



Hunt Institute for Botanical Documentation  
5th Floor, Hunt Library  
Carnegie Mellon University  
4909 Frew Street  
Pittsburgh, PA 15213-3890  
Telephone: 412-268-2434  
Email: [huntinst@andrew.cmu.edu](mailto:huntinst@andrew.cmu.edu)  
Web site: [www.huntbotanical.org](http://www.huntbotanical.org)

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The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Apr 30

33367

Woke sheets  
Little garden  
2A. (1)

Row 1 #1 - fine white few Phlox purple stripes. Close like tagger  
one short of Verwaencara sport type.

#2 - much like No 1 but lower growth habit?

#3 - weak plant - fine white, chartruese knot - one tagged  
short flushed pink + deep rose blotch.

#4 - like No 1 but with news green blotch, Phlox purple stripes.

Row 2 - #5 - white with pale Atkens violet stripes - Two lin. short -  
fale (pink) violet - light amaranth purple marbles

#6 - white - green-yellow blotch - sandal rather than flake  
phlox purple - ruffled edges -

#7 - white - ruffled edges - pale amaranth violet stripes - spots of  
solid light phlox purple - some tendency to white rays

as in one of the Chugai Lbs

#8 - superb microform - with very rare light amaranth purple  
flakes -

33366.

Row 3 #9 - low - spready - white sandal + striped phlox purple -  
Sport pale amaranth purple white edge, crimson blotch

#10 - almost same #9 but more upright in growth -

Row 4 #11 - white - wide range of flaking - some sandy in some  
flowers - light mallow pink - some vert type sporty -

#12 - white - pale amaranth pink - flake - one sport with  
crimson blotch - Chugai type lines -

#13 - white - great variation in degree of striping - some with  
heavy sandy Phlox Purple -

#14 - low - light mallow purple Tyria rose blotch - orange dots  
may with 6 lots -

- No 15. nearly whole plant Verwoena type - taper spat  
throat shows phlox purple stripes -
- No 16 - most of plant in pale Verwoena type Tyria - one blotch  
a few pure white - throw away - ~~stripes~~ + purple  
self -
- No 17 - white - green blotch - very few lavender leaves -
- No 18 - fine white few stripes - much sandy - phlox purple -  
throw out purple self -
- No 19 - fine white, chartreuse throat - simple - very few  
phlox purple stripes -

33356

- Row 6. No 20 white - very fine form - fine blotch few light Phlox  
purple stripes -
- No 21 - white with little sandy <sup>full</sup> phlox purple - one  
flower came with Phlox purple + white star like  
Chrysanthemum -
- No 22 - larger than No 1 - not much fine blotch - white with  
very few - phlox purple sep -
- Apr 30 No 23 - large white green blotch few true purple stripes -
- Row 7 No 24 - whole plant - white center, ~~light~~ phlox purple edges
- No 25 - white striped Tyrian Pink - one short V type spat
- No 26 - white striped Phlox Purple; one special short V type
- No 27 - frilled white - chartreuse blotch - very few  
Phlox purple flakes -



33351

(3)

Row 8 -

- No 28 - 3" filler amaranth pink, blotch Tyrin Rose - five  
 No 29 - 3" filler Rose color, blotch Tyrin Rose - yellow in throat five  
 No 30 - 3" filler white - chestnut blotch - reflexed five  
 No 31 - 2 1/2" " Rose color - (more vigorous than No 29?) five  
 No 32 - 3" " Deep Rose pink - Rose blotch -  
 No 33 - Very dwarf compact white yellowish fr. blotch -  
 Some petaloidy  
 No 34 - 3" filler, Phlox Pink, fades a little -  
 No 35 - 3" filler, Deep Rose pink rose blotch -  
 No 36 - 3" filler, Rose color, Rose red blotch, yellow undertone  
 No 37 - 3" filler, white, chestnut blotch, spreading habit

Row 9 - Begin <sup>{ 8 plants }</sup> 33342 - 11 plants from Grand 7 row

No 38 - 2 1/2" Rhodanin Purple - scarlet tints

Begin 33344.

- No 39 - 3" filler - Between Phlox Purple + Mellon Purple Scarlet tints.  
 No 40 - 3" filler - Rose Pink - Rose red blotch - brilliant  
 No 41 3" - Deep Rose pink (yellowish) flowers mellon Purple -  
 by brilliant because of under tone yellow

Shape of 2 sur -

Row 10

No 42 - 2 1/2" mellon purple, Tyrin Rose blotch, brilliant

Row 11


- No 42<sup>A</sup> - 3" here, texture white, chestnut blotch, few mellon purple tints  
 No 43 - 3" - very good white - mellon purple tints - yellow blotch  
 No 44 - good low white - 6 dots - green blotch

Begin cross 33366

watch rest of row - breeding only -



- Row 12 No 45 1 1/2" ruffles - very floriferous - Tyria Pink -  
 Tyria rose blotch. scarlet tube -  
 No 46 - dark <sup>orange</sup> ~~br~~ red - purple blotch - low grower?  
 2" - burn & little Pomegranate Purple -  
 Bordeaux blotch.  
 No 47 2" - Tyrian Pink - Tyria Rose heavy, blotch - ~~very~~

- Row 13 - No 48 - 3" - Very heavy blotch - fl. suburns & little  
 Eugenia Red - Amaranth purple blotch  suburns  
 No 49 - 3" - Pompeia Red (brn) heavy carmine blotch -  
 No 50 - 3" - Posolan Purple - spined Red - throat - Carmine Hth  
 reverse + stamens scarlet

- Begin cross - 33361 - musk Shirts - many filled -  
 No 51 - one whole branch - 3" white Liseran Purple <sup>50%</sup>  
 balance of plant white yellow blotch <sup>fruit</sup> Liseran stripes

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- Row 14 - Long row - Cross 33352 -  
 No 52 - 2 1/2 - 3" - spined Pink - spined Red blotch - filled  
 No 53 - 2 1/2 - 3" - Between Pale Amaranth Pink &  
 Amaranth Pink - few but very sharp Tyrian Rose dots.  
 No 54 - 3 - 3 1/2" Pale Mallard Pink - clear Tyria Rose  
 dots & few sunny blotch  
 xxx No 55 - 3 - 3 1/2" gyaloms quality - Amaranth Pink  
 Tyria Rose blotch -  
 No 56 - 3 - 3 1/2" filled - Rhodamine Purple - Tyria  
 Rose blotch - scarlet tube -

Row 15 - No 57 - Perhaps cult. fr. introduction - carries as  
puna salmon - may fls with 6-7 lvs - frilled - 2-2 3/4"  
Spined Pink - rose in throat to yellow on back

Begin cross 33354 - all very good flowers -

xx No 58 - 3" - white fr. dots rather than stripes rose purple -  
Throw out all other selfs -

xx No 59 - 3-3 1/2" - white - few stripes - Rosolan Purple, yellow blotch

No 60 - much like no 59 - but more sandal -

xxx No 61 - frilled - 3-3 1/2" - sandal Rosolan Purple - green blotch

No 62 - 2" very fernform - white sandal + stripes Rosolan Purple

No 63 - 2-2 1/2" frilled - white - sandal + stripes Rosolan Purple

~~Begin 33360~~

No 64 - 2-2 1/2" frilled - propagate only from tapped  
branch, V type 4 part

Begin 33360

No 65 - Propagate 10 or 8 - white, green blotch - some  
tendency to doubling -

No 66 - 2-2 1/2" - Rose Purple - Rose blotch -

No 67 - Prop 10 or 8 - white - chartreuse blotch - some  
tendency to doubling -

No 68 - 2" - white center - L-sera purple edge  
Throw out all self spots

Row 16

cross - 33357

No 69 - 2" Rose red - some double - typical spots - frilled

Row 17 -

No 70 - 5" white some ruffly

No 71 - 3" white ruffly - chartreuse throat dwarf 2

Row 17 continued - Cross - 33358 -

Cross 33364 -

- No 72 - 2" white with Eugenia Red stripes & flecks, green blotch throat not red self
- No 73 - 2" white - Eugenia Red stripe - + V type spot -
- No 74 - 2 1/2" white - a little brighter than Eugenia Red stripes & flecks - watch for V type spot

Row 18

No 75 - 2" white - yellow blotch - stripes & bands, under Eugenia Red

No 76 - 2" white - so heavily streaked chestrease that it carries an greenish yellow - few red flecks

XX No 77 - 2" white heavily striped, under & sections with Eugenia red + throat not red self

XX No 78 - 2-2 1/2" white cater, mallow pink edges throat not self

Row 19 xx No 79 - white filler 3" - chestrease blotch -

No 80 - white cater - mallow purple atgs - throat not self

Begin cross 33358 -

No 81 - one branch only - 3" filler white cater Pale Phlox Purple, no blotch

No 82 - 3" filler white - chestrease throat - very rare flower with mallow purple stripe -

Cross 33365

No 83 - 3" filler white - chestrease blotch - few stripes of spinal pink



Row 20 - No 84 - 3 1/2' white - not much chertreuse  
 cross 33349

No 85 - Ho. oden type 1/4 - 2 1/2" - white - Rosdane paper

cross 33356 -

No 86 - dwarf compact Aster purple - Scarlet back of tube

Row 21

xx No 87 - very compact bush - 2 1/2' - full white - chertreuse litch -  
 very perfumous - finest quality -

No 88 - dwarf, very floriferous - 3 1/2 - 4" white - yellow bl.  
 cross 33364

No 89 - 3" - white - spiral Red - stripes + same

No 90 - 3' white, old rose stripe - same (Old Rose of Ridgeway

to a scarlet red) dwarf -

xxxxx No 91 - 3' whole plant V type

~~xxxxx No 92 - whole plant V type -~~

No 92 - 3' white - light scarlet feds -

xxxxx No 93 - 2" - 2 1/2" whole plant V type - paler than No 91

No 94 - 2 1/2" - white sandal + stripes Jasper Red -

Note on this V type tagged -

No 95 - 2 1/2" - white green bl. - stripes Sycamore Red

- Rm #1 - No 96 - 2" - white green eye - Eugenia like stripes -  
 XX No 97 - 2 1/2" - white - yellow eye old Rose stripe sand  
 No 98 - 2 1/2" - white - Eugenia like sand + stripe  
 No 99 - 2 1/2" - white - broad chardonnay green eye  
 almost no Eugenia no stripe -  
 No 100 - 2 1/2" - creamy white - very rare red face  
 No 101 - 2 1/2" - white heavily striped + sand  
 Eugenia to Acacia Red - V Type spot tagged  
 which has pink ground -  
 No 102 - 2 1/2" white - yellow throat - few Eugenia like  
 stripes -  
 No 103 - lake (banyan tree, 3) white 2 3/4" flat - green  
 eye - like striped Eugenia like -  
 No 104 - 2" white - stars - heavily striped Eugenia like  
 32355  
 No 105 - 1 1/2" - very floriferous - Amaranth Purple to Rose red  
 No 106 - 2" - " " - same - more red in tube -  
 some darkly -  
 No 107 - 2" - Pomegranate Purple to Bordeaux (brown)  
 No 108 - 2" - Tyria Rose to Rose Red - brilliant + fluff  
 No 109 - 2" - Between Rhodance + aster Purple tube Rose red  
 No 110 - 2" - Tyria Rose to Rose red - very floriferous -  
 XX No 111 - 2" - filled Pomegranate Red to Bordeaux

Narcissus Cragford FCC 1947  
-cc plate (Fig 93)  
-ugust Journal of the RHS 1948

compliments of

WYNDHAM HAYWARD  
- Sub-tropical Bulbs and Plants -  
LAKEMONT GARDENS  
Winter Park, Florida, U.S.A.

Bym furnished  
cuttings of  
these to  
Glenn Dale  
1946/47

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Not for publication  
Part of report to be filed  
in P.S.I.



32251. *Macrantha* Orange x Momozono  
Large, early, salmon. 4/21/45.  
Salmon, hose-in-hose, midseason to late. 4/21/45.
32253. *Macrantha* Orange x Momozono  
Hose-in-hose, salmon, blotch noticeable. Whole flower  
becomes "pinker" with age. 4/21/45.
32255. *Macrantha* Orange x Momozono  
Irregularly hose-in-hose, a reddish salmon. 4/21/45.
32256. *Macrantha* Orange x Momozono  
"Scarlet red". 4/11/45.
32259. *Macrantha* Orange x Momozono  
Hose-in-hose, salmon. 4/18/45.
32260. *Macrantha* Orange x Momozono  
Clear pink. 4/21/45.
32268. *Macrantha* Orange x *Azuma-shibori*  
Very round flower, hose-in-hose, salmon, poor pistil. 4/11/45.
32293. Mrs. Carmichael x Willy  
Not overlarge flower, dark red, purple blotch. 4/10/45.
32296. Mrs. Carmichael x Willy  
Almost like a Kurume, very dark brownish red. 4/10/45.
32297. Mrs. Carmichael x Willy  
Strong, purplish red, single. 4/21/45.
32308. Mme. Margottin x Kagaribi  
Large salmon, type of flower is midway between parents.  
4/18/45.

32513. *Macrantha* deep salmon x Hatsushimo  
Large, purplish red, orange red at base of tube. 4/14/45.
32525. *Macrantha* orange x Moniji gasane  
Hose-in-hose, orange.
32533. Hinodegiri x Miltoni  
Tall, purplish pink with red-purple blotch. 4/7/45.
32536. *Malvatica* x Yozakura  
Pale rose, "indica" type of flower. 4/21/45.
32537. *Malvatica* x Yozakura  
Very fine white. 4/18/45. Glacier.
32539. *Yozakura* x Kagaribi  
Very nice deep rose. 4/13/45. Rose color, very good  
form with round flower and imbricated lobes. 4/21/45.
32540. *Yozakura* x Kagaribi  
Hose-in-hose, rose pink. 4/18/45.
32543. *Osakazuki* x Kagaribi  
Very nice flower, deeper rose color than B. 32539 (see  
above). 4/13/45.
32545. *Osakazuki* x Kagaribi  
As compared to many *Osakazuki* seedlings, this is small  
flowered. Salmon red. 4/14/45.
32548. *Osakazuki* x Kagaribi  
Very round flower, rose color. 4/18/45.
32580. *Osakazuki* x Flame  
Flowers of moderate size, *macrantha* types, Rose Color.  
4/13/45.

32656. *Macrantha* deep salmon x Hazel Dawson  
Large, round flower, "indica" type, deep rose (darker than 32669), no blotch. 4/21/45.
32660. *Macrantha* deep salmon x Hazel Dawson  
Pink. 4/24/45.
32661. *Macrantha* deep salmon x Hazel Dawson  
Similar to B. 32666 but a little lighter red. 4/29/45.
32665. *Macrantha* deep salmon x Hazel Dawson  
Salmon pink, blotch conspicuous. 4/29/45.
32666. *Macrantha* deep salmon x Hazel Dawson  
Best dark red in series, blotched. 4/29/45.
32668. *Macrantha* deep salmon x Hazel Dawson  
Round flower, "indica" type, no blotch, violet, large. 4/21/45.
32669. *Macrantha* deep salmon x Hazel Dawson  
Large, rose, blotch showy, rounded form as in good "indica" types. 4/21/45.
32671. *Macrantha* deep salmon x Hazel Dawson  
Large 2 - 3", round flowers, cerise. 4/24/45.
32672. *Macrantha* deep salmon x Hazel Dawson  
Large, lobes not imbricated, cerise. 4/24/45.
32673. *Macrantha* deep salmon x Hazel Dawson  
Large, orange pink, possibly not very floriferous but plants are overcrowded. 5/1/45.
32674. *Macrantha* deep salmon x Hazel Dawson  
Pink with purplish red blotch. 5/1/45.



27469. *Mucronatum* x *Vittata* Fortunei

*Mucronatum*-type flower, stripes Argyle Purple. 1945.

27470. *Mucronatum* x *Vittata* Fortunei

*Mucronatum* type, much like B. 27467 but with more purple. 1945.

27471. *Mucronatum* x *Vittata* Fortunei

*Mucronatum* type, one bush all Liseran Purple, the other white striped Liseran Purple, blotch as in *mucronatum* v. *Sekidera*. 1945.

27472. *Mucronatum* x *Vittata* Fortunei

Vigorous single, 1 3/4 - 2 1/4", white with a little striping of Light Rosolane Purple. 1945.

27473. *Mucronatum* x *Vittata* Fortunei

Poor thin growth, spidery, white, almost Kurume type of white flower. Plant slow to leaf in spring. 1945.

27474. *Vittata* Fortunei x *Surisume*

Very tall, like *Kaempferi*, flowers white with occasional flakes of Spinel Pink. 1945.

27476. *Vittata* Fortunei x *Asahi*

Single, white with bright rose stripes. One plant has one branch "rose color with white flakes on margins of lobes." 4/7/46.

27479. *Vittata* Fortunei x *Miyagimo*

Early, hose-in-hose, heavy bloom, white ground, few stripes, many flakes, Deep Rose Pink. 4/12/45/

27453. *Vittata Fortunei* x *Kyu-Miyagimo*

Hose-in-hose, Kaempferi habit, white broad flakes of near Spinel Pink. One plant has entire main shoot Thulite Pink with Spinel Pink blotch and white marginal flakes, also branch sport self Spinel Red. 1945.

1946 notes practically same.

27455. *Vittata Fortunei* x *Kyu-Miyagimo*

Midseason, hose-in-hose, white, greenish blotch. Kaempferi bush habit, Kurume type flowers.

27456. *Vittata Fortunei* x *Kyu-Miyagimo*

Strong, Kaempferi habit, white, hose-in-hose, calyx ragged, midseason. 1945.

27457. *Vittata Fortunei* x *Kyu-Miyagimo*

Midseason, Kaempferi bush habit, Kurume type flowers, hose-in-hose, white, perfect calyx. 1945.

27458. *Vittata Fortunei* x *Kyu-Miyagimo*

Very vigorous, white, some stripes and flakes of Light Rosolane Purple. 1 3/4 - 2".

Single, relatively little striping but of a bright color. 4/7/46.

27460. *Vittata Fortunei* x *Kyu-Miyagimo*

Not very vigorous, first plant white, striped Phlox Purple; second plant, white flushed Spinel Pink, blotch Spinel Red. 1945.

This is PI No. L41777, Pixie, and the first descriptive note above is incorrect. 1948.

27461. *Hinodegiri* x *Vittata* Fortunei

Tall as in *Kaempferi*. Flowers early, ragged hose-in-hose,  $1 \frac{3}{4}$  -  $2 \frac{1}{4}$ " , white sanded and striped Spinel Pink and on a few branches flushed almost all over with Pale Rosolane Purple. 1945.

In flowering, 1946, the amount of color marking was less conspicuous.

27464. *Splendens* x *Vittata* Fortunei

Small, flesh pink, stripes; 4/21/45?

27465. *Mucronatum* x *Vittata* Fortunei

Tall, vigorous, midseason,  $2 \frac{1}{2}$  -  $2 \frac{3}{4}$ " , white plant fully striped with Liseran Purple. 1945.

27466. *Mucronatum* x *Vittata* Fortunei

White, *mucronatum* type, faint pink flush and few flakes of old rose that show only where they cross the area of "blotch". Second plant is lavender self. 1945.

27467. *Mucronatum* x *Vittata* Fortunei

Very early,  $1 - 1 \frac{1}{2}$ " , single, white heavily striped Rosolane Purple, variable on plant. 1945.

*Mucronatum*-type flower, white, flushed, striped and sanded, Bishop's Purple. 1945.

27468. *Mucronatum* x *Vittata* Fortunei

*Mucronatum*-type flower, moderately vigorous, white with many stripes, flakes, etc. of Liseran Purple. Sometimes 6-7 lobes on corolla. 1945.



27413. *Vittata Fortunei* x *mucronatum*

White with Liseran Purple stripes, 2 1/4 - 2 3/4". 1945.

Perhaps the most vigorous in this series. The individual flower is rounder than that of 27408 and the bush is taller, to 7'. Throws occasional branch sport of type of G. L. Taber. 1946. In propagation at Glenn Dale 1948.

27414. *Vittata Fortunei* x *mucronatum*

*Mucronatum* type. Light Rosolane Purple stripes on white. 1945.

27416. *Vittata Fortunei* x *Marta*

Almost white, few rose flakes. 1945.

27420. *Vittata Fortunei* x *amoena*

2 - 2 3/4", hose-in-hose, white sparingly flaked and striped Spinel Pink. 1945.

27424. *Vittata Fortunei* x *amoena*

Very tall, loose growing, early, 2". 1945. Single, practically same as 27425 but with even fewer flowers that show stripes. 1946. (Introduced as PI No. 141771)

27425. *Vittata Fortunei* x *amoena*

Very tall, free flowering, *Kaempferi*-like habit. *Kurume*-type flowers. 1 1/2" - 2", single, white with magenta stripes, mostly on backs of flowers. 1945.

Single, to all effect, a white *Kaempferi*. The lavender flakes are relatively few and there are many flowers without them. Definite greenish yellow blotch on upper lobe. 4/1/46. PI No. 141772.

27426. *Vittata Fortunei* x *amoena*

Hose-in-hose, white, coral red flakes. Set some seed? 1945.

A fine plant, essentially white with flakes and dots of

Spinel Pink to Spinel Red. Carries as flesh color. 1945.

27428. *Jeanette* x *Kaempferi*

Rose Doree to Scarlet. Suggests back cross on Willy. 1945.

27430. *Macrantha Orange* x *Alice*

Hose-in-hose, about 2". Between Old Rose and Jasper Pink, blotch definite but not conspicuous. 1945.

(1948 - I question this entry now. BYM)

27434. *Mrs. Carmichael* x *Alice*

Late, salmon, hose-in-hose, of the type of cross of *macrantha* x *Kurume*. 1945.

(1948 - I question this entry. BYM)

27438. *Willy* x *Yae-shojo*

*Kaempferi*-type hybrid. Hose-in-hose, dark brownish scarlet.

1940. Talle, late, Jasper Red, 1 1/2 - 2", hose-in-hose.

Does not sunburn. 1945.

27439. *Willy* x *Yae-shojo*

Late, single, *Kaempferi*-type bush. Between *Begonia Rose* and *Spectrum Red*, not extra; burns a little. 1945.

27440. *Willy* x *Yae-shojo*

Late, hose-in-hose, pure *Rose Doree*, burns a little.

Petaloid calyx. Same sizes as corolla. 1945.

32169. Jeanette x Kaempferi

Very large, light red. 4/10/45.

32196. Macrantha Orange x Azuma-shibori

Pink hose-in-hose. 5/1/45.

32199. Macrantha Orange x Azuma-shibori

Latish, pale rose, hose-in-hose, poor stigmas. 4/25/45.

32204. Macrantha Orange x Azuma-shibori

"Single, easin pink." 4/21/45.

This is PI No. 141783, not named. According to earlier notes, "midseason, large flowered, claret rose, darker spots in blotch. (Needs verification. BYM)

32206. Macrantha Orange x Azuma-shibori

Hose-in-hose, reddish salmon. 4/21/45. This is PI No.

14178 not named or introduced.

32209. Macrantha Orange x Azuma-shibori

Hose-in-hose, rose color. 4/18/45.

Very large, dull light pink, hose-in-hose. 4/21/45.

32239. Macrantha Orange x Momozono

Hose-in-hose, salmon pink, medium to late. 4/21/45.

32242. Macrantha Orange x Momozono

Deep salmon, hose-in-hose. 4/18/45.

32243. Macrantha Orange x Momozono

Clear pink. 4/21/45.

Single rose cerise; midseason to late. 4/24/45.

32246. Macrantha Orange x Momozono

Salmon pink, blotched, hose-in-hose. 4/21/45.



32134. *Vittata Fortunei* x Willy

Large, similar to but darker than 32135. 4/21/45.

32135. *Vittata Fortunei* x Willy

Large, rose pink with some suggestion of blotch. 4/10/45.

32136. *Vittata Fortunei* x Willy

Large orange red. 4/10/45.

32137. *Vittata Fortunei* x Louise

Late white of modified Kaempferi type. 4/21/45.

32139. *Vittata Fortunei* x Louise

Large white flaked with rose. 4/10/45.

32140. *Vittata Fortunei* x Louise

Large flower, white ground, many red stripes. 4/10/45.

N.B. PI No. 141778 but not really introduced. This

variety has given three types, by sporting, a pure deep

red, a white flower lightly striped red, and a white

flower so heavily striped with red that the white appears

as the stripe. 1948.

32145. *Vittata Fortunei* x mucronatum

White with lilac stripes. 4/21/45.

32147. *Vittata Fortunei* x Willy

Dark brownish red, heavily blotched on upper lobe. 4/18/48.

32149. *Vittata Fortunei* x Marta

Larger than but like a Kurume flower, very early, pale

pink. 4/21/45.

This is Dayspring. PI No. 141780.

32155. Mrs. Carmichael x Willy

Dark, reddish brown. 4/10/45.

27486A. *Vittata Fortunei* x Louise

Moderately vigorous, single, somewhat starry, 2".

Rose Color flakes with white over which there is a heavy flush and dotting of Rose Color. Blotch slightly deeper. Foliage very narrow. Some plants propagated from self Rose Color shoots. Almost no white ground shows through. 1945.

27487A. *Vittata Fortunei* x Louise

Not strong growth? Midseason, flowers white with few stripes and flakes of Rosolane Purple. 1 3/4 - 2 1/4". 1945.

27488. *Vittata Fortunei* x Hinodegiri

First flower 1940, on May 5.

Usually mid-April, growth like *Kaempferi*, flower type of *Kurumes*, very floriferous, 1 1/2 - 2", a little sunburn, *Begonia Rose*, shaded *Rose Doree*, blotch heavy but not conspicuous, *Rose Red*. 4/10/1945.

27489.

General growth like a modified *Kaempferi*. Flowers 1 - 1 1/8", dark brownish red (*Carmine* shaded to *Oxblood Red*). Does not burn. No pollen. Late midseason. 1945.

27490.

Late midseason. Very free bloomer, single, 1 - 1 1/8" between *Nopal Red* and *Scarlet Red*. Modified *Kaempferi* type of bush. 1945.

27404. *Vittata Fortunei* x *Ho-oden*

Somewhat hooded, hose-in-hose, rose flakes, poor stigma, ovary swollen as in *Ho-oden*; early, 1 3/4 - 2 1/4", hose-in-hose, white ground, few stripes and many flakes. Rosolane Purple, carries brighter in effect. 1945.

Erect to spreading to 4'. Foliage dark green. 1948.

27405. *Vittata Fortunei* x *Ho-oden*

Growth habit like that of *R. mucronatum*, hose-in-hose, not open 4/7/46. No further notes. 1946.

Not very vigorous, hose-in-hose, swollen ovary, white with stripes and flakes of Spinel Pink, 2". 1945.

27407. *Vittata Fortunei* x *mucronatum*

*Mucronatum* type growth and flower, white striped Pale Rose Purple, several branches self Pale Rose Purple, 2 - 2 1/2". 1945.

27408. *Vittata Fortunei* x *mucronatum*

White, with general characteristics of *mucronatum* but with few lavender flakes. 1945.

27410. *Vittata Fortunei* x *mucronatum*

2" flowers of *mucronatum* type, very floriferous, white with lilac stripes. 4/12/45.

27411. *Vittata Fortunei* x *mucronatum*

Not vigorous but this may be due to crowding? 2 - 2 1/2" flowers, white with stripes and flakes of Liseran Purple.



27245. ✓

Almost white, very few lavender flakes. 1945.

27391. *Vittata Fortunei* x *Gibiyama*

Mucronatum type flower, 2", self. Light Rosolane Purple. 1945.

27392. *Vittata Fortunei* x *Gibiyama*

Much like 27393 but more heavily striped. Spinel Pink. 1945.

27393. *Vittata Fortunei* x *Gibiyama*

2-2 1/2" starry, white with variable striping of Spinel Pink. 1945.

27394. *Vittata Fortunei* x *Gibiyama*

Mucronatum type flower, 2", loose, Liseran Purple. 1945.

27395. *Vittata Fortunei* x *Gibiyama*

1 1/2-2", white striped and dotted. Light Rosolane Purple. 1945

27397. *Vittata Fortunei* x *Kaempferi*

Starry, "warm white", white with striping of Light Liseran Purple to Magenta, like 27398 but paler. 1945.

27398. *Vittata Fortunei* x *Kaempferi*

Not very vigorous, nice round flowers, 2 - 2 1/4", white ground, nearly covered with broad striping of Liseran Purple to Magenta. Some yellowish tone where blotch should be. 1945.

27401. *Vittata Fortunei* x *Kaempferi*

Not very vigorous, white striped and blotched Spinel Pink to Spinel Red. 1945.

27403. *Vittata Fortunei* x *Ho-oden*

Moderate growth, white, some flowers with broad flakes and a few dots of Rocallin Purple, hose-in-hose. Flowers tend to be hooded, 2", pistil swollen. 1945.

27480. *Vittata Fortunei* x *Miyagimo*

Single white, 1 1/2 - 2 1/4", very few flakes of Spinel Pink. 1945.

Very large white with few lavender flakes. 5/5/40.

27481. *Vittata Fortunei* x *Miyagimo*

Early pure white, irregular hose-in-hose, 2", almost no yellow in blotch. Like 27484 but with better calyx.

27482. *Vittata Fortunei* x *Miyagimo*

Late, slow to push new growth, very floriferous, bush like *Kaempferi*, flowers like modified *Kurumes*, hose-in-hose, 1 1/2", white with blotch of faint yellow dots. 1945.

27483. *Vittata Fortunei* x *Miyagimo*

Very floriferous, irregularly hose-in-hose, flowers 2 - 3 in head, 2" across, slightly paler than *Rosclane* Purple, but carry brighter because of yellow tone in throat. Mid-April.

27484. *Vittata Fortunei* x *Miyagimo*

Ground white, *Kurume*-type flower, yellowish blotch, outer hose feathered. 5/5/40.

Practically same as B. 27482, perhaps a little earlier in flower and taller. Hose-in-hose, calyx much less ragged than most. 4/7/45.

32418. Yozakura x Kagaribi  
Deep rose red. 4/11/45.
32420. Yozakura x Kagaribi  
Large, well rounded flower, red. 4/21/45.
32423. Macrantha Orange x Mikawa murasaki  
Large rounded flowers, vivid pink. 4/21/45.
32427. Macrantha Orange x Mikawa murasaki  
Pale pink blend. 4/21/45.
32442. "Indica lilacina" x Willy  
Tall pink, paler and pinker than 32445. 4/18/45.
32445. "Indica lilacina" x Willy  
Macronatum type, tall, lavender pink. 4/18/45.
32460. Vittata Fortunei x Louise  
"Indica" type flower, white, spinel red stripes. 4/14/45.
32468. Vittata Fortunei x Louise  
Midseason, large, deep rose. 4/21/45.
32479. Vittata Fortunei x Alice  
Tall red, dark blotch. 4/7/45.
32482. Vittata Fortunei x Alice  
Tall, rose red, with dark blotch. 4/11/47.
32483. Vittata Fortunei x Alice  
Tall red, dark blotch, similar to 32479 but slightly  
smaller and flower a little better in shape. 4/7/45.
32485. Vittata Fortunei x Alice  
Fine, tall, red toned. 4/21/45.
32512. Macrantha deep salmon x Hatsushimo  
2 1/2" orange pink, macrantha-type flower. 4/13/45.



27445. *Vittata Fortunei* x *Miyagimo*

Nice "peppermint" flakes, some stripes, one branch solid color. 5/5/40. PI No. 141774.

Moderate vigor, 2 - 2 1/2" flowers, single white, with clearly defined stripes and small flakes of Spinel Red. 1945.

Single, good flowers, carries as pale flesh pink. Flowers white with flakes and sandings of Eosin Pink. 4/7/46.

27446. *Kaempferi* x *Willy*

Looks like late Rose Pink *Kaempferi* back cross. 1945.

27449. *Splendens* x *Vittata Fortunei*

Two (cuttings) plants sent BYM: 1st plant 2-2 1/2" flowers, ragged calyx, white, Liseran Purple flakes; second plant, slightly smaller flowers, better calyx, one branch self

Light Rosolane Purple. 1945.

27450. *Mme. Margottin* x *splendens*

Late, single, Spinel Red, Indian Lake dots in blotch, 2", wavy margins. A dull color. 1945. PI No. 141776. Carmel.

27451. *Vittata Fortunei* x *Kyu-Miyagimo*

*Kaempferi* habit, tall, early, hose-in-hose, white, 1 1/2 - 2", good but not extra. 1945.

One of the rough (calyx) hose-in-hose whites, effect of *Kaempferi*. No stripes. 4/7/1946.

32582. Osakazuki x Flame  
Single red, 2", flower much like those one would have gotten if Kaempferi had been used instead of Flame. 4/21/45.
32585. Osakazuki x Flame  
Red, rounder and more imbricated flowers than in 32582.  
4/18/45.
32586. Malvatica x Satsuki (macrantha)  
Macrantha-type flower, purple. 4/13/45.
32587. Malvatica x Satsuki (macrantha)  
Good orange red, modified macrantha. 4/21/45.
32589. Malvatica x Satsuki (macrantha)  
2 1/2" rounded flower, bright pink. 4/24/45.
32591. Malvatica x Satsuki (macrantha)  
Very floriferous, bright pink; general outline of flower rounded but lobes not imbricated. 4/24/45.
32592. Malvatica x Satsuki (Macrantha)  
Somewhat starry, purplish rose red. 4/21/45.
32597. Malvatica x macrantha deep salmon  
Typical modified macrantha shape, between pinkish lavender and purplish rose colors. 4/18-24/45.
32599. Osakazuki x Kagaribi  
Small, intense red. 4/14/45.
32620. Vittata Fortunei x Warai-gishi  
Orange, large, shape typical of modified macrantha. 4/18/45.
32647. Vittata Fortunei x Osakazuki  
Large, orange, red blotch. 4/14/45.
32652. Macrantha deep salmon x Yae-shojo  
Smallish, orange red. 4/13/45.

32313. *Rhododendron Simsii* (PI 71356) x *Mucronatum*  
Very early Mallow Pink. 4/7/45.  
Now in propagation at Glenn Dale.
32347. *Splendens* x *Vittata Fortunei*  
Red stripes. 4/18/45.
32371. Willy x Momozono  
Salmon pink, hose-in-hose, Kurume-like flowers.
32372. Willy x Momozono  
Hose-in-hose, Kurume-like flower, deep rose pink,  
large. 4/7/45.
32377. *Vittata Fortunei* x HEA #34  
Hose-in-hose, brownish red. 4/7/45.
32378. *Vittata Fortunei* x HEA #34  
Pale Apricot, habit like Willy. 4/10/45. Now in  
propagation. 1948.
32382. *Vittata Fortunei* x HEA #34  
Medium size, carmine, almost solid blotch. 4/10/45.
32383. *Mucronatum* x *Vittata Fortunei*  
Large white flowers, striped lavender. 4/21/45.  
32384 similar but with more striping and 32385 with  
still more.
32414. *Malvatica* x Satsuki  
Two notations, one "pinkish purple", another "brilliant  
pink" made same day, probably due to illumination. 4/21/45.
32417. *Yozakura* x Kagaribi  
Large, rounded flower, 2-2 1/2", salmon pink with blotch.  
4/21/45.



32678. *Macrantha* deep salmon x Hazel Dawson

Large, "indica" type flowers, round and well imbricated,  
2 1/2 - 3", in effect orange, but really salmon to orange.

Blotch not showy. 4/21/45.

35220. *Malvatica* x *macrantha* deep salmon

PI No. 141901. Greeting.

35274. *Macrantha* deep salmon x Hazel Dawson

PI No. 141909. Remembrance.

Descriptions of Clones of Glenn Dale Azaleas, 1948

PI No. 141779 (B. 32142) <sup>Festive</sup> Frivolity

Erect somewhat spreading growth to 6 feet. Leaves medium green, somewhat pointed. Flowers usually 2-4 in head, but heads sometimes clustered. Flowers 2-2 1/2" across, pure white with no blotch, freely sanded and occasionally striped with dull rose (between Spinel Red and Rose Color). Effect from distance, flesh white. Mid-April.

✓  
163765 (B. 40149) *Adorable*

Somewhat spreading in growth but up to 5 feet. Leaves medium green, somewhat hairy. Flowers usually 3 - 4 in head, 3 - 3 3/4" across, slightly darker than Phlox Pink, blotch heavy, of fine dots of Tyrian Rose. Mid-April.



✓ 141786 (B. 32244)

*Satin Robe*

Erect to finally overarching to 5 feet. Leaves narrow, dark green. Flowers usually 2-4 in head, 2 1/2" across, hose-in-hose, between La France Pink and Geranium Pink, with heavy blotch of Tyrian Rose, that is repeated on the petaloid calyx. Late April, early May.

✓ 141787 (B. 32247) Pirate

Erect to finally overarching habit to 6 feet. Leaves small, dark green. Flowers usually 2-3 in head, 1 3/4 - 2" across, irregularly hose-in-hose, a little lighter than Scarlet Red, with very heavy blotch of Nopal Red on upper lobe spreading over adjoining two lobes. Late April, early May.

✓ 141788 (B. 32250)

*Fashion*

Erect to eventually overarching habit to 6 feet. Leaves small, dark green. Flowers usually 2-4 in head, 2" across, almost perfect hose-in-hose, Begonia Rose with heavy blotch of Tyrian Rose, anthers dark. Blotch is repeated on the petaloid calyx. Base of tube almost white. Late April, early May.

✓ 141789 (B. 32252) Magic

Erect to eventually overarching habit to 5 feet. Leaves fine dark green. Flowers usually 2-5 in head, 1 3/4" across, irregularly hose-in-hose, Rose Doree, blotch Tyrian Rose, but appears darker because dots are confluent. Late April, early May.

✓ 141790 (B. 32269) *Pastel*

Vigorous, upright.

✓ 141791 (B. 32305) *Semite*  
~~Seafoam~~

Vigorous, upright, rather open habit to 7 feet. Leaves medium green. Flowers usually 2-3 in head, but heads often clustered. Flowers 2" across, irregularly hose-in-hose, pure white. Early April before most whites.



✓ 141802 (B. 32622) Lustre

Bush erect but somewhat spreading to not over 5 feet.  
Leaves dark green, glossy, narrow. Flowers usually 2 in head,  
abundant, 2-2 1/2" across, very round and regular in form but  
lobes not imbricated, practically a self, Rose Color. Early May.

✓ 160000 (B. 27413) Delight

Erect, vigorous bush to 7 feet with heavy, broad, dark green leaves. Flowers usually 2-4 in head, 3-4" across, pure white with very few flakes of Phlox Purple. There will be occasional flowers with heavy stripes and rare branch sports that resemble the Sekidera form of R. mucronatum. Mid-April.

✓ 160002 (B. 27466) Quakeress

Erect to somewhat spreading habit to 6 feet. Leaves large, somewhat roughened, hairy. Flowers 2-7 in head, 2-2 3/4" across; white with few flakes of Bishop's Purple, very unequal in different flowers, margins sinuate. Mid-to late April.

✓ 160003 (B. 27488) Burgundy

Vigorous, upright growth, becoming spreading with age, to 6 feet. Leaves dark green. 2-3 flowers in head, 2" across. Rose Doree darkening to Nopal Red on margins. Heavy blotch of Tyrian Rose dots on upper three lobes. Carries as deep brownish red. Mid-April.



✓ 160005 (B. 32136) Troubador

Vigorous, erect, somewhat open growth to 8 feet, with medium size, light green leaves. Flowers usually 3 in a head, 2" across. Very well shaped with imbricated lobes. Almost pure Rose Doree, with very few dots in the small blotch, Tyrian Rose. Carries as salmon pink. Mid-April.

✓ 160006 (B. 32137) Bridal Veil

Rather open, upright growth, to 5 feet. Leaves medium green, somewhat hairy. Flowers usually 2-5 in head, 3" across, somewhat starry, white with Chrysolite Green blotch on upper three lobes. Flowers before R. mucronatum.

✓ 160007 (B. 32143) *Marvel*

Erect to broad spreading, to 5 feet. Leaves medium green. Flowers up to 5 in a head, 3-3 1/2" across, Deep Rose Pink, shaded Rose Color, blotch Tyrian Rose. Mid-April.

✓ 160008 (B. 32147) Minstrel

Very vigorous, rather erect to 6 feet. Leaves medium green. Flowers usually 3-5 in head, 3" across, Nopal Red with contrasting blotch of Tyrian Rose. Mid-April.

✓ 160011 (B. 32169) *Tokay*

Vigorous, erect growth, eventually filling in, to 8 feet. Leaves medium green. Flowers usually 2-3 in head, 2-2 1/2" across, between Rose Pink and Deep Rose Pink, blotch Rose Color, with brownish overtone. Plant does not make good display until mature. Mid-April.

✓ 160012 (B. 32192) *Paradise*

Erect to eventually overarching growth to 5 feet. Leaves dark green, glossy, small. Flowers 2-5 in head, 2" across, hose-in-hose, Rose Doree, with wide blotch of Tyrian Rose dots. Late April, early May.

✓ 160014 (B. 32238)

*Denure*

Erect to finally overarching habit to 5 feet. Leaves fine, dark green. Flowers usually 2-3 in head, 2" across, slightly paler than Rose Color; dots of Rose Red make up the blotch that covers most of the upper 3 lobes. Late April, early May.

✓ 160015 (B. 32234) Souvenir

Erect to finally overarching growth to 5 feet. Fine dark green foliage. Flowers usually 2-4 in head, 1 1/4" across, irregularly hose-in-hose. Eosin Pink with Begonia Rose blotch that gives deeper tone to the salmon pink effect. Late April.

✓ 160016 (B. 32240) Hopeful

Erect to eventually overarching habit to 6 feet. Leaves small, pointed, dark green. Flowers usually 2-3 in head, very regular in form, 1 1/2 - 1 3/4" across. Rose Color, blotch inconspicuous. Late April, early May.

✓ 160017 (B. 32241) Coralie

Erect to eventually overarching <sup>habit</sup> to 5 feet. Foliage dark green, narrow. Flowers usually 2-4 in head, 1 1/2 - 1 3/4" across. Somewhat irregularly hose-in-hose. Eosin Pink, flushed Rose Doree, conspicuous Tyrian Rose blotch. Carries in effect as salmon pink. Early May.

✓ 160018 (B. 32243) Illusion

Dense evergreen bush, upright to spreading to 4 feet. Flowers usually 2-3 in head, 2 1/2" across, somewhat starry, Deep Rose Pink with Tyrian Rose blotch. Late April.



✓ 160021 (B. 32246) Fanfare

Erect to eventually overarching habit to 5 feet. Leaves narrow, dark green. Flowers usually 2-4 in head, 1 3/4" - 2" across, somewhat irregularly hose-in-hose, Eosin Pink, blotch of Rose Red covers upper lobe and half of each adjoining. Late April, early May.

✓ 160027 (B. 32253) Serenade

Erect to eventually overarching growth to 6 feet. Leaves dark green. Small. Flowers usually 2-3 in head, 1 3/4 - 2" across, irregularly hose-in-hose. Old Rose of Ridgway, but garden effect is fine salmon pink, conspicuous blotch of Tyrian Rose on three upper lobes. Late April, early May.

✓ 160028 (B. 32254) Gracious

Erect to eventually overarching habit to 5 feet. Leaves heavy, dark green. Flowers usually 2-6 in head, 2" across, between Tyrian Pink and Rose Color, blotch heavy Tyrian Rose. Brighter than PI No. 160032. Late April, early May.

✓ 160029 (B. 32255) Enchantment

Erect to eventually overarching growth to 5 feet. Fine pointed, dark green leaves. Flowers usually 2-3 in head, 1 1/2 - 1 3/4" across, almost perfect hose-in-hose. Geranium Pink with heavy blotch of Tyrian Rose on upper three lobes. Late April, early May.

✓ 160030 (B. 32256) Vanity

Erect to eventually overarching growth to 5 feet. Fine dark green leaves. Flowers usually 2-4 in head, 1 1/2 - 1 3/4" across, irregularly hose-in-hose, Begonia Rose color, with blotch slightly deeper. Late April, early May.

✓ 160031 (B. 32257) Danozel

Erect to eventually overarching habit to 5 feet. Leaves narrow, dark green. Flowers generally 2-4 in head, 2" across, irregularly hose-in-hose. Geranium Pink, heavy blotch of Tyrian Rose, white at base of tube. Late April, early May.

✓ 160032 (B. 32258) Evensong

Erect to gradually overarching habit to 5 feet. Leaves narrow, dark green. Flowers usually 2-3 in head, 1 3/4 - 2 1/4" across, somewhat starry, Rose Color, blotch Tyrian Rose but not conspicuous. Late April, to mid-May.



## ✓ 160034 (B. ) Prudence

Erect to eventually overarching habit, to 5 feet. Leaves dark green, acuminate. Flowers usually 2-4 in head (color notes to follow). Late April, early May.

## ✓ 160035 (B. 32261) Favorite

Erect to eventually overarching habit to 5 feet. Leaves small, dark green. Flowers usually 2-3 in head, 1 1/4 - 1 1/2" across, irregularly hose-in-hose, Geranium Pink with heavy blotch of Nopal Red on upper lobe. The orange undertone of newly opened flowers lightens to give pale salmon effect. Late April, early May.

## ✓ 160036 (B. 32263) Coquette

Erect to finally overarching habit to 5 feet. Leaves fine, dark green. Flowers usually 2-3 in head, 2" across, almost perfect hose-in-hose, between Eosin Pink and Begonia Pink, with few dots of Tyrian Rose in inconspicuous blotch. Conspicuous red pistil with dark stigma. Late April, early May.

## ✓ 160037 (B. 32271) Capella

Erect, rather stiff growth, eventually filling into dense habit, to 6 feet. Foliage light green. Flowers usually 2-3 in head, heads sometimes clustered so that a rhododendron-like mass of 14-15 flowers appears. Irregularly hose-in-hose, 2 - 2 1/2" across. White with rare flakes of Matthew's Purple. Very showy. Mid-April.

✓ 160038 (B. 32280) Red Robe

Vigorous, upright growth to 5 feet. Leaves medium green. Flowers usually 2-3 in head, 2 3/4" across, very brilliant in effect, Nopal Red with large blotch made up of small dots of Tyrian Rose that gives a brownish tone to the Nopal Red. Late April.

Mascot ✓

160039 (B. 32282)

Vigorous upright growth to 8 feet. Leaves medium green. Flowers usually 2-4 in head, some flowers with six instead of five lobes, 2 - 2 1/2" across. Begonia Rose with conspicuous blotch of confluent dots of Tyrian Rose. Mid-April.

✓ 160041 (B. 32293) *Padre*

Vigorous, erect growth to 7 feet. Leaves dark green. Flowers usually 2-3 in head, 2 - 2 1/4" across, sinuate margins, between Liseran Purple and Pale Rosolane Purple. Late April.

✓ 160042 (B. 32297) *Sappho*

Vigorous upright growth with somewhat spreading crown to 6 feet. Leaves medium green. Flowers usually 3-5 in head, 2 - 2 1/2" across, between Rhodamine Purple and Tyrian Rose, with blotch of Pansy Purple. Late April.

*Ballet Girl* ✓

<sup>3</sup>  
160042 (B. 32302)

Vigorous, upright but somewhat open growth to 7 feet. Leaves medium green. Flowers usually 2 - 3 in head but often grouped in large masses, hose-in-hose. General effect is orange red. Early to mid-April.

✓ 160044 (B. 32303) *Sebastian*

Vigorous, upright to somewhat open growth to 7 feet. Leaves medium green. Flowers usually 2 - 3 in head but heads often grouped close together, hose-in-hose, Rose Color with inconspicuous blotch of Tyrian Rose. Early April.



✓ 160048 (B. 32320) *Modesty*

Erect but not too spreading habit to 5 feet. Leaves dark green, somewhat hairy. Flowers usually 2 - 3 in head, 2 1/2 to 3" across. Tyrian Rose flushed Rose Color from center. Semi-double. Mid-April.

3 ✓ 160049 (B. 32337) Chloe

Growth similar to but better than that of R. macronatum ("indica alba"), to 5 feet. Leaves medium green, somewhat pubescent. Flowers usually 2 - 3 in head, 2 3/4 - 3" across, margins ruffled. Brilliant color, Tyrian Rose with inconspicuous blotch of Tyrian Rose dots. Mid-April.

✓ 160050 (B. 32364) *Vision*

Erect to wide spreading to 8 feet. Leaves medium green, somewhat hairy. Flowers usually 2 - 3 in head, 2 1/2 - 3" across, very brilliant Tyrian Pink, slightly paler in center, few dots in blotch. Mid-April.

✓ ✓ 160051 (B. 39391) Marmora

Erect to somewhat spreading up to 7 feet. Leaves medium green. Flowers usually 2 - 4 in head, heads often clustered, 2 - 2 1/2" across, pure white, abundant, no suggestion of blotch. Mid-April.

✓ 160053 (B. 32414) *Arcadia*

Strong, rather erect growth to widely spreading crown, to 7 feet. Leaves medium green, moderate size. Flowers usually 2 - 3 in head, 3" across, somewhat funnel-shaped, between Deep Rose Pink and Rose Color, spots of blotch Tyrian Rose, showy, anthers brown and filaments Tyrian Rose. Late April.

✓ 160056 (B. 32423) Signal

Upright to eventually overarching growth to 5 feet. Fine dark green leaves. Flowers usually 2 - 3 in head, 2 - 2 1/4" across, somewhat starry. Rose Color with conspicuous Tyrian Rose blotch. Most effective when mature. Mid- to late April.

✓ 160057 (B. 32432) *Valkyrie*

Somewhat spreading up to 5 feet. Leaves medium to dark green. Flowers usually 2 - 3 in head, 3" across, almost self Mallow Purple, slightly deeper at margins. Late April.

✓ 160058 (B. 32442) *Lypsey*

Erect to somewhat spreading habit to 8 feet. Leaves medium green, somewhat hairy. Flowers 2 - 3 in head, 3 - 3 1/4" across, somewhat starry but very striking. Between Mallow Purple and Light Mallow Purple. Late April.

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✓ 160059 (B. 32445) *Simplex*

Erect to ~~wide~~ spreading bush to 7 feet. Leaves medium green, somewhat hairy. Flowers usually 3 - 5 in head, 2 1/2 - 3" across, Mauvette washed Lilac, almost no blotch. Mid-April.



✓ 160062 (B. 32471) *Morning Glow*

Very erect to slightly spreading habit to 6 feet. Leaves dark green. Flowers 2 - 3 in head, but massed, 2" across, good form, Rose Color but with a suggestion of yellow undertone that makes color more lively. Mid-April.

✓ 160066 (B. 32483) Marionette

Vigorous, rather upright growth with medium-sized, light green leaves, to 8 feet. Flowers usually 3 in a head, 1 1/2 - 2" across, particularly well formed with overlapping lobes. Eosin Pink shading to Geranium Pink on margins. Blotch conspicuous, Tyrian Rose. Effect is brilliant salmon pink with light crimson blotch. Mid-April.

160067 (B. 32603) Seneca

Rather erect to spreading habit, to 4 feet. Leaves narrow, dark green. Flowers usually 2 - 4 in head, 2" across. Jasper Red, blotch distinctly purplish (Tyrian Rose) but not showy. Anthers dark. Late April.

068 ✓ 160069 (B. 32512) Festive *Charmer*

Very vigorous, erect to wide spreading to 5 feet. Leaves small lanceolate, dark green. Flowers from 1 - 4 in head, 2 1/2 - 3" across of very beautiful form like that of the so-called "Belgian" azaleas. Rose Color, slightly paler at base of tube, very few dots of Tyrian Rose, margins of lobes undulate. Late April.

✓ 160070 (B. 32513) Daphnis

Very vigorous, erect to spreading habit, to 5 feet. Excellent, small narrow leaves. Flowers usually 2 - 3 in head, 2 - 2 1/2" across. Tyrian Pink, with few nearly confluent dots at base of upper lobe. There is a suggestion of yellow at base of tube. Very fine. Late April.

✓ 160072 (B. 32536) Vintage

Vigorous, rather wide spreading growth to 4 feet. Leaves rather broad, glossy, dark green. Flowers usually 2 - 3 in head, 2" across, rounded and well imbricated. Pale Rosolane Purple, no blotch. Late April.

✓ 160073 (B. <sup>32537</sup>) Glacier

Vigorous, erect to spreading growth up to 5 feet, with very handsome lustrous dark green leaves. Flowers usually borne 2 - 3 in a head, 2 1/2 - 3" across, shining white with a faint green tone. Late April. As fine in quality as some of the "Belgian" azaleas.

✓ 160074 (B. 32539) Corydon

Erect to broad spreading habit up to 4 feet. Leaves almost like those of a Kurume. Flowers 2 - 3 in head, 2 - 2 1/4" across, very fine form with overlapping lobes, slightly deeper in color than Deep Rose Pink, with a few dots in blotch, near throat, in upper lobe. Late April.

✓ 160075 (B. 32540) Fairy Bells

Vigorous, upright to spreading habit, to 6 feet. Leaves broad, dark green. Flowers usually 2 - 4 in head, 2 - 2 1/2" across, hose-in-hose, pendant like a Christmas cactus. Spinel Pink, with few dots of Tyrian Rose. Mid-April.

160076 (B. 32543)

Erect, somewhat spreading habit to 5 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 - 2 1/2" across, very well shaped, darker than Deep Rose Pink but not quite Rose Color, yellowish at base of tube, few dots of Tyrian Rose. Late April.



✓ 160077 (B. 32545) Jamboree

Erect, somewhat spreading habit to 5 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 - 2 1/2" across. Color carries as a little lighter than Scarlet Red but is not as light as Rose Doree, blotch not conspicuous. Late April.

A ✓ 160078 (B. 32548) Ostarte

Vigorous, erect to spreading habit to 6 feet. Leaves broad dark green. Flowers usually 3 - 4 in head, 2 3/4 - 3 1/4" across, white at base of tube, Amaranth Pink, shading to Tyrian Pink, blotch showy, Tyrian Rose. Mid-April.

✓ 160079 (B. 32586) Violetta

Erect to wide spreading to 4 feet. Leaves fine dark green. Flowers usually 2 - 3 in head, 2 - 2 1/2" across, Light Mallow Purple, blotch Rhodamine Purple. Mid-April.

160080 (B. 32587) Swashbuckler

Vigorous, upright to spreading habit to 5 feet. Leaves narrow, dark green. Flowers 2 - 3 in head, 2 - 2 3/4" across, Rose Doree, heavy blotch of Spectrum Red, stamens and pistil red. Early May.

✓ 160082 (B. 32593) *Consuela*

Erect to broad spreading habit, to 5 feet. Leaves medium green; flowers usually 2 - 3 in head, 2 1/2 - 3" across, alightly paler than Rose Color, lightening to Deep Rose Pink in center. Blotch not conspicuous, of small Rose Color dots. Late April.

✓ 160084 (B. 32599) Kashmir

Erect to spreading habit to 6 feet. Leaves narrow, dark green. Flowers usually 3 - 5 in head, 3" across, Nopal Red, with broken blotch of Tyrian Rose dots. Mid-April.

✓ 160085 (B. 32603) Beacon

Erect but eventually overarching growth to 5 feet. Leaves rather narrow, dark green. Flowers 2 - 3 in head, 1 3/4" across, almost pure Rose Doree but in effect nearly pure rose color. Mid-April, early May.

✓ 160086 (B. <sup>32614</sup> ) Robinhood

Vigorous, rather upright-growing bush to 5 feet. Leaves semi-evergreen in this climate. Flowers usually 2 - 3 to head, 3 1/2 - 4" across, deep rose red (Ridgway, Tyrian Purple) with heavy dotting of small points to make blotch. Pistil and filaments scarlet. Mid-April.



✓ 160088 (B. 32627) *Nectar*

Erect but eventually spreading habit, to 5 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 1/2 - 2 3/4" across. Effect is Rose Doree, slightly paler at edges. Blotch not conspicuous. Late April.

✓ 160089 (B. 32629) *Constance*

Vigorous, erect, somewhat spreading growth to 6 feet. Leaves narrow, medium green. Flowers usually 2 - 3 in head, 3 - 3 1/2" across. Rose Color. The small Rose Red dots that make up the large blotch show chiefly as a darker tone. Late April.

✓ 160090 (B. 32646) *Effective*

Moderate, upright growth to 4 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 1/2 - 3" across. Rose Color, with very little suggestion of blotch. Form rounded and substance very good. Mid-April.

✓ 160091 (B. 32647) *Granat*

Rather erect growth to 6 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2" across, a little brighter than Eugenia Red. Blotch large but not conspicuous, made up of many fine dots of Tyrian Rose. Early May.

✓ 160093 (B. 32650) *madeira*

Vigorous, erect growth to eventually spreading crown to 7 feet. Leaves medium green, not large. Flowers usually 2 - 3 in head, 3" across, rather funnel-shaped, between Deep Rose Pink and Rose Color, spots of blotch Tyrian Rose, showy, anthers brown, filaments Tyrian Rose. Late April.

✓ 160094 (B. 35287) Clarion

Erect but somewhat open growth while young, filling in later to 8 feet. Leaves medium green, not heavy. Flowers usually 2 - 3 in head, 2 3/4 - 3" across, between Rose Doree and Scarlet Red, blotch inconspicuous with dots of Tyrian Rose, orange tone at base of tube. Mid-April.

✓ 160095 (B. 39030) Argosy

Vigorous, erect to spreading, to 5 feet. Leaves medium green, somewhat hairy. Flowers usually 2 - 3 in head, 3 - 3 1/2" across, lobes distinct, Geranium Pink, darkening to Rose Doree on upper half of lobes, blotch conspicuous, large dots of Tyrian Rose. Late April, early May.

✓ 160099 (B. 39036) Damaris

Strong, rather upright growth, to 6 feet. Leaves dark green. Flowers usually 3 - 7 in head, 2 - 2 3/4" across, sinuate margins of corolla lobes, Mallow Purple washed over with Rose Red, blotch heavy, Amaranth Purple, stamens Rose Red. Mid-May.

✓ 160100 (B. 39037) Afterglow

Strong, rather erect, growing to 7 feet. Leaves medium green, not very large with rounded tips. Flowers usually 2 - 3 in head, 1 3/4 - 2" across, Mallow Purple with large blotch of Tyrian Rose dots that appear only as dark shading in flower. Base of tube a little lighter, with suggestion of orange on outer surfaces.

Late April.

✓ 160101 (B. 39038) Warrior

Strong, rather erect, growing to 7 feet. Leaves medium green. Flowers usually 3 - 5 in head, 2" across, somewhat "hooded", Mallow Purple; blotch Rose Red covering upper lobe and part of two adjoining lobes, gives great warmth. Late April.

✓ 160102 (B. 39039) Norsean

Rather spreading growth to 5 feet, with medium green foliage. Flowers 2 - 5 in head, 1 3/4 - 2" across, very perfect hose-in-hose, slightly deeper than Rose Pink, blotch Mallow Purple, anthers dark, almost black. Late April.



✓ 160123 (B. 39083) *Astra*

Vigorous, upright to spreading habit to 5 feet. Leaves narrow, dark green. Flowers usually 2 - 3 in head, 2 1/2 - 3" across, almost white at base of tube, between Mallow Purple and Tyrian Pink. Blotch conspicuous, Amaranth Purple. Flower very round and lobes well imbricated. Late April.

✓ 160110 (B. 39049) *Angelus*

Vigorous, rather spreading growth to 5 feet, with long twigs. Leaves dark green. Flowers usually 3 - 5 in head, 2 - 2 1/2" across, Pale Rosolane Purple, blotch showy Rosolane Purple. Late April.

✓ 160111 (B. 32143) *Comodore*

Rather spreading growth to 4 feet. Foliage dark green, narrow. Flowers usually 2 - 4 in head, 2 3/4 - 3" across, Scarlet Red, with heavy blotch of almost confluent dots of Amaranth Purple. This carries as deep crimson. Late April, early May.

✓ 160112 (B. 39054) *Colleen*

Rather open Kaempferi-like habit to 7 feet. Leaves medium green. Very floriferous, flowers usually 3 - 10 in head, 2" across, Geranium Pink, blotches variable. Late April, early May.

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✓ 160114 (B. 39056) *Blushing Maid*

Rather open Kaempferi-like habit to 7 feet. Leaves medium green. Flowers usually 3 - 5 in head, 2 - 2 1/2" across, almost round, margins sinuate, between Thulite Pink and Spinel Pink. Late April, early May.

✓ 160115 (B. 39057) *Bagatelle*

Rather open, erect growth to 7 feet. Foliage medium green. Flowers usually 3 - 5 in head, 2 3/4 - 3 1/4" across, a little white at base of tube, Begonia Rose washed with Rose Doree, sinuate margins, blotch not showy, of Tyrian Rose dots. Late April, early May.

✓ 160104 (B. 39041) Peerless

Vigorous, erect to finally overarching habit to 5 feet.  
Leaves narrow, dark green. Flowers usually 2 - 4 in head, 1 3/4"  
across, irregularly hose-in-hose, Geranium Pink darkening to  
center, blotch conspicuous on three upper lobes, almost Nopal Red.  
Brilliant. Late April, early May.



✓ 39085  
160125 (B. ) Treasure

Vigorous growth more or less like that of Rhododendron macronatum but more spreading and with more and heavier leaves. The flowers are usually 2 - 3 in head, 3 1/2 - 4 1/2" across. The developing buds are tinted with pale pink (Cameo Pink) but this fades out as the flower opens, leaving only a suggestion of pink on the margins of the lobes and in the blotch. Should replace R. macronatum (Asalea indica alba) in most plantings.

✓ 160127 (B. 39087) Mother of Pearl

Erect, somewhat spreading to 6 feet. Leaves medium green. Flowers many to a head, as in Kuruse varieties, 1 1/2 - 1 3/4" across. They are essentially white, washed from the margins with Pale Amaranth Pink, often with white area in center of each lobe. Very few dots of Tyrian Pink in blotch on upper lobe. Irregularly hose-in-hose. Mid-April.

✓ 160130 (B. 39090) *Templar*

Erect to wide spreading, bushy habit, to 6 feet. Leaves narrow to long, semi-deciduous. Flowers usually 2 - 3 in head, 2 3/4 - 3" across, wide spreading, well imbricated, almost white at base of tube, Light Mallow Purple, blotch Rhodamine Purple, but not showy. Mid-April.

✓ 160131 (B. 39091) *Ladylove*

Erect to wide-spreading growth to 6 feet with good green foliage. Flowers usually 2 - 3 in head, 3" across, between Rose Pink and Deep Rose Pink, darker at margins. Blotch not heavy, dots of Tyrian Rose. Late April.

✓ 160132 (B. 39092) *Cherry Spot*

Erect to somewhat spreading growth up to 6 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 - 2 1/2" across with well rounded lobes. Between Rose Purple and Liseran Purple.

Blotch Tyrian Pink, made up of very small dots. Late April.

✓ 160133 (B. 39094) *Rising Sun*

Erect to somewhat spreading habit to 6 feet. Medium green leaves. Flowers usually 2 - 3 in head, 3 - 3 1/2" across, well rounded. Slightly deeper than Mallow Pink, and darker towards the margins. The blotch is made up of many fine dots but is not showy. Mid- to late April.



## ✓ 160138 (B. 32280) Corsair

Vigorous, upright growth to 5 feet. Leaves medium green. Flowers usually 2 - 3 in head, 2 3/4" across. Very brilliant in effect, Nopal Red with large blotch made up of small dots of Tyrian Rose that give brown tone over the Nopal Red. Late April.

✓ 160139 (B. 39104) Flamingo *Shivaree*

Erect to somewhat spreading habit to 5 feet. Leaves dark green. Flowers usually 2 - 3 in head, 3" across, Deep Rose Pink, small not very showy blotch of Tyrian Rose dots. Late April.

## ✓ 160140 (B. 39131) Sheila

Erect with ascending branches, eventually forming a broad crown to 6 or 7 feet. Leaves medium green, not conspicuously hairy. Flowers 2 - 4 in head, 3 - 3 1/2" across, abundantly produced, palest at center but deepening toward margins, nearest Amaranth Purple in center, almost to Tyrian Pink in margins. Blotch not conspicuous. Late April.

✓ 160141 (B. 39132) *acme*

Erect with ascending branches, eventually forming a broad crown, to 6 or 7 feet. Leaves medium green. Flowers 2 - 3 in head, 2 1/4 - 3" across, fine form, at center Pale Rosolane Purple gradually darkening to Rose Color, near margins. Dots of blotch numerous but not conspicuous. Late April.

✓ 160142 (B. 39133) *Sentinel*

Spreading rather than erect, but up to 7 feet. Leaves medium green, somewhat pubescent. Flowers usually 3 - 4 in head, 2 3/4 - 3" across, margins of the imbricated lobes sinuate. Amaranth Pink washed with Tyrian Rose. Blotch not conspicuous, made up of fine dots, slightly darker than petals. Late April, early May.

✓ 160136 (B. 39100) Content

Erect with eventually broad spreading crown to 5 feet.

Leaves medium dark green, broadly obovate and glossy. Flowers

2 - 4 in head, 2 3/4 - 3" across, of very fine form with intricate

lobes. Pale Amaranth Purple with very few dots of Tyrian Rose at base

of upper lobe. Very pure, clear color. Sister seedling to Glacier.

Late April, early May.

✓ 39470  
163096 (B. ) Madrigal

Vigorous, rather spreading bush to 3 1/2 feet, with slender, quite evergreen foliage. Flowers usually 2 - 3 in head, 3 1/2" across, pale rose pink with a blotch alightly deeper in color that extends beyond the uppermost lobe on to the two side lobes. Mid- to late April.

✓ 39474  
163097 (B. ) Carnival

Vigorous, upright to spreading bush to 4 feet, with fine evergreen foliage. Flowers usually 2 - 3 in head, 3 1/2 - 4" across, color salmon with orange undertone with heavy dull red blotch on the uppermost lobe. Mid- to late April.



✓ 163899 (B. 32378) Ambrose <sup>ia</sup>

Erect and somewhat spreading habit to 8 feet. Leaves medium green, semi-pubescent. Flowers 2 - 5 in head, 1 3/4 - 2" across. Begonia Pink, becoming, with age, pale apricot in effect. Very distinct color. Mid-April.

✓ 163902 (B. 39448) *Eros*

Rather low-spreading growth, ultimate height not yet known but probably not over 3 feet. Heavy dark green, glossy foliage. Flowers 2 -3 in head, 2 1/2 - 3" with very heavy substance, extremely well shaped, with overlapping lobes. Eosin Pink, becoming lighter as flower matures. Small blotch at base of uppermost lobe, made of fine dots of Tyrian Rose. End of May, early June

✓ 163903 (B. 39449) *Salathia*

Similar in all details to PI No. 163902 save in flowers. These are the same in size, but less well imbricated and of a color between Rose Pink and Deep Rose Pink of Ridgway. There is a small blotch of Tyrian Rose dots. End of May, early June.

✓ 163904 (B. 39450) *Polaris*

Similar to PI No. 163902 except in flower detail. The color is Deep Rose Pink shaded to Rose Color. There is a heavier blotch of Tyrian Rose and a faint suggestion of yellow at base of tube that enlivens the pink. End of May, early June.

✓ 163929 (B. 39487) *Sprite*

Very vigorous and somewhat spreading habit, up to 5 feet. Leaves medium green and slightly hairy. Flowers usually 2 - 3 in head, 2 1/2 - 3" across, somewhat starry, in color Mallow Pink lightly shaded toward margins with Light Mallow Purple. Mid-April. The blotch is made up of fine dots of Tyrian Pink that give a bright tint to flower.

✓ 163930 (B. 39488) *Camelot*

Growth somewhat like that of R. mucronatum but leaves darker and less hairy, spreading to 5 feet. Flowers usually 2 - 3 in head, 2 3/4 - 3" across. Tyrian Pink, deeper at margins. Blotch spreading and conspicuous, Tyrian Rose. Mid-April.



✓ 163932 (B. 39490) Snowscape

Erect growth with broad spreading top when mature, to 6 feet. Leaves green, rather narrow and pointed. Flowers generally 3 - 5 in head, rather trumpet shaped, 2" across. Greenish white, no blotch. Late midseason after most whites have passed. End of May.

✓ 163933 (B. 39491) Driven Snow

Similar to PI No. 163932 but with broader, darker green leaves. Flowers usually 2 - 3 in head, 3" across, widely opened. Pure white, late midseason. To 6 feet. End of May.

✓ 163937 (B. 39495) Pippin

Erect to spreading habit, to 5 feet. Narrow dark green foliage. Flowers usually 2 -3 in head, 2 - 2 1/2" across. In color between Geranium Pink and Rose Doree, not conspicuous blotch of small dots of Rose Color, anthers brown, base of tube almost white. Somewhat starry. Late April.

✓ 160119 (B. 39080) Araby

Very vigorous, erect to spreading growth to 5 feet, with heavy dark green, rather narrow foliage. Flowers usually 2 -3 in head,  $2\frac{3}{4}$  - 3" across, rounded with good form. The color is a little more brilliant than Jasper Red but not quite as fine as Nopal Red, blotch Tyrian Rose. Late April.



✓ 163939 (B. 39457) Rose Ash

Erect to spreading habit, rather open while young, to 4 feet. Narrow, dark green foliage. Flowers usually 2 - 3 in head, 2 1/2 - 3" across, Geranium Pink passing almost to Rose Doree. Numerous dots of Rose Red make up the not very conspicuous blotch. Occasional extra lobe in corolla. Late May, early June.

At Glenn Dale, or later in Takoma Park, when a seed harvest was made from a cross, a Bell number was assigned to the entire population under which it was grown to flowering. If selections were made from that population, individual Bell numbers were given to each plant. Later, those plants that were selected to be given PI numbers were chosen from these selected clones. Most of these were determined on the basis of individual performance not only at Glenn Dale but also at Takoma Park where a small clonal propagation was also grown. The number of PI selections, however, was greatly increased by studies in 1945, 1946, 1947 on the materials still growing at Glenn Dale and not represented in Takoma Park. Additional numbers were chosen from clones sent to the National Arboretum and not represented either at Glenn Dale or Takoma Park. These last were from crosses made at Takoma Park, germinated at Glenn Dale and sent to the National Arboretum as whole populations. (Bell Nos. 33337 to 33367 inclusive)

The following very brief notations were made by Morrison merely as working notes for his own use. They are of relatively small value for the record but are included here chiefly as evidence that a very considerable study was made before any of the final selections were determined. As far as he is concerned, they represent no more than "work sheets".

All capitalized color terms indicate Ridgway Color Nomenclature. Other color terms are in the popular usage only and were noted chiefly for future use in judging seedling populations in which the clone may have been used.

*Azalea vittata Fortunei* as seed parent.

One of the definite projects given to Mr. Gunning in the earliest stages of the azalea breeding project was to cross "*Vittata Fortunei*" with everything available. This was carried out on the plant bought from Fruitland Nurseries (Bell 10159 ) the spring following its purchase. The plants were potted and the work was done under glass.

Notes were taken in 1939 in the woods planting on the populations covered by the following numbers in the Bell Series:

13555	<i>Vittata Fortunei</i>	x	HEA #38
13556	"	"	x <i>Amoena</i>
13557	"	"	x <i>Kaempferi</i>
13558	"	"	x <i>Ho-oden</i>
13559	"	"	x <i>Marta</i>
13560	"	"	x <i>Maxwellii</i>
13561	"	"	x <i>Bridesmaid</i>
13562	"	"	x HEA #34
13563	"	"	x <i>Amoena</i> (see 13556 above)
13564	"	"	x <i>Alice</i>
13565	"	"	x <i>Willy</i>
13566	"	"	x <i>indica alba</i> ( <i>R. mucronatum</i> )
13567	"	"	x <i>Omurasaki</i>
13568	"	"	x <i>Gibiyama</i>
13569	"	"	x <i>Surisumi</i>
13570	"	"	x <i>Asahi</i>
13571	"	"	x <i>Miyagimo</i>
13572	"	"	x <i>Kurai-no-himo</i>
13574	"	"	x <i>Louise</i>
13575	"	"	x <i>Koraini</i>
13576	"	"	x <i>Kyu-Miyagimo</i>
13603	"	"	x <i>Willy</i> (see also 13565)
13609	"	"	x <i>Louise</i> (see also 13574)
13622	"	"	x <i>Sunsta</i>



Crosses with Vittata Fortunei as pollen parent:

13580 Phoenicea x Vittata Fortunei  
13581 indica alba (R. mucronatum) x Vittata Fortunei  
13606 Alice x Vittata Fortunei  
13608 " x " "  
13609 Louise x " "  
13617 PI 78385 (R. Simsii) x Vittata Fortunei  
13620 Maxwellii x Vittata Fortunei  
13624 Hinodegiri x " "

At this writing (November 1948) no attempt has been made to check old records to see if there were other similar combinations because no notes were taken, and the mere recording has no value.

The notes were taken primarily to discover if striped flowers would appear in the F<sub>1</sub> generation. Notes taken May 1939.

13555. Vittata Fortunei x HEA #38

25 plants in population. No whites or stripes.

Very little increase in size of flowers (over HEA #38). Very twiggy, good habit. Not a valuable set. One preliminary selection.

13556. Vittata Fortunei x Amoena (see also B. 13563)

42 plants in population. All very strong purplish

hue with red in the blotch area. A few of Hinodegiri color. (no mention of size, but actually intermediate).

13557. Vittata Fortunei x Kaempferi

52 plants in population. No whites or stripes.

All essentially Kaempferi in all details, but colors definitely more pink than Kaempferi colors.

13558. *Vittata Fortunei* x Ho-oden

33 plants in population. 7 whites. Closer to Ho-oden than to *Vittata Fortunei*, not especially vigorous. (Later observation on 3 individuals selected for observation, 27403, 27404, 27405, shows that they were reasonably vigorous up to 5 or 6 feet, but that while the individual flowers were fine, much like Ho-oden, they were not outstanding.

13559. *Vittata Fortunei* x Marta

25 in population. 13 white and white with stripes. Flowers smaller than those of *Vittata*, about *Kaempferi* size. Very good form. Bush of considerable height and more twiggy than most *Vittata Fortunei* seedlings. (Later observations show us no notes on the earliest selections, B. 27416, 27417, 27418, but that a second lot, 32148, 32149, 32150, were all chosen for earliness and their delicate colorings.

Caress PI 141769 was originally B. 27417

Dayspring PI 141780 was originally B. 32149

13560. *Vittata Fortunei* x *Maxwellii*

Population, 50 plants. No record of white or stripes. "Not very vigorous, tend to be late and large flowered." (Apparently two preliminary selections were made, B. 32142, 32143, for which I have no later notes.)

13561. *Vittata Fortunei* x *Bridesmaid*

20 plants in population. Not unlike B. 13556 (*Vittata Fortunei* x *Amoena*) but pinker in color range - not important. (Apparently only one selection was made, B. 32490, for which I have no notes).

13562. *Vittata Fortunei* x HEA #34

10 plants in population, no whites, "poor". (One selection, B. 32292, for which I have no notes).

13563. *Vittata Fortunei* x *Amoena* (see also B. 13556)

38 plants in population, 11 whites and whites with stripes. (At this writing I have no recollection as to why the cross appears twice, nor why there were no whites in the other series. From this series were selected: B. 27419 to 27425 inclusive; also 32151 and 32152.

PI 141770 (B. 27422) = Alabaster

PI 141771 (B. 27424) = Stardust

PI 141772 (B. 27425) = Minuet

13564. *Vittata Fortunei* x *Alice*

78 plants in population. "A very fine lot, strong colors and strong blotches - no whites." (B. 32476 to 32486 inclusive were selected for further examination. Apparently only one of these, B. 32481, was given PI No. 141797, but it was not named, and I have no notes.)

13565. *Vittata Fortunei* x *Willy* (see also B. 13603)

38 plants in population. No whites or stripes. There are only 5 plants with flowers as large as those of seed parent. Ordinary pinks, many a "little browned". (Selections made, 32132 to 32136 inclusive; none named).



13566. *Vittata Fortunei* x *indica alba* (*R. mucronatum*)

53 plants in the population, 32 white or white with stripes. "General tendency is to largish flowers, *indica alba* growth to looser like *Vittata Fortunei*." (Selections 27407 to 27414 inclusive. None was chosen for early naming and release; probably two will be sent later, 27407 and 27413, the former almost as early as *Vittata Fortunei* itself, the latter midseason. All are improvements over *Vittata Fortunei* for this area.)

13567. *Vittata Fortunei* x *Omurasaki*

45 plants in population, "six stripes altogether, mostly weak growth, fairly largish flowers." (Apparently only one selection, 27415, for which I have no notes.)

13568. *Vittata Fortunei* x *Gibiyama*

22 plants in population. 10 white with stripes, none particularly fine and all small flowered. (Apparently five were set aside for further observation under numbers B. 27391 to 27395 inclusive. None of these was named later on.)

13569. *Vittata Fortunei* x *Surisumi*

20 plants in population. "A very nice set." Eight whites only, one of which is flaked (B. 27474). Tall as if of *Kaempferi* origin. (Blotch) spot conspicuous in the colored forms. (This one selection was not later reselected for introduction.)

13570. *Vittata Fortunei* x *Asahi*

18 plants in population, of which 12 were white or striped. "Mostly low plants with smallish flowers." (One plant was propagated under B. 27406 but I find no further notes except that B. 27406 should not be propagated further.)

13571. *Vittata Fortunei* x *Miyagimo*

23 plants in population, 7 of which were white or striped; early. Very twiggy and the flower buds crowded. Some evidence of winter killing in flower buds. (One plant saved as B. 27445 which has not yet been named although released as PI 141774. It is a tall plant, white chartreuse blotch, striped purple.)

13572. *Vittata Fortunei* x *Kurai-no-himo*

19 plants in population. "No whites or stripes"  
No further references to this cross.

13574. *Vittata Fortunei* x *Louise* (see also B. 13609)

59 plants in population; 22 of these white or striped. Plants essentially like *Kaempferi* in habit; stripes all within color range of *Kaempferi*. Another population of 21 plants under this same Bell number, with two whites and 4 striped flowers, showed "many dead,\*\*\* (flowers) all brilliant and often blotched."

13575. *Vittata Fortunei* x *Koraini*

11 plants in population, 3 white and/or striped, not vigorous.

13576. *Vittata Fortunei* x *Kyu-Miyagimo*

39 plants in population, 16 whites and striped whites.

A very nice lot, medium-sized flowers, some tendency to form ragged petaloid calyx. (Ten individuals were propagated for examination, B. 27451 to 27460, with a later choice of others, 32269 and 32301 to 323305. From the first series, B. 27460, has been introduced Pixie, PI 141777. PI 141782 was assigned to B. 32202, and PI 141783 to B. 32204, but neither has been introduced. They are now under repropagation and will be introduced probably in 1949.)

13609. *Vittata Fortunei* x *Louise* (see also B. 13574)

36 plants in population. Notes not very full, but it is indicated that many plants had died and many were poor. Two whites and three striped plants. (Apparently no selections were made from this population.)

13622. *Vittata Fortunei* x *Sunstar*

40 plants in population, no whites and stripes, "strong pinks, not much size." Marginal remark, "Poor!" (Apparently no selections were made for further observation.)

13628. *Vittata Fortunei* x *Hinodegiri*

48 plants in population. "Most brilliant colors, really gorgeous, some spots." (Apparently 7 selections were made for further study, 32469 to 32475, none of which bore PI numbers in 1940.)

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It is regretted that no record was kept of the number of seedlings originally put out in the woodland planting. The population figures represent the survivors as of May 1939.



*Hypanthid. longiflorus*  
*semiter. 4/10/49*  
*11/2*

Description of selections made in 1947 of the material hybridized in 1939.

In these descriptions various terms that are of relative value only, e.g. "macronatum habit" means that the seedling grows more like macronatum than any other type. None is as open or as rangy in growth as that species. "Belgian habit" indicates a preponderance of the indicum habit of growth but less in the leaf shape.

None of these have precisely the leaf shape of the "Belgians" and none are precisely like the Chugai ancestors.

The plants are in two rows but are not in numerical sequence. The upper (West) row, starting from the north end, has this sequence:

39508	39507
39512	39503
39511	39506
39513	39525
39510	39505
39533	39526
39534	39509
39517	39518
39502	39528
39516	39527

The second row starting from the north end:

39530	39521
39504	39536
39535	39524
39515	39523
39514	39537
39520	39501
39529	39539
39531	39500
39532	39538
39522	39519

Of these 39519 is the plant most extolled by the visitors from Koters Nursery at Bridgeton, N.J. because it most closely resembles the "Belgian" forcing azaleas.

The descriptions that follow were taken on May 11 by  
Albert Close (color) and B. Y. Morrison (text and color check).

- 39500 - Modified mucronatum habit.  $2\frac{1}{2}$ " flowers, upper lobe  
Rosolane Purple, others Spinel Pink. Watch for special  
tag on branch which is rose striped on pink ground.
- 39501 - Modified mucronatum habit. 3" flowers ruffled margins.  
Between Tyrian Pink and Tyrian Rose.
- 39502 - Modified Belgian. 2" flowers, white, lightly sanded, few  
stripes of Phlox Purple, chartreuse blotch.
- 39503 - Modified Belgian. 2" white, lightly flaked Phlox Purple -  
greenish tube. Watch for V-type sports.
- 39504 - Modified mucronatum. 2" white, chartreuse blotch, very  
rare Magenta stripes.
- 39505 - Mucronatum habit.  $2\frac{1}{2}$ " ruffled white, lightly sanded, few  
stripes (Phlox Purple) to true purple.
- 39506 - Modified mucronatum.  $2\frac{1}{2}$ " flowers. Better than 39510.
- 39507 - Modified mucronatum.  $3-3\frac{1}{2}$ " undulated margins, white,  
chartreuse blotch.
- 39508 - Mucronatum habit. 3" flowers, between Rhodamine Purple  
and Aster Purple. Tyrian Rose blotch. Scarlet tube.
- 39509 - Modified mucronatum - late. Rather tubular, white, yellow  
blotch. Chief value, lateness? (8 stamens)
- 39510 - Mucronatum habit. 3" Mallow Purple. Discard?
- 39511 - Mucronatum habit. 2" flowers, white, pale chartreuse blotch.
- 39512 - Mucronatum foliage, Belgian habit.  $1\frac{1}{2}$ " flowers, white, pale  
yellow blotch. Very floriferous.
- 39513 - Mucronatum habit. 3" flowers, white margined Magenta.  
Throw out all selfs.
- 39514 - Modified mucronatum. 3" flowers, Phlox Purple, Tyrian Rose  
dots in blotch.
- 39515 - Modified Belgian habit. 2" Mallow Purple shades to Rhodamine  
Purple. Some tendency to white center. Stamens far exerted.

- 39516 - Modified mucronatum. 2" flowers, white, heavily flaked and striped Phlox Purple. Throw out selfs.
- 39517 - Mucronatum habit. 2" white shaded all over with chartreuse. Late.
- 39518 - Modified mucronatum. 3" white, almost no blotch. Flat faced. (5 stamens)
- 39519 - Modified Belgian habit. 2½-3 white pale yellow blotch. Florist xxx quality.
- 39520 - Modified Belgian habit. 2" Tyrian Pink, Tyrian Rose dots in yellowish tube. Stamens exerted.
- 39521 - Modified Belgian habit. 2½" white, sanded, flaked, striped. xxx Tyrian Pink.
- 39522 - Modified mucronatum. 2" white, sanded, flaked, striped Rose Color. Throw out Rose colored selfs. Watch for V-type sport.
- 39523 - Modified Belgian. 2½" very brilliant. Rose Color, scarlet tube and throat. Very floriferous.
- 39524 - Modified mucronatum. 2" Liseran Purple. Not much dotting in blotch. Not extra.
- 39525 - Mucronatum habit. 2½" flat-faced, white center, Tyrian Pink. Throw out all selfs.
- 39526 - Modified mucronatum. 2½-3" Tyrian Pink. Late. Very clear color.
- 39527 - Modified mucronatum. 3" Tyrian Pink, Tyrian Rose blotch. Late
- 39528 - Modified mucronatum. 2½-3" white, Viridine yellow blotch (greenish). Late.
- 39529 - Modified mucronatum. 2" heavily, sanded, flaked, few stripes of Nopal Red. Anthers blackish. Throw out red selfs.
- 39530 - Modified mucronatum. 2½-3", fine substance - white sanded and striped Acajon Red. Heavy Viridine Yellow blotch. Throw out pure whites.
- 39531 - Modified mucranthum. 2" heavy substance, white, flaked and striped (not sanded) Eugenia Red. There is a yellow tone through entire flower.



- 39532 - Modified mucronatum. 2" white, flaked and striped Eugenia Red. Showier than 39531. Throw out solid reds.
- 39533 - Belgian habit. 2" white, sanded and striped Tyrian Pink. Chartreuse blotch.
- 39534 - Mucronatum habit. 2" white center, Liseran Purple margins. Discard all selfs.
- 39535 - Very dwarf - flat topped bush - (Modified Belgian). 2" white, heavily sanded, flaked and striped Liseran Purple. Throw out both white and purple selfs.
- 39536 - Modified mucronatum habit. 3" white, flaked and striped Magenta. Throw out purple selfs. Late.
- 39537 - Modified mucronatum.  $2\frac{1}{8}$ " white, flaked, few stripes, Magenta. Somewhat late.
- ~~39538~~ - Modified Belgian habit. 2" white, some stripes Magenta. V-type sports. Not extra.
- 39539 - Modified Belgian. 3" ruffled white, very little sanding and few stripes Liseran Purple.

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N. B. Late in these readings means that not over five flowers were open on plant. Other plants one half to full bloom.

Description of selections made in 1947 of the material hybridized in 1939.

In these descriptions various terms that are of relative value only, e.g. "mucronatum habit" means that the seedling grows more like mucronatum than any other type. None is as open or as rangy in growth as that species. "Belgian habit" indicates a preponderance of the indicum habit of growth but less in the leaf shape.

None of these have precisely the leaf shape of the "Belgians" and none are precisely like the Chugai ancestors.

The plants are in two rows but are not in numerical sequence. The upper (West) row, starting from the north end, has this sequence:

39508	39507
39512	39503
39511	39506
39513	39525
39510	39505
39533	39526
39534	39509
39517	39518
39502	39528
39516	39527

The second row starting from the north end:

39530	39521
39504	39536
39535	39524
39515	39523
39514	39537
39520	39501
39529	39539
39531	39500
39532	39538
39522	39519

Of these 39519 is the plant most extolled by the visitors from Kesters Nursery at Bridgeton, N.J. because it most closely resembles the "Belgian" forcing azaleas.

The descriptions that follow were taken on May 11 by Albert Close (color) and B. Y. Morrison (text and color check).

- 39500 - Modified mucronatum habit.  $2\frac{1}{2}$ " flowers, upper lobe Rosalane Purple, others Spinel Pink. Watch for special tag on branch which is rose striped on pink ground.
- 39501 - Modified mucronatum habit. 3" flowers ruffled margins. Between Tyrian Pink and Tyrian Rose.
- 39502 - Modified Belgian. 2" flowers, white, lightly sanded, few stripes of Phlox Purple, chartreuse blotch.
- 39503 - Modified Belgian. 2" white, lightly flaked Phlox Purple - greenish tube. Watch for V-type sports.
- 39504 - Modified mucronatum. 2" white, chartreuse blotch, very rare Magenta stripes.
- 39505 - Mucronatum habit.  $2\frac{1}{2}$ " ruffled white, lightly sanded, few stripes (Phlox Purple) to true purple.
- 39506 - Modified mucronatum.  $2\frac{1}{2}$ " flowers. Better than 39510.
- 39507 - Modified mucronatum.  $3-3\frac{1}{2}$ " undulated margins, white, chartreuse blotch.
- 39508 - Mucronatum habit. 3" flowers, between Rhodamine Purple and Aster Purple. Tyrian Rose blotch. Scarlet tube.
- 39509 - Modified mucronatum - late. Rather tubular, white, yellow blotch. Chief value, lateness? (8 stamens)
- 39510 - Mucronatum habit. 3" Mallow Purple. Discard?
- 39511 - Mucronatum habit. 2" flowers, white, pale chartreuse blotch.
- 39512 - Mucronatum foliage, Belgian habit.  $1\frac{1}{2}$ " flowers, white, pale yellow blotch. Very floriferous.
- 39513 - Mucronatum habit. 3" flowers, white margined. Magenta. Throw out all selfs.
- 39514 - Modified mucronatum. 3" flowers, Phlox Purple, Tyrian Rose dots in blotch.
- 39515 - Modified Belgian habit. 2" Mallow Purple shades to Rhodamine Purple. Some tendency to white center. Stamens far exerted.



- 39516 - Modified mucronatum. 2" flowers, white, heavily flaked and striped Phlox Purple. Throw out selfs.
- 39517 - Mucronatum habit. 2" white shaded all over with chartreuse. Late.
- 39518 - Modified mucronatum. 3" white, almost no blotch. Flat faced. (5 stamens)
- 39519 - Modified Belgian habit. 2½-3 white pale yellow blotch. Florist quality. xxx
- 39520 - Modified Belgian habit. 2" Tyrian Pink, Tyrian Rose dots in yellowish tube. Stamens exerted.
- 39521 - Modified Belgian habit. 2½" white, sanded, flaked, striped. xxx Tyrian Pink.
- 39522 - Modified mucronatum. 2" white, sanded, flaked, striped Rose Color. Throw out Rose colored selfs. Watch for V-type sport.
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- 39526 - Modified mucronatum. 2½-3" Tyrian Pink. Late. Very clear color.
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- 39529 - Modified mucronatum. 2" heavily, sanded, flaked, few stripes of Nopal Red. Anthers blackish. Throw out red selfs.
- 39530 - Modified mucronatum. 2½-3", fine substance - white sanded and striped Acajon Red. Heavy Viridine Yellow blotch. Throw out pure whites.
- 39531 - Modified mucranthum. 2" heavy substance, white, flaked and striped (not sanded) Eugenia Red. There is a yellow tone through entire flower.

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- 39533 - Belgian habit. 2" white, sanded and striped Tyrian Pink. Chartreuse blotch.
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- 39535 - Very dwarf - flat topped bush - (Modified Belgian). 2" white, heavily sanded, flaked and striped Liseran Purple. Throw out both white and purple selfs.
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- 39537 - Modified mucronatum. 2½" white, flaked, few stripes, Magenta. Somewhat late.
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- 39523 - Modified Belgian. 2 $\frac{1}{2}$ " very brilliant. Rose Color, scarlet tube and throat. Very floriferous.
- 39524 - Modified mucronatum. 2" Liseran Purple. Not much dotting in blotch. Not extra.
- 39525 - Mucronatum habit. 3 $\frac{1}{2}$ " flat-faced, white center, Tyrian Pink. Throw out all selfs.
- 39526 - Modified mucronatum. 2 $\frac{1}{2}$ "-3" Tyrian Pink. Late. Very clear color.
- 39527 - Modified mucronatum. 3" Tyrian Pink, Tyrian Rose blotch. Late
- 39528 - Modified mucronatum. 2 $\frac{1}{2}$ "-3" white, Viridine yellow blotch (greenish). Late.
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## Bell

## Cross

33337	Rhododendron	Indica alba	X	V.F. x Alice			
33338	"	"	X	" x "			
33339	"	"	X	" x "			
33340	"	"	X	Willy x Mrs. Carmichael			
33341	"	"	X	V.F. x Louise			
33342	"	"	X	Splendens x V.F.			
33343	"	"	X	" x "			
33344	"	"	X	Kagetsu			
33345	"	"	X	"			
33346	"	"	X	Gyokurin			
33347	"	"	X	Shinryo-no-tsuki			
33348	"	"	X	Keisetsu			
33349	"	"	X	Chojuraku			
33350	"	"	X	Row-getsu			
33351	"	Kaempferi x Muoronatum	X	Shinryo-no-tsuki.	Seed parent	32448	
33352	"	" x "	X	Keisetsu	"	"	"
33353	"	V.F. x Indica alba	X	Kagetsu (striped)			
33354	"	Kaempferi x Muoronatum	X	Kagetsu	"	"	"
33355	"	Indica lilacina x Willy	X	Mrs. Carmichael x Willy			
33356	"	" x "	X	" x "			
33357	"	" x "	X	" x "			
33358	"	" x "	X	" x "			
33359	"	Indica lilacina x Willy	X	Mrs. Carmichael x Willy			
33360	"	Indica alba x V.F.	X	Kagetsu (striped)	plant has little		natural set.
33361	"	V.F. x Indica alba	X	"			
33362	"	" x "	X	Shinryo-no-tsuki			
33363	"	" x "	X	"			
33364	"	" x Louise	X	Adzuma-no-hana			
33365	"	Indica alba x V.F.	X	Kagetsu (striped)			
33366	"	Indica lilacina x Willy	X	Mrs. Carmichael x Willy			
33367	"	Indica alba	X	Fukuju			

## Bell

## Cross

35200	Rhododendron	Kurai no himo	X	Vittata Fortunei	
35201	"	" " "	X	" "	
35202	"	" " "	X	" "	
35203	"	Osakasuki	X	Kagaribi	
35204	"	"	X	"	
35205	"	"	X	"	
35206	"	Kumogari	X	"	
35207	"	Carminata Splendens	X	Kagaribi	
35208	"	Osakasuki	X	Flame	
35209	"	"	X	"	
35210	"	Malva tica	X	Satsuki	
35211	"	"	X	"	
35212	"	"	X	Macrantha deep salmon	
35213	"	"	X	" " "	141898
35214	"	"	X	" " "	
35215	"	Osakasuki	X	Kagaribi	
35216	"	"	X	"	
35217	"	"	X	"	141899 Picador
35218	"	Malvatica	X	Macrantha deep salmon	
35219	"	"	X	" " "	141900 Anchorite
35220	"	"	X	" " "	141901
35221	"	"	X	" " "	
35222	"	"	X	" " "	
35223	"	"	X	" " "	
35224	"	"	X	" " "	
35225	"	Indica alba	X	Macrantha orange	141902
35226	"	George Frano	X	Yasshojo	
35227	"	Vittata Fortunei	X	Warai gishi	
35229	"	Hinodigiri	X	Late salmon	141903
35230	"	"	X	" "	
35231	"	Poukhanense	X	Model du Marc	
35232	"	"	X	" " "	
35233	"	"	X	" " "	
35234	"	"	X	" " "	
35235	"	"	X	" " "	
35236	"	"	X	" " "	
35237	"	"	X	" " "	
35238	"	Yeung shann hung	X	Vittata Fortunei	
35239	"	" " "	X	" "	
35240	"	" " "	X	" "	
35241	"	Poukhanense	X	Hazel Dawson	
35242	"	"	X	" " "	
35243	"	"	X	" " "	
35244	"	"	X	" " "	
35245	"	"	X	" " "	
35246	"	"	X	" " "	
35247	"	"	X	" " "	
35248	"	"	X	" " "	
35249	"	"	X	" " "	
35250	"	"	X	" " "	
35250A	"	"	X	" " "	
35251	"	Indica alba	X	Maxwelli	
35252	"	" " "	X	" "	
35253	"	" " "	X	" "	
35254	"	" " "	X	" "	
35255	"	" " "	X	" "	141904

## Bell

## Cross

35312	Rhododendron	Vittata Fortunei	X	Kaempferi
35313	"	"	X	Louise
35314	"	"	X	"
35315	"	"	X	Ho-Oden
35316	"	"	X	Asobi
35317	"	"	X	Marta
35318	"	"	X	"
35319	"	Mrs. Carmichael	X	Alice
35320	"	"	X	"
35321	"	Kaempferi(late)	X	Osakazuki
35322	"	"	X	"
35323	"	"	X	"
35324	"	"	X	"
35325	"	"	X	"
35326	"	Macrantha orange	X	Azuma shibori
35327	"	"	X	"
35328	"	"	X	"
35329	"	"	X	"
35330	"	"	X	"
35331	"	"	X	"
35332	"	"	X	"
35333	"	"	X	"
35334	"	Willy	X	Yaeshojo
35335	"	Hinodogiri	X	Willy
35336	"	sp. 81661		
35337	"	sp. 81661		
35338	"	sp. 81661		
35339	"	sp. 81661		
35340	"	Macrantha orange	X	Momo sono
35341	"	"	X	"
35342	"	"	X	"
35343	"	"	X	"
35344	"	"	X	"
35345	"	"	X	"
35346	"	Vittata Fortunei	X	Miyagimo
35347	"	"	X	"
35348	"	"	X	"
35349	"	Splendens	X	Vittata Fortunei
35350	"	Vittata Fortunei	X	H.E.A. #34
35351	"	Yeung shann hung	X	Indica alba
35352	"	"	X	"
35353	"	"	X	"
35354	"	"	X	"
35355	"	"	X	"
35356	"	"	X	"
35357	"	"	X	"
35358	"	"	X	"
35359	"	Splendens	X	Vittata Fortunei
35360	"	"	X	"
35373	"	"	X	"
35374	"	Willy	X	Momo sono
35375	"	"	X	"
35376	"	Vittata Fortunei	X	H.E.A. #34
35377	"	"	X	"
35399	"	Kaempferi(late)	X	Osakazuki
35400	"	Macrantha deep salmon	X	Hazel Dawson

141911



## Bell

## Cross

35256	Rhododendron	Indica alba	X Maxwellii	141905
35257	"	Vittata Fortunei	X Osakazuki	
35258	"	"	X "	
35259	"	"	X "	
35260	"	"	X "	
35261	"	Indica lilacina	X Macrantha orange	
35262	"	"	X "	
35263	"	"	X "	
35264	"	"	X "	
35265	"	"	X "	
35266	"	Macrantha deep salmon	X Hazel Dawson	141906
35267	"	"	X "	141907
35268	"	"	X "	
35269	"	"	X "	
35270	"	"	X "	
35271	"	"	X "	
35272	"	"	X "	
35273	"	"	X "	141908-32682
35274	"	"	X "	141909
35275	"	"	X "	141910
35276	"	"	X Hatsuushimo	
35277	"	"	X "	
35278	"	orange	X Momiji gasane	
35279	"	Akebono ryukyu	X Alice	
35280	"	"	X "	
35281	"	"	X "	
35282	"	Kaempferi	X Azuma kagami	
35283	"	Malvatica	X Yosokura	
35284	"	"	X "	
35285	"	"	X "	
35286	"	Vittata Fortunei	X Louise	
35287	"	Kaempferi	X Maxwellii	
35288	"	"	X "	
35289	"	Fielders white	X Kaempferi	
35290	"	"	X "	
35291	"	"	X "	
35292	"	"	X "	
35293	"	"	X "	
35294	"	"	X "	
35295	"	"	X "	
35296	"	Malvatica	X Satsuki	
35297	"	"	X "	
35298	"	"	X "	
35299	"	"	X "	
35300	"	"	X "	
35301	"	Macrantha orange	X Mikawa murasaki	
35302	"	Indica lilacina	X Willy	
35303	"	Vittata Fortunei	X "	
35304	"	"	X "	
35305	"	"	X "	
35306	"	"	X "	
35307	"	"	X Gibiyama	
35308	"	"	X Kaempferi	
35309	"	"	X "	
35310	"	"	X "	
35311	"	"	X "	

Record of selections made in 1948 - Little garden at the National Arboretum, April 30 - May 4, 1948. If additional selections are made of later flowering clones, they will be appended as a separate list.

Row 1 is the row on the east side of the garden plot.

All numbers begin at the north end of row.

V-sport, means always, a sport with Vervaeana type flowers.

Stripe is used to indicate a stripe from margin to or nearly to center of flower.

Flake is used to indicate a strip that does not reach either center or margin.

Sanded indicates stippling of color, either as dots or very short lines.

Blotch refers always to the area on the uppermost lobe, extending at times to the upper three lobes, often colored more deeply than the flower itself. It is made up of irregular dots which may or may not become confluent.

Cross 33367

- Row 1 No. 1 Fine white with few Phlox Purple stripes. One short branch marked for V-sport.  
No. 2 Much like No. 1 but with lower growth habit.  
No. 3 Weak plant? fine white, chartreuse throat. One special shoot tagged, flesh pink, rose blotch.  
No. 4 Like No. 1 but Neva Green blotch, Phlox Purple stripes.

- Row 2 No. 5 White with Pale Hortense Violet strips. Two thin shoots pale (pink) violet, Light Amparo Purple margin.  
No. 6 White, green yellow blotch, sanded rather than flaked with Phlox Purple, ruffled margins.  
No. 7 White, ruffled margins, Pale Amparo Violet stripes, sports solid Light Phlox Purple, some tendency to central white rays as in some Chugai hybrids.

- xxx No. 8 Superb macronatum type with very rare Light Amparo Purple flakes.

Cross 33366

- Row 3 No. 9 Low spreading, white sanded and striped with Phlox Purple. Sport Pale Amparo Purple, with white edge and crimson blotch.

- No. 10 Almost same as No. 9 but more upright in growth.

- Row 4 No. 11 White, wide range of flaking some sanding in some flowers with Light Mallow Pink. Some tendency to V-type sporting.

- No. 12 White, few Pale Amaranth Pink flakes, one sport with crimson blotch, Chugai type leaves (modified macrantha).

- No. 13 White, great variation in degree of striping; some flowers show sanding, Phlox Purple.

- No. 14 Low habit. Light Mallow Purple, Tyrian Rose blotch, orange tube. Many flowers with six lobes.

- Row 5 No. 15 Nearly whole plant V-type sport. Tag placed on shoot that showed Phlox Purple stripes.  
 No. 16 Most of plant is pale V-type sport with Tyrian Rose blotch, a few pure whites. Throw away all purple selfs.  
 No. 17 White with green blotch, very few lavender stripes.  
 No. 18 Fine white, few stripes, much sanding, Phlox Purple. Throw out Purple selfs.  
 No. 19 Fine white, chartreuse throat, sinuate margins, very few Phlox Purple stripes.
- Row 6 No. 20 White, very fine form, green blotch, very few Light Phlox Purple stripes.  
 No. 21 White, with little sanding of Pale Phlox Purple, one flower Phlox Purple with white star like Chugai types.  
 No. 22 Larger than No. 1, not much green blotch, very few Phlox Purple stripes.  
 No. 23 Large white, green blotch, few True Purple stripes.
- Row 7 No. 24 Whole plant, white center, Light Phlox Purple edges.  
 No. 25 White, striped Tyrian Pink, one shoot V-Type sport.  
 No. 26 White, striped Phlox Purple; one special shoot V-type.  
 No. 27 Frilled White, chartreuse blotch, very few Phlox Purple flakes.

Cross 33351

Row 8

- xxx No. 28 - 3" frilled, Amaranth Pink, Tyrian Rose blotch.  
 xxx No. 29 - 3" frilled, Rose Color, Tyrian Rose blotch, yellow in throat.  
 xxx No. 30 - 3" frilled white, chartreuse blotch, reflexed face.  
 xxx No. 31 - 2½" frilled, Rose Color, more vigorous (?) than No. 29.  
 No. 32 - 3" frilled, Deep Rose Pink, Rose blotch.  
 No. 33 Very dwarf compact white, yellowish blotch, some petaloidy in stamens.  
 No. 34 - 3" frilled, Phlox Pink, fades a little.  
 No. 35 - 3" frilled, Deep Rose Pink, Rose blotch.  
 No. 36 - 3" frilled, Rose Color, Rose Red blotch, yellow undertone.  
 No. 37 - 3" frilled, white, Chartreuse blotch, spreading habit.

Cross 33342

- Row 9 No. 38 - 2½" Rhodamine Purple, scarlet tube.

Cross 33344

- Row 10 No. 39 - 3" frilled, Between Phlox Purple and Mallow Purple, scarlet tube.  
 xxx No. 40 - 3" frilled, Rose Pink, Rose Red blotch, brilliant.  
 No. 41 - 3" Deep Rose Pink (yellowish) flushed Mallow Purple. Very brilliant because of yellow undertone.



Row 10 No. 42 - 2½" Mallow Purple, Tyrian Rose blotch, brilliant.

Row 11 No. 42A - 3" heavy texture white, Chartreuse blotch, fine Mallow Purple flakes.

No. 43 - 3" very good white, Mallow Purple flakes, yellow blotch.

No. 44 - Good low white, often six lobes, green blotch.

**Cross 33366**

Watch rest of row -- breeders only

Row 12 No. 45 - 1½" ruffled, very floriferous, Tyrian Pink, Tyrian Rose blotch, scarlet tube.

No. 46 - Dark brown red (orange) Purple blotch, low habit (?), burns a little. Pomegranate Purple, Bordeaux blotch.

No. 47 - 2" Tyrian Pink, heavy Tyrian Rose blotch. Showy.

Row 13 No. 48 - 3" Eugenia Red, Amaranth Purple blotch, very heavy, sunburns a little.

No. 49 - 3" Pompeian Red (brownish) heavy Carmine blotch.

No. 50 - 3" Rosolane Purple, Spinel Red throat, Carmine blotch, reverse and stamens scarlet.

**Cross 33361**

No. 51 - One white branch, 3" white, Liseran Purple edges, balance of plant white with yellow throat and few Liseran Purple stripes.

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**Cross 33352**

Row 14 No. 52 - 2½-3" Spinel Pink, Spinel Red blotch, frilled.

No. 53 - 2½-3" Between Pale Amaranth Pink and Amaranth Pink, few but very clear Tyrian Rose dots in blotch.

No. 54 - 3-3½" Pale Mallow Pink, clear Tyrian Rose dots in blotch which is showy.

xxx No. 55 - 3-3½" greenhouse quality, Amaranth Pink, Tyrian Rose blotch.

No. 56 - 3-3½" frilled, Rhodamine Purple, Tyrian Rose blotch, scarlet tube.

Row 15 No. 57 - Perhaps not for introduction - carries as pure salmon, many flowers with six to seven lobes - frilled 2-2¾". Spinel Pink, Rose in throat to yellow at tube.

**Cross 33354 -- All very round flowers**

xxx No. 58 - 3" white, few dots rather than stripes, Rose Purple, Throw out all selfs.

xxx No. 59 - 3-3½" white, yellow blotch, few stripes of Rosolane Purple.

Cross 33354 (Continued)

Row 15 (Continued)

- No. 60.- Much like No. 59 but more sanded.  
xxx No. 61 - 3-3 $\frac{1}{2}$ " frilled, white sanded Rosclane Purple, blotch green.  
No. 62 - 2" very floriferous, white sanded and striped Rosclane Purple.  
No. 63 - 2-2 $\frac{1}{2}$ " frilled, white, sanded and striped Rosclane Purple.  
No. 64 - 2-2 $\frac{1}{2}$ " frilled, propagate only from tagged branch which is V-type sport.

Cross 33360

- No. 65 - Propagate 10 only - white, green blotch, some tendency to doubling.  
No. 66 - 2 - 2 $\frac{1}{2}$ " Rose Purple, Rose blotch.  
No. 67 - Propagate 10 only - white, chartreuse blotch, some tendency to doubling.  
xxx No. 68 - 2" white center, Liseran Purple edge. Throw out all self-color sports.

Cross 33367

- Row 16 No. 69 - 2" Rose Red, some doubling, Tyrian Rose spots frilled.

Row 17

- xxxxx No. 70 - 5" white, some frilling on margins.  
No. 71 - 3" white, frilled, chartreuse throat, dwarf habit (?).

Cross 33368

- No. 72 - 2" white with Eugenia Red stripes and flakes, green blotch, throw away red selfs.  
No. 73 - 2" white, Eugenia Red stripes and V-type sport.  
No. 74 - 2 $\frac{1}{2}$ " white, a little brighter than Eugenia Red, stripes and flakes; watch for V-type sports.

- Row 18 No. 75 - 2" white, yellow blotch, striped and heavily sanded with Eugenia Red.

xx No. 76 - 2" white, so heavily stained with chartreuse that it carries as a creamy yellow, few red flakes.

xxx No. 77 - 2" white, heavily striped, sanded and sectioned with Eugenia Red. Throw away red selfs.

xxx No. 78 - 2-2 $\frac{1}{2}$ " white center, mallow pink edges, throw away pink selfs.

Row 19 No. 79\* - 3" frilled white, chartreuse blotch.

No. 80 - 2 $\frac{1}{2}$ " white center, Mallow Purple edge. Throw away purple selfs.

Cross 33348

No. 81 - One branch only - 3" frilled, white center, Pale Phlox Purple margin, red blotch.

No. 82 - 3" frilled white, chartreuse throat, very rare flower with Mallow Purple stripe.

\*xxx

Cross 33365

Row 19 (Continued)

No. 83 - 5" frilled white, chartreuse blotch, few stripes of Spinel Pink.

Row 20 No. 84 - 3½" white, not much chartreuse.

Cross 33349

No. 85 - Ho-oden type h/h 2½" white Rosolane Purple stripes, some V-type sport.

Cross 33356

No. 86 - dwarf, compact Aster Purple, back of tube, scarlet

Row 21

XXX

No. 87 - Very compact bush, very floriferous, florist quality, 2½" frilled white, chartreuse blotch.

No. 88 - dwarf, very floriferous, 3½ - 4" white, yellow blotch.

Cross 33364

No. 89 - 3" white, Spinel Red stripes and sanding.

No. 90 - 3" white, Old Rose stripe and sanding (Old Rose of Ridgway is a scarlet red) dwarf.

XXXXX

No. 91 - 3" whole plant V-type.

No. 92 - 3" white, light Scarlet flakes.

XXXXX

No. 93 - 4-2½", whole plant V-type, paler than No. 91.

No. 94 - 2½" white sanded and striped Jasper Red; Note one shoot tagged for V-type.

No. 95 - 2½" white, green blotch, striped Eugenia Red.

Row 22

XXX

No. 96 - 2" white, green blotch, Eugenia Red stripes

No. 97 - 2½" white, yellow blotch, Old Rose stripe and sandings.

No. 98 - 2½" white, Eugenia Red sanding and stripes

No. 99 - 2½" white, broad chartreuse blotch, almost red Eugenia Red stripings.

No. 100 - 2½" creamy white, very rare red flakes.

XXX

No. 101 - 2½" white, heavily striped and sanded, Eugenia to Acajon Red - V-type sport tagged which shows a pink ground color.

No. 102 - 2½" white, yellow blotch, few Eugenia Red stripes.

No. 103 - late (barely open May 4) white, 2-3/4" flat faced, green blotch, white, striped Eugenia Red.

No. 104 - 2" white, starry, heavily striped Eugenia Red

Cross 33355

No. 105 - 1½" very floriferous, Amaranth Purple, tube Rose Red.

No. 106 - 2" very floriferous, same as #105 but more red on tube.



- No. 107 - 2" Pomgranate Purple to Bordeaux (brown red)  
No. 108 - 2" Tyrian Rose to Rose Red, brilliant and floriferous.  
No. 109 - 2" Between Rhodamine and Aster Purple, tube Rose Red.  
No. 110 - 2" Tyrian Rose to Rose Red, very floriferous.  
xxx No. 111 - 2" frilled Pomgranate Red to Bordeaux

Record of selections made, in 1948 - Little garden at the National Arboretum, April 30 - May 4, 1948. If additional selections are made of later flowering clones, they will be appended as a separate list.

Row 1 is the row on the east side of the garden plot.

All numbers begin at the north end of row.

V-sport, means always, a sport with Vervasneana type flowers.

Stripe is used to indicate a stripe from margin to or nearly to center of flower.

Flake is used to indicate a strip that does not reach either center or margin.

Sanded indicates stippling of color, either as dots or very short lines.

Blotch refers always to the area on the uppermost lobe, extending at times to the upper three lobes, often colored more deeply than the flower itself. It is made up of irregular dots which may or may not become confluent.

Cross 33367

40150

Row 1 No. 1 Fine white with few Phlox Purple stripes. One short branch marked for V-sport.

40151 - No. 2 Much like No. 1 but with lower growth habit.

40152 - No. 3 Weak plant? fine white, chartreuse throat. One special shoot tagged, flesh pink, rose blotch.

40153 - No. 4 Like No. 1 but Neva Green blotch, Phlox Purple stripes.

40154 Row 2 No. 5 White with Pale Hortense Violet stripes. Two thin shoots. pale (pink) violet, Light Amparo Purple margin.

40155 - No. 6 White, green yellow blotch, sanded rather than flaked with Phlox Purple, ruffled margins.

40156 - No. 7 White, ruffled margins, Pale Amparo Violet stripes, sports solid Light Phlox Purple, some tendency to central white rays as in some Chugai hybrids.

40157 - xxx No. 8 Superb macronatum type with very rare Light Amparo Purple flakes.

Cross 33366

40158 Row 3 No. 9 Low spreading, white sanded and striped with Phlox Purple. Sport Pale Amparo Purple, with white edge and crimson blotch.

40159 No. 10 Almost same as No. 9 but more upright in growth.

40160 Row 4 No. 11 White, wide range of flaking some sanding in some flowers with Light Mallow Pink. Some tendency to V-type sporting.

40161 No. 12 White, few Pale Amaranth Pink flakes, one sport with crimson blotch, Chugai type leaves (modified macrantha).

40162 No. 13 White, great variation in degree of striping; some flowers show sanding, Phlox Purple.

40163 - No. 14 Low habit. Light Mallow Purple, Tyrian Rose blotch, orange tube. Many flowers with six lobes.

- 40164 Row 5 No. 15 Nearly whole plant V-type sport. <sup>alt</sup> Tag placed on shoot that showed Phlox Purple stripes.
- 40165 No. 16 Most of plant is pale V-type sport with Tyrian Rose blotch, a few pure whites. Throw away all purple selfs.
- 40166 - No. 17 White with green blotch, very few lavender stripes.
- 40167 - No. 18 Fine white, few stripes, much sanding, Phlox Purple. Throw out Purple selfs.
- 40168 - No. 19 Fine white, chartreuse throat, sinuate margins, very few Phlox Purple stripes.

- 40169 Row 6 No. 20 White, very fine form, green blotch, very few Light Phlox Purple stripes.
- 40170 No. 21 White, with little sanding of Pale Phlox Purple, one flower Phlox Purple with white star like Chugai types.
- 40171 No. 22 Larger than No. 1, not much green blotch, very few Phlox Purple stripes.
- 40172 No. 23 Large white, green blotch, few True Purple stripes.

- 40173 Row 7 No. 24 Whole plant, white center, Light Phlox Purple edges.
- 40174 No. 25 White, striped Tyrian Pink, one shoot V-Type sport.
- 40175 No. 26 White, striped Phlox Purple; one special shoot V-type.
- 40176 No. 27 Frilled White, chartreuse blotch, very few Phlox Purple flakes.

Cross 33351

Row 8

- 40177 xxx No. 28 - 3" frilled, Amaranth Pink, Tyrian Rose blotch.
- 40178 xxx No. 29 - 3" frilled, Rose Color, Tyrian Rose blotch, yellow in throat.
- 40179 xxx No. 30 - 3" frilled white, chartreuse blotch, reflexed face.
- 40180 xxx No. 31 - 2 $\frac{1}{2}$ " frilled, Rose Color, more vigorous (?) than No. 29.
- 40181 No. 32 - 3" frilled, Deep Rose Pink, Rose blotch.
- 40182 No. 33 Very dwarf compact white, yellowish blotch, some petaloidy in stamens.
- 40183 No. 34 - 3" frilled, Phlox Pink, fades a little.
- 40184 No. 35 - 3" frilled, Deep Rose Pink, Rose blotch.
- 40185 No. 36 - 3" frilled, Rose Color, Rose Red blotch, yellow undertone.
- 40186 No. 37 - 3" frilled, white, Chartreuse blotch, spreading habit.

Cross 33342

- 40187 Row 9 No. 38 - 2 $\frac{1}{2}$ " Rhodamine Purple, scarlet tube.

Cross 33344

- 40188 Row 9 No. 39 - 3" frilled, Between Phlox Purple and Mallow Purple, scarlet tube.
- 40189 xxx No. 40 - 3" frilled, Rose Pink, Rose Red blotch, brilliant.
- 40190 No. 41 - 3" Deep Rose Pink (yellowish) flushed Mallow Purple. Very brilliant because of yellow undertone.



40191 Row 10 No. 42 - 2½" Mallow Purple, Tyrian Rose blotch, brilliant.

40192 Row 11 No. 42A - 3" heavy texture white, Chartreuse blotch, fine Mallow Purple flakes.

40193 No. 43 - 3" very good white, Mallow Purple flakes, yellow blotch.

40194 No. 44 - Good low white, often six lobes, green blotch.

Cross 33366

Watch rest of row -- breeders only

40195 Row 12 No. 45 - 1½" ruffled, very floriferous, Tyrian Pink, Tyrian Rose blotch, scarlet tube.

40196 No. 46 - Dark brown red (orange) Purple blotch, low habit (?), burns a little. Pomegranate Purple, Bordeaux blotch.

40197 No. 47 - 2" Tyrian Pink, heavy Tyrian Rose blotch, Showy.

40198 Row 13 No. 48 - 3" Eugenia Red, Amaranth Purple blotch, very heavy, sunburns a little.

40199 No. 49 - 3" Pompeian Red (brownish) heavy Carmine blotch.

40200 No. 50 - 3" Rosolane Purple, Spinel Red throat, Carmine blotch, reverse and stamens scarlet.

Cross 33361

40201 No. 51 - One white branch, 3" white, Liseran Purple edges, balance of plant white with yellow throat and few Liseran Purple stripes.

Cross 33352

40202 Row 14 No. 52 - 2½-3" Spinel Pink, Spinel Red blotch, frilled.

40203 No. 53 - 2½-3" Between Pale Amaranth Pink and Amaranth Pink, few but very clear Tyrian Rose dots in blotch.

40204 No. 54 - 3-3½" Pale Mallow Pink, clear Tyrian Rose dots in blotch which is showy.

40205 ~~xxx~~ No. 55 - 3-3½" greenhouse quality, Amaranth Pink, Tyrian Rose blotch.

40206 No. 56 - 3-3½" frilled, Rhodamine Purple, Tyrian Rose blotch, scarlet tube.

40207 Row 15 No. 57 - Perhaps not for introduction - carries as pure salmon, many flowers with six to seven lobes - frilled 2-2¾". Spinel Pink, Rose in throat to yellow at tube.

Cross 33354 -- All very round flowers

40208 ~~xxx~~ No. 58 - 3" white, few dots rather than stripes, Rose Purple, Throw out all selfs.

40209 ~~xxx~~ No. 59 - 3-3½" white, yellow blotch, few stripes of Rosolane Purple.

Cross 33354 (Continued)

Row 15 (Continued)

- 40210 No. 60.- Much like No. 59 but more sanded.  
 40211. xxx No. 61 - 3-3 $\frac{1}{2}$ " frilled, white sanded Rosolane Purple, blotch green.  
 40212- No. 62 - 2" very floriferous, white sanded and striped Rosolane Purple.  
 40213- No. 63 - 2-2 $\frac{1}{2}$ " frilled, white, sanded and striped Rosolane Purple.  
 40214- No. 64 - 2-2 $\frac{1}{2}$ " frilled, propagate only from tagged branch which is V-type sport.

Cross 33360

- 40215 - No. 65 - Propagate 10 only - white, green blotch, some tendency to doubling.  
 40216 - No. 66 - 2 - 2 $\frac{1}{2}$ " Rose Purple, Rose blotch.  
 40217 - No. 67 - Propagate 10 only - white, chartreuse blotch, some tendency to doubling.  
 40218 xxx - No. 68 - 2" white center, Liseran Purple edge. Throw out all self-color sports.

Cross 33357

- 40219 - Row 16 No. 69 - 2" Rose Red, some doubling, Tyrian Rose spots, frilled.

Row 17

- 40220 - ~~xxxx~~ No. 70 - 5" white, some frilling on margins.  
 40221 - No. 71 - 3" white, frilled, chartreuse throat, dwarf habit (?).

Cross 33358

- 40222 - No. 72 - 2" white with Eugenia Red stripes and flakes, green blotch, throw away red selfs.  
 40223 - No. 73 - 2" white, Eugenia Red stripes and V-type sport.  
 40224 - No. 74 - 2 $\frac{1}{2}$ " white, a little brighter than Eugenia Red, stripes and flakes; watch for V-type sports.  
 40225 Row 18 No. 75 - 2" white, yellow blotch, striped and heavily sanded with Eugenia Red.  
 40226-xx No. 76 - 2" white, so heavily stained with chartreuse that it carries as a creamy yellow, few red flakes.  
 40227 xxx No. 77 - 2" white, heavily striped, sanded and sectioned with Eugenia Red. Throw away red selfs.  
 40228 xxx No. 78 - 2-2 $\frac{1}{2}$ " white center, mallow pink edges, throw away pink selfs.  
 40229-Row 19 No. 79 - 3" frilled white, chartreuse blotch.  
 40230 - No. 80 - 2 $\frac{1}{2}$ " white center, Mallow Purple edge. Throw away purple selfs.

Cross 33348

- 40231 No. 81 - One branch only - 3" frilled, white center, Pale Phlox Purple margin, red blotch.  
 40232 No. 82 - 3" frilled white, chartreuse throat, very rare flower with Mallow Purple stripes.

\*xxx

Cross 33365

Row 19 (Continued)

40238 No. 83 - 3" frilled white, chartreuse blotch, few stripes of Spinel Pink.

40234 Row 20 No. 84 - 3½" white, not much chartreuse.

Cross 33349

40235 No. 85 - Ho-oden type h/h 2½" white Rosolane Purple stripes, some V-type sport.

Cross 33356

40236 No. 86 - dwarf, compact Aster Purple, back of tube, scarlet

Row 21

40237 xxx No. 87 - Very compact bush, very floriferous, florist quality, 2½" frilled white, chartreuse blotch.

40238 No. 88 - dwarf, very floriferous, 3½ - 4" white, yellow blotch.

Cross 33364

40239 No. 89 - 3" white, Spinel Red stripes and sanding.

40240 No. 90 - 3" white, Old Rose stripe and sanding (Old Rose of Ridgway is a scarlet red) dwarf.

40241 xxxxx No. 91 - 3" whole plant V-type.

40242 No. 92 - 3" white, light Scarlet flakes.

40243 xxxxx No. 93 - 2-2½" whole plant V-type, paler than No. 91.

40244 No. 94 - 2½" white sanded and striped Jasper Red; Note one shoot tagged for V-type.

40245 No. 95 - 2½" white, green blotch, striped Eugenia Red.

40246 Row 22 No. 96 - 2" white, green blotch, Eugenia Red stripes

40247 xxx No. 97 - 2½" white, yellow blotch, Old Rose stripe and sandings.

40248 No. 98 - 2½" white, Eugenia Red sanding and stripes

40249 No. 99 - 2½" white, broad chartreuse blotch, almost red Eugenia Red stripings.

40250 No. 100 - 2½" creamy white, very rare red flakes.

40251 xxx No. 101 - 2½" white, heavily striped and sanded, Eugenia to Acajon Red - V-type sport tagged which shows a pink ground color.

40252 - No. 102 - 2½" white, yellow blotch, few Eugenia Red stripes.

40253 - No. 103 - late (barely open May 4) white, 2-3/4" flat faced, green blotch, white, striped Eugenia Red.

40254 No. 104 - 2" white, starry, heavily striped Eugenia Red

Cross 33355

40255 - No. 105 - 1½" very floriferous, Amaranth Purple, tube Rose Red.

40256 - No. 106 - 2" very floriferous, same as #105 but more red on tube.



40257 — No. 107 - 2" Pomgranate Purple to Bordeaux (brown red)  
40258 No. 108 - 2" Tyrian Rose to Rose Red, brilliant and floriferous.  
40259 No. 109 - 2" Between Rhodamine and Aster Purple, tube Rose Red.  
40260 No. 110 - 2" Tyrian Rose to Rose Red, very floriferous.  
40261 ~~xxx~~ No. 111 - 2" frilled Pomgranate Red to Bordeaux

40261

Record of selections made May 18, described May 20.

Row 1

Cross 33367

- 40302 A-1 2" ruffled white with few flakes of Phlox Purple, not much chartreuse. Modified mucronatum habit. Late.

Row 4

Cross 33366

- 40303 A-12 2½" white very heavily sanded, few stripes of Mallow Purple - whole plant - Modified Belgian habit. Late.

Row 5

Cross 33356

- 40304 A-19 2½" V-type sport whole plant - white margins, Pale Rose Purple ground, heavy blotch Rosolane Purple dots, occasional stripe of Liseran Purple. Modified mucronatum. Late.

Row 7

Cross 33356

- 40305 A-24 Not in flower May 20 - One branch only - light center? Early flowering (i.e. Apr 30-May 4). Modified mucronatum.

Row 10

Cross 33344

- 40306 A-42 3½" white, faint chartreuse blotch. Late. Modified mucronatum, low and spreading.
- 40307 A-43 2" white, lightly sanded and flaked, few stripes - Magenta - Throw out all Magenta selfs. Watch for V-type sports - of which there are many. Modified mucronatum type. Late.

Row 15

Cross 33347

- 40308 A-59 2" extremely variable, ruffled white - lightly and irregularly flaked, few stripes - Magenta - The self colored flowers are closer to Rosolane Purple and usually have a white star in throat. Mucronatum habit.

Row 18

Cross 33364

- 40309 A-77 3" ruffled white, chartreuse blotch, with few Nopal Red stripes and flakes. Modified mucronatum habit.

Cross 33362

- 40310 B-77 2-2½" ruffled, Tyrian Pink (really more ), Tyrian Rose blotch, watch for white centers. Mucronatum habit.

N.B. This cross gave good clear pink-white centers variable in some plants.

Row

Cross 33365

- 40311 A-83 2" white chartreuse blotch, brown anthers, heavy substance. Modified mucronatum habit.
- B-83 One week earlier otherwise almost identical.

40312

Record of selections made May 18, described May 20.

Row 1

Cross 33367

A-1 2" ruffled white with few flakes of Phlox Purple, not much chartreuse. Modified mucronatum habit. Late.

Row 4

Cross 33366

A-12 2 $\frac{1}{2}$ " white very heavily sanded, few stripes of Mallow Purple - whole plant - Modified Belgian habit. Late.

Row 5

Cross 33356

A-19 2 $\frac{1}{2}$ " V-type sport whole plant - white margins, Pale Rose Purple ground, heavy blotch Rosolane Purple dots, occasional stripe of Liseran Purple. Modified mucronatum. Late.

Row 7

Cross 33356

A-24 Not in flower May 20 - One branch only - light center? Early flowering (i.e. Apr 30-May 4). Modified mucronatum.

Row 10

Cross 33364

A-42 3 $\frac{1}{2}$ " white, faint chartreuse blotch. Late. Modified mucronatum, low and spreading.

A-43 2" white, lightly sanded and flaked, few stripes - Magenta - Throw out all Magenta selfs. Watch for V-type sports - of which there are many. Modified mucronatum type. Late.

Row 15

Cross 33347

A-59 2" extremely variable, ruffled white - lightly and irregularly flaked, few stripes - Magenta - The self colored flowers are closer to Rosolane Purple and usually have a white star in throat. Mucronatum habit.

Row 18

Cross 33364

A-77 3" ruffled white, chartreuse blotch, with few Nopal Red stripes and flakes. Modified mucronatum habit.

Cross 33362

B-77 2-2 $\frac{1}{2}$ " ruffled, Tyrian Pink (really more ), Tyrian Rose blotch, watch for white centers. Mucronatum habit.

N.B. This cross gave good clear pink-white centers variable in some plants.

Row

Cross 33365

A-83 2" white chartreuse blotch, brown anthers, heavy substance. Modified mucronatum habit.

B-83 One week earlier otherwise almost identical.



Record of selections made May 18, described May 20. 1948

Row 1

Cross 33367

A-1 2" ruffled white with few flakes of Phlox Purple, not much chartreuse. Modified mucronatum habit. Late.

Row 4

Cross 33366

A-12 2 $\frac{1}{2}$ " white very heavily sanded, few stripes of Mallow Purple - whole plant - Modified Belgian habit. Late.

Row 5

Cross 33356

A-19 2 $\frac{1}{2}$ " V-type sport whole plant - white margins, Pale Rose Purple ground, heavy blotch Rosolane Purple dots, occasional stripe of Liseran Purple. Modified mucronatum. Late.

Row 7

Cross 33356

A-24 Not in flower May 20 - One branch only - light center? Early flowering (i.e. Apr 30-May 4). Modified mucronatum.

Row 10

Cross 33344

*46306*  
~~B A-42~~ 3 $\frac{1}{2}$ " white, faint chartreuse blotch. Late. Modified mucronatum, low and spreading.

A-43 2" white, lightly sanded and flaked, few stripes - Magenta - Throw out all Magenta selfs. Watch for V-type sports - of which there are many. Modified mucronatum type. Late.

Row 15

Cross 33347

A-59 2" extremely variable, ruffled white - lightly and irregularly flaked, few stripes - Magenta - The self colored flowers are closer to Rosolane Purple and usually have a white star in throat. Mucronatum habit.

Row 18

Cross 33364

A-77 3" ruffled white, chartreuse blotch, with few Nopal Red stripes and flakes. Modified mucronatum habit.

Cross 33362

B-77 2-2 $\frac{1}{2}$ " ruffled, Tyrian Pink (really more ), Tyrian Rose blotch, watch for white centers. Mucronatum habit.

N.B. This cross gave good clear pink-white centers variable in some plants.

Row

Cross 33365

A-83 2" white chartreuse blotch, brown anthers, heavy substance. Modified mucronatum habit.

B-83 One week earlier otherwise almost identical.

Record of selections made May 18, described  
May 20.

orig - 3 culms

Row 1  
cums 33367

A-1 2" ~~with~~ suffused white with few flakes of Phlox Purple  
not much chartreuse. modified mucronatum habit  
Late

Row 4  
cums 33366

A-12 - 1 1/2" - white very heavily sandced, few stripes of  
magenta purple - whole plant - modified Belgian habit  
Late

Row 5  
cums 33356

A-19 - 2 1/2" - V-type sport whole plant - white margins, Pale  
Rose Purple ground - heavy blotch Rosolane Purple dots  
occasional stripes of disson Purple - modified mucronatum  
Late

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Row 7  
cums 33368  
A-24 - not in flower May 20 - One branch only - light center?  
Early flower, (i.e. Apr 30 - May 4) modified mucronatum

Row 10  
cums 33344

A-43 - 2" white; lightly sandced and flakes, few stripes -  
magenta - Shows out all magenta self - watch for  
V-type spots - of which there are many, Modified  
mucronatum type - late

A-42 - 3 1/2" white, faint chartreuse blotch - late  
modified mucronatum, lax + spreading

Row 15 -  
cross 33347

A-59 2" - extremely variable, ruffled white - lightly and  
irregularly flecked, few stripes - magenta - The  
self colored flowers are closer to Rosolare Purple  
and usually have a white star in throat -  
mucronatum habit

Row 18  
cross 33364

A-77 - 3" - <sup>ruffled</sup> white, chateausse blotch - with few Royal  
Red stripes + flecks - modified mucronatum habit

cross 33362

B-77 -

2-2 1/2" ruffled - Tyrian Pink (really more vivid  
vivid),

Tyrian Rose blotch, watch for white centers -

~~Mucronatum habit~~

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N.B. This cross gave good clear pink - white centers  
variable in some plants.

Row

cross 33365

A-83 2" white chateausse blotch - brown anthers, heavy  
substans - modified ~~more~~ mucronatum habit

B-83 - one week earlier otherwise almost identical



These lists have been  
integrated into one list -  
which was made into ~~the~~  
report -  
These are work sheets of -

need to take to Bell

Aug 12

~~27444~~

32150-20

32169-27

32192-35

32254-35

32261-40

32271-30

32280-14

~~32282 done?~~

→ ~~32297 done~~

32477-15

32484-30

32500-35

~~32517 done~~

{ 32313-15

{ 32320-10

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12 clones  
33  
32  
66 clones

Hybrids in pollinations in — 1945

- |                         |                             |                         |                                   |
|-------------------------|-----------------------------|-------------------------|-----------------------------------|
| 27401                   | V7 x Kaupf- done            | 32536                   | malvatica x Yozakura              |
| 27410                   | V7 x mucronata              | 32539                   | Yozakura x Kagarihi               |
| 27413                   | V7 + "                      | [32543] <sup>1946</sup> | Osakazuki x "                     |
| 27416                   | V7 x maritima               | 32545                   | " x "                             |
| [27425]                 | 1946 done                   | 32548                   | " x "                             |
| 27426                   | -                           | 32585                   | Osakazuki x <del>Flam.</del> done |
| 27488                   | -                           | 32586                   | malvatica x Satuki                |
| 32136                   | V7 x Kelly                  | 32587                   | " x "                             |
| 32137                   | V7 x Louise                 | 32591                   | " x "                             |
| 32147                   | " "                         | 32593                   | " x "                             |
| 32204                   | - done                      | 32597                   | " x "                             |
| 32239                   | mac d. x monogono           | 32599                   | Osakazuki x Kagarihi              |
| 32243                   | "                           |                         |                                   |
| 32260                   | [32261 = 1946] "            |                         |                                   |
| 32293                   | Des Carmichael x Kelly      |                         |                                   |
| 32296                   | "                           |                         |                                   |
| [32297] <sup>1946</sup> | "                           |                         |                                   |
| 32308                   | Mme Margatta x Kagarihi     |                         |                                   |
| 32333                   | R. simsi x mucronata        |                         |                                   |
| 32414                   | malvatica x Satuki          |                         |                                   |
| [32417] <sup>1946</sup> | Yozakura x Kagarihi         |                         |                                   |
| 32418                   | "                           |                         |                                   |
| 32423                   | "                           |                         |                                   |
| 32442                   | mucronata l. bicina x Kelly |                         |                                   |
| 32445                   | "                           |                         |                                   |
| 32479                   | V7 x Alice                  |                         |                                   |
| [32482] <sup>1946</sup> | "                           |                         |                                   |
| 32483                   | "                           |                         |                                   |
| [32512] <sup>1946</sup> | mac d. s. x Hatzushima      |                         |                                   |
| 32513                   | "                           |                         |                                   |



27425 - done

27444 (late) 10993 x Kampferi *not done*32149 V7 x martha *done*

150 " x "

32169 Jeannette x Kampferi

32192 mac or. x Ajuma shibori

32222 Hinodegini x Willy

32254 mac or x Ajuma shibori

32261 " "

32271 (white) Kamp. x Willy -

32280 V7 x Koraini

32282 Alice x V7

32287 " x "

32297 Mrs Carmichael x Willy

32303 V7 x Kyu Miyajima

32305 " " *done*

32364 mucronata x R. sinensis

32417 Yozakura - Kagarihi

32448 (Kamp. x mac.) x mucronatum

32462 V7 x Louise

32469 V7 x Hinodegini

32471 V7 x "

32477 V7 x Alice

32479 V7 x Alice

32482 V7 x Alice

32484 V7 x Alice

32500 Kagarihi x Hinodegini

32512 mac d.s. x Hatsushima

32532 Hinodegini x Miltoni

32543 34 Osakazuki x Kagarihi

32647-651 mac d.s. x Hazel Dawson — 34 } 39 clonal lines — 5 }

Varieties in 1946  
pollinators

Varieties from 1946 pollinations

274<sup>25</sup>~~78~~

27444 lot 9

32303

32520

32305

32572

32532

32543

32149

32222

150

32254

32364

32169

32261

32192

32276 (white!)

32417 ~~32415~~

32280

32448

32282

32462

32287

32647-651

32297

32469

Ayaleas

32471

most of them  
are with names  
& pops.

32477

32479

32482

32484

~~32149~~ (similar to *Carex* - *Sy. sp.*)

~~32150~~

~~32477~~

~~32477~~

~~32474~~

~~32475~~ - 27475

~~32149~~

~~32305~~

~~32303~~

~~32500~~

~~32364~~

~~32482~~

~~32282~~

OK ~~32490~~

~~32479~~

~~32266~~

~~32469~~

~~32287~~

~~32297~~

~~32276~~ (white?)

~~32280~~

~~32543~~

~~32462~~

~~32512~~

~~32261~~

~~32169~~

~~32192~~

~~32448~~

32647-649-650-651

~~32417~~

~~32254~~

~~32532~~

~~32444~~ - late



Delivered Aug 1, 1946

AZALEAS

Clones noted for propagation in 1945 work, unless already completed.

- ~~27401~~ - finished.  
~~27410~~ VF x mucronatum ---- did not find 7/31/46  
27413 VF x mucronatum  
~~27416~~ VF x Marta----- did not find 7/31/46  
~~27425~~ done  
27488 ~~VF x Willy~~ no record of parentage ~~1946~~  
32136 VF x Willy  
32137 VF x ~~Willy~~ Louise  
32147 VF x Louise  
~~32204~~ done  
32239 macrantha orange x Momozono  
32243 macrantha orange x Momozono  
32260 macrantha orange x Momozono (Noted 32261 in 1946)  
32293 Mrs. Carmichael x Willy  
32297 Mrs. Carmichael x Willy (repeated this choice in 1946)  
32308 Mme. Margottin x Kagaribi  
32333 R. Simsii x mucronatum  
32414 malvatica x Satsuki  
32417 Yozakura x Kagaribi (noted also in 1946)  
32418 Yozakura x Kagaribi  
32423 Yozakura x Kagaribi  
32442 mucronatum 'Lilacina' x Willy  
32445 mucronatum 'Lilacina' x Willy  
32479 VF x Alice  
32482 VF x Alice (noted also in 1946)  
32483 VF x Alice  
32512 macrantha deep salmon x Hatsushimo (noted also in 1946)  
32513 macrantha deep salmon x Hatsushimo  
32530 malvatica x Yozakura  
32539 Yozakura x Kagaribi  
32543 Osakazuki x Kagaribi  
32545 Osakazuki x Kagaribi  
~~32585~~ Osakazuki x Flame ----- done  
32586 malvatica x Satsuki  
32587 malvatica x Satsuki  
32591 malvatica x Satsuki  
32593 malvatica x Satsuki  
32597 malvatica x Satsuki  
32599 Osakazuki x Kagaribi

added

27488 - This is a very fine very dark red darker than 27487

34 clones

Varieties noted in 1946 (part only) Delivered August 5, 1946

- ~~27408 - No seed available in 1946 -~~
- ~~27429 - Haven't found to date.~~
- 27445 - VF x Miyagimo
- 32222 - Hinodegiri x Willy
- 32256 - macrantha orange x Momozono
- 32276 - splendans x VF
- 32282 - Alice x VF
- ~~32297 - brought in the material from 1945 choices~~
- 32302 - VF x Kyu Miyagimo
- 32303 - "
- 32305 - "

~~32306 - mucronatum x Simsii~~

- 32307 - Kaempferi x Maxwellii
- 32364 - mucronatum x Simsii
- 32448 - (Kaempferi x Mucronatum) x mucronatum
- 32463 - VF x Louise
- ~~32469 - VF x Hinodegiri~~
- 32471 - VF x Hinodegiri
- ~~32479 - brought in material from 1945 choices~~
- 32532 - Hinodegiri x Miltoni
- ~~32543 - brought in material from 1945 choices~~

32646 - VF x Osakazuki

647 - 32467 - VF x Osakazuki

649 - 32469 - VF x Osakazuki

32650 - 32580 - VF x Osakazuki (Some possible mixture of 32469 discard if necessary)

32537 - malvatica x Yosakura (best white)

32640 - Yosakura x Kagaribi (drooping, nose-in-nose carmine, like Christmas cactus)

21 clones.

1945 - notes - to propagate -

- 27410 V7 x mucronata 2" white, lilac <sup>very</sup> stripe flowers  
 27464 Splendens x V7 flesh pink - striped, small  
 32468 V7 x Louise mid seen, large deep rose

Less definite notes to propagate

- 32329 - Simsi x mucronata white spiral pink stripe  
 32140 (no material available 1946) V7 x Louise <sup>testes</sup> striped -  
 32145 V7 x mucronata lilac stripes -  
 32149 V7 x marta pale pink end like kurama  
 32177 <sup>parvula x rufipes</sup> large (Kampfer)  
 32134 } V7 x Lilly 1 degree darker than next }  
 32135 } large rose }  
 32136 } large orange red }  
 32296 Mrs Carmichael x Lilly ve, dark brown red  
 32371 Lilly x Monogram salmon } h/p - kurama }  
 32372 " rose }  
 32313 Simsi x mucronata frilly rose pink  
 32383 } white indica } striped }  
 384 } micro x V7 } darker stripes }  
 385 } still darker stripes - }  
 32479 V7 x Alice , fine dark upper blotch -  
 485 " red toned -



- 27408 - V7 x mucronatum - no word this year
- 27429 - 10798 x Kamppferi
- 27445 - V7 x miyagimo (25) Aug 5
- 32227 Hirodegiri x Willy (50)
- 32276 - macrantha orange x momozono (40)
- 32276 - Splendens x V7 (30)
- 32282 - Alice x V7 (25)
- 32297 - macrantha orange x momozono - done last time
- 32302 (50)
- 32303 35
- 32305 V7 x miyagimo 45
- 32364 mucronatum x Simsii 45
- 32407 Kamppferi x Maxwellii - 45
- 32417 Yozakura x Kagami - done last time
- 32442 mucronatum lilacina x Willy - done last time
- 32448 <sup>(Kamppferi x mucronatum x miyagimo)</sup>  
V7 x Hirodegiri (55)
- 32469
- 32471 V7 x Hirodegiri (26)
- 32479 V7 x Alice - done last time
- 32482 V7 x Alice - no such number 81-83!
- 324643 V7 x Louise - correct record book  
no crosses on  
62
- 32532 Hirodegiri x Miltoni (25)
- 32543 Osakazuki x Kagami - done last time
- 32646 f 30
- 647 (20) V. 7 x Osakazuki
- 649 f 24
- 652 f
- 32537 - (25) white
- 540 - fuchsia red 1/4 droops (50)