Ear sectors - 1957

7305 F(2)I × 7293 (26) Sector at tip of ear segregating "late mutation" pattern. Rest of ear = no spin action

7461 D(5) × 7293 (30) large basal sector - inactive spin

" E(2) × 7321 B(5) large sector - inactive spin

" F(1)I × 7293 (71) 1/2 of ear = inactive spin

7322 A(1)I × 7293 48

1. Compare Spin from a_2^{m+} culture with that from a_2^{m-1}

7112 compared to 7113.

2. Original state - 7271 (from 6902C-1)

7274

3. States used in 1958 tests -

Early - 7606, 7604, 7543

spotted - 7542

late - 7537C-1

"A_2"

Tests on a_2^s/a_2^s + Spin.

4. Photos - state changes from early - ears.

5. a_2^{m} BI / a_2^{m} bt cuts a_2^s + Spin

(~~[illegible]~~ early) (late)

7320

6 Transposition of Spin -

W & Spin / ut + tests.

Derivatives of 7109 B-1

Summer 1957

From tiller = 7306

" " = 7307

" pollen = 7312, 7313

" Gen I = 7456

Summer 1958

7312-5 = 7547

7312-6 = 7582

7306A-1 = 7560

7307A-3 = 7561

7307A-5 = 7562

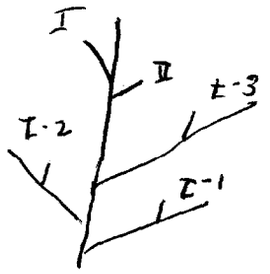
7307B-2 = 7572

7456D-5 = 7598
7599

7456C-3 = 7600

1956

7109 B-1



Ear I. 1957

I "A_2" × 7102-10 a_2 bt pr y Wx. inactive Spm until late.

7456 A = Deep A_2 color = 4 plants tested = no Spm

7456 B = From "A_2" light color = 5 plants tested. 4 no Spm : 1 Wx x/no Spm delayed

7456 E = " A_2 bt. = 3 tested. 2 no Spm : 1 delayed actum Spm.

Breakdown

7546 C = 4 plants tested Delayed actum Spm.

From "a_2 → A_2"

7546 D = 6 plants tested - Delayed actum Spm.

Conclusion.

All plants in cultures derived from ear I. Spm behaves as in parent plant. Cycle of change - inactive in mam, active in little

Tests of progeny in 1958

7546D-5 ear I × ~~7598~~ × 7293 (15) a_2 bt pr y Wx

gave 7598. A_2 kernels selected. 8 plants tested

7 plants = no Spm

1 " = Wx Wx inactive Spm to active late.

7456C-3 $^{t-1}$ x 7293-15

Wx+/wxSpm - delayed action. Like 7109B-1 in type.

gave 7600 1958. Late but uniform sph kernels chosen

Behavior as in 7109B-1 = inactive Spm in main, active in tiller. 11 plants tested. all Wx+/wx Spm

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Tiller ear of 7109B-1 Active Spm (Wx+/wxSpm).

1957 = 7306

A = $a_2 \to A_2$ 2 Spm endogenous. 6 plants.

Plants A① ④ ⑤ ⑥ Active Spm

A②, A③ = like parent Spm in action

Plant 7306A-3 = has transposed Spm

1958. From 7306A-1 = Wx+/wxSpm active = 7560

7306A-1^{II} x 7321A-2 a_2 bt pr wx no Spm

7560 = from "$a_2 \to A_2$" 2 Spm kernels. Wx kernels

6 Plants = all variegated, all tested

1 = delayed action Spm in I

2 plants = C.O. = Wx Spm/wx+

2 " = Transposed Spm { 1 = 1 Spm = delayed action like parent 7109B
1 = 2 Spm.

7306B = from "4 spm" kernels = 2 plants. Both have 2 active Spms

---

From Tiller-2 = 7307 : 7109B-1I × 7102-2 a_2 bt pr y Wx

A = from $a_2 \to A_2$, 2 spm underspms : 6 plants. ~~all have~~

~~active Spm~~. 5 = Wx+/ wx Spm check action phase

1 = Wx/ Wx 1 Spm.

1958 = 7307A-3^{I} ~~Wx/wx 1 Spm~~ Wx/wx Spm × 7321B-8 a_2 bt pr y wx kernel

gave culture 7561 from $a_2 \to A_2$, 2 Spm kernels. Wx kernels

5 plants tested: ① = inactive Spm in I

② = Wx Spm/ wx+ = delayed active Spm

③ " " active

④ " " " in I + 2. no increase in II

⑤ = " " active.

1958 = 7307A-5 gave 7562.

From 7307A-5^{I} × 7321B-1 a_2 bt pr y wx

7562 from 3 $a_2 \to A_2$ 2 Spm Wx kernels.

all were Wx Spm/ wx +. In ③, no increase of Spm in I

active in tiller

7307 B = from $a_2 \to A_2$, 4 Spm pattern = 4 plants.

B-1 = W++/ w+ Spm

B-2 = W+++/ w+ Spm Spm

B-3 = W++/ w+ Spm +1 Spm

B-4 = " " " " +1 "

Summer 1958 = 7572 from 7307B (2)^{II} x 7293 (52) a_2 bb pg Tex

From "$a_2 \to A_2$" high dose Spm. : 7 plants.

Plants (1), (2), (3) (6) (7) = W+ +/ w+ Spm Spm

" (4) = W+ W+ delayed action Spm

(5) = W++/ w+ Spm = delayed action Spm

7312 = From 7271B-2 × 7109B-1
a_2^{m1} (spotted) BI / a_2 sbt

6 plants from a_2^{m1} ♀ / a_2^{m1} ♂ that have active spm.

Plants ①, ②, ③, ④, ⑥ = like parent 7109B-1 for spm

" ⑤ = W++ / ux spm active. ✓✓

1958 = 7547 From 7312 ⑤ × 7321B ① a_2 bt pr yex
W+ / ux spm

A from $a_2 \to A_2$ (pale) state = 4 plants.

Plants ① ② ③ = W+ spm / ux+
active

Plant ④ ⑤ = inactive spm in most of plant.

B from "$a_2 \to A_2$" (A_2) state = 1 plant = W++ / ux spm active
Like 7109B-1 in spm action.

C " " " " = 2 plants.

7312. From 7271B-2 × 7109B-1 pollen
a_2^{m-1} (spotted) BT / a_2 bt

6 plants from a_2^{m-1} ♀ / a_2^{m-1} ♂

Plants ①, ②, ③, ④, ⑥ = Spm acts as in parent, 7109B-1
Plant ⑤ = Wx + / wx Spm. nearly all kernels having Spm show active phase.

1958 = 7547 From 7312-5 × 7321B-1 a_2 bt pr y wx

A = a_2^{m-1} (spotted) BT Wx kernels.

Active in many Wx Spm / wx + = A ②

Inactive in I = A ①, A ④ - A ⑤ Sectorials

Delayed action in I = A ③.

B = from a_2^{m-1} (A_2) BT Wx kernels.
C = " " " " "

Inactive in I = B
Delayed in I = C - ①
Active in I = active in I

1958 = 7582 From 7312-6 × 7293-30 a_2 bt pr y Wx
Wx / wx Spm - delayed action

A = from "$a_2 \to A_2$" (A_2) BT pr Wx late spl kernel.
I = very delayed action Spm
I = delayed action Spm.

B = from pale BI pr y Wx (spot of ex) 3 plants

Pale main stalk, var. tillers for ① + ③

No evidence of Spm in ②. Very delayed action Spm possible

7313 = From 7270①^{I} A_2BI/a_2sbl × 7109B-1 from main stalk pollen

A. from $a_2 \to A_2$ (1 dose Spm)

A① = like 7109B-1 in Spm action

✓✓A② = fully active Spm

B from $a_2 \to A_2$ (high dose Spm)

①, ②, ③, ④ = like 7109B-1

④ = 2 Spm in I, 1 Spm in I^{-1} ; Wx + / Wx Spm in I^{-2}

1958

Derivatives of 7109 B-2 = W++/wx Spun - active

7308 D-1 [illegible] plants in F_1 [illegible] in spun activity. matches [illegible]

7543 t-2 7605

7556 " 7607

m 7564 { large pale areas - active spun

m 7565 { A - large pale areas - " "
B - speckling.

m 7566 { A - large pale areas - some delayed action
B - 2 spun pattern

t-1 7567 - high dose spun

t-1 7568 - 2 dose spun [1 exp.]

m 7585 { A - no pale areas - delayed action spun [illegible]
B - large " "

m 7588

t-1 7597

t-2 7601

7308 D-2

7538

7539

m 7569

m 7570 - C important

t-1 7571

m 7575

m 7583

t-1 ~~7589~~

t-1 7591

7595 - [illegible]

t-1 - 7602

t-1 7610 [illegible]

7308 A-4

7546 - active spun

7563 - " "

7570 " " (some delay in I) in 2 plants

7308 C-6

7573 ✓✓

7576 - 1 active spun

7308 A-5

7554 - 7555

7310-2 (+7380 D-2)

7575

7308 A ①

7569 - some delayed action in ③ ⑤ ⑦

1957 Derivatives of 7109 B-2

7309 - from ear I

7308 - " " II

7310 } from pollen
7311 }

Effect of Spin on pattern of var. use pole-leaf state of a_2^{m-1}

a_2^s / a_2^s ♀ x 7606 A ♂ = shows spin timing

Spin^w –
delayed action –
Fully active –

Type of Spin in 7538 plants =
pole-leaf a_2^{m-1} ♀ x 7538 ♂
no Spin

Pax 1958
rest of inactive Spm

Wx Spm ♀

7543B (2) I
7543
7545C (1) (2) clear
7571 (3)
7584A (3)
" A (6)
" A (7)
7586A - do
" B - do

Inactive Spm ♀

7544B - check
7545B
7547A (1) - use Wx Spm inact / wx + good
7574 (5)
[7584B (2)]
7585B (3)
7586C
7586D
7587C
7603C (4)

Wx+/wx Spm - active

7583A I II (2) T x 7538 (14) 1 Spm

Tables -

Wx+ / ux Spm - active

7306 A - 1, 2

7370 A - 2 3 4 5 6

B - 1, 2

Transposition

Wx ux; 1 Spm

7306 A ③ I

7560 ③, ⑥

Wx ux - 2 Spm

7313 B 4

Wx + / ux Spm plus ~~2~~ 1 Spm

7306 B - 2

7307 B ③ ④

7307 A ② I

7307 B ② = Wx+ / ux Spm Spm

Wx + / ux Spm + 2 Spm

7306 T - 2

Wx Spm / ux +

7561 ③ ④ ⑤

7562 ①, ②, ③

7572 ① ② ③ ⑤ ⑥ ⑦

7777 A.

Year 1958 · · Class II state. $a_2 m^1 (A_2)$ BI / a_2 bt ; Wx+ / wx spur-active ♀ × a_2 bt wx no spur ♂

Plant No		uniformly Pigmented BI Wx	BI wx	bt Wx	bt wx	var. BI Wx	BI wx	bt Wx	bt wx	Colorless BI Wx	BI wx	bt Wx+wx		Totals
7546 ① I		64	10	1	0	4	66	0	1	6	6	137		295
" ③ I		96	5	5	0	12	88	0	8	8	8	209		439
" ③ II		84	10	6	1	9	74	0	2	5	15	155		361
" ③ I		54	8	8	0	4	40	2	4	3	3	93		219
" ④ I		70	4	7	0	9	83	1	7	7	6	159		353
" ⑤ I		20	10	3	0	6	25	0	2	7	8	75		156
" ⑤ I		15	3	4	0	3	26	0	0	2	1	49		103
" ⑦ I		39	6	0	0	6	35	2	3	6	7	100		204
" ⑦ I		31	1	2	0	4	21	0	1	1	2	46		109
" ⑩		46	5	2	2	4	54	1	3	3	4	118		242
" ⑪ I		65	5	3	2	10	64	1	3	3	4	156		316
" ⑫ I		66	9	4	0	10	57	3	2	4	6	167		328
Totals	12 ears	650	76	45	5	81	633	10	36	55	70	1464		3125

695 A_2 Wx : 81 A_2 wx ; 91 var Wx : 669 var wx = 1536 11.2 % recombination

7566 A ② I		89	9	8	4	4	93	1	6	8	14	173		409
" A ④ I		86	13	18	2	5	83	1	11	11	11	179		420
" A ④ I		66	12	8	3	12	77	1	14	12	13	128		346
Totals.	3 ears.	241	34	34	9	21	253	3	31	31	38	480		1175

275 A_2 Wx : 43 A_2 wx : 24 var Wx : 284 var wx = 626 10.7 % recombination

7569 ② I		24	6	8	0	2	31	0	4	3	3	64		145
" ② I		104	15	9	0	13	100	1	19	17	5	187		470
" ③ t-2		48	14	7	0	8	31	3	3	8	5	114		241
" ④ I		43	10	9	0	10	56	1	7	10	9	117		272
" ⑥ I		41	9	2	1	4	33	0	6	5	6	88		195
" ⑥ t-2		41	4	5	1	8	45	0	7	11	6	88		216
Totals		301	58	40	2	45	296	5	46	54	34	658		1539

341 A_2 Wx : 60 A_2 wx : 50 var Wx : 342 var wx = 793 13.8 % recombination

		Uniformly Pigmented				variegated				Colorless			
		BI		bI		BI		bI		BI		bI	
Plant No.		W+	w	W+	w	W+	w	W+	w	W+	w	W+ and w	Totals
7572 ①I	T	91	13	3	1	22	99	1	2	4	1	219	456
" ②I		47	10	4	1	8	45	1	2	11	11	114	254
" ②E		24	10	2	0	6	30	0	0	0	6	65	143
" ③I		59	17	2	0	14	73	0	7	11	3	154	340
" ⑥I		7	1	0	0	4	4	0	0	0	1	26	43
" ⑦		53	7	7	0	6	34	0	2	3	3	96	211
Totals		281	58	18	2	60	285	2	13	29	25	674	1447
299 A2 W+ : 60 A2 w : 62 var W+ : 298 var w = 719												16.9 % recombination	
7573 B①I	T	27	4	2	1	3	34	0	2	6	0	63	142
" B③E		42	4	2	1	2	32	0	4	5	2	85	179
" B④I		90	5	5	0	3	71	0	4	6	7	151	342
Totals	3 ears	159	13	9	2	8	137	0	10	17	9	299	663
168 A2 W+ : 15 A2 w : 8 var W+ : 199 var w = 338												6.8% recombination	
7575 A I	T	81	7	3	0	11	72	0	1	6	2	151	334
" II													
		84 A2 W+ : 7 A2 w : 11 var W+ : 73 var w = 175 = 10.3% recombination											
7575 B		-	-	69	6	-	-	11	96	-	-	191 = 9.3% recombination	
7576 I	T	55	14	5	0	6	70	0	3	3	7	129	292
" II		54	5	3	2	3	68	0	3	4	7	112	261
Totals	2 ears	109	19	8	2	9	138	0	6	7	14	241	553
117 A2 W+ : 21 A2 w : 9 var W+ : 144 var w = 291 10.3% recombination													

		Uniformly Pigmented				Variegated				Colorless			
		BI		bt		BI		bt		BI		bt	
Plant No		Wt	ery	Wt	ery	Wt	ery	Wt	ery	Wt	ery	Wt + ery	Totals
7588 B ① II		56	2	2	0	11	43	0	1	1	2	95	213
" B ① I		75	13	3	0	9	72	0	4	5	5	163	349
" B ① I-2		34	4	2	0	6	47	1	1	1	6	86	188
" B ② II		21	1	2	0	3	16	0	1	3	2	43	92
" C ① I		60	12	2	0	0	67	0	8	8	4	163	324
" C ② I		34	7	1	0	6	31	0	1	1	1	66	148
" C ② II		55	10	4	0	16	43	0	3	5	7	147	290
" C ② I		43	4	2	2	18	45	0	6	1	4	102	220
" D ① I		81	11	12	0	10	81	2	5	2	9	189	402
" D ① I		70	4	5	1	8	83	0	6	5	7	152	341
Totals	10 ears	529	68	35	3	80	528	3	36	32	47	1206	2567

564 A_2 Wt : 71 A_2 ery ; 83 var. Wt ; 564 var. ery = 1282 = 12.0% recombination

7591 A-② I		51	6	8	2	4	47	1	8	8	4	112	251
" A ④ I		29	4	2	0	2	37	0	4	11	3	82	174
" A ⑥ I		15	1	2	0	3	16	0	2	1	1	38	79
" B ① II		11	0	0	0	1	7	0	0	2	1	20	42
" B ② II		49	9	2	0	2	39	0	6	4	8	111	230
" B ③ I-1		43	9	8	1	7	47	0	3	9	3	109	239
" B ⑤ I		17	2	1	0	6	15	0	2	4	4	44	95
Totals	7 ears	215	31	23	3	25	208	1	25	39	24	516	1110

238 A_2 Wt : 34 A_2 ery : 26 var. Wt : 233 var. ery = 531 = 11.3% recombination

7595 A-① I		11	0	4	0	3	8	0	1	5	1	28	61
" A-① II		50	5	9	3	5	46	1	8	11	7	130	275
" A ⑥ I		16	3	1	1	1	14	0	1	5	1	36	79
" A ⑦ I		7	1	1	0	0	13	0	2	3	0	27	54
" B ②		4	2	0	0	0	4	1	0	0	0	3	14
" B ③		5	0	0	0	1	3	0	1	1	1	13	25
" B ④ I		43	4	2	3	3	35	1	4	4	5	74	178
" B ⑤ I		22	2	1	0	2	15	0	2	4	3	35	86
Totals	8 ears	158	17	18	7	15	138	3	19	33	18	346	772

176 A_2 Wt : 24 A_2 ery : 18 var. Wt : 157 var. ery = 375 = 11.2% recombination

		Uniform Pigmented				variegated				Colorless				
		BI		bt		BI		bt		BI		bt		
Plant no.		W+	w	W+	w	W+	w	W+	w	W+	w	W+ and w		Total
7597A① I		82	8	9	2	8	81	2	6	6	8	196		408
" A⑤ I		87	10	4	1	1	88	2	3	5	6	183		390
" B② I		28	22	2	0	4	24	0	0	2	0	49		111
Totals	3 ears	197	20	15	3	13	193	4	9	13	14	428		909

212 F_2 W+ ; 23 F_2 w+ ; 17 var. W+ ; 202 var. w+ = 454 = 8.8% [illegible]

Summary table. Wx + / wx Spm- ♀ × a_2 bt wx no Spm ♂

a_2^{m-1} (A_2) active

Phenotype of a_2^{m-1} carrying kernels.

Culture	no of ears	Origin	Uniformly Pigmented Wx	Uniformly Pigmented wx	Variegated Wx	Variegated wx	Totals	% recombination
7306-7313	22		1133	171	157	1134	2595	12.6
7308A+B	5		355	53	37	331	776	11.8
7563B③	2		312	70	42	318	742	15.2
7546	12	7308A ④	695	81	91	669	1536	11.2
7566	3	7308D①	275	43	24	284	626	10.7
7569	6	7308D②	341	60	50	342	793	13.8
7572	6	7308B②	299	60	62	298	719	15.5
7573B	3	7308C⑥	168	15	8	147	338	6.8
7575A	1	7308D[illegible]	84	7	11	73	175	10.3
" B	1		69	6	11	96	182	9.3
7576	2	7308[illegible]	117	21	9	144	291	10.3
7588	10	7308D①	564	71	83	564	1282	12.0
7591	7	[illegible]	238	34	26	233	531	11.3
7595	8	[illegible]	176	24	18	157	375	11.2
7597	3	[illegible]	212	23	17	202	454	8.8
Totals			5038	739	646	4992	11,415	
7570A		[illegible]	364	61	71	359	855	15.4

$a_2^{m-1}(A_2)$ = class II

Summary table 1958 Wx spin-active / wx + × a_2 bt wx no spin

	no ears		uniformly pigmented Wx	uniformly pigmented wx	variegated Wx	variegated wx	Total	% recombination		
7547	1		0	27	29	3	59	5.1		
7560	4		19	266	308	30	623	7.8		
7561	4		36	341	316	18	711	7.6		
7562	4		27	215	193	6	441	7.4		
7563	17		161	1543	1577	131	3412	8.5		
7570B	12		66	767	798	72	1703	8.1		
Totals	42		309	3159	3221	260	6949			

Year 1958

Culture 7570 $a_2^{m'}(A_2)$ BI / a_2 bt (class II) ♀ × a_2 bt wx no spm ♂

A. Wx+ / wx spm - actual

Plant no.		uniformly pigmented BI Wx	BI wx	bt Wx	bt wx	variegated BI Wx	BI wx	bt Wx	bt wx	colorless BI Wx	BI wx	bt Wx + wx		Totals
7570 A ①$^{t-1}$		12	0	4	0	3	6	0	1	6	3	18		53
" A ②^{I}		57	6	4	2	6	58	1	4	8	9	109		264
" A ②^{II}		23	1	2	1	3	15	0	1	1	3	50		100
" " $^{t-1}$		36	3	2	0	10	27	1	5	4	3	70		161
" A ③^{I}		16	3	1	0	1	14	0	2	2	4	24		67
" " ③^{II}		30	4	5	0	5	25	0	4	2	2	25		102
" A ④$^{t-1}$		9	2	2	0	1	11	0	0	2	3	31		61
" A ⑤^{I}		13	4	5	1	2	15	0	1	6	0	45		92
" A ⑤$^{t-1}$		44	12	7	1	11	40	3	4	15	15	101		253
" A ⑤$^{t-2}$		47	7	9	4	13	58	0	11	13	19	110		291
" A ⑥^{I}		6	2	0	0	2	15	0	1	3	2	23		54
" A ⑥^{t}		18	3	5	1	3	28	1	3	10	2	72		146
" A ⑦^{II}		7	3	0	1	2	7	3	3	3	0	20		49
Totals	13 ears.	318	50	46	11	62	319	9	40	75	65	698		1693

364 A₂ Wx : 61 A₂ wx : 71 var. Wx : 359 var. wx = 855 15.4% recombination

B. Wx spm / wx$_I$ +

7570 B-①^{I}		3	63	0	7	64	3	11	0	7	1	118		277
" B ①^{I}		10	61	1	6	71	4	8	0	9	5	121		296
" B ①^{t}		1	16	0	2	18	0	6	0	3	7	41		94
" B ②^{I}		2	25	0	1	31	2	5	0	2	4	71		143
" B ②^{t} pollen		5	70	0	6	70	9	3	0	13	12	114		302
" " "		10	113	0	16	88	14	10	1	10	14	214		490
" " "		9	105	1	18	110	10	11	0	21	23	266		574
" " "		4	79	0	5	85	4	4	0	4	5	130		320
" " "		8	48	0	5	65	8	2	1	7	6	142		292
" " "		5	44	2	6	44	6	11	1	6	6	121		252
" B ③$^{t-1}$		0	6	1	1	4	1	3	0	1	0	15		32
" B ③$^{t-2}$		3	53	1	11	65	5	9	3	13	12	139		314
Totals.	12 ears	60	683	6	84	715	66	83	6	96	95	1492		3386

66 A₂ Wx : 767 A₂ wx : 798 var. Wx : 72 var. wx = 1703 8.1% recombination

Year 1958 — Class II — a_2 mi (A_2) BI / a_2 bt w+ spur - actual / wt + q × a_2 bt wt no spur of 7

		uniform pigmented BI		uniform pigmented bt		variegated BI		variegated bt		colorless BI		colorless bt			
Plant no.		w+	wt	w+	wt	w+	wt	w+	wt	w+	wt	w+	wt	w+ and wt	Totals
7547C-2		0	25	0	2	28	2	1	0	2	1			49	110
0 A_2 w+ : 27 A_2 wt : 29 var. w+ : 3 var wt = 59 5.1% recombination															
7560 ① I		3	78	0	5	78	8	4	0	7	5			166	354
" ① I-1		7	98	0	5	113	10	8	1	9	7			218	476
" ① I-2		1	0	1	0	2	0	0	0	0	0			1	5
" ⑤ I		7	79	0	1	98	11	5	0	7	5			176	389
Totals	4 ears	18	255	1	11	291	29	17	1	23	17			561	1224
19 A_2 w+ : 266 A_2 wt : 308 var. w+ : 30 var wt = 623 7.8% recombination															
7561 ③ I		13	97	2	7	92	5	10	0	9	10			201	446
" ③ II		3	71	0	6	76	4	2	0	6	5			161	334
" ④ I		9	63	0	1	65	7	3	0	1	5			141	295
" ⑤ I		9	84	0	12	62	2	6	0	7	9			154	345
Totals	4 ears	34	315	2	26	295	18	21	0	23	29			657	1420
36 A_2 w+ : 341 A_2 wt : 316 var. w+ : 18 var wt = 711 7.6% recombination															
7562 ① I		10	74	0	5	56	0	5	0	8	6			154	318
" ① II		6	37	0	1	50	2	1	1	1	1			95	195
" ②		6	62	0	5	50	2	1	0	7	3			129	265
" ③ I		4	30	1	1	30	1	0	0	2	2			78	149
Totals	4 ears	26	203	1	12	186	5	7	1	18	12			456	927
27 A_2 w+ : 215 A_2 wt : 193 var. w+ : 6 var wt = 441 7.4% recombination															

		uniformly pigmented				variegated				colorless					
		BI		bt		BI		bt		BI		bt			
Plant No.		Wx	wx	Wx	wx	Wx	wx	Wx	wx	Wx	wx	Wx and wx		Totals	
7563A ①I		5	71	2	9	79	3	7	0	9	5	160		350	
" ①t-1		7	96	2	11	102	3	5	1	9	11	207		454	
" ①t-2		2	92	3	5	91	6	7	0	6	8	220		440	
" A ③I		5	67	1	9	79	8	6	0	8	7	139		329	
" " ③II		10	97	1	6	83	7	3	2	6	10	202		427	
" " ③I		15	91	0	3	105	13	6	0	8	3	199		493	= 443
" " ④I		15	108	2	7	106	9	11	1	11	4	260		534	
" ④II		8	117	1	6	110	6	5	1	8	10	228		500	
" " ④t-2		4	71	1	5	72	6	5	2	7	10	132		315	
" " ⑤I		1	86	1	6	100	5	7	0	6	11	216		439	
" " ⑤II		0	13	0	0	17	1	1	0	2	0	20		54	
" B ①I		13	112	2	12	113	13	4	0	7	9	215		500	
" " ②I		12	107	1	15	96	16	6	1	12	8	224		498	
" " ②II		10	41	1	6	68	6	4	1	6	10	129		282	
" " ②t-1		13	87	1	6	99	5	7	0	9	10	173		410	
" " ②t-2		11	85	0	11	90	9	8	0	8	20	223		465	
" " ②t-3		10	78	1	7	74	5	1	1	10	11	174		372	
Totals	17 years	141	1419	20	124	1484	121	93	10	132	147	3121		6812	

161 A2 Wx : 1543 A2 wx : 1577 var. Wx : 131 var. wx = 3412 8.5% recombination

Year 1958

	Unif. Pigmented BI Wx	Unif. Pigmented BI wy	Unif. Pigmented bt Wx	Unif. Pigmented bt wy	Variegated BI Wx	Variegated BI wy	Variegated bt Wx	Variegated bt wy	Colorless BI Wx	Colorless BI wy	Colorless bt Wx+wy	Totals
7570A ⑧ I	22	3	3	0	25	41	4	9	9	8	85	209
" " II	27	0	4	0	9	38	1	5	5	9	70	168
Totals	49	3	7	0	34	79	5	14	14	17	155	377

~~Totals~~ 56 A_2 Wx : 3 A_2 wy : 39 var. Wx : 93 var. wy = 191

7569-① I	37	6	8	0	13	40	2	6	4	5	82	
" ① II	29	5	6	1	13	38	1	2	12	16	95	
7567 I	10	12	0	0	81	89	6	6	36	20	227	487
" pollen	25	4	2	0	99	85	12	11	11	10	240	499
	22	9	2	0	94	84	3	0	16	14	215	459
Totals pollen	47	13	4	0	193	169	15	11	27	24	455	958

51 A_2 Wx : 13 A_2 wy : 208 var. Wx : 180 var. wy = 452

1/8 = 56.5

7566 B	31	3	6	0	54	58	12	9	35	24	166	398
7573A ② II	47	4	1	0	44	73	5	6	11	9	211	411
" A ③ I	49	8	3	2	70	101	2	10	8	5	160	418
" A ④ I	30	4	4	0	49	66	3	2	9	4	156	327
" A ⑤ I	31	3	1	0	33	66	3	0	3	7	122	269
" A ⑥ I	26	2	5	0	40	44	4	3	5	9	90	228
Totals	183	21	14	2	236	350	17	21	36	34	739	1653

197 A_2 Wx : 23 A_2 wy : 253 var. Wx : 371 var. wy = 844 1/4 = 211

obs 220 A_2 : 624 var. approximately 1/2 of var wx class = 25 pm pattern } see cards.
exp 211 " : 633 var " " " " " " = 4 " " }

7560 ④ I	7	13	0	0	76	56	2	1	1	8	161	325
" ④ t-1	23	18	1	1	88	76	2	4	5	8	210	436
Totals	30	31	1	1	164	132	4	5	6	16	371	761

31 A_2 Wx : 32 A_2 wy : 168 var. Wx : 137 var. wy = 368