

Among the induced endosperm mutants more than half were defectives, several were gm, and a few were sh, su, and wx types. The seedling mutants were mainly abnormal growth and chlorophyll types. From the table reported it also appears that the progenies possessing obvious chromosome aberrations (as indicated by the semisterility of the ears) did not contain more "point-mutations" than normally filled ears.

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### 8. Genetical and cytological data on Morocco maize.

Twenty-six samples of Morocco varieties have been studied genetically and cytologically. About six self-pollinations have been made for each sample. In the following table are listed the mutants found, together with the number of the independently occurring cases (when a phenotypically identical mutant was segregating in a given sample, the mutant was listed once):

Endosperm traits		Mutants	
Type	No. of cases	Type	No. of cases
Colored	1	Abnormal growth	5
Defective endosperm	8	Adherent	2
Etched	1	Allium type	1
Germless	1	Dwarf	4
Opaque endosperm	1	Fine stripe	1
Vivipary	1	Glossy	5
White endosperm	5	Green mottled	1
		Iojap	1
		Luteus	1
		Narrow leaf	5
		Pale green	3
		Pale yellow	1
		Rootless	4
		Virescent	1
		Yellow green	4
		White	

For eleven of the samples, cytological study was also carried out, as reported in the following table (when knob shape, size and condition are not specified, the knob is round, medium sized and in homozygous condition):

Variety	Plant examined	Types of Knobs and Remarks
Azzama-Tahala	1	K1L het.; K4L long shaped; K5L small; 2K7L small; K8L + het. dist. chrom; K9L het.; 4 B chromosomes.
Hamra-Skhirat	1	K2L large, het.; K5L het.; K8L + large d.C.; K9S small.
Sefra-Rich	1	K4L het.; K7L het.; K8L; K9S small; 2 B chromosomes.
Septia-Tahala	2	K5L large; 2K6L small, het.; K7L small; K8L.
	1	K1S large; K5L; 3K6L small; K7L small, long shaped; K8L small + small prox. chrom.; K9L large het.; one more knob unidentified.
Beida-Sous	1	K1S small, het.; K4L small, long sh., het.; K5L small; K7L large; K9S large, long shaped.
Hamra-Beuslimane	1	K4L; K6L distal, small, het.; K7L; one more K unidentified.
Sefra-Beni Ahmed	1	2K6L small; K7L; K9S large.
Azougagh-Biougra	1	K1S; K4L het.; K5L; K7L; K9S small.
	2	K1S; K4L het.; K5L; K9S; one more K unidentified.
Sefra-Chichaoua	1	K6L distal, het.; K7L small; one more K unidentified.
Hamra-Dar bouazza	1	K2L long shaped; K6L distal small; K7L; K8L + 2 d.C. (1 het.)
Hamra-Essaouira	1	2K6L, het.; K7L small, het. long shaped; K8L large + d.C. het.; K9L large.
	2	K4L large het.
	3	K4L het. large; K5L small, het.; K7L small het.; K8L small, het.

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