transposed from P to another site in the genome, the new site is very frequently located within 50 crossover units on either side of the P locus. These data also indicate that transposed Mp may not be as frequently linked with P as the data presented by Van Schaik indicated. In particular, the number of families showing no recombination between P and Mp was much lower in the data presented here.

G. H. Clark

UNIVERSITY OF ZAGREB
Zagreb, Yugoslavia
Department of Plant Breeding and Genetics

1. Percentage of inbred lines with chlorophyll deficient seedlings in the first generation after selfing of some Yugoslav varieties of maize.

The frequency of inbred lines with chlorophyll deficient seedlings: white (w), luteus (l), virescent (v), virescent luteus (v l) and virescent white (v w), which have developed in the first year after selfing of plants in some Yugoslav varieties, has been studied. For that purpose 7 yellow flint, 4 white flint, 11 yellow dent and 5 white dent varieties have been investigated. Some of these have been improved through individual selection.

The percentage of chlorophyll deficient inbred lines was much greater from unimproved varieties. In flint maize it varied from 25.7% to 33.5% and in dent maize from 22.3% to 31.3%.

From improved varieties the variation was as follows: in flints from 2.8% to 5% and in dents from 2.1% to 5.9%. In flints and in dents the percentage of chlorophyll deficient inbreds in the first generation of selfing increased in the following order: white; white, virescent-white; white, luteus; white, luteus, virescent; white, luteus, virescent-white.

The data are given in the tables appearing on the next two pages.

A. Tavčar

Percentage of inbred lines with chlorophyll deficient seedlings in first generation after selfing of some Yugoslav varieties of maize.

No.	Variety	Number of rows M	Percentage of inbred lines with w	w, l	w, l, v	w, vw	w, l, vw	Total
I.	Flint - a) yellow:							
1.	Long fellow-Lepoglava	8.4	4.1	5.3	6.5	4.3	7.2	27.4
2.	Long fellow-Lepoglava (improved)	8.1	0.3	0.6	0.7	0.4	0.8	2.8
3.	Early yellow-Medjimurje	13.7	5.3	4.1	4.8	3.3	8.2	25.7
4.	Early yellow-Maksimir	14.2	5.7	5.4	6.0	4.3	6.2	27.6
5.	Early yellow-Maksimir (improved)	14.7	0.4	0.7	0.7	0.6	0.9	3.3
6.	Yellow - Pirot	12.5	5.8	6.7	7.6	4.2	8.5	32.8
7.	Cinquantino	17.1	3.6	5.6	7.3	4.5	8.1	29.1
	b) white:							
8.	Long fellow-white Zaječar	9.3	3.8	4.7	7.2	5.6	7.4	28.7
9.	Long fellow-Zaječar (improved)	8.4	0.6	0.8	1.2	0.9	1.3	4.8
10.	White - Pirot	12.5	5.1	6.6	7.2	6.4	8.2	33.5
11.	White - Pirot (improved)	14.1	0.5	1.0	1.4	0.7	1.4	5.0
	Total flints: M		3.20	3.77	4.60	3.20	5.29	

w = white
l = luteus
v = virescent
v l = virescent luteus
v w = virescent white

Percentage of inbred lines with chlorophyll deficient seedlings in first generation after selfing of some Yugoslav varieties of maize.

No.	Variety	Number of rows	Percentage of inbred lines with					
		M	w	w, l	w, l, v	w, vw	w, l, vw	Total
II.	Dent - a) yellow:							
12.	Early yellow-Maksimir	15.2	2.6	3.7	5.4	4.5	6.1	22.3
13.	Early yellow-Maksimir (improved)	16.1	0.2	0.4	0.5	0.5	0.8	2.4
14.	Early yellow-Osijek	13.3	4.8	5.3	6.2	5.4	6.4	28.1
15.	Early yellow-Osijek (improved)	12.4	0.5	1.2	1.3	0.7	1.6	5.3
16.	Early yellow-Horgoš	13.8	4.2	5.6	6.2	4.8	7.1	27.9
17.	Early yellow-Horgoš (improved)	12.3	0.6	0.8	1.3	0.9	1.4	5.9
18.	Yellow-Bajša	14.8	4.2	5.3	7.1	4.6	8.2	29.4
19.	Yellow-Ruma (improved)	14.4	0.3	0.6	0.7	0.5	0.8	2.9
20.	Yellow-Novi Sad (improved)	16.5	0.2	0.3	0.5	0.4	0.7	2.1
21.	Yellow-Belje (improved)	16.2	0.4	0.5	0.6	0.4	0.7	2.6
22.	Yellow - Šid	18.3	5.2	5.8	6.4	5.7	7.3	30.4
	b) white:							
23.	White - Bankut (improved)	12.9	0.5	0.8	0.9	0.6	1.1	3.9
24.	White - Požega	14.2	3.6	4.4	6.5	4.2	7.1	25.8
25.	White - Horgoš (improved)	15.4	0.3	0.5	0.8	0.4	1.2	3.2
26.	White - Mastadont	15.1	5.4	6.2	6.9	5.5	7.3	31.3
27.	White - Šid	18.3	3.5	4.6	5.8	4.5	6.6	25.0
	Total dents: M		2.28	2.87	3.57	2.72	4.02	

w = white
l = luteus
v = virescent
v l = virescent luteus
v w = virescent white