

Reversion Rate at the wx Locus

Year and Chromosome Type	Tassel No.	Estimated Number of Pollen Grains	No. of <u>wx</u> Pollen Grains	Frequency of <u>wx</u> Pollen Grains x 10 ⁻⁵
1963 Hypoploid	1092-3	572,669	28	4.89
	1064-1	112,616	1	0.89
	1064-2	733,192	68	9.27
	1069-	386,501	70	18.11
	1064-4	103,400	0	0.00
Total and average		1,908,378	167	8.75
1963 Normal	56-1	618,021	13	2.10
	56-7	695,767	21	3.02
	56-11	1,540,347	229	14.87
	56-16	2,256,349	374	16.57
	56-2	2,030,517	168	8.27
	56-3	3,288,372	128	3.89
	56-4	3,086,460	48	1.55
Total and average		13,515,833	981	7.25
1964 Hypoploid	1309	448,860	29	6.46
	1291	73,010	0	0.00
	1298	406,630	12	2.95
	1282	74,080	15	20.24
	1290	914,850	6	0.65
	1283	989,550	7	0.70
	1291	1,117,350	19	1.70
	Total and average		4,024,330	88
1964 Normal	1267-1	1,967,200	14	0.71
	" -2	343,880	4	1.16
	" -3	3,000,680	57	1.89
	" -4	669,210	7	1.04
Total and average		5,980,970	82	1.37

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1. Golden-2.

The location of golden-2 is still in doubt (MGCNL 36:49). Further evidence that it is not near Bn on chromosome 7 where it is placed in some publications comes from the following data:

G2 Tp CB 32 35 29 36 total = 132 48% recombination

In this cross golden-2 segregated independently of Teopod which is located at 46 on the seventh chromosome, while Bn is located 25 units away at 71.

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2. Aleurone color in the presence of a₁.

A stock in my culture with the genotype a₁ A₂ C₁ C₂ R pr in y has a pronounced "blush" of color in the aleurone with occasional patches of deep red pigment, particularly in the region of silk attachment. Germless kernels in this background are nearly full red.

When c₁ segregates in this background, both blushed and pure white kernels appear.

It has not been determined whether the a-allele in this stock is unique, but the aleurone is completely colorless in the cross a₁ A₂ C₁ C₂ R pr in y x aU₃ A₂ C₁ C₂ R pr in y, suggesting that intensifier 'In' may be responsible for the pigment and not the particular a-allele.

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3. Further tests for paramutation at the P locus.

The standard Wisconsin variegated pericarp allele (P^{vv}) has been shown to be non-paramutagenic with pr^r (MGCNL 35:86, 1961). Three additional unstable alleles are known at the P locus (PNAS 40:1118-1126, 1954) which condition pericarp striping of individually identifiable