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# 'Dagan' Almond<sup>1</sup>

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Additional index words. Prunus amygdalus, fruit breeding

'Dagan' is a high-yielding, semihard-shelled, well-sealed, highly flavored and uniform cultivar of almond (Prunus amygdalus Batsch), without doubles (Fig. 1).

with that of 'Ne Plus Ultra' and 'Solo'. Compatibility with 'Solo' not tested. Crosspollinates with 'Ne Plus Ultra' and 'Greek'.

#### Origin

'Dagan' originated from a cross between 'Marcona' x 'Poria' 10, made in 1966 by the Division of Fruit Tree Breeding. It was selected in 1970 as seedling Bet Dagan 6-68-66-26, and distributed for test planting in the form of top-grafts (1971). The original seedling fruited for 6 consecutive years and 3 harvests have been obtained on the topworked trees. Additional test trees were set up from budded nursery trees on bitter almond and Nemaguard peach at 2 locations.

#### Description

Tree. Growth is very vigorous, well branched, somewhat pendulous; shape is fairly wide during fruiting stage. Bears part (about 50%) on spurs, part on short laterals. Flowering period coinciding

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Zeller); kernel small-medium, verv

uniform, roundish to somewhat elonga-

Nut. Hulls easily; semi-hard shell, completely sealed (not attacked by orange moth, Ectomielois ceratoniae

DAGAN

Fig. 1. Nuts and kernels of 'Dagan' almond.

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### 'Solo' Almond<sup>1</sup>

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Additional index words. Prunus amygdalus, fruit breeding

'Solo' is a high-shell-out, well-filled, good shaped uniform almond (Prunus

amygdalus Batsch) with no doubles (Fig. 1).

#### Origin

'Solo' originiated from a cross between 'Marcona' x 'Greek', made in 1966 by the Division of Fruit Tree Breeding. It was selected in 1970 as seedling Bet Dagan 4-04-66-05, and dis-

tributed for test planting in the form of topgrafts (1971). The original seedling fruited for 6 consecutive years, and 3 harvests have been obtained from top worked trees. Additional test trees were set up from budded nursery trees on bitter almond and Nemaguard peach at two locations.

ted, well filled with smooth surface.

Seed coat medium to dark brown. No doubles. Highly flavored, with distinct aroma. In-shell wt, 2.5 g; kernel wt 1.0-

1.1 g; shell-out, 35-38%. Average seed dimensions are 21 mm (length), 14 mm

(width) 9 mm (thick). Shell medium

brown, smooth and attractive. Upper seam most pronounced. Adapted for all

uses: in shell, kernels, and confectionery. Distinct aroma. Kernel appearance

Yield. Kernel vields per tree usually

Patent pending. Budwood will be

available from the authors, at the Vol-

cani Center, Bet Dagan, Israel, Tested

virus free budwood will be available

very good, equal to, or higher than

might benefit from blanching.

those of standard cultivars.

Availability

in 1977.

### Description

Tree. Growth is very vigorous, well branched, and upright. Widens upon bearing. Fruiting mainly on spurs. Flowering period coinciding with that of 'Ne Plus Ultra' and 'Dagan'. Crosspollinates with 'Ne Plus Ultra' and 'Greek'.

Nut. Hulls easily, soft, paper shell, partly open. Kernel of medium size, regular, somewhat elongated. In-shell wt 2.3 g, kernel wt 1.4 g, average shellout 58-62%. Average seed dimensions 23 mm (length) 14 mm (width), 8 mm

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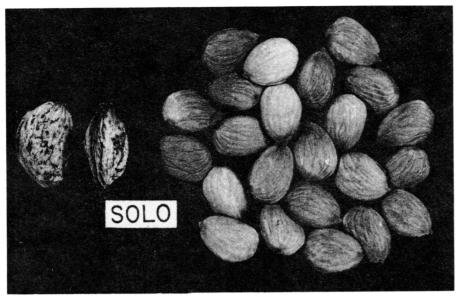


Fig. 1. Nuts and kernels of 'Solo' almond.

(thick).

Outer shell not attractive, soft, with cracks. Seed coat medium brown, well filled, smooth, even surface, well shaped, very uniform size, consistently without any double kernels. Taste is good, neutral, and slightly sweet. Adapted for confectionery and sugared almonds, and when good sized also for table use (shelled).

Yield. Medium to good, about equal to 'Ne Plus Ultra', somewhat below 'Greek'

#### Availability

Patent pending. Budwood will be available from the authors, at the Volcani Center, Bet Dagan, Israel. Tested virus free budwood will be available in 1977.

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## 'Patriot' Blueberry<sup>1</sup>

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'Patriot' a new hardy blueberry, Vaccinium corymbosum L., originated in the cooperative blueberry breeding program of the Maine Life Sciences and Agriculture Experiment Station and the U.S. Department of Agriculture. It has performed well at Jonesboro, Maine, Maryland, North Carolina, and Oregon. The name 'Patriot' was assigned in recognition of the U.S. Bicentennial.

#### Origin

'Patriot', tested as MeUS-32, originated from a cross between 'US-3' ('Dixi' x 'Mich. LB-1') x 'Earliblue' made at Beltsville, Maryland. Seedlings of this particularly vigorous

'Patriot' is an upright, relatively open, vigorous highbush, even though one of its grandparents, 'Mich. LB-1',

Description

by Dr. Leslie Whitton in 1957.

was lowbush, V. angustifolium Ait. (3). In Jonesboro, Maine, where minimum temperatures reach -29°C most years, 'Patriot' attains a height of about 1.5 m. In warmer climates, it is typically highbush in growth habit. In Maine, it bears more consistently and with higher yields than other highbush cultivars. Plant survival has also been superior.

progeny were planted in Jonesboro.

Maine in 1954. MeUS-32 was selected

'Patriot' has large, slightly flattened fruit that in 1975 averaged 2.6 g (49 per cup) at midharvest, and 2.0 g (70 per cup) in late harvest. The fruit is firm and the scar is very small, dry and recessed. Color is good and the flavor is very good, equal to or superior to other selections or cultivars. It begins ripening between 'Earliblue' and 'Bluecrop' and with 'Collins'. 'Patriot' may require fruit bud thinning to concentrate ripening and harvest.

'Patriot' is the only known source of resistance to root-rot caused by Phytophthora cinnamomi Rands in a commercial type blueberry (1, 2). It is expected to extend northward the range under which blueberries may be grown. It is thus expected to be adapted to home garden and market garden enterprises, particularly in the Northeast. Its use as a replacement variety for commercial plantings has not been determined.

#### Availability

Rooted cuttings were distributed to nurserymen from the Atlantic Blueberry Company, 475 S. Chew Road, Hammonton, N. J. 08037, in the spring of 1976. Plants should be available to growers from nurseries in fall 1976 and spring 1977. Neither the Maine Agriculture Experiment Station nor the U.S. Department of Agriculture has plants for distribution.

#### Literature Cited

- 1. Draper, A. D., S. M. Mircetich, and D. H. Scott. 1971. Vaccinium clones resistant to Phytophthora cinnamomi, HortScience 6:167-169.
- \_\_\_\_\_, A. W. Stretch, and D. H. Scott. 1972. Two tetraploid sources of resistance for breeding blueberries resistant to Phytophthora cinnamomi Rands. HortScience 7:266-268.
- 3. Johnston, Stanley and J. E. Moulton. 1967. The Bluehaven and Northland blueberry varieties. Quart. Bul. Mich. Agr. Expt. Sta. 50(1):46-49.

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