Table E

| Phenotype of kernel | 7308B-1 I ♀ | 7308B-1 t-1 ♀ | 7308B-1 t-2 ♀ | 7308B-1 t-3 ♀ | 7308B-2 I ♀ | 7308B-4 I ♀ | 7308B-4 t-1 ♀ | 7308B-4 t-2 ♀ |
|---|---|---|---|---|---|---|---|---|
| | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ | a with wx / no sperm ♂ |
| Uniformly colored pigmented | | | | | | | | |
| BI wx | 95 | 46 | 29 | 17 | 186 | 21 | 28 | 13 |
| BI wx | – | 10 | 10 | 2 | 32 | 1 | 2 | 4 |
| bf wx | 7 | 2 | 3 | 2 | – | – | – | – |
| bf wx | – | 1 | 1 | 1 | – | – | – | – |
| "Diffuse-mottled" pigmented | | | | | | | | |
| BI wx | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BI wx | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bf wx | 0 | 0 | 0 | 0 | – | – | – | – |
| bf wx | 0 | 0 | 0 | 0 | – | – | – | – |
| Colorless with large and small pigmented areas | | | | | | | | |
| BI wx | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BI wx | – | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| bf wx | 0 | 0 | 0 | 0 | – | – | – | – |
| bf wx | – | 0 | 0 | 0 | – | – | – | – |
| Colorless with small spots or speckling pigment | | | | | | | | |
| BI wx | 37 | 6 | 4 | 3 | 23 | 15 | 2 | 0 |
| BI wx | – | 64 | 39 | 18 | 162 | 0 | 26 | 11 |
| bf wx | 1 | 1 | 2 | 0 | – | – | – | |
| bf wx | – | 2 | 4 | 1 | – | – | – | |
| Colorless BI | | | | | | | | |
| wx | 14 | 5 | 2 | 2 | 1 | 0 | 0 | 1 |
| wx | – | 6 | 7 | | 0 | 0 | 0 | 0 |
| | | | | | – | | | |
| Colorless bf wx and wx | 143 | 83 | 89 | 47 | – | 0 | – | – |

~~table 5~~ C  active spun in ♀

7308 = shows high rate of Transposition in Table 7109B ②. t-1

| | | I | II | t-1 | t-2 | t-3 | pollen |
|---|---|---|---|---|---|---|---|
| ✓ 7308A-4 | w+ +/ m spun | 3 | 2 | ~~2~~ 1 | | | ~~X~~ |
| 7308A-1 | w+ w+ no spun | 3 | 1 | | | | |
| " A-2 | w+ m+ no spun | 3 | | | | | |
| " A-3 | w+ m+ no spun | 3 | | | 2 | | |
| " A-6 | w+ w+ no spun | 3 | | | | | |
| " B-1 | w+ +/ m+ spun | 1 | | 2 | 2 | 2 | |
| " B-2 | " " | 2 | | | | | |
| " B-4 | " " | 2 | | 2 | 2 | | |
| " B-5 | " " | 2 | | 1 | 2 | | |
| 7308C-6 | | 1 | 1 | 1 | | | |

07 in cross: 1 = a cut/a cut w+ w+ no spun

2 = " " m+ m+ no spun

3 " " m+ +/ m+ spun - active pollen

Crosses of $a_2$ BI / $a_2$ bt No Spun plants of culture 7456
To a bt No Spun tested.

| Plant No. | | Az BI | Az bt | Colorless BI | Colorless bt | | Totals | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 7456A-1 | II | 193 | 10 | 8 | 206 | | 417 | | | |
| " -1 | t | 154 | 11 | 10 | 154 | | 329 | | | |
| " A-3 | pollen | 178 | 6 | 10 | 195 | | 389 | | | |
| " " | " | 100 | 6 | 6 | 72 | | 184 | | | |
| " A-4 | II | 184 | 6 | 10 | 163 | | 363 | | | |
| " " | t-1 | 88 | 3 | 9 | 98 | | 198 | | | |
| " " | t-2 | 156 | 8 | 8 | 195 | | 367 | | | |
| " B-1 | t | 3 | 0 | 0 | 1 | | 4 | | | |
| " B-2 | t | 166 | 7 | 5 | 156 | | 334 | | | |
| " B-3 | t | 116 | 8 | 5 | 137 | | 266 | | | |
| " B-6 | | 77 | 4 | 8 | 77 | | 166 | | | |
| Totals | | 1415 | 69 | 79 | 1454 | | 3017 | | | |

Phenotypes of

Table 7. Test crosses conducted with ears of plant 7308A-4 that was $a_2 a_2$ (class II) BF / $a_2 a_2$ (class II) BL; W+/en4 Spm

Phenotypes of kernels.

| Part of plant tested | Constitution of ♂ in test cross. | Uniformly Pigmented. | | Colorless with spots or specks of color 1 Spm pattern | | 2 Spm pattern | | Highly colored Spm pattern. | | Colorless. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | W+ | en | W+ | en | W+ | en | W+ | en | |
| First ear, main stalk. | $a_2$ bt en 1 active Spm. | 70 | 6 | 69 | 9 | 10 | 68 | 3 | 75 | 0 |
| 2nd ear, main stalk | $a_2$ bt en no Spm | 107 | 14 | 0 | 0 | 12 | 115 | 0 | 2 | 0 |
| tiller ear | $a_2$ bt W+ no Spm. | 142 | — | 1 | — | 135 | — | 4 | — | 0 |

From 7308D(6)-1

Wt + / wn Spm - active + 1 inactive Spm ♀ × $a_2$ bf wn wo Spm ♂

| | | 7595A (6) BT | 7597A (1) I | 7597A (2) I | 7597A (5) II | | Totals | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 7535-14 | 7535-4 | 7535-2 | 7535-14 | | | | |
| uniformly dark pigmented | BT | | | | | | | | |
| | wt | 27 | 82 | 87 | 89 | | 285 | | |
| | wn | 7 | 8 | 10 | 21 | | 46 | | |
| " " | bt | | | | | | | | |
| | wt | 6 | 9 | 5 | 5 | | 25 | | |
| | wn | 1 | 2 | 1 | 0 | | 4 | | |
| $a_2 \to A_2$ BT | 2 Spm | | | | | | | | |
| | wt | 16 | 5 | 1 | 7 | | 29 | | |
| | wn | 27 | 43 | 45 | 37 | | 152 | | |
| " BT | 4 Spm | | | | | | | | |
| | wt | 6 | 3 | 0 | 4 | | 13 | | |
| | wn | 22 | 38 | 43 | 36 | | 139 | | |
| $a_2 \to A_2$ bt | | | | | | | | | |
| | wt | 7 | 2 | 2 | 1 | | 12 | | |
| | wn | 7 | 6 | 3 | 5 | | 21 | | |
| colorless BT | | | | | | | | | |
| | wt | 2 | 6 | 5 | 5 | | 18 | | |
| | wn | 5 | 8 | 6 | 7 | | 26 | | |
| colorless bt | | | | | | | | | |
| wt + wn | | 123 | 196 | 183 | 234 | | 736 | | |
| | Totals | 256 | 408 | 391 | 451 | | 1506 | | |

= 330

331 $A_2$ BT : 181 var BT "2 Spm" : 152 var BT "4 Spm" : 44 colorless BT
29 $A_2$ bt : 33 var BT* : 736 colorless bt.

* some "4 Spm" pigments in var. class not easily detected.

7538 crosses to $a_2 w^1(A_2)\ BE \mid a_2 bt$

| Cross. | no. of ears. | uniform dark color Bt / bt | colorless BE with: many spots of color | colorless BE with: few spots or specks of color | colorless bt with colored spots | colorless BE | colorless bt | Totals. |
|---|---|---|---|---|---|---|---|---|
| ♂1 7538-9 | 1 spm (6 ears) ♀ no spm } I | 494 | 44 / 439 | 6 | 33 | 75 | 898 | 1989 |
| ♂2 " -12 | 1 spm (2 ears) ♀ no spm } I | 170 | 12 / 182 | 1 | 9 | 21 | 360 | 755 |
| ♀ W+W+ 1 nicotine spm (7 ears) ♂=1 spm | III | 771 | 60 / 389 | 405 | 55 | 107 | 1629 | 3416 |
| ♀ W+ sm; 1 nicotine spm (4 ears) ♂=1 spm | III | 359 | 18 / 188 | 158 | 19 | 47 | 722 | 1511 |
| ♀ W+ W+ W+ sm; 1 nicotine spm ♂ = 8 spm/spm (3 ears) | IV | 40 | 4 / 172 | 193 | 27 | 38 | 376 | 850 |
| ♀ no spm ♂ spm/spm (1) | II | 1 | 1 / 41 | 0 | 3 | 6 | 32 | 84 |
| | | W+ / sm | W+ / sm | W+ / sm | W+ / sm | W+ / sm | W+ / sm | W+ + sm |
| ♀ W+ + sm spm - nicotine ♂ = 1 spm (8 ears) | V | 324 / 330 | 29 / 29 | 245 / 37 | 40 / 233 | 21 / 25 | 57 / 53 | 1240 |
| ♀ W+ + sm spm - nicotine ♂ = 1 spm | VI | 228 / 41 | 32 / 3 | 197 / 42 | 58 / 411 | 23 / 56 | 70 / 66 | 914 | 2141 |
| ♀ W+ spm (nicotine) / sm + ♂ 1 spm (2 ears) | VII | 7 / 65 | 1 / 1 | 3 / 65 | 129 / 16 | 4 / 3 | 16 / 7 | 256 | |
| ♀ W+ + sm spm nicotine ♂ spm/spm | VIII | 9 / 4 | 0 / 2 | 42 / 5 | 16 / 56 | 5 / 5 | 5 / 2 | 150 | 301 |
| ♀ W+ + sm spm - nicotine + 1 nicotine (12 ears) ♂ VII | VIII | 285 / 46 | 25 / 4 | 29 (25 spm) / 152 | 13 (4 spm) / 139 | 12 / 21 | 18 / 26 | 736 | 1506 |

$a_2 m_1 (A_2) BT / a_2^5 bt$

Table.

Crosses to $a_2 bt$ pr y W+ no Spm.

| Plant | Location of ear tested | Kernel Type 1956 Colored | colorless with colored spots | colorless. | Cultivo No. 1957 | 1958 | 1960 |
|---|---|---|---|---|---|---|---|
| 7109 B-1 | 1st ear, main stalk [W+ / no Spm] | 110 | 19 | 139 | 7456 | | |
| | ear, first tiller | 102 | 87 | 225 | 7306 | | |
| | ear, 2nd tiller | 98 | 97 | 149 | 7307 | | |
| | ear, third tiller | 127 | 130 | 241 | | | |
| | pollen from tiller | 89 | 82 | 191 | | | |
| 7109B-2 | 1st ear, main stalk [W+ / no Spm] | 136 | 118 | 240 | 7309 | | |
| | ear, 2nd tiller | 132 | 141 | 273 | | | |
| vv | ear, tiller-1, self pollinated | 88 | 259 | | 7308 | | |
| | pollen from main stalk | 250 | 256 | 559 | 7310, 7311 | | |
| 7109C-1 | 1st ear, main stalk | 149 | 87 | 226 | | | |
| | ear, tiller-1 | 96 | 71 | 167 | | | |
| | ear, tiller-2 | 128 | 132 | 250 | | | |
| | ear, tiller-3 | 78 | 80 | 179 | | | |
| 7109C-2 | 1st ear, main stalk W+ / W+ | 181 | 86 | 294 | | | |
| | ear, tiller | 141 | 129 | 237 | | | |
| | pollen from tiller | 183 | 165 | 360 | | | |
| 7109C-3 | 1st ear, main stalk | 229 | 8 | 240 | | | |
| | ear, tiller-1 | 131 | 115 | 250 | | | |
| | ear, tiller-2 | 116 | 108 | 231 | | | |
| | pollen from main stalk | 192 | 103 | 323 | | | |
| 7109C-4 | 1st ear, main stalk | 134 | 99* | 234 | 7455 | | |

* pattern is "delayed" action type - breakdown - spk with specks appearing first in clear grains of kernel like

7455 = From 7109C ④ I × a₂bt μ Wx noSpm of plants in mature were non-vernalized. | Very long inactive cycle of Spm.

7455 A From early "breakdown" class:

A ① ± × a₂bt μ W4 = all A₂

± + 7308 D ② t-2 = inactive Spm in A① is partially active

A ② I + a₂bt μ W4 = all A₂

t-1 + " " " W+ = delayed activ Spm from ♀

t-2 + M 308 D ② t-1 = very " " " " ♀ - forced clonal cells

t-3 + " D ② t-2 = " " " " " " - " "

A ③ I + 7308 D ① t-2 = inactive Spm in ♀

③ II + a₂bt μ Wx noSpm = delayed activ " " ♀

A ④ I + a₂bt μ W4 = very delayed activ Spm in ♀

t-1 + 7308 D ② t-1 = delayed activ " " ♀

t-2 + a₂bt μ W+ = " " " " ♀

7455 B = from advanced Breakdown Plants.

B ① I × a₂bt μ W noSpm = delayed activ Spm = ret for pattern I like sdp pseudo

B ② ∓ × 7308 D ② t-1 | inactive Spm in ♀ see 7591

② II × a₂bt μ W noSpm " " " " ♀ see 7592

② ± × " " " W+ " " late active Spm in ♀ see 7593

B ③ I × 7308 D ① in activ Spm in ♀

II × a₂bt μ W+ noSpm in activ " " "

B ④ I + 7308 D ① t-2 very delayed activ Spm in ♀

B ⑤ I + " " " delayed activ Spm in ♀

II × a₂bt μ Wx noSpm = in activ Spm in ♀

7455 B⑥ I + 7308 D① t-1 = inactive sperm in ♀

7455 C = from a₂ → h₂ bees – "2 sperm" pattern

C① I + 7308 D② t-1 = inactive sperm in ♀

pollen to a₂bbₚ Wx + noSpm = late active sperm (delayed)

---

C② I + 7308 D① t-1 in active sperm in ♀ See 7597

C③ I + " D② t-2 delayed active sperm in ♀

pollen tube to a₂bbₚ Wx + active sperm in ♂

C④ I + 7308 D② t-2 nearly inactive sperm in ♀

t + a₂bbₚ Wx noSpm = active sperm with few Brood cover bees

---

C⑤ I + 7308 D② t-1 inactive sperm in ♀ See 7595 { all plants but A③ are var.

II + a₂bbₚ Wx inactive sperm in ♀ See 7594 { no plants are var.

t + " " " very delayed active " " ♀ See 7596 { no viable sperm in plants

---

D = from early Brood cover bees.

① I + 7308 D② t-1 inactive sperm in ♀

② I + " D② t-1 inactive sperm in ♀

③ I + " D② t-1 in active " " ♀

③ pollen to a₂bbₚ Wx = inactive " " ♀ + few very delayed active bees.

class II

$a_2^{m-1}(A_2)$ BE | $a_2$ bf

W+ + | wSpm - actives

Progeny g 7308 D-1 Year 1956

| Culture | Ears no. of | | uniform BE W+ | uniform BE wf | $A_2$ pigmented bf W+ | $A_2$ pigmented bf wf | colorless spots of color BE W+ | colorless spots of color BE wf | colorless bf W+ | colorless bf wf | W+ and wf | Totals | Recombinants |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7566A | 3 | | 241 | 34 | 34 | 9 | 21 | 253 | 3 | 31 | 31 | 38 | 480 | 1175 | 10.7 % |
| 7588 | 10 | | 529 | 68 | 35 | 3 | 80 | 528 | 3 | 36 | 32 | 47 | 1206 | 2567 | 12.0 |
| 7597A | 3 | | 197 | 20 | 15 | 3 | 13 | 193 | 4 | 9 | 13 | 14 | 428 | 909 | 7.8 |
| Totals | 16 | | 967 | 122 | 84 | 15 | 114 | 974 | 10 | 76 | 76 | 99 | 2114 | 4651 | |

1051 $A_2$W+ ; 137 $A_2$ wf : 124 var. W+ : 1050 var. wf = 2362 = 11.0 % recombination

" 10.5% of variegated class

Progeny g 7308 D-2

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7569 | 6 | | 301 | 58 | 40 | 2 | 45 | 296 | 5 | 46 | 54 | 34 | 658 | 1539 | 12.3 |
| 7575A | 1 | | 81 | 7 | 3 | 0 | 11 | 72 | 0 | 1 | 6 | 2 | 151 | 334 | 10.3 |
| 7591 | 7 | | 215 | 31 | 23 | 3 | 25 | 208 | 1 | 25 | 39 | 24 | 516 | 1110 | 11.3 |
| 7595 | 8 | | 158 | 17 | 18 | 7 | 15 | 138 | 3 | 19 | 33 | 18 | 346 | 772 | 11.2 |
| 7570A | 13 | | 318 | 50 | 46 | 11 | 62 | 319 | 9 | 40 | 75 | 65 | 698 | 1693 | 12.3 |
| Totals | 35 | | 1073 | 163 | 130 | 23 | 158 | 1033 | 18 | 131 | 207 | 143 | 2369 | 5448 | |

1203 $A_2$W+ : 186 $A_2$ wf : 176 var. W+ : 1164 var. wf = 2729 = 13.2 % recombination

" 13.1% of variegated class.

♀ $a_2^{m-1}$ (class II) BE | $a_2$ bf × $a_2$bf | $a_2$bf, wf | wf, no Spm ♂

W+ + | wSpm

class I

$a_2$ mi (pale-spotted) BI / $a_2$ bt ♀

Wt+ / wy Spm - active

spm from 7308D-1

| Plant number | Ear | | uniform pale Bt Wt+ | uniform pale Bt wy | uniform pale bt Wt+ | uniform pale bt wy | colorless, spots of deep pigment Bt Wt+ | colorless, spots of deep pigment Bt wy | colorless, spots of deep pigment bt Wt+ | colorless, spots of deep pigment bt wy | colorless Bt Wt+ | colorless Bt wy | colorless bt Wt+ and wy | totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7564 ① | I | 1 wy | 29 | 2 | 0 | 0 | 2 | 41 | 0 | 4 | 4 | 2 | 63 | 148 | |
| " ① | t-1 | 1 wy | 46 | 4 | 4 | 0 | 3 | 37 | 0 | 4 | 2 | 0 | 89 | 190 | |
| 7564 ② | I | 3 wy | 75 | 11 | 1 | 1 | 6 | 60 | 0 | 3 | 9 | 6 | 137 | 312 | |
| " ③ | I | 1 wy | 73 | 16 | 3 | 4 | 6 | 76 | 0 | 6 | 4 | 4 | 150 | 343 | |
| " ④ | I | 1 Wx | 37 | 3 | 8 | 0 | 6 | 44 | 1 | 1 | 4 | 3 | 106 | 214 | |
| " ④ | I | 1 Wx : 1 wy | 48 | 15 | 3 | 2 | 4 | 60 | 1 | 5 | 4 | 11 | 120 | 275 | |
| " ⑤ | I | 3 wy | 42 | 3 | 2 | 0 | 3 | 39 | 0 | 1 | 1 | 4 | 107 | 205 | |
| Totals | | 2 Wx : 10 wy | 350 | 54 | 21 | 7 | 30 | 357 | 2 | 24 | 28 | 30 | 772 | 1687 | |
| 371 | pale Wx : | 61 pale wy : | | | 32 wax. | | Wx : 381 wax. | | wy = 845 | | = 11.0% accumulation | | | | |
| ♀ 7564-① | ♂ t-1 × 7538-4 | 1 wy | 41 | 4 | 0 | 0 | 59 | 106 | 3 | 1 | 8 | 3 | 234 | 460 | |
| | | 1 spm. | | | | | | | | | | | | | |
| 7564-② t | × 7537C-1 | 0 | 43 | 5 | 30 | 2 | 4 | 49 | 2 | 36 | 2 | 0 | 35 | 208 | =7.6% accumb. |
| 7565A-③ II | × 7537C-1 | 0 | 57 | 7 | 40 | 3 | 7 | 57 | 3 | 35 | 1 | 2 | 43 | | 9.5% accumb. |
| " -3 | taller | 1 Wx : 3 wy | 80 | 7 | - | - | 8 | 71 | 0 | 4 | 3 | 5 | 166 | 348 | |
| " A-5 | I | 0 | 83 | 4 | 4 | 0 | 6 | 112 | 0 | 7 | 8 | 5 | 184 | 413 | |
| A-3 (wy) A-5 Totals | | 1 Wx : 3 wy | 163 | 11 | 4 | 0 | 14 | 183 | 0 | 11 | 11 | 10 | 350 | 761 | 7.0% accumb. |
| 7585 A-1 | taller | 0 | 19 | 0 | 0 | 0 | 3 | 18 | 0 | 0 | 4 | 1 | 25 | 70 | |
| " A-2 | I | 0 | 40 | 2 | 7 | 0 | 6 | 56 | 1 | 6 | 3 | 6 | 104 | 231 | |
| " A-5 | I | 0 | 66 | 14 | 12 | 0 | 7 | 61 | 0 | 9 | 11 | 4 | 146 | 330 | |
| " B-1 | taller-2 | 2 wy (1 BI) | 43 | 7 | 2 | 0 | 12 | 130 | 0 | 3 | 9 | 8 | 137 | 263 | |
| " B-5 | I | 0 | 83 | 9 | 6 | 0 | 5 | 92 | 0 | 8 | 9 | 8 | 178 | 398 | |
| | Totals | 2 wy + 1 BI | 251 | 32 | 27 | 0 | 33 | 267 | 1 | 26 | 36 | 27 | 590 | 1292 | 10.3% accumb. |
| 7585B-3 II | 7538-2 ♂ | 0 | 25 | 21 | 3 | 0 | 66 | 77 | 5 | 8 | 6 | 12 | 149 | | |
| | Spm + Spm | | | | | | | | | | | | | | |
| 7585B-1 t-1 | + 7537C-1 ♂ | 4 Wx | 29 | 13 | 23 | 7 | 70 | 78 | 50 | 60 | 4 | 3 | 34 | | |
| " B-5 II | + 7537C-1 ♂ | 1 BI + 1 wy Wx | 71 | 2 | 47 | 4 | 7 | 62 | 2 | 43 | 2 | 0 | 38 | | |

Progeny 7308D-1 cont.

| | | | uniform pale. | | | | clears with A₂ spots | | | | clearless | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A₂ | BI | | bt | | BI | | bt | | BI | | bt | | | |
| ♀ | Eye | | wt | un | wt | un | wt | un | wt | un | wt | un | wt | un | wt and un | Totals | |
| 7601B-① | I | 0 | 69 | 11 | 3 | 2 | 8 | 69 | 0 | 8 | 11 | 9 | | | 196 | 386 | |
| 7601B-3 | I sector | 0 | 13 | 3 | 1 | 1 | 1 | 26 | 1 | 1 | 4 | 0 | | | 35 | 86 | |
| | II | | 76 | 91 | 5 | 7 | 0 | 0 | 0 | 0 | 7 | 9 | | | 186 | 381 | |
| 7601B-4 | I | 1 BI un | 110 | 10 | 7 | 1 | 9 | 101 | 0 | 8 | 12 | 14 | | | 236 | 509 | |
| 7601B-7 | I | 1BI un : 1bt un | 59 | 8 | 10 | 3 | 7 | 38 | 2 | 6 | 14 | 11 | | | 120 | 280 | |
| " B-7 | II | 1 BI un | 63 | 12 | 9 | 2 | 12 | 51 | 2 | 12 | 3 | 6 | | | 134 | 307 | |
| " B-8 | I | 0 | 70 | 22 | 11 | 2 | 27 | 74 | 4 | 11 | 5 | 11 | | | 194 | 431 | |
| " B-9 | I | 1BI un | 72 | 14 | 8 | 1 | 16 | 79 | 0 | 8 | 9 | 8 | | | 193 | 409 | |
| Totals (minus sector) | | 4BI un : 1bt un | 456 | 80 | 49 | 12 | 80 | 438 | 9 | 54 | 58 | 59 | | | 1108 | 2408 | 15.3% |

Summaries

Totals for cross of $a_2$ bt un, no Spun

| | A₂ BI wt | A₂ BI un | A₂ bt wt | A₂ bt un | BI wt | BI un | bt wt | bt un | BI wt | BI un | bt wt | bt un | wt and un | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7564 | 2 | 10 | 0 | 0 | 350 | 54 | 21 | 7 | 30 | 357 | 2 | 24 | 28 | 30 | 772 | 1687 | 11.0 |
| 7565 | 1 | 3 | 0 | 0 | 163 | 11 | 4 | 0 | 14 | 183 | 0 | 11 | 11 | 10 | 350 | 761 | 7.0 |
| 7585 | 0 | 1 | 0 | 1 | 251 | 32 | 27 | 0 | 33 | 267 | 1 | 26 | 36 | 27 | 590 | 1292 | 10.3 |
| 7601 | 0 | 4 | 0 | 1 | 456 | 80 | 49 | 12 | 80 | 438 | 9 | 54 | 58 | 59 | 1108 | 2408 | 15.3 |
| Totals | 3 | 18 | 0 | 2 | 1220 | 177 | 101 | 19 | 157 | 1245 | 12 | 115 | 133 | 126 | 2820 | 6148 | 11.9 |

Totals for Crosses with 7537C-1

| | | | | | | | | | | | | | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7564-2♂ | 0 | 0 | 0 | 0 | 43 | 5 | 30 | 2 | 4 | 49 | 2 | 36 | | 171 | |
| 7565A⑤ II | 0 | 0 | 0 | 0 | 57 | 7 | 40 | 3 | 7 | 57 | 3 | 35 | | 209 | |
| 7585B⑤ II | 0 | 1 | 1 | 0 | 71 | 2 | 47 | 4 | 7 | 62 | 2 | 43 | | 240 | |
| Totals | 0 | 1 | 1 | 0 | 171 | 14 | 117 | 9 | 18 | 168 | 7 | 114 | | 620 | 7.7% |

$a_2$ mi (pale) BI / $a_2$ bt

Summaries Wx + / un Spm - from 7308 D-2

Year 1958

I ♂ = $a_2$ bt un wspm

| | BI $A_2$ bt | | | | pale BI | | bt | | Colorless spots of $A_2$ BI | | bt | | Colorless BI | | bt | | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wx | | un | | Wx | un | Wx | un | Wx | un | Wx | un | Wx | un | Wx and un | Totals | Recombination |
| 7571 | 0 | 0 | 0 | 0 | 106 | 18 | 13 | 2 | 14 | 109 | 1 | 18 | 17 | 10 | 205 | 513 | 12.4 |
| 7583 | 1 | 1 | 0 | 0 | 214 | 20 | 25 | 1 | 33 | 212 | 1 | 21 | 47 | 32 | 531 | 1139 | 10.8 |
| 7602 | 1 | 1 | 1 | 0 | 89 | 21 | 9 | 0 | 7 | 91 | 2 | 8 | 11 | 11 | 241 | 493 | 13.1 |
| Totals | 2 | 2 | 1 | 0 | 409 | 59 | 47 | 3 | 54 | 412 | 4 | 47 | 75 | 53 | 977 | 2145 | 11.5 |

II ♂ = 7537C-1

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7571 | 0 | 2 | 0 | 0 | 144 | 23 | 103 | 16 | 15 | 160 | 18 | 143 | | | Totals 624 | | 11.5 |

III $a_2$ mi (class II) BI / $a_2$ bt × $a_2$ bt un ♂

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1073 | 163 | 130 | 23 | 158 | 1033 | 18 | 131 | 207 | 143 | 2369 | 5448 | 13.2 |

$a_2 m-1$ (pale-spotted) BI | $a_2$ bf
Wx + wx Spm-def inf

Progeny of 7308 D-2

| ♀ | Ear | | $A_2$ | uniform pale BI Wx | BI wx | bf Wx | bf wx | colorless, $A_2$ BI Wx | BI wx | bf Wx | bf wx | colorless BI Wx | BI wx | bf Wx+wx | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7571-1 | II | | 0 | 19 | 1 | 3 | 0 | 1 | 19 | 0 | 2 | 4 | 2 | 25 | 76 | |
| " -1 | t-1 | | 0 | 10 | 1 | 3 | 0 | 1 | 9 | 0 | 3 | 4 | 3 | 26 | 60 | |
| " -1 | t-2 | | 0 | 23 | 3 | 2 | 1 | 4 | 47 | 1 | 7 | 4 | 1 | 66 | 159 | |
| 7571-2 | I | | 0 | 16 | 2 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 13 | 38 | |
| 7571-4 | I | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 4 | 7 | |
| 7571-4 | taller Sectoral brows | | 0 | 28 | 24 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 50 | 107 | |
| | | | 0 | 33 | 10 | 3 | 1 | 8 | 20 | 0 | 5 | 2 | 2 | 61 | 145 | |
| 7571-5 | I | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 4 | 9 | |
| " -5 | II | | 0 | 4 | 0 | 0 | 0 | 0 | 7 | 0 | 1 | 0 | 1 | 6 | 19 | |
| Totals (wx - extra) | | | 0 | 106 | 18 | 13 | 2 | 14 | 109 | 1 | 18 | 17 | 10 | 205 | 513 | 12.4% |
| 7571-4 F2 | ×7537C-1 | 2BI wx | | 59 | 12 | 36 | 5 | 3 | 53 | 6 | 62 | 1 | 0 | 33 | 272 | |
| 7571-5 F1 | × " | | | 85 | 11 | 67 | 11 | 18 | 107 | 12 | 81 | 3 | 2 | 48 | 439 | 11.9% |
| Totals | | 2BI wx | | 144 | 23 | 103 | 16 | 15 | 160 | 18 | 143 | 4 | 2 | 81 | 711 | 11.5 |
| 7583A-2 | I | 1BI wx | | 10 | 2 | 2 | 0 | 6 | 13 | 0 | 0 | 4 | 2 | 26 | 66 | |
| " " | II | | 0 | 54 | 4 | 9 | 0 | 13 | 55 | 0 | 8 | 13 | 9 | 147 | 312 | |
| " A-3 | I | 1BI Wx | | 31 | 6 | 9 | 1 | 1 | 22 | 1 | 5 | 12 | 8 | 73 | 170 | |
| " A-4 | taller | | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | |
| " A-5 | I | | 0 | 12 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 0 | 2 | 22 | 47 | |
| " B-2 | I | | 0 | 60 | 4 | 2 | 0 | 10 | 74 | 0 | 3 | 10 | 7 | 173 | 343 | |
| " B-4 | I | | 0 | 27 | 0 | 1 | 0 | 2 | 19 | 0 | 3 | 4 | 4 | 50 | 110 | |
| " B-5 | I | | 0 | 18 | 3 | 1 | 0 | 1 | 19 | 0 | 2 | 4 | 0 | 40 | 88 | |
| Totals | | 1Wx 1wx | | 214 | 20 | 25 | 1 | 33 | 212 | 1 | 21 | 47 | 32 | 531 | 1139 | |
| 7583A-1 F1 | ×7538-14 1Spm | 1BI Wx 1BI wx | | 22 | 5 | 7 | 1 | 33 | 54 | 6 | 14 | 16 | 17 | 131 | 306 | |
| 7602-1 | | | 0 | 17 | 6 | 2 | 0 | 1 | 17 | 1 | 2 | 1 | 1 | 68 | 116 | |
| " -2 sib | | 1BZWx 1BIWx 1wx | | 72 | 15 | 7 | 0 | 6 | 74 | 1 | 6 | 10 | 10 | 173 | 377 | |
| " -3 sib | Totals | 2Wx 1wx | | 89 | 21 | 9 | 0 | 7 | 91 | 2 | 8 | 11 | 11 | 241 | 493 | 13.1% = Records |

1957 $a_2^{2m}$(A2) BE | $a_2^{s}$ bf Wx+/ wx-spm defic × $a_2$ bf wx wo spm ♂.

| ♀ | | Uniformly Pigmented BE Wx | wx | bf Wx | wx | Colorless, splits of BE Wx | wx | bf Wx | wx | BE Colorless Wx | wx | | | Totals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7306 A① II | | 31 | 7 | 0 | 2 | 10 | 38 | 0 | 1 | 1 | 1 | 77 | | 168 | ♀ records: 18.3% |
| " " I | | 63 | 13 | 1 | 0 | 11 | 58 | 0 | 0 | 1 | 5 | 156 | | | |
| " A⑥ II | | 7 | 3 | 3 | 1 | 1 | 8 | 0 | 0 | 0 | 1 | 15 | | | |
| 7307 A② t-1 | | 71 | 8 | 5 | 0 | 7 | 58 | 0 | 4 | 4 | 6 | 152 | | | |
| " A① t-2 | | 23 | 4 | 1 | 0 | 2 | 20 | 0 | 1 | 0 | 1 | 58 | | | |
| " A③ I | | 80 | 12 | 6 | 0 | 16 | 77 | 0 | 10 | 11 | 10 | 187 | | | 13.9% c.o. |
| " A④ | | 74 | 8 | 7 | 2 | 5 | 97 | 4 | 4 | 5 | 6 | 214 | | | |
| " A④ t | | 63 | 5 | 1 | 0 | 8 | 57 | 0 | 7 | 3 | 7 | 116 | | | |
| " A⑤ II | | 42 | 2 | 1 | 0 | 3 | 33 | 0 | 1 | 0 | 2 | 62 | | | 6.1% c.o. |
| " A⑤ II | | 43 | 13 | 1 | 0 | 6 | 39 | 0 | 2 | 3 | 4 | 76 | | | |
| " A⑥ | | 47 | 7 | 2 | 0 | 5 | 59 | 0 | 3 | 4 | 5 | 130 | | | |
| " B① I | | 39 | 4 | 1 | 0 | 9 | 40 | 1 | 4 | 6 | 7 | 79 | | | |
| " B① t | | 61 | 10 | 6 | 1 | 6 | 57 | 3 | 5 | 4 | 5 | 127 | | | |
| 7308 B① t | | 46 | 10 | 2 | 1 | 6 | 64 | 1 | 2 | 5 | 6 | 83 | | | |
| " B① t-2 | | 29 | 10 | 3 | 1 | 3 | 39 | 2 | 4 | 3 | 7 | 89 | | | |
| " B① t-3 | | 17 | 2 | 2 | 1 | 3 | 18 | 0 | 1 | 0 | 2 | 47 | | | |
| 7309 B② I | | 38 | 11 | 0 | 1 | 5 | 32 | 1 | 2 | 4 | 4 | 93 | | | |
| " A③ t | | 45 | 11 | 3 | 0 | 7 | 41 | 0 | 3 | 7 | 3 | 112 | | | |
| " A④ t-1 | | 57 | 2 | 1 | 0 | 8 | 60 | 0 | 4 | 2 | 5 | 118 | | | |
| " A⑤ t-1 | | 76 | 10 | 5 | 1 | 11 | 68 | 2 | 3 | 4 | 5 | 158 | | | |
| " A⑧ I | | 41 | 2 | 4 | 0 | 5 | 34 | 0 | 6 | 4 | 6 | 98 | | | |
| 7313 B② t | | 83 | 5 | 2 | 1 | 6 | 67 | 0 | 3 | 3 | 3 | 193 | | | |
| 7313 A② t | | | | | | | | | | | | | | | |
| Totals | wo genes = 22 | 1076 | 159 | 57 | 12 | 143 | 1064 | 14 | 70 | 71 | 101 | 2359. | | | |

1133 A, Wx : 171 A2 wx : 157 rec. Wx : 1134 rec. wx. = 2595 $a_2^{2m}$ females

= 12.6% recombination

$a_2^{2m}$(A2) BE | $a_2^{2m}$(A2) BE Wx+/ wx spm defic × $a_2$ bf wx wo spm ♂

1957

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7308 A④ II | | 107 | 14 | - | - | 12 | 117 | - | - | collected | | | Totals | | |
| " B② I | | 186 | 32 | | | 23 | 162 | | | 1 | | | Tot 250 | = | 10.4% c.o. |
| " B④ I | | 21 | 1 | | | 0 | 15 | | | | | | 404 | | |
| " B④ t-1 | | 28 | 2 | | | 2 | 26 | | | | | | 37 | | |
| " B④ t-2 | | 13 | 4 | | | 0 | 11 | | | | | | 58 | | |
| Totals | | 355 | 53 | | | 37 | 331 | | | 1 | | | 28 | | |
| | | | | | | | | | | | | | 777 | | |
| | | | | | | 11.8% recombination | | | | | | | | | |
| 1958 | | | | | | | | | | | | | | | |
| 7563 B③ | | 146 | 27 | | | 6 | 136 | | | | | | 315. | | |
| " B③ t-1 | | 166 | 43 | | | 36 | 182 | | | | | | 427 | | |
| Totals | | 312 | 70 | | | 42 | 318 | | | | | | 742 | | |
| | | | | | | 15.2% recombination | | | | | | | | | |

For reference to B of table 2. Year 1957 $a_2$ mi BI / $a_2$ bf Wx+ / un spun - actual x $a_2$ bf un no spun.

| Plant no. | | Uniformly Pigmented BI Wx | BI un | bf Wx | bf un | Variegated BI Wx | BI un | bf Wx | bf un | Colorless BI Wx | BI un | bf Wx | bf un | Wx × un | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7306A-1 III | + a bf un no Spn | 31 | 7 | 0 | 2 | 10 | 38 | 0 | 1 | 1 | 1 | | | 77 | | 168 |
| " " 1 II | " " | 63 | 13 | 1 | 0 | 11 | 58 | 0 | 0 | 1 | 5 | | | 156 | | 308 |
| " " ⑥ III | " " | 7 | 3 | 3 | 1 | 1 | 8 | 0 | 0 | 0 | 1 | | | 15 | | 39 |
| Totals | 3 cors. | 101 | 23 | 4 | 3 | 22 | 104 | 0 | 1 | 2 | 7 | | | 248 | | 515 |
| 105 | $A_2$ Wx : 26 | $A_2$ un : | | 22 var. Wx : | | 105 | var. un = | | | 258 | = | 18.5% | | as combination | | |
| 7306A-3 F | | 7 | 7 | 0 | 1 | 5 | 7 | 1 | 0 | 1 | 1 | | | 33 | | |
| ~~7306B-1~~ | ~~4 cors. x $a_2$ bf un 07~~ | | | | | | | | | | | | | = | | |

For reference to B 27 table 2. Year 1957

| | | uniformes Pisum BT Wx | | BT ws | | var. colorées BT | | BT | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 7306 B ① | II + a-bat ws, wospm | 4 | 3 | 1 | 0 | 148 | 6 | 9 | 189 | |
| " ① | t-1 | 7 | 2 | 0 | 0 | 132 | 6 | 14 | 152 | |
| " ① | t-2 | 19 | 1 | 0 | 0 | 30 | 0 | 3 | 42 | |
| " ① | t-3 | 3 | 1 | 0 | 0 | 71 | 6 | 11 | 86 | |
| Totals | | 33 | 7 | 1 | 0 | 381 | 18 | 37 | 469 | |
| 7306 B ⑥ | I + a-bat ws wospm | 9 | – | 0 | – | 181 | 10 | 13 | 185 | |
| | | Wx | ws | Wx | ws | Wx | ws | Wx | ws | |
| 7306 B ② | I + a-bat ws, wospm | 28 | 2 | 1 | 0 | 24 | 60 | 1 | 1 | 7 | 1 | 133 |
| 7306 B ① | I + a-bat Wx wospm | 34 | – | 4 | – | 151 | – | 8 | – | 16 | – | 205 |
| | Totals | 64 | | 5 | | 235 | | 10 | | 24 | | 338 |

For Table 2 - C Year 1957

$a_2$ wi BI / $a_2$ bt Wx+ / wi spm - active ♀ × $a_2$ bt wi nospm ♂

| | | uniformly Pigmented BI | | bt | | variegated BI | | bt | | Colorless BI | | bt | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plant no. | | Wx | wi | Wx | wi | Wx | wi | Wx | wi | Wx | wi | Wx | wi | Wx + wi | | Totals |
| 7307 A(2) | I-1 | 71 | 8 | 5 | 0 | 7 | 58 | 0 | 4 | 4 | 6 | 152 | | | | 315 |
| " " | I-2 | 23 | 4 | 1 | 0 | 2 | 20 | 0 | 1 | 0 | 1 | 58 | | | | 110 |
| " A-3 | I | 80 | 12 | 6 | 0 | 16 | 77 | 0 | 10 | 11 | 10 | 187 | | | | 409 |
| " A-4 | I | 74 | 8 | 7 | 2 | 5 | 97 | 4 | 4 | 5 | 6 | 214 | | | | 426 |
| " " | I | 63 | 5 | 1 | 0 | 8 | 57 | 0 | 7 | 3 | 7 | 116 | | | | 267 |
| " " 5 | I | 42 | 2 | 1 | 0 | 3 | 33 | 0 | 1 | 0 | 2 | 62 | | | | 146 |
| " " " | II | 43 | 13 | 1 | 0 | 6 | 39 | 0 | 2 | 3 | 4 | 76 | | | | 187 |
| " " 6 | I | 47 | 7 | 2 | 0 | 5 | 59 | 0 | 3 | 4 | 5 | 130 | | | | 262 |
| " B-1 | I | 39 | 4 | 1 | 0 | 9 | 40 | 1 | 4 | 6 | 7 | 79 | | | | 190 |
| " " | I | 61 | 10 | 6 | 1 | 6 | 57 | 3 | 5 | 4 | 5 | 127 | | | | 285 |
| Totals | 10 cars | 543 | 73 | 31 | 3 | 67 | 537 | 8 | 41 | 40 | 53 | 1201 | | | | 2597 |
| 574 | $A_2$ Wx+ : 76 | $A_2$ wi : 75 | | var. Wx+ : 5 | | 78 var. | | wi = 1303 | | = 11.5% recombination | | | | | | |

| | | Wx++ | wi | spm | Spm | ♀ × | $a_2$ bt wi | nospm ♂ | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7307 B-2 | I | 74 | 15 | 8 | 5 | 19 | 90 | 1 | 4 | 4 | 14 | 206 | | | | 440 |
| " " | I-1 | 28 | 4 | 3 | 1 | 6 | 29 | 1 | 5 | 4 | 5 | 63 | | | | 149 |
| " " | I-2 | 43 | 8 | 2 | 0 | 10 | 46 | 0 | 0 | 4 | 0 | 103 | | | | 216 |
| Totals | 3 cars | 145 | 27 | 13 | 6 | 35 | 165 | 2 | 9 | 12 | 19 | 372 | | | | 805 |
| 158 | $A_2$ Wx+ : 33 | $A_2$ wi : 37 | | var. Wx+ : 174 | | var. wi | | = 402 | | = 17.4% recombination | | | | | | |

| | | Wx+ 1 wi spm | plus 1 spm | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7307 B-3 | I | 24 | 4 | 6 | 1 | 31 | 50 | 1 | 4 | 3 | 5 | 155 | | | | 284 |
| " | II | 33 | 2 | 1 | 0 | 32 | 50 | 2 | 1 | 5 | 4 | 151 | | | | 281 |
| " " | I-2 | 25 | 2 | 1 | 0 | 19 | 33 | 2 | 2 | 2 | 4 | 70 | | | | 160 |
| " " | I-3 | 58 | 7 | 3 | 0 | 55 | 93 | 3 | 3 | 8 | 10 | 189 | | | | 429 |
| Totals | 4 cars | 140 | 15 | 11 | 1 | 137 | 226 | 8 | 10 | 18 | 23 | 565 | | | | 1154 |
| 151 $A_2$ | Wx+ : 16 $A_2$ wi : | | | 145 var. | | Wx+ : 236 | | var. wi | | = 548 | | | | | | |
| 7307 B-4 | I | 45 | 4 | 4 | 0 | 52 | 70 | 3 | 0 | 6 | 14 | 159 | | | | 357 |
| " 4 | I-1 | 47 | 3 | 4 | 2 | 68 | 93 | 2 | 4 | 8 | 15 | 227 | | | | 474 |
| Totals | 2 cars | 92 | 7 | 8 | 2 | 120 | 164 | 5 | 4 | 14 | 29 | 386 | | | | 831 |
| 100 $A_2$ | Wx+ : 9 $A_2$ wi : | | 125 | var. Wx+ : | | 168 var. | | wi = 402 | | | | | | | | |
| 7307 B(4) | I-2 + $a_2$ bt Wx+ nospm | 53 | — | 3 | — | 145 | | 11 | | 29 | | 232 | | | | 473 |

7307B-2 = varieties tested have speeds only of A2 with few exceptions.

7307B-3 and B-4. : 25μm and 45μm patterns - all 45μm patterns, few speeds of A2 only.

Linkages - BI kernels in 7307B ③ I ear =

| | 25μm pattern | | 45μm pattern | |
|---|---|---|---|---|
| | W × BI | μ BI | W × BI | μ BI |
| 7307B ③ I | 21 | 26 | 10 | 24 |
| 7307B ④ I | 42 | 12 | 10 | 58 |
| " ④ I-1 | 58 | 16 | 10 | 78 |
| Totals 7307B ④ | 100 | 28 | 20 | 136 |
| | 128 | | 156 | |

Reference for D, Table 2. $a_2$ m-1 BE / $a_2$ s bf W x + / wx Spw - active + $a_2$ bf wx no Spw

| | | Uniform Pis BE Wx | Uniform Pis BE wx | Uniform Pis bf Wx | Uniform Pis bf wx | var. BE Wx | var. BE wx | var. bf Wx | var. bf wx | Colorless BE Wx | Colorless BE wx | Colorless bf Wx x wx | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7313 A- | 2 E | 83 | 5 | 2 | 1 | 6 | 67 | 0 | 3 | 3 | 3 | 193 | | 366 |
| " B- | 4 E-2 | 25 | 2 | 1 | 0 | 8 | 35 | 0 | 0 | 1 | 0 | 45 | | 117 |
| Totals | | 108 | 7 | 3 | 1 | 14 | 102 | 0 | 3 | 4 | 3 | 238 | | 483 |

111 $A_2$ Wx : 8 $A_2$ wx ; 14 var. Wx : 105 var wx = 238 9.2% recombination

Year 1957

Reference for A, table 3.

$a_2 m_1$ BI / $a_2 bt$ W+ / $m_4$ Spm - active × $a_2 bt$ $m_4$ no Spm

| | | Uniformly Pigmented BI | | Uniformly Pigmented bt | | variegated BI | | variegated bt | | colorless BI | | colorless bt | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plant no. | | W+ | $m_4$ | W+ | $m_4$ | W+ | $m_4$ | W+ | $m_4$ | W+ | $m_4$ | W+ + $m_4$ | | Totals | |
| 7309A- | 1 | 38 | 11 | 0 | 1 | 5 | 32 | 1 | 2 | 4 | 4 | 93 | | 191 | |
| " | 3 I | 45 | 11 | 3 | 0 | 7 | 41 | 0 | 3 | 7 | 3 | 112 | | 232 | |
| " | 4 I-1 | 57 | 2 | 1 | 0 | 8 | 60 | 0 | 4 | 2 | 5 | 118 | | 257 | |
| " | 5 I-1 | 76 | 10 | 5 | 1 | 11 | 68 | 2 | 3 | 4 | 5 | 158 | | 343 | |
| " | 8 I | 41 | 2 | 4 | 0 | 5 | 34 | 0 | 6 | 4 | 6 | 98 | | 200 | |
| Totals | 5 ears | 257 | 36 | 13 | 2 | 36 | 235 | 3 | 18 | 21 | 23 | 579 | | 1223 | |

270 A: W+ : 38 A: $m_4$ : 39 var. W+ : 25 3 vars. $m_4$ = 600 12.8 % recombination

Table 15

Year 1957

$a_2$ mi (class II) BI | $a_2$ bf Wx + / cm Spm-detroit ♀ × $a_2$ bf cm No Spm of

$a_2$ mi BI (class II) BI | $a_2$ mi-1 (class II) BI " " " × "

(7308 A-4, B-2, B-4)

| | | | Uniformly Pigmented | | | | Colorless, spots of color | | | | Colorless | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Table | No. of | BI | | bf | | BI | | bf | | BI | | bf | | % |
| Culture | reference. | cars. | Wx | cm | Wx | cm | Wx | cm | Wx | cm | Wx | cm | Wx and cm | Totals | Recombination |
| 7456 | A, Table 2 | see Table 10A | | | | | | | | | | | | | 11.1 |
| 7306A B | B Table 2 | 3 | 101 | 23 | 4 | 3 | 22 | 104 | 0 | 1 | 2 | 7 | 248 | 515 | 18.5 |
| 7307A, B-1 | C Table 2 | 10 | 543 | 73 | 31 | 3 | 67 | 537 | 8 | 41 | 40 | 53 | 1201 | 2597 | 11.5 |
| 7307B-2 | " " | 3 | 145 | 27 | 13 | 6 | 35 | 165 | 2 | 9 | 12 | 19 | 372 | 805 | 17.4 |
| " B-3 | " " | 4 | 140 | 15 | 11 | 1 | 137 | 226 | 8 | 10 | 18 | 23 | 565 | 1154 | |
| " B-4 | " " | 2 | 97 | 7 | 8 | 2 | 120 | 164 | 5 | 4 | 14 | 29 | 386 | 831 | |
| 7313 | D " " | 2 | 108 | 7 | 3 | 1 | 14 | 102 | 0 | 3 | 4 | 3 | 238 | 483 | 9.2 |
| 7306B-2 | B Table 2 | 1 | 28 | 2 | 1 | 0 | 24 | 60 | 1 | 1 | 7 | 1 | 133 | 258 | |
| 7309A | A, Table 3 | 5 | 257 | 36 | 13 | 2 | 36 | 235 | 3 | 18 | 21 | 23 | 579 | 1223 | 12.8 |
| 7308A4, B-2, B-4 | B Table 3 | 5 | 355 | 53 | — | — | 37 | 331 | - | - | 0 | 1 | — | 777 | 11.8 |
| 7308B-1 | B Table 3 | 3 | 92 | 22 | 7 | 3 | 12 | 121 | 3 | 7 | 8 | 15 | 219 | 509 | 14.9 |
| " | " " | | | | | | | | | | | | | | |

7572

| | uniform pigmented BE | | bt | | variegated - BE wt | | | | var. bt* | | colorless BE | | bt | | Totals |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | wt | mt | wt | mt | 2Spm | BSpm | 2Spm | BSpm | wt | mt | wt | mt | | | |
| 7572-1 | 91 | 13 | 3 | 1 | 1 | 21 | 3 | 96 | 1 | 2 | 4 | 1 | 219 | | 456 |
| " -2 | 47 | 10 | 4 | 1 | 0 | 8 | 0 | 45 | 1 | 2 | 11 | 11 | 114 | | 254 |
| " -2 | 24 | 10 | 2 | 0 | 0 | 6 | 0 | 30 | 0 | 0 | 0 | 6 | 65 | | 143 |
| " -3 | 59 | 17 | 2 | 0 | 0 | 14 | 0 | 73 | 0 | 7 | 11 | 3 | 154 | | 340 |
| " -6 | 7 | 1 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 1 | 26 | | 43 |
| " -7 | 53 | 7 | 7 | 0 | 0 | 6 | 0 | 34 | 0 | 2 | 3 | 3 | 96 | | 211 |
| Totals | 281 | 58 | 18 | 2 | 1 | 59 | 3 | 282 | 2 | 13 | 29 | 25 | 674 | | 1447 |

299 $A_2$ wt: 60 $A_2$ mt : 62 var wt : 298 var mt = 719 16.9 % recombinant wt

7572-3 ♀ × 7537 ♂ - ① $a_2$ mt (clear) bt / $a_2$ bt, mt mt, 100 Spm

all clear sheet

| | | uniflowers Pigmented | | | | variegated | | | | Colorless | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | BI | | bt | | BI | | bt | | BI | | bt | | | |
| Plant no. | | Wt | | wt | | Wt | | wt | | Wt | | wt | | Wt + wt | Totals |
| 7560-1 | I | 3 | 78 | 0 | 5 | 78 | 8 | 4 | 0 | 7 | 15 | | | 166 | |
| " -1 | I-1 | 7 | 98 | 0 | 5 | 113 | 10 | 8 | 8 | 9 | | | | 218 | |
| " -5 | I | 7 | 79 | | 1 | 98 | 11 | 5 | | 7 | 5 | | | 176 | |
| Totals | | | | | | | | | | | | | | | |
| 75603 | ~~pollen~~ t | 22 | 21 | 1 | 0 | 22 | 23 | 0 | 0 | 2 | 4 | | | 54 * | |
| 7560-6 | | 31 | 31 | 4 | 3 | 28 | 36 | 2 | 0 | 6 | 5 | | | 136 | |
| | totals | 53 | 52 | 5 | 3 | 50 | 59 | 2 | 0 | 8 | 9 | | | 190 | |
| 75604-1 | I | 7 | 13 | 0 | 0 | 76 | 56 | 2 | 1 | 1 | 8 | | | 161 | |
| " -4 | I-1 | 23 | 18 | 1 | 1 | 88 | 76 | 2 | 4 | 5 | 8 | | | 210 | |
| Totals | | 30 | 31 | 1 | 1 | 164 | 132 | 4 | 5 | 6 | 16 | | | 371 | |

7

F02

Table 15

| | Uniformly Pigmented BE | | bt | | var. BE | | bt | | Colorless BE | | bt | | | Totals | % C.O. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wx | ux | Wx | ux | Wx | ux | Wx | ux | Wx | ux | Wx | ux | Wx+ux | | |
| 7313 A② t | 83 | 5 | 2 | 1 | 6 | 67 | 0 | 2 | 3 | 3 | | | 193 | 365 | 7.8 |
| 7313 B-H I | 39 | 14 | 1 | 0 | 74 | 58 | 4 | 1 | 5 | 7 | | | 206 | 409 | |
| " B-H t-2 | 25 | 2 | 1 | 0 | 7 | 35 | 0 | 0 | 1 | | | | 45 | 116 | |
| Totals | 64 | 16 | 2 | 0 | 81 | 93 | 4 | 1 | 6 | 7 | | | 251 | 525 | |
| 7312-5 | 1) 117 | 2) 7 | – | – | 3) 11 | 4) 117 | – | – | 0 | 0 | – | – | – | 252 | 7.1 |
| 7547 A① t-1 | 1 | 21 | 0 | 1 | 12 | 1 | 0 | 0 | 1 | 2 | | | 23 | 67 | |
| " A② I | 11 | 75 | 0 | 4 | 101 | 7 | 11 | 1 | 9 | 8 | | | 184 | 411 | |
| " A① t | 5 | 73 | 0 | 3 | 78 | 4 | 8 | 0 | 10 | 8 | | | 142 | 331 | |
| " A③ I | 11 | 72 | 3 | 13 | 70 | 2 | 9 | 0 | 13 | 10 | | | 145 | 348 | |
| Totals. | 28 | 241 | 3 | 21 | 261 | 14 | 28 | 1 | 33 | 28 | | | 494 | 1152 | 7.7 |
| 31 pale Wx: | 262 pale ux: 289 var Wx: 15 var ux = 597 | | | | | | | | | | | | | | |
| 754 C② (AL) | 0 | 25 | 0 | 2 | 28 | 2 | 1 | 0 | 2 | 1 | | | 49 | 110 | 5.1 |

1) 55 AL : 62 pale
2) 2 AL : 5 pale
3) 4 AL : 7 pale
4) 49 " " : 62 " "