

# 'Florida XVR 3-25' Bell Pepper

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**Additional index words.** *Capsicum annuum*, *Capsicum chacoense*, bacterial spot resistance, virus resistance

'Florida XVR 3-25' is a nonpungent, bell pepper (*Capsicum annuum* L.) resistant to tobacco etch and potato Y viruses and both pepper pathotypes of the spot bacterium *Xanthomonas campestris* pv. *vesicatoria* (Dowson) Young et al. The combined resistances to these viruses and bacterial spot should prove useful in areas where these diseases are prevalent.

## Origin

The pedigree of Florida XVR 3-25 is shown in Fig. 1. Spot-resistant plants used as parent plants for the next generation were identified by infiltration inoculation of leaves. Virus-resistance was identified in fourth-backcross generation plants grown in the greenhouse by mechanical (rubbing) inoculation. Single-plant progenies from spot-virus resistant plants were evaluated for horticultural characteristics in the field. Field selections were made in each of 3 years to improve plant habit and fruit type, and seeds from sib-plants were

bulked to form 'Florida XVR 3-25'. Resistance to pathotype 1 (6) of the spot organism came from *C. chacoense* L. PI 260435 (3) whereas resistance to pathotype 2 of the spot organism and the virus resistances came from *C. annuum* cv. Florida VR2 (4).

## Description

Plants are about 45 cm tall and 50 cm wide. Flowering occurs about 85 days after seeding, and fruit harvest can begin about 45 days after flowering. Fruit are green (full red at maturity), measuring approximately 8 × 10 cm in size with smooth carpel walls and mostly 4 locules (Fig. 2). Wall thickness is 5–6 mm, and seeds are cream colored. Both virus resistances are conferred by single, recessive genetic factors (1, 2), and resistance to each bacterial spot pathotype is conferred by a single, dominant factor (5).

## Availability

Small quantities of seed are available on request from R. Subramanya, Agricultural Research and Education Center, P.O. Drawer A, Belle Glade, FL 33430.

## Literature Cited

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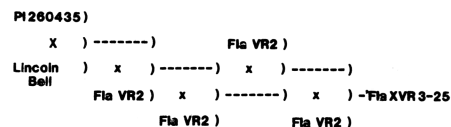


Fig. 1. Pedigree of 'Florida XVR 3-25' bell pepper.



Fig. 2. 'Florida XVR 3-25' bell pepper.

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