

with all the other cultivars and selections with which it has been used.

'Vista Bella' has been tested widely as NJ36. It has been rated promising for limited commercial production as the best dessert apple to start the season in New Jersey, Maine, Michigan, New York, Ontario, Poland, Yugoslavia and Guatemala. It seems to be widely adapted since there have been good reports from areas with cold winters such as Maine, Canada and Poland, as well as from areas with warm summers, such as southern New Jersey and central Yugoslavia. 'Vista Bella' bloomed normally and produced fruit of characteristic good quality and appearance on the finca Vista Bella at an altitude of 7500 ft. in the tropical highlands of Guatemala. There the winters are very mild, and during the growing season it is very cool, usually with cloud cover throughout most of the day. This unexpected good performance in the

tropical highlands of Guatemala is the basis for the selection of the name 'Vista Bella'.

The series of early, good quality apples from Rutgers (2, 3) will make it possible to have profitable production of summer dessert apples that can be competitive with fruit from the previous year's harvest that has been held in CA storage.

Trees of 'Vista Bella' are available from several commercial nurseries in the U.S. and Canada.

Literature Cited

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'Adria', an Early Ripening Peach from New Jersey Introduced in Yugoslavia¹

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The peach cultivar 'Adria' (formerly NJ224) is being released jointly by the New Jersey Agricultural Experiment Station at New Brunswick, N. J., USA, and the Agricultural Institute of Slovenia at Ljubljana, Yugoslavia, ('Adria' is the Latin name for the Adriatic Sea.) In 1960, selection NJ224 and several other selections were sent to Ljubljana for testing. 'Adria' has proved to be a hardy, productive, good quality, yellow-fleshed cultivar

for the very early season. It ripens about with the white-fleshed cultivar 'Springtime', or one week to 10 days before 'Collins', which is the earliest ripening yellow-fleshed cultivar grown commercially in Yugoslavia at the present time.

'Adria' has been tested extensively in cultivar selection test plantings at Gorica, Koper, Krsko and Ptuj, all in Slovenia, in northwestern Yugoslavia

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Figure 1. Areas where 'Adria' has been tested.

(Fig. 1). The production regions of Gorica and Koper, situated near the Adriatic Sea, are the two main peach producing regions in Slovenia. Krsko and Ptuj are located inland with a climate that is transitional between subalpine and continental. There is less rainfall inland than at Gorica and Koper (Table 1) and the winter temperature as well as growing season temperatures are colder. At Ptuj the absolute minimum temperatures in January, the coldest month, are critical for bud survival.

'Adria' has been productive in all of the above 4 areas. The horticultural characteristics were evaluated by the official boards at the Agricultural Station at Gorica and at the Agricultural Institute of Slovenia, including the members of the Biotechnical Faculty at Ljubljana. One of the members of the board at Gorica is an expert from the Agricultural Kombinat Gorica.

Origin

'Adria' resulted from a cross made in 1955 by Dr. L. Fredric Hough and Dr. Catherine H. Bailey at the New Jersey Agricultural Experiment Station. Its parentage is:

Adria = 492012 × 5110043

492012 = Sunhigh × Blake

5110043 = Jerseyland × NJ156

NJ156 = Raritan Rose × Duke of York

The seeds of this progeny were germinated in the greenhouse in February 1956; the seedlings were planted in the orchard for fruiting in the spring of 1956. The first fruits were observed in 1958. In 1960 it was given the introduction number NJ224 and trees were distributed to growers in New Jersey and to experiment stations in the United States, Canada and Europe.

Under the growing conditions in New Jersey, the fruit of NJ224 was not firm enough or large enough to compete with that of the cultivars coming in from the southern states at that season.

Fruit Characteristics

The fruits of 'Adria' ripen about 1 week to 10 days before 'Collins' (Table 2).

The fruit is irregularly roundish-oval in shape, of small to medium size, with an average diameter of 54.4 mm. It has a bright red color, striped and splashed over 60% of its surface on a light yellow ground color. The pubescence is short. In Slovenia, 'Adria' has a 3-year average rating of 4.18 (highest is 5) for its external appearance.

Table 1. Climate of the Peach-Growing Areas in Slovenia.

Locality	Average yearly ppt. mm	Average temp. °C	Average minimum temp. °C	Absolute minimum temp. °C	Average highest temp. °C
Gorica	1520	13.1	3.4	-5.6	22.9
Koper	1130	13.5	5.2	-4.9	22.5
Krsko	1062	10.4	-0.7	-7.4	20.5
Ptuj	948	9.7	-1.5	-17.4	20.1

Table 2. Ripening Dates for Several Peach Cultivars.

Cultivar	Location		N.J. Agric. Exp. Station
	Near Adriatic Sea	Inland	
Adria	June 17-22	June 30	July 7
Springtime	June 17-22	June 30	July 5
Collins	June 26-July 6	July 9	July 17
Redhaven	July 20-27	July 31	Aug. 1-3

In Slovenia, the flesh is orange-yellow, moderately firm, very juicy, aromatic and of an agreeable, sweet-tart flavor. Its 3-year average evaluation for flesh characters is 4.26. It is firm enough to hold up well for shipping and handling in Slovenia at the present time. The average cooler temperature during growing and ripening in Slovenia could account for the difference in firmness of 'Adria' as it is grown in Slovenia and in New Jersey.

It is a melting-fleshed clingstone. The pits often split during wet seasons.

Tree Characteristics

The tree is a vigorous, sturdy grower with relatively short internodes (less than 25 mm), with good budset. The leaf glands are reniform. The flower

has bright pink, large, showy petals. The flower buds are hardy. 'Adria' blooms about the same time as 'Redhaven'. With the recommended spray program, diseases and insects can be controlled. Under conditions of artificial inoculation at the New Jersey Agricultural Experiment Station, the trees of 'Adria' were found to be resistant to the canker caused by *Fusicoccum amygdali* Del.

Because of its early season of ripening, productivity and fruit qualities, 'Adria' is being released jointly by the New Jersey Agricultural Experiment Station and the Agricultural Institute of Slovenia. 'Adria' will be of interest on the state farms and among private growers in all the peach-producing regions of Slovenia, and in other peach-producing regions with similar growing and marketing conditions.

The Bregger Essay Awards for 1975 For Undergraduate and Graduate Students in Horticulture

This award is made annually for meritorious essays, between 1,000 and 1,500 words in length, related to the *origin, improvement or nomenclature* of fruit cultivars.

Recognition is made in the form of cash prizes: First — \$50.00; Second — \$30.00; Third — \$20.00. The awards are provided by a past president of the American Pomological Society.

The contest is open to undergraduate and graduate students in Horticulture who are presently enrolled in universities and colleges of the United

States and Canada.

Essays must be typewritten in English, double spaced on 8½ x 11" white paper, and submitted in triplicate. Proper identification of the author should be given, such as name, address, class, college and major.

Entries must be received by the Award Committee no later than March 1, 1975.

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