'Carolina' Collard

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Catalog descriptions of 'Carolina' should credit Clemson University and the United States Department of Agriculture with its development. Catalog credits are requested also for hybrids in which 'Carolina' is a parent.

Additional index words. Brassica oleracea (Acephala group), vegetable breeding

The South Carolina Agriculture Experiment Station and the United States Department of Agriculture announce the joint release of 'Carolina' collard Brassica oleracea L. (Acephala group). 'Carolina' offers potential because of its resistance to downy mildew incited by Penospora parasitica (Pers.) ex Fr., because of its desirable horticultural characteristics, and because it broadens the genetic base of collard.

Description

'Carolina' is a compact growing collard (Fig. 1) similar to 'Vates' in color, plant type, wind and cold resistance. It has bolting resistance similar to 'Georgia L. S.' The major advantage of 'Carolina' over 'Vates' is resistance to one or more races of downy mildew. 'Carolina' is comparable to 'Vates' in plant vigor and yield. Plant type is more uniform than present cultivars. It has been observed also to have less damage from flea beetles and caterpillars than existing cultivars. 'Carolina' is suitable for use as a cultivar and as a parent in hybrid combinations.

Origin

'Vates' collard was hybridized with downy mildew resistant Plant Introduction 261774 cabbage. Mass-selected progeny plants were backcrossed to 'Vates.' Recurrent selection was practiced for several cycles.

Availability

Breeders' seed of 'Carolina' will be maintained by the South Carolina Agricultural Experiment Station. Address requests for seed to the Clemson

U. C. Crenshaw Bush Breeding Line

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Additional index words. Cucumis melo, short-internode, verticillium wilt, crown blight, sulfur tolerance, vegetable breeding

Three backcrosses were made to the recurrent parent 'SR-91'. The cultivar 'Crenshaw' was crossed with a bush plant from the 3rd backcross to 'SR-91'. U. C. Crenshaw Bush is a mass increase of the 4th generation, from the second backcross to 'Crenshaw' (Fig. 1).

Description

The vines of U. C. Crenshaw Bush are vigorous, with large leaves giving good cover to the fruit. Plant diameter is about 1.5 m producing 2 to 4 fruit. The fruit are blocky-oval in shape, diameter 12.0 to 15.5 cm; weight 1.2 to 2.5 kg (Fig. 2). The fruit size is smaller than the vine type 'Crenshaw' and earlier in maturity. The skin is smooth, soft rind, and green turning

Fig. 1. 'Carolina' collard.
to 12% soluble solids, and excellent flavor. U. C. Crenshaw Bush is resistant to crown blight, verticillium wilt and is sulfur tolerant.

**Outstanding characteristics**

U. C. Crenshaw Bush does not collapse from excessive heat (33° to 41°C), and the excellent foliage cover prevents sunburning of maturing fruit. The blocky fruit shape and smaller fruit size reduce the damage in harvesting and packing procedures. The compact plant size of the U. C. Crenshaw Bush makes it ideal for the home garden.

**Availability**

A limited quality of seed is available for distribution for seed producers and breeders upon written request.

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**'U. C. West Side' Muskmelon**

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**Additional index words.** Cucumis melo, disease resistance, crown blight, verticillium wilt, vegetable breeding

'U. C. West Side' is an andromonoecious vine type, salmon-orange flesh muskmelon, Cucumis melo L. It is a shipping cultivar adapted for spring production in the desert valleys of California, summer production in the San Joaquin Valley, and other semiarid regions of the far west.

**Origin**

'U. C. West Side' is the 7th generation from a cross between the cultivars 'Perlita' and 'Top Mark'. The F_1_ was selfed in 1971, and selections were made in subsequent generations for firm flesh, light overall netting, crown blight, and verticillium wilt resistance. Beginning in 1973, selections were made in a cyclic sequence at the San Joaquin Valley West Side Field Station and the University Farm in the Sacramento Valley to obtain a wider range of adaptation.

**Description**

The vines of 'U. C. West Side' are vigorous, giving good cover to the crown set fruit. Plant diameter is about 3 m, with each producing 3 to 5 fruit. The fruits are slightly oval in shape; diameter 11.5 to 14.5 cm; and weight 1.2 to 1.6 kg (Fig. 1). The fruit skin has a tight overall netting, with relatively indistinct vein tracts, and is beige at maturity. The flesh is thick, salmon-orange, firm, with good flavor. The seed cavity is small and relatively dry. The stem develops an abscission layer (slip) separating it from the fruit at market maturity. 'U. C. West Side' is resistant to crown blight and verticillium wilt.

**Performance**

'U. C. West Side' was compared with several popular shipping type cultivars in the major muskmelon production areas of California. The ripening pattern...