

likely to be so in *P. urinaria* as well, although I have not examined the latter species myself.
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**INHERITANCE OF FRUIT POSITION
IN A CHILLIE CROSS**

A PURE breeding strain of chillies I.P. 34, a prolific bearer with fairly pungent fruits from the Imperial Agricultural Institute, Delhi, was crossed with another pure strain, 'Yellow Wax', from Sutton & Sons, highly prized for pickles, with a view to evolve a type combining the size of the 'Yellow Wax' with the pungent and prolific bearing characters of I.P. 34. The fruits are erect in 'Yellow Wax' while being pendent in I.P. 34. The results of the crosses

The segregation observed is given in Table I. From the F₁ of the cross I.P. 34 and 'Yellow Wax' four-selfed phenotypes and seven-selfed ones from its reciprocal cross were grown as F₂ in the subsequent season. Segregation was observed in one family of the former and five of the latter cross. The data are given in Table II.

The only significant deviation of the expected from the observed frequencies is in family F₂-67 where the value of P exceeds 0.20.

A single factor is, therefore, involved in the expression of the fruit position.

Shaw and Abdur Rahman Khan (1928) have used position of the fruit as a diagnostic character in classifying chillies: Deshpande (1933) has shown this character to be governed by a single factor. Our observation is also in accordance with that of Deshpande. Pendent position of fruit is dominant to erect and T 34 may be designated PP for this character and 'Yellow Wax' as PP.

The cross reported above was originally made in 1940, by the Junior author, Babu R. S. Roy. We are grateful to Dr. R. H.

TABLE I

	I. P. 34 × Yellow Wax			Yellow Wax × I. P. 34		
	Pendant	Erect	Total	Pendant	Erect	Total
Observed	39	12	51	58	13	71
Expected	(3:1)38.25	12.75	51	53.25	17.75	71
	X ² = 0.059 P=0.80			X ² = 1.695 P=0.2		

TABLE II

Yellow Wax × I. P. 34						I. P. 34 × Yellow Wax			
Family	Pendant	Erect	Total	X	P	Family	Pendant	Erect	Total
F 2-42	15	4	19	0.159	0.7	F 2-10	23	9	32
F 2-57	19	6	25	0.013	0.9				
F 2-64	5	3	8	0.67	0.8				
F 2-66	22	9	31	0.269	0.7				
F 2-67	18	10	28	1.7	0.2				
Total observed	79	32	111				23	9	32
Expected (3:1)	83.25	27.75	111				24	8	32
	X ² = 0.868 P=0.5-0.3					X ² = 0.167 P=0.5			

regarding the position of the fruits are reported below.

In the F₁ of the cross 'Yellow Wax' I.P. 34 and I.P. 34 'Yellow Wax', the fruits were found to be mostly pendent with occasional erect early stages. From each of the above crosses two-selfed F₁ plants were grown as F₂. The segregation observed was into erect and pendent fruits, with a few cases of erect-pendent fruit position, the earlier stages being erect. The last type was included among the group of erect ones, since these fruits resembled that of the 'Yellow Wax' not only in being erect in the earlier stages but also in the later assumption of a pendent position owing to an increase in size and weight.

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