

Frequency of mutations from colourless to coloured pericarp in inbred lines during 15 years of selfing of some Yugoslav varieties of maize.

No.	Variety	Mutation rate per 10,000 plants from colourless to:			Total
		orange	red	variegata	
<u>II. Dents - a) yellow</u>					
12.	Early dent - Maksimir	0.2	0.8	0.2	1.2
13.	Early dent - Osijek	0.6	0.7	-	1.3
14.	Early dent-Horgoš	0.4	0.6	0.2	1.2
15.	Yellow - Bajša	0.5	0.8	-	1.3
16.	Yellow - Belje	0.3	0.9	0.2	1.4
17.	Yellow - Novi Sad	0.4	0.6	-	1.0
18.	Yellow - Šid	0.6	0.9	0.1	1.6
<u>Total Yellow dents: M</u>		0.43	0.75	0.01	
<u>b) white</u>					
19.	Early white - Horgoš	0.4	0.6	-	1.0
20.	White - Požega	0.3	0.7	-	1.0
21.	White - Zajecar	0.2	0.5	0.1	0.8
22.	Mastadont	0.4	0.7	0.1	1.2
<u>Total white dents: M</u>		0.32	0.62	0.05	
<u>Total dents: M</u>		0.37	0.65	0.09	

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3. Number of knobs and B-chromosomes in some Yugoslav varieties of maize.

The number of chromosome knobs and the number of B-chromosomes have been investigated in 7 yellow flint, 5 white flint, 6 yellow dent and 3 white dent varieties collected in different regions of Yugoslavia. In the table are the data for maturity rate of the different varieties, and the number of knobs on chromosomes and the number of B-chromosomes. In the flints the number of knobs varied from 0 to 4 and the number of B-chromosomes from 0 to 2. Only in 6 of the 12 flint varieties were B-chromosomes found. The dent varieties have a higher number of chromosome knobs. It varies from 2 to 14. In one and the same variety the difference between the lowest and highest number of knobs is usually 2 and only in the varieties with the highest number of knobs is there a difference of 5 knobs.

Number of knobs and B-chromosomes in some Yugoslav varieties of maize.

No.	Variety	Maturity rate days	Number of knobs	Number of B-chromosomes
I. <u>Flints</u> : a) <u>yellow</u>				
1.	Cinquantino	140	0-2	-
2.	Long fellow - Lepoglava	142	0-2	0-1
3.	Early - Maksimir	142	1-3	0-2
4.	Yellow - Zaječar	143	2-3	-
5.	Yellow-Djakovo	143	1-2	0-1
6.	Yellow - Medjimurje	145	1-3	0-1
7.	Yellow - Pirot	143	2-3	-
b) <u>white</u>				
8.	Long fellow-Zaječar	143	2-4	0-1
9.	White-Knin	141	1-2	-
10.	White - Kruševac	142	2-3	-
11.	White - Djakovo	143	1-3	-
12.	White - Pirot	144	2-3	0-1
II. <u>Dents</u> : a) <u>yellow</u>				
13.	Early dent - Horgoš	133	3-5	0-1
14.	Early dent - Osijek	137	3-4	-
15.	Early dent - Maksimir	137	2-4	-
16.	Yellow - Bajša	145	5-7	0-1
17.	Yellow - Ruma	146	5-8	-
18.	Yellow - Šid	152	7-12	-
b) <u>white</u>				
19.	Early - Horgoš	137	3-5	0-1
20.	White - Požega	138	3-6	0-1
21.	Mastadont	153	9-14	-

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