

Table 1
Quantitative estimations of chlorophyll a and b (mg/g)

Sl.No.	Phenotype	Chlorophyll a	Chlorophyll b	Total chlorophyll
1.	Yellow-green-2 ($Y\bar{G}_2$)	0.1270	0.1263	0.3032
2.	Pale green ($pg_{11}pg_{12}$)	0.2657	0.1968	0.5027
3.	New mutant yellow-green	0.3089	0.3193	0.7394
4.	Control	1.1000	1.1270	2.9000

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5. Sectoring pattern in yellow opaque-2 maize.

In a yellow opaque-2 synthetic, certain seeds were observed with normal sectors. These were classified into five types, S_2 , S_3 , S_4 , S_5 and S_6 , S_1 being completely opaque. S_5 is similar to the half opaque-half normal kernels reported earlier by Paez *et al.* (Crop Sci. 9:1969). The sectoring pattern in these S-types extends from a few normal cells to half a kernel.

Diallele crosses were performed among these five S-types and also with the S_1 control. The preliminary studies with reciprocal crosses between S_1 and S_3 and the diallele crosses between S_6 and the other S-types suggest that the female parent may influence the pattern of sectoring. The selfed S-types segregate into one or more original S-types including some new S-types with the exception of S_2 which gives only the S_2 type. Further studies regarding their behaviour and genetic basis are in progress.

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