

PLANT SCIENCES

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'Honeoye' and 'Canoga' Strawberry Cultivars

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'Canoga'

'Honeoye'



The strawberry breeding program at Geneva has concentrated on flesh firmness and tough skins with special emphasis placed on fruit rot incidence, plant hardiness, freezing ability, productivity, and consistent performance.

DESCRIPTION OF CANOGA'

'Canoga' (tested as N. Y. 1362) was produced from a cross between N. Y. 1123(Senga sengana x 'Midland') and 'Holiday'(Fig; 1). The original cross was made in 1969 from which 'Canoga' was selected in 1971 for second test. Its most outstanding characteristics are its very firm flesh, tough skin, and large fruit size.

Plant—vigorous with upright, dark greenish blue foliage; medium length petioles; not a profuse runner producer but makes a good matted row of well-spaced plants; very productive.

Fruit—ripens in late midseason; first fruits very large, wedge conic with an intense brick red color. Fruits have good keeping quality on the plant frequently allowed to become too dark before harvested; must be kept picked when of good color. Seeds yellow and even with the fruit surface. Flesh dark red throughout.

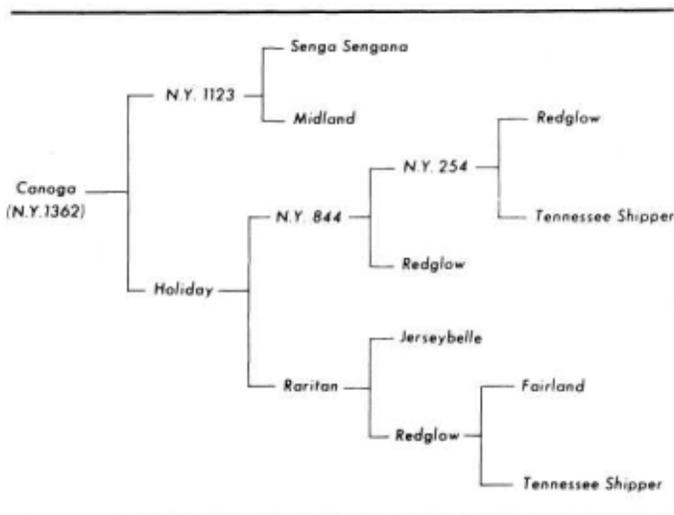


Figure 1.—Pedigree of 'Canoga' strawberry.

DESCRIPTION OF HONEOYE'

'Honeoye' (tested as N. Y. 1409) was produced from a cross between 'Vibrant' and 'Holiday' (Fig. 2). 'Vibrant' was used as a parent because of its consistent productivity but lacked fruit size and firmness. 'Holiday' on the other hand, was used for its fruit size, flesh firmness, and tough skin. The original cross was made in 1970 from which 'Honeoye' was selected in 1972 for second test. 'Honeoye' has been a consistent performer, productive with a low incidence of fruit rot and good crown or winter hardiness.

Plant—very vigorous, upright medium to dark green foliage; long petioles; good runner producer making a good

matted row, very productive, reported by growers to have more winter or crown hardiness than other current cultivars.

Fruit— very large, conic with a bright red glossy color; ripening in midseason, average firmness and skin characteristics, primaries may exhibit a green tip but latter fruit is not affected.

'Canoga' and 'Honeoye' have not been tested for Ver-ticillium wilt and red stele resistance. In 1978, a large number of cultivars and selections were evaluated for incidence of various fruit rots. Data in Table 1 resulted from combined scores for all fruit rots (Botrytis, soft rots, and white mold). 'Canoga' and 'Honeoye' exhibited a significant low incidence to all three fruit rots.

Frozen whole and sliced fruit samples from cultivars and selections are continuously evaluated for acceptability. Table 2 shows the combined results for both types of samples which were scored for color, texture, and flavor. A scale of 1 to 10 was used with 10 being the maximum value. 'Canoga' and 'Honeoye' scored favorably in replicated trials.

'Canoga' and 'Honeoye' have been widely tested and accepted by growers from Massachusetts, New York, Pennsylvania, and Ohio before naming.

Table 1. Rot¹ incidence on strawberry cultivars and selections tested in 1978².

Cultivar or Selection	Mean Number Rotted Per 12	Reps.
Earlidawn	11.7 A	3
N. Y. 1476	11.2 A	5
N. Y. 1402	11.2 A	5
Vibrant	10.6 AB	5
Veestar	10.6 AB	5
N. Y. 1477	10.4 AB	5
N. Y. 1515	10.0 ABC	3
N. Y. 1531	9.8 ABC	5
N. Y. 1530	9.8 ABC	5
N. Y. 1415	9.8 ABC	5
N. Y. 1287	9.8 ABC	5
N. Y. 1475	9.4 ABCD	5
V6747R6	9.4 ABCD	5
Holiday	9.4 ABCD	5
MD 4359	9.2 ABCDE	5
N. Y. 1529	9.0 ABCDEF	5
N. Y. 1527	9.0 ABCDEF	4
N. Y. 1261	9.0 ABCDEF	5
Surecrop	9.0 ABCDEF	5
N. Y. 1366	8.0 ABCDEFG	3
N. Y. 1264	8.0 BCDEFG	4
Tenira	7.4 CDEFG	5
N. Y. 1285	7.2 CDEFGH	5
N. Y. 1524	7.0 CDEFGH	3
N. Y. 1431	7.0 CDEFGH	5
N. Y. 1368	7.0 CDEFGH	5
N. Y. 1333	6.8 CDEFGH	5
N. Y. 1362 (Canoga)	6.6 DEFGH	5
N. Y. 1384	6.4 EFGH	5
Guardian	6.2 FGH	5
N. Y. 1324	5.8 GH	5
N. Y. 1406	5.2 GH	5
N. Y. 1404	4.8 GH	5
N. Y. 1409 (Honeoye)	4.4 H	5

¹Combined score for all rots (Botrytis, soft rots, and white mold).

²Data supplied by Dr. H. S. Aldwinckle, Department of Plant Pathology, New York State Agricultural Experiment Station.

Table 2. Taste panel results on frozen fruit samples. Combined scores for color, texture, and flavor¹ for whole and sliced fruits.

Whole		Sliced	
1. Canoga	7.5	Holiday	7.1
2. Tenira	7.0	Tenira	6.7
3. Holiday	6.6	Canoga	6.5
4. Md. U.S. 4359	6.6	N. Y. 1524	6.4
5. Honeoye	6.3	Honeoye	6.4
6. N. Y. 1417	6.3	Earlidawn	6.3
7. N. Y. 1524	6.2	Md. U.S. 4359	6.3
8. Guardian	5.8	N. Y. 1264	6.3
9. N. Y. 1533	5.6	Guardian	6.2
10. Earlidawn	5.5	N. Y. 1417	6.2
11. Surecrop	5.3	Surecrop	6.0
12. N. Y. 1264	4.2	N. Y. 1533	4.7

¹Scale of 1-10 with 10 being the maximum value.

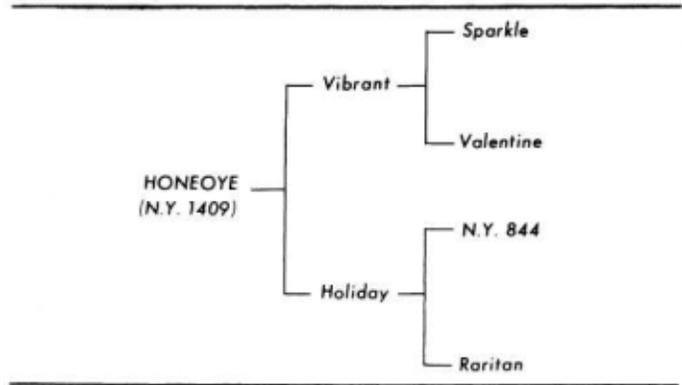


Figure 2.—Pedigree of 'Honeoye' strawberry.

AVAILABILITY

'Canoga' and 'Honeoye' plants are available from the New York State Fruit Testing Cooperative Association, Geneva, N. Y. 14456 and from Nourse Farms, Inc., South Deerfield, Mass. 01373.