APPLICATIONS UNDER EXAMINATION

APPLE

APPLE

(Malus pumila)

Proposed denomination: 'CAP001' Application number: 17-9305 Application date: 2017/10/06

Applicant: CAP Farms Inc., Grafton, Nova Scotia

Breeder: Andrew Parker, CAP Farms Inc., Grafton, Nova Scotia

Variety used for comparison: 'Honeycrisp'

Summary: The relative area of over colour on the fruit of 'CAP001' is small whereas for 'Honeycrisp' it is large. The hue of over colour on the fruit of 'CAP001' is orange red whereas for 'Honeycrisp' it is red. The intensity of over colour on the fruit of 'CAP001' is weak whereas for 'Honeycrisp' it is medium. The area of russet around the stalk attachment, on the cheeks and around the eye basin of the fruit of 'CAP001' is large whereas that for 'Honeycrisp' is absent or very small.

Description:

TREE: weak vigour, columnar, spreading growth habit, fruit bearing on spurs only, begins flowering mid season, mid season fruit harvest and eating maturity

ONE-YEAR-OLD SHOOT: thin, reddish brown on side facing sun, absent or very sparse pubescence on distal half, medium number of lenticels

PETIOLE: small to medium extent of anthocyanin colouration from base

LEAF BLADE: outwards attitude in relation to shoot, medium length to width ratio, medium green on upper side, bicrenate incisions of margin on distal half, medium density of pubescence on lower side

FLOWER: predominantly yellowish pink at balloon stage, overlapping arrangement of petals, stigmas positioned above anthers

FRUIT: medium to large, medium height to diameter ratio, conic shape, absent or weak degree of ribbing, moderate crowning at calyx end, short sepal

FRUIT SKIN: absent or weak degree of bloom, absent or weak degree of greasiness, yellow green ground colour, small relative area of over colour, weak intensity of orange red over colour, over colour distributed as solid flush with weakly defined stripes, narrow stripes, large area of russet around stalk attachment, large area of russet on cheeks, large area of russet around eye basin, few lenticels, small lenticels

FRUIT STALK: medium thickness

FRUIT STALK CAVITY: deep, medium width

FRUIT EYE: small

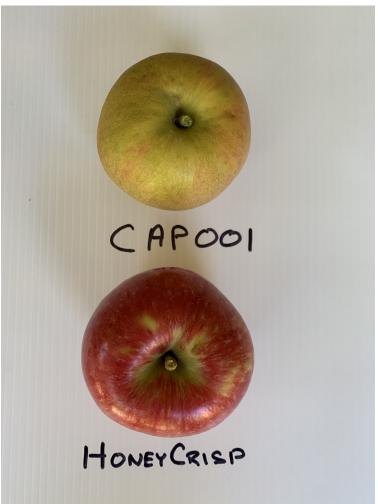
FRUIT EYE BASIN: medium to deep, narrow

FRUIT FLESH: firm, greenish, closed or slightly open aperture of locules in transverse section

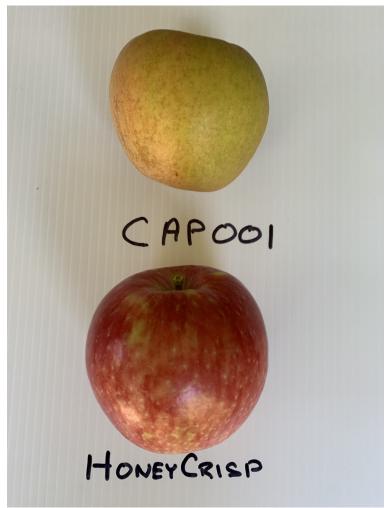
Origin and Breeding: 'CAP001' originated as a discovery made in 2012 in an orchard of 'Honeycrisp' trees at CAP Farms Inc., in Grafton, Nova Scotia. There were 3 distinctly different trees identified by their russeted skin and unique taste. The three trees were of unknown origin. These unknown trees were monitored over several years to confirm their uniformity of characteristics. In 2014, twenty five tree were budded from scion from the original trees. By 2016 and 2017 it was confirmed that the newly propagated trees retained the same characteristics of the original three trees. In 2017 an additional 100 trees were budded from scion from the 2014 trees.

Tests and Trials: The comparative trial for 'CAP001' was grown outdoors in a production orchard in 2022 in Grafton, Nova Scotia. The trial consisted of 10 trees of each variety planted on M-26 rootstock in 2014. Trees were planted approximately 0.6 meters apart in rows spaced approximately 3.4 meters apart.





Apple: 'CAP001' (top) with reference variety 'Honeycrisp' (bottom)



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