Many palindromes

6662D , 6[illegible]6E (or, 6, one); 6689 (any [illegible]

One palindrome = 66706H ①

From 6629A ④ ② ①

6662 vars. Sh Y kernels. 6662D.

Y/Y = 3 all Spm/Spm (D②, D⑥, D⑧)

Y/y = 6 { Yspm/y+ = 2 (D①, D⑥)
Y+/y Spm = 2 (D⑦, D⑩)
Y/y; 1spm = 2 (D③, D⑤?)

6662 a, sh₂ Y kernels.

with

Y/Y = 3 3; 1 Spm

Y/y = 8 Y spm/y+ = 4
Yy spm/spm = 1
Y spm/y+ plus 1 spm = 1
Y/y ; 2 non-hulled Spm = 6.

Yy no spm = 3

6662 a sh₂ y kernels = 17 plants
9 = no spm
2 = spm/spm
1 = spm/+ ; spm +
5 = 1 spm

a,m·Sh₂ / a, sh₂	Y/y :									
Y Spm / y + =		6665E 8	6666C 7	6670C 6	6673C 6	6674C 0	—	Totals 27		
Poor test for Y, 1 Spm		1	0	0	2	0		3		
Y / y 1 Spm						2		2		
Y / y 2 Spm		1						1		
var. a,m·Sh₂ / a, sh₂ y y 1 Spm		6665F 3	6666D 5	6670D 4	6673D 1	6674D 1	13	14		
var. a,m·sh₂ / a, sh₂ Y Spm / y + poor test for Y, 1 Spm			6666E 1		6673F 1	6	1 1	1 1		
a,sh / a,sh₂ Y/y		6665G	6666G	6670E	6673G	6674F		Totals		
No Spm		11	4	2	5	2		24		
Y Spm / y +		7	6	4	10	3		30		
Y / y 1 Spm		2	0	0	0	0		2		
a,sh₂ / a,sh₂ yy		6665H	6666H	6670F	6673H	6674G				
No Spm		10	8	8	13	4		17		
1 Spm		1	5	5	4	2		43		

Summary Totals from Yy plants that had Spm = 65:

58 Y Spm / y +
4 Yy, 1 Spm
1 Yy, 2 Spm
4 1 Spm. Poor classification for Y.

Total 67

Totals for yy with Spm: 57. all had 1 Spm

Oregon, 1953

Culture No. 1954	A-1-I	A-1-II	A-3-I	A-4-I	A-6-I	A-7-I	Totals
	6665	6666	6669	6670	6673	6674	
Pale Sh2 Y Plants in field	4	5		5	6	5	25
No. Tested	3	0		3	—	—	
Pale Sh2 Y Plants	8	6		7	6	7	34
No. Tested	6	4		2	—	1	
Pale Sh2 Y Tested							
Pale Sh2 Y Tested			1				1 (-)
Var. Sh2 Y Plants	10	7		8	12	7	44
No. Tested	10	7		6	8	2	33
Var Sh2 Y Plants	3	5		5	5	4	22
No. Tested	3	5		4	1	1	14
Var Sh2 Y, Tested		1	1		1		3 (-)
Var Sh2 Y, Tested							
Colorless Sh2 Y Plants in field	21	10		6	17	5	59
No. Tested	20	10		6	15	5	56
Colorless Sh2 Y Plants in field	12	13		14	18	6	63
No. Tested	11	13		14	17	6	60

Tests of pulse plants

6665 A - 2	×	6690	9, mi sh$_2$	/	9, sh$_2$	yy	1 Spm			
6665 B - 3	×	6666 E	〃		〃		1 Spm	/	y +	
6665 B - 4	×	6690								
6665 B ⑤ F	×	6680 D	〃		〃		y y 3 Spm			
6673 B ② F	×	6704 C - 3	9, mi sh$_2$	(	citrate	)	&	9, sh$_2$	pale	
6666 F - ①		6666 E								

1954

Outer planets !!

6638 A a_1^{III}/a_1^{III} pair yy weak (stato 5718) no Spm. From 6045 ④ (X) A Table 13

6639 a_1^{III}/a_2^{III} (stato 5719A-1) pair yy no spm; From 6046 A ① × a_1^{III}/a_1^{III} yy Wx ~~B, Table 13~~ ~~A, Table 14~~

6640 a^{III} (5719A-1) $Sh_2/a_1 sh_2$ pair yy Wk wk. From 6046B ② II + 6041B ⑧ no Spm B, Table 14

6641 A a_1^{III} (5719A-1) Sh_2/a_1^{III} (5719A-1) Sh_2 yy pair weak. From 6046C-1 Ⓐ no Spm A Table 14

" B " " yy pair weak no Spm

6642 A a_1^{III} (5719A-1) Sh_2/a_1^{III} (5719A-1) Sh_2 yy pair weak no Spm From 6046C-4 I Ⓐ

" B " " " yy " " " " A. Table 14

6643 a_1^{III} (5719A-2) Sh_2/a_1^{III} (5719A-2) Sh_2 yy pair weak. From Ⓐ of A, Table 13 6080C ⑧ I

6662 C 1 pale (5719A-1) $sh_2/a_1 sh_2$; yy, P. pr weak From 6629A ④ I Ⓐ

[6665 C 1 pale (5719A-1) $sh_2/a_1 sh_2$ yy pair two cols

6666 E 1 a_1^{III-1} (5719A-1) $sh_2/a_1 sh_2$, Pair Wx Wx Y spm/y + From 6629A ⑥ II + D10 41 ④ Table 5

6669 B

6669 C 1 pale (5719A-1) $sh_2/a_1 sh_2$ Pair yy Wx weak no Spm. From 6629A-3 + D 1040 ① Table 5

6671 E 1 a_1^{III} (5719A-1) $sh_2/a_1 sh_2$ Y yy Pair Wx weak 1 spm ~~II~~ 6629 A ⑤ I + D104 ④ Table 5

6673F a,ml(5719A-1) sh2/a,sh2 Prpr 1Spm From 6629 ⑥ x D 1040 ①
Table 5

6675 G 1pab(5719A-1) sh2/a,sh2, Pr µ,yy tw,tw From 6629 A ⑦ I x D 1041 ⑧
no Spm Table 5

6678 1pab(5719A-1) sh2, Prµyy tw,tw From 6629A-⑨ E x D 1040-5
no Spm Table 5

6680 D 1a,ml(5719A-1) sh2/a,sh2 Prµyy tw,tw From 6629B ⑤ I x D. 1040 ①
Table 8
3 Spm

6680 1 a,ml(5719A-1) sh2/a,sh2 Prµyy tw,tw 1Spm From 6629B ⑨ E x
Table 8 D.1041 ④

Summer 1954.

Tests of interpretation drawn from previous observed results —

1. Tests of the absence of Spm in plants derived from pale dominant leaves in crosses involving tables 5 and 8
2. Tests of the presence of Spm and its location in variegated leaves and ears in plants derived from those in tables 6 that were Y Spm / y r.
3. Tests of number of Spm + location in plants grown from ears of leaves in table 7 in which more than 1 Spm was present
4. Tests of Spm number and location in the colonies of 2 classes of kernels in ears of tables 5 and 8
5. Interpretation of Spm into plants derived from pale kernels to show that $a_{1,m-1}$ in them would be capable of responding to Spm

---

Tests of pale class derived from ears $a_{1,m-1}$

Tests of var " " " " " " for presence of Spm

Test of allocation of states in plants having 2 different states

Test of stability of derived mutations in presence of Spm

Tests of the kernels with mixed changes in variegation —

Tests of Transposition of Spm

Intercom – to test for SAM indicator [illegible]

5700A	
5713B-2	
5714F	
5715A	
5718	
5719A-1	
5719A-2	
5996-4	
5999	

Table 17

Phenotypes of kernels on ears produced by cross of plants carrying the allelic state a, m-1 in one chromosome 9 and a, m in the homologue, with plants homozygous for a, and sh2. 24 kernels on resulting ears were sh2.

A. Various classes of kernels appearing on same ear.

Culture	plant no.	A_1	pale (different and paler than A_1)	variegated	colorless (apparently)	Total	No. of kernels on same ear with clearly different allelic state
5994 -	8	68	56	186	332	642	0
" -	10	38	91	113	264	506	0
" -	12	60	11	163	266	500	0
5995 -	1	63	3	140	315	521	1
" -	2	51	12	193	290	546	0
" -	10	76	42	70	329	517	0
" -	12	71	16	176	402	665	1
5996 -	1 (tillers on)	16	44	54	159	273	0
" -	2	24	1	169	214	408	0
" -	10 (tillers on)	48	68	43	203	362	0
5997C -	2	63	18	73	229	383	0
Totals		578	362 469	1380	3003 3483	5323 5743	2

B. new state of a, m-1 in ear that gave rise to ear

5996 -	4	10	107	120	280	517	1 (same kernel as Y.)
P 5999	x a, sh2	2	73	176	238	489	
5999	self pollinated	8	4	225	274 (none are pale)		

C. stable pale mutant in ear that gave rise to ear

5994 -	6 (tillers on)	217 "A_1"	30	—	258	510	

D. cross of recessive cross a, i + or m / a, i

5994 -	2	57	10	97	278	442	
5994 -	12	57	75	96	303	531	

22 - reversion

Table 22

Pollen parent from Tester Plant ... Other crosses

Cultures and Plants	Tester I	Pale plants with other Tester	Soft pubescent	by aphids
I y/y 15 Plants with 2 spm:				
6665 G-1	5718	5700H	5719A-2	
6665 G-7	5718	5718		
6661 G-4	5718	5719A-2		1 ear
6665 G-13, G-21,	5718		1 ear	
6665 G-2, -5, -6, -12, -15,				
6666 G-2, -5, -9, -16,	5718			
6666 G-6	5718			1 ear
II 15 y/y plants with no spm				
6665 G-9	5718	5700A	5719A-2	
" G-3	5718	5700A		
" G-10	5718	5714F		
" G-14	5718	5719A-2		
" G-20	5718		1 ear	
" G-8, -17, -18, -19,	5718			
6666 G-1, G-3, G-8				
6665 G-11, -15,	5719A-1			
6666 G-7				
III 6 y/y plants with 3 spm				
6666 H-6	5718		5996-4	
6665 H-5	5719A-1			
6666 H-10, H-13	5718	5719A-2		
6666 H-2, H-12	5718			
IV 18 y/y plants with no spm				
6666 H-9	5718	5719A-2		
6665 H-10	5718		1 ear	
6666 H-1, H-8				
6665 H-8	5719A-1		1 ear	
6665 H-3	5700H			
6665 H-1, H-4	5718			
6666 H-3, H-11				
6665 H-6, H-7, H-9, H-11, H-12	5719A-1			
6666 H-4, H-5, H-7,				

See reverse

Tray 4

Typical kernels appearing on ears of plants that were grown in 6665 × 6666 in which Sp1 was found to be present.

Constitution	Spm Constitution	number of ears	Pale Sh_2 Y	Pale Sh_2 y	Var. Sh_2 Y	Var. Sh_2 y	other	other	Totals
O_1 of 1 ear. I ear per plant $a_1^m Sh_2 \mid a_1^m Sh_2$ = Y/y Std 5718 Cultivar 6638A	m Sp Y Sp+/y+	9	640	1118	1033	614			3405
= 2 ears per plant									
6665 G-1 I × 6638A	Y Sp+/y+	1	70	143	135	88			436
6-1 Tillers × "		1	18	49	50	14			131
6665 G-1 I × 6638A	Y Sp+/y+	1	67	130	141	78			416
6665 G-1 I × 6693A-2 (O_1 = a_1^m (5719A-2) Sh_2 / $a_1 Sh_2$, Y/y.) pale plant	Y Sp+/y+	1	61	26	63	11	139 colorless Sh_2		
6665 G-1 I × 6701-2 pale (O_1 = $a_1^m Sh_2 \mid a_1^m Sh_2$ Std 5700A; Y/y	Y Sp+/y+	1	60	140	120	91			
6666 G-4-I × 6638A	[Y Sp+/y+]	1	18	27	27	21			
" G-4-II × 6693A-2 (O_1 = Y/y)	[Y Sp+/y+]	1	4	1	6	1			
6665 G-16 × 6638A 2)	Y/y Sp+/y+	1	30	40	47	41	(+ loose kernels to Y)		158
" G-21 × 6638A 2)		1	66	57	79	75			277

1) Confirmed in next generation (6863, 6867)

2) " " " loose kernels with Y (6866)

see Reverse

Table ~~16~~ 28

Spm constitution of plants derived from selected kernels on ears produced by plant 6629A-1, ~~whose~~ the types of ~~types~~ selected kernel are entered in lines 1 and 2 of table 20.

Kernel type from which plant arose	No. of plants tested	Appearance of plant	No. of plants having Spm	Spm number in plants having it and its location with respect to the Y alleles, ~~in those having~~ in those plants that were 4 1/2 in constitution.
Pale, Sh_2, Y	~~3~~	Uniformly pigmented	0	------
Pale, Sh_2, ~~Y~~	10	"	0	---------
Variegated, Sh_2, Y	17	Variegated	17	16 ~~were~~ Y Spm/y + 1 had 2 Spm, neither linked to Y
Variegated, Sh_2, Y	8	Variegated	8	1 Spm in all 8 plants
Variegated, sh_2, Y	1	Variegated	1	Y Spm / y +
Colorless, sh_2, Y	30	Non-pigmented	15	14 ~~were~~ Y Spm / y + ~~1 were~~ 1 Spm not linked with Y. ~~one non-linked Spm to 1 [illegible]~~
Coloress, sh_2, Y	24	Non-pigmented	6	1 Spm in all 6 plants

Total ~~12~~

Copied

Random

Table 19 Some cultures mutated in last column

Constitutions of Tester plants used to determine Spm constitutions of some plants in Table 18 and the response of different states of a_1^{m-1} to the same Spm element or elements.

State	Chromosome 3	Chr. 5	Chr. 6	Chromosome 9	Spm constitution	1954 culture no.
5718	$a_1^{m-1}sh_2/a_1^{m-1}sh_2$	pr/pr	y/y	m_4/m_4	0	6638A
	" "	" "	Y/y	" "	0	6641A
5719A-1	" "	" "	y/y	" "	0	6641B
	" "	" "	Y/Y π Y/y	" "	0	6642
5719A-2	" "	" "	Y/Y	" "	0	6643
5700A	" "	Pr/Pr	y/y	$sh_1 m_4/sh_1 m_4$	0	6701-2
Part II	$a_1^{m-1}sh_2/a_1 sh_2$	$Pr\,pr$	$y\,y$	$m_4\,m_4$	0	6662C
	" "	$Pr\,pr$	$y\,y$	$W_x W_x$	0	6675G
5719A-1	" "	$Pr\,pr$	$y\,y$	$W_x W_x$	0	6678
	" "	$Pr\,pr$	$y\,y$	$W_x\, m_4$	0	6669C
	" "	$Pr\,pr$	$Y\,y$	$W_x W_x$	YSpm/$y+$	6666E
Part III	" "	$Pr\,pr$	$Y\,y$	$W_x\, m_4$	1 Spm	6671E
	" "	$Pr\,pr$	$Y\,y$		1 Spm	6673F
	" "	$Pr\,pr$	$y\,y$	$W_x\, m_4$	3 Spm	6680D
	" "	$pr\,pr$	$y\,y$	$W_x\, m_4$	1 Spm	6690

Table 20 — were grown under

Phenotypes of kernels from which plants in cultures indicated in column 1.

1954	Ear from which kernels were selected		Phenotypes of kernel from which plants were						
Culture number	♀	♂	Pale Shz 1	Pale Shz ♀	Non-Shz 1	Non-Shz ♀	Colorless 1	Colorless ♀	Others
6665	6629A-1	1041-5	5	7	10	3	21	12	
6666	6629A-1	1041-4	5	6	7	5	10	13	1 non-Shz 1
6670	6629A-4	1041-5	6	7	7	5	6	14	
6673	6629A-6	1040-1	6	6	12	5 4)	17	18	1 2)
6674	6629A-7	1040-1	5	7	7	4	5	6	3 3)
	Total		28	33	43	22	59	63	

[One plant was non-germinated for pale. [6670A@3]]

1. One plant was uniformly pigmented (pale) instead of non-shz as [6673P@2]
2) Kernel was non-shz as for pale with few A1 dots, mostly colorless.
3) Kernels were colorless, with Shz ♀ and non-shz A1 dots

Table 29

~~Comparison~~ recombination percentages between Y and Sh2 in ~~Sh/y+ types on each side of Table 28, Sect 19.~~ Sh/y+ parents and offspring that were ~~Sh/y+~~ Sh/y+,

Phenotype of kernels

	No. of ears	Pale Sh2 Y	Pale Sh2 y	Non. Sh2 Y	Non. Sh2 y	Totals	Recombination %		
6629A parent ears of cultures ~~M T 20~~	5	155	303	309	180	947	35.3		
Cultures 6665G, 6666, 6670E, 6673G,* 6674F.	26	1653	2922	2838	1530	8943	35.5		

6 ~~ears~~ ~~produced~~ by 6 plants in culture 6673G, ~~were~~ ~~classified~~ ~~as~~ for Y for some kernels could not be made. The kernel types on these ears are excluded from the table. ~~These~~ were a ~~produced~~ a total of 2359 kernels, 1244 were pale and 1115 were non-sugary. on these ears, among the kernels.

A partial inhibitor of Y expression was segregating on these ~~plants~~ plants. Therefore

Cultured

Table 22

I Crosses conducted with plants derived from the cobs, ab, y, [illegible]
aim [illegible] Tillers used as ♂ in [illegible] number of plants

Pedigree	Plant no. & cross	Ear from	other ears		⊕	[illegible]			
			stalks						
A- Plants with Spm									
6665 G	- 1	5718	5700 H	5719 A-2					
" G	- 2	5718							
" G	- 5	5718							
" G	- 6	5718							
" G	- 7	5718 (2 ears)							
" G	- 12	5718							
" G	- 13	5718			✓				
" G	- 16	5718							
" G	- 21	5718			✓				
6666 G	- 2	5718							
" G	- 4	5718		5719 A-2	[illegible]		✓		
" G	- 5	5718							
" G	- 6	5718			[illegible]		✓		
" G	9	5718							
" G	- 10	5718							
B Plants with no Spm									
6665 G	- 3	5718	5700 A						
" G	- 8	5718							
" G	- 9	5718	5700 A	5719 A-2					
" G	- 10	5718	5714 F						
" G	- 11	5719 A-1							
" G	- 14	5718	5719 A-2						
" G	- 15	5719 A-1			[illegible]				
" G	- 17	5718							
" G	- 18	5718							
" G	- 19	5718							
" G	- 20	5718			✓				
6666 G	- 1	5718							
" G	- 3	5718							
" G	- 7	5719 A-1							
" G	- 8	5718							

II Crosses conducted with plants derived from cobs, ab, y [illegible]
A - plants with Spm

6665 H	- 5	5719 A-1 (Y)	5700 A						
6666 H	- 2	5718							
" H	- 6	5718 (2 ears)	5996-4						
" H	- 10	5718	5719 A-2						
" H	- 12	5718							
" H	- 13	5718	5719 A-2						

$Q_1 m-1$ state in

↑ Tester used as ♂ in cross

Culture	Plant no. & germ cell	States	other cross		⊕			
B. nodosum in tested plant		First Ear						
6665 H	- 1	5718						
"	- 3	5700A						
"	- 4	5718						
"	- 6	5719A-1	(Y_y)					
"	- 7	5719A-1	(Y_y)					
"	- 8	5719A-1	(Y_y)		✓			
"	- 9	5719A-1	(Y_y)					
"	10	5718			✓ (2 ears)			
"	- 11	5719A-1	(Y_y)					
"	12	5719A-1	(Y_y)					
6666 H	1	5718			✓			
" H	3	5718						
" H	- 4	5719A-1	(Y_y)					
" H	- 5	5719A-1	(Y_y)					
" H	- 7	"		"				
" H	- 8	5718			✓			
" H	- 9	5718	5719A-2					
" H	- 11	5718						

Progeny of plant 6629A-① assumed to be 1Spm/y+
Testing Y/y plants among Spm.

Genotype	Cultures	no of plants tested	no. with Y/y+ 1Spm/y+	Y/y+ 1Spm	Y/y- 2Spm				Comments	
6629A-1 [5]	6665	19	16	2	1				6665-I	or I.
6629A-1 [II]	6666	14	14	0	0					
6629A-4 [I]	6670	10	10							
6629A-6 [I]	6673	18	13						5 plants,	no test of Y/y-
6629A-7 [I]	6674	5	1	2					2 "	" " "
TOTALS		66	54	4	1				7	

Progeny from ② of 6629A-4

	Y/y+ 1Spm/Y Spm	Y/y+ 1Spm/y Spm	Y/y+ 1Spm/y+	Y+/y Spm	Y/Y 1Spm	Y/y 1Spm	Y/y 2Spm	Y/y+ 1Spm/y+ 1Spm	Total
6662 [I] kernels	3	1	7	1	3	3	1	1	20
	1Spm/Spm	1Spm	2 non-linked Spm						
6662 colorless kernels	2	5	1						8

Spm constitution in two locations in 5 spm cobs plants derived from 6629A-5 [I] Y/y+ plus 1Spm

Culture 6671 = 4 plants:

From Y/y+ kernels

- Y/y+ = 2 plants
- Y/y+; Wx+/wx 1Spm = 1 plant
- Y/y+; Wx+Wx+ 1Spm = 2 plants
- 1Spm, no test for linkage = 1 plant
- Y/y+; Wx+/wx 1Spm = 1 plant
- Y/y+; Wx+wx; Pr+Pr 2Spm, no test linked to Y or Wx+ = 1 plant
- Y/y+; Wx+wx; Pr+Spm/Pr+ = 1 plant

From y kernels

- Wx+Wx+ Pr+/Pr 1Spm = 1
- Wx+Wx+, Pr+Pr+; 1Spm = 1
- Wx+wx, Pr+Pr+; 1Spm = 1
- Wx+wx, Pr+Pr 1Spm = 1
- Wx++wx Spm, Pr+Pr = 1

From 6629 A-5 E

6672 14 planes

Y Spm / y + ; W x + / w Spm ; P₁ / μ = 1

Y Spm / y + W x w μ μ = 1

Y / y ; W x + / w Spm ; P₁ μ = 1

Y / y ; W x W x + ; μ μ₂ 1 Spm, not limited to Y = 1

Y y ; W x W x ; μ μ₂ 30 2 4 Spm = 1

Y / y ; W x W x ; P₁ μ₂ 1 Spm - Rectangular coil [E 6672-1-2] 1

Y / y ; W x W x ; μ μ₂ 1 Spm - limited to 1 ? 1

Y / ȳ ; W x / w μ P₁ μ₂ 2 Spm, neither limited to maximum

6672 y / y planes 14 planes

W x / w P₁ + / μ₂ Spm plus 1 Spm - D ① = 1

W x / w P₁ / μ₂ 1 Spm D-2, F ② 1 3 = 4

W x / W x μ₂ μ₂ 1 Spm - F ② ③ ④ = 4

W x / W x P₁ / μ₂ 1 Spm 1 - ② 1 F ③ 1 ④ = 4

W x / w μ μ₂ 1 Spm F ③ = 1

6672 F = 8 w Spm
6 Spm
=

6672 F = 1 Spm
12 w Spm

Crab 5719A-2

6693A to a, b2 Spm or. no Spm

6665G ① t-2 Yspm/y+ x 6693A-2

6665G ⑨ t no Spm x " "

" " ⑭ t no Spm x " "

6666G ④ t Yspm/y+ x " "

" H ⑨ t no Spm x " "

" H ⑩ t 1 Spm x " "

" H ⑬ t 1 Spm x " "

state 5996-4

6704C to qi zhi2 spinor no spin

4 6666H ⑥ II, 1 spin x 6704C - ③ of

66736 ①E 1 spin/y + x n C - ③

6683E ⑩2 Pn++/pr Spin Spin x 6704C ③

5200 ff

6701 to 6703 to a, rb 2 Spm or noSpm

♀ 6665 G ① t YSpm/yt × 6701 ② homo ♂

6665 G ③ t noSpm × 6701 ② homo

6665 f ⑨ t noSpm × 6702 ②

6665 H ⑤ t 1Spm × 6701 ② homo

6665 H ③ noSpm × 6702 ④

6670 F ③ t noSpm × 6701 ② homo

6673 G ⑨ t YSpm/yt × 6702 ②

6673 H ② noSpm × 6702 ②

6674 G ⑥ t noSpm × 6702 ②

6707 D ④ t 1Spm × 6702 ①

6707 D ⑦ t noSpm × 6702 ①

6707 D ⑨ t noSpm × 6702 ①

6707 D ⑩ t noSpm × 6701 ⑥

State 5999. To a, b, c: Spm or no Spm

6707C to:

♀ 6673H ④ᴱ no Spm × 6707C-3 or

6683E ③ᴱ no Spm × 6707C-3

" E ⑤ᴱ no Spm × " "

6673H ④ᴱ no Spm × " "

State 5714F

♀ 6668C ④ᴱ 2Spm × 6646B ② or

pair ♀ × ♂ ab 2; Spm от noSpm ♂

♀ 6639 (27) × 6683 E (9) Spm ♂

" (28) × " " (2) noSpm

" (13) × " " (3) noSpm

" (24) × " " (10) P1+1P1Spm

6642 A-(2) × " " (2) noSpm

6639 (1) × 6688 C (8) 1Spm