can select any number of reliable cultivars to suit his own needs. The number of reports a rose receives indicates its popularity and lends strength to the rating it receives. In these groupings can be found roses of all colors and horticultural types. It should be noted that almost all miniature and shrub roses attained at least a 'good' rating. For the most part, these types are vigorous, prolific, hardy and resistant to insects and diseases. There is considerable variation in the hybrid tea, floribunda, grandiflora and other types, and it is advisable to select a well-proven cultivar from one's own region. The reports show revealing information on certain cultivars that were brought onto the market with a great deal of fanfare, such as 'Polynesian Sunset' which was introduced as the "Rose of the Year" in 1966. Yet, it now has achieved relatively low ratings of 7.3, 7.3 and 7.4 from Regions I, II and III respectively, and it is now grown by less than 500 gardeners participating in the survey. This is an example of how the gardener can utilize these

ratings to determine the true performance of the rose rather than being confused by elaborate promotional efforts.

The gardener should consider very carefully roses in the categories 'fair', 'average' and 'poor'. In most cases he can find higher rated roses that will serve him better. There are some instances, however, where he may need to go to these listings. 'Blue Moon' is a good example of an unusual type rose. This mauve colored hybrid tea has received much acclaim in Europe, yet the 15 reports from Region III show a rating of only 6.2. This is a new rose, not widely distributed, and it is likely that further trials will see the rating improve. 'Song of Paris' is another mauve colored hybrid tea that is relatively new, yet with 133 reports in Region III it has a rating of only 6.0. A grower in this southern region should recognize that 'Song of Paris' has not performed well and is probably a dubious choice for his garden. In Region II 'Song of Paris' received a rating of 6.7 with 186 reports, and in Region I 7.1 with 24 reports. It appears that the rose is better adapted to the cooler climates. 'Golden Slippers' is a popular floribunda that received 221 reports with a rating of 6.8 in Region II. While it isn't among the highest rated roses, the information would indicate that it can be, and is,

a reliable performer in many gardens. In both Region I and Region III, 'Golden Slippers' achieved a rating of 'good' with fewer reports.

An interesting observation is the small number of reports for those roses receiving a rating lower than 6.0. In the categories of 'average' and 'poor' only one rose received as many as 50 reports, that being 'Girl Scout' with 51. More than 80 per cent of these roses received fewer than 10 reports. In the 'poor' category, not one cultivar from Regions I and II received as many as 10 reports. In many instances these roses are new and have not been widely distributed. It is conceivable that widespread trials of the cultivars will show improvement of performance in some areas. All roses are tested and observed by the nurserymen or introducer and certainly each has proven satisfactory in his trials, otherwise, he would not go to the trouble or expense of introducing and in most cases patenting the rose.

The fact that a good number of roses received low ratings does not mean that in all cases they should be avoided. It is, however, advisable to try them first on a limited basis, and when possible, observe them in several gardens within a specific region.

While the preceding comments are of necessity abbreviated,

they show how the data may be put to practical use in determining the performance of certain cultivars in specific regions and how worthwhile comparisons may be made and conclusions drawn.

Value of This Study to the Amateur Gardener

This investigation has produced information that should be valuable to any gardener interested in purchasing roses or determining the performance of certain roses in his area. The survey has the uniqueness of furnishing comparative information on the roses from a specific geographic area. The gardener has an opportunity to capitalize on the knowledge and experience of qualified rose growers.

The study furnishes a ready list of the top roses of each type in each geographic region. From this study the gardener can select, according to his own taste, those roses best suited for his garden. He also has the opportunity to see which roses fall into each of the evaluation categories. This is valuable when he is interested in roses that are not necessarily the highest rated.

The large number of reports and the qualifications of the reporters contribute to the accuracy and reliability of the ratings.

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PERFORMANCE VARIATION OF ROSE CULTIVARS

DUE TO CLIMATIC LOCATION

by

Ormond Keister Evans, Jr.

Abstract

Roses are said to vary in performance in different sections of the country. To determine the degree (if any) of variance, a survey was conducted obtaining ratings of a selected grouping of roses grown in all sections of the United States. This survey was conducted among members of the American Rose Society and other selected gardeners, who evaluated their roses in terms of performance in their own gardens. More than 5,000 rosarians participated, each reporting on an average of 25 roses. Some 450 roses introduced into commerce from 1962 through 1967 were included in the study.

For the purpose of the study the United States was divided into three major geographic regions. This report furnished a numerical rating based on a 10 point scale of all the newer roses now being grown in each region. The study listed with comments the higher rated roses in each horticultural class. Tables were used to present the

cultivars from each region according to rank.

The study showed that the performance of most roses varies from one area to another. It was revealed, however, that basically the same roses proved to be the highest rated, and showed the best results in each of the three regions under study.

The report is especially valuable to amateur gardeners who wish to determine the value of specific cultivars for their own locale.

Rose Rating Survey

PROOF OF THE PUDDING

This removable evaluation sheet is prepared for your convenience in participating in the 1968 Proof of the Pudding rose rating system. The May issue of the *American Rose Magazine* gave a preview of those varieties to be included this year.

This form allows all ARS members an opportunity to participate in the national rating program. Please report on each eligible variety you are now growing in your garden. Each rose should be evaluated on the following basis:

- A — Excellent — Outstanding rose in every respect; a rose you would highly recommend.
- B — Good — A good performer; one that will remain in your garden, but slightly below your standards for an ideal rose.
- C — Fair — An average rose; one you would replace with a variety you consider to have better qualities.
- D — Poor — Not a good performer; a rose you would not recommend for your area.

In scoring your roses, please consider the overall appeal of each variety as it performs in your own garden. The Proof of the Pudding evaluation is not designed to gather technical data, but rather to obtain a means of rating the roses for the average home gardener.

All ARS members belonging to affiliated rose societies may use this report form or reporting slips obtained through your society to report directly to your society's Proof of the Pudding Chairman. Each Proof of the Pudding Chairman will in turn compile for the American Rose Society the average ratings on roses grown by members of his organization. The report form should be completed and mailed to American Rose Society headquarters by **October 6, 1967**. Reports submitted after this deadline cannot be considered for the 1968 *American Rose Annual*.

A B C D Variety

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Acapulco — F — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alabaster — HT — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Albert — F — ob
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Columbus Queen — HT — mp
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dearest — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Debbie — Min — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Der Krad — HT — dr
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Diplomat — HT — dr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dixie Belle — HT — lp
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dr. Brownell — HT — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drummer Boy — F — mp
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Elysium — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eminence — HT — m
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Europeana — F — dr
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A	B	C	D	Variety
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Girl Scout — F — dy
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golden Giant — HT — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Golden Haze — HT — yb
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A	B	C	D	Variety
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Marguerite Hilling — HMoyesii
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Orange Ice — F — or

A	B	C	D	Variety
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Oskar Scheerer — S
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overture — F — m
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Red Wand — ClMin — lr&dp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rina Herholdt — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ritter von Barmstede — K
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rodeo — F — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Roelof Buisman — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Roman Holiday — F — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rose Bowl — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rose Gaujard — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rose Opal — HT — lr&dp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rose Queen — HT — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rouge de Paris — F
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Royal Dawn — Cl — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Royal Highness — HT — lp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Royal Lavender — LCl — m
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rumba (Rhumba) — F — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Saarbrucken — S
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sabine — HT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sabrina — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samba — F — yb

A	B	C	D	Variety
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samoa — HT — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	San Francisco — HT — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Saratoga — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scarlet Gem — Min — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scarlet Queen Elizabeth — F
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scharlachglut — S — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sea Foam — S — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seneca Queen — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Senior Prom — HT — lr&dp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	September Wedding — HT — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seventeen — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Seventh Heaven — HT — dr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Shasta — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	She — F — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sherry — F — r
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Showboat — F — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sibelius — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sierra Sunset — LCl — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silver Lining — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Silver Tips — Min — pb
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Simplex — Min — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sincera — HT — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Skylark — F — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Small Talk — F — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Snow Fairy — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sombrero — F — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Song of Paris — HT — m
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	South Seas — HT — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Souv. du President
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Plumecocq — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Speaker Sam — HT — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stadt Rosenheim — S
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starbright — HT — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starina — Min — lr&dp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starkrimson — HT — dr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Strawberry Blonde — Gr — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summer Rainbow — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summer Song — F — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summer Sunshine — HT — dy
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Supreme's Sister — F — ab
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Swarthmore — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet Adeline — HT — mp
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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet and Low — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet Harmony — F — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet Lelanie — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet Talk — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sweet Vivien — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sword of Hope — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sympathie — K
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tambourine — F — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teenager — HT — pb

A	B	C	D	Variety
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thanksgiving — HT — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Farmer's Wife — F — lp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Jester — Gr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Therese Bauer — HSet
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Thunderbird — F — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tiara — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tickled Pink — HT — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tiny Jack — Min — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tiny Jill — Min — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tip Top — F
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Topper — HT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Touggourt — F — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Toy Clown — Min
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trade Wind — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traviata — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trinket — Min — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trojan — Gr — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tropicana — HT — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trumpet — F — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Uncle Sam — HT — lr&dp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Uncle Walter — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vagabonde — F — pb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Valencia — HT — ab
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vera Dalton — F — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vienna Charm — HT — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Viking Queen — Cl — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Villa de Madrid — HT — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vim — HT — mp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Violet Carson — F — yb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Walsham Gold — HT — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	War Dance — Gr — or
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Weisse aus Sparrieshoop — S
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wendy Cussons — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Westminster — HT — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White Baby Star — Min — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White Beauty — HT — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White Dian — Min — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White King — Min — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White Ma Perkins — F — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	White Prince — HT — w
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Williamsburg — HT — lp
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Willie Mae — Min — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Winifred Coulter — F — rb
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Wisbech Gold — HT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Woburn Abbey — F — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	World's Fair Salute — HT — mr
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yellow Cushion — F — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yellow Doll — Min — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yellow Necklace — Min — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yellow Queen Elizabeth — Gr — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zambra — F — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zitronenfalter — S — my
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zorina — F — ob
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zweibrucken — K — dr

Use the following space to report your comments regarding significant factors you have observed with any of the varieties.

Name _____ City _____ State _____