

THE NEW PEAR VARIETIES | MADE IN UNIBO

BREEDING PROGRAM

Italy is the European Leader in the production of pears. Despite the large number of varieties available, only few of them find space in the market, covering a wide ripening calendar, which starts in the early august with William and ends in the early september with Abate Fetel and Kaiser.



In the early '90s the Department of Agricultural Sciences of the University of Bologna began the pear breeding program, whose most important objectives

were: the enlargement of the ripening calendar with new early and late varieties; the high fruit quality; the selection of red-skin pears and the introduction of resistance or tolerance to the major pests of pears (particularly Psyllids and Fire blight). In these years, more than 20,000 seedlings have been obtained from more than 270 combinations of crosses.



To date, the breeding activity, which is being supported by CIV (Consorzio Vivaisti Italiani, based in Ferrara) since year 2007, has

led to the protection of the intellectual properties of the most promising pear selections. Indeed, three applications for obtaining Community Plant Variety Rights has been recently filed by the University of Bologna. The new three pear varieties have the following varietal denominations (*) and have been also associated with different trademarks [TM]: "PE1UNIBO* Lucy SweetTM", "PE2UNIBO* Early GiuliaTM" and "PE3UNIBO* Debby Green™". The main characteristics of these novelties are the following: early ripening period (before William); good productivity and yield; high fruit quality; good storability at cold and controlled conditions, demonstrated by several years of observations, and higher than the competing cultivars of the same period.

PE1 UNIBO* Lucy Sweet™

(CPVR* 52911/2019: US2015/0327416P1)

Harvest date

Last decade of July-early August (10 days before William).



Tree
Medium-high vigour,
compatible with quince.
Early bearing; high and
constant yield.

Bearing habitus similar to Abbè Fétel on 2-3-year-old branches.



Fruit

Medium size (170g) and pyriform shape (typical pear-shaped fruit).
Green skin, even when fully riped, with slight russet.
Melting and juicy flesh with fine texture.
Very good sweet flavour.

Edible also when crunchy at the picking time. Good storability in cold room at -1°C (about 5 months) with no treatments against internal browning.

	Firmness (Kg)	SSR (°Brix)	Acidity (g/l)
Harvest time	6.0	15.7	2.8
Post-Cold Storage	1.6	16.9	2.5

^{*}CPVR: Community Plant Variety Right

PE2 UNIBO* Early Giulia™

(CPVR* 52912/2019; US2015/0327417P1)

Harvest date

Last decade of July (15 days before William).



Tree

Medium vigour, compatible with quince rootstocks.
Early bearing; high and constant yield.

Bearing habitus on 2 year-old branches and 1-year-old shoot.



Fruit

Medium-large size (over 200g), pyriform shape (typical pear-shaped fruit). Green skin, yellow when fully ripe with 20-30% over-colour. White, crispy and juicy flesh with fine texture

Good flavour: sweet and also sour.

Good storability in cold room at -1°C (about 5 months) with no treatments against internal browning.

	Firmness (Kg)	SSR (°Brix)	Acidity (g/l)
Harvest time	5.6	13.4	4.6
Post-Cold Storage	1.7	15.9	3.3

PE3 UNIBO* Debby Green™

(CPVR* 52913/2019: US2015/0327415P1)

Harvest date

First decade of August (few days before William).



Tre

Medium vigour, slightly compact, compatible with quince. Early bearing, high yield. Bearing habitus on 2-3-year-old branches and 1-year-shoot. Late flowering.



Fruit

Medium size (180-200g), elongated pyriform.

Green skin, yellow-green when fully ripe with slight russet.

White, melting and juicy flesh with medium-fine texture.

Good flavour: sweet and quite sour.

Good storability in cold room at -1°C (about 5 months) with no treatments against internal browning.

	Firmness (Kg)	SSR (°Brix)	Acidity (g/l)
Harvest time	5.9	13.7	3.8
Post-Cold Storage	0.5	14.7	3.1

PE4 UNIBO* Lucv Red™

(CPVR* 55889/2020; US2015/0327418P1)

Harvest date

Last decade of August (few days after William).



Tre

Medium vigour; low compatibility with quince rootstocks (interstem); medium yield; bearing habitus on 1-year-old shoots and 2-year-old branches; late blooming.



Fruit

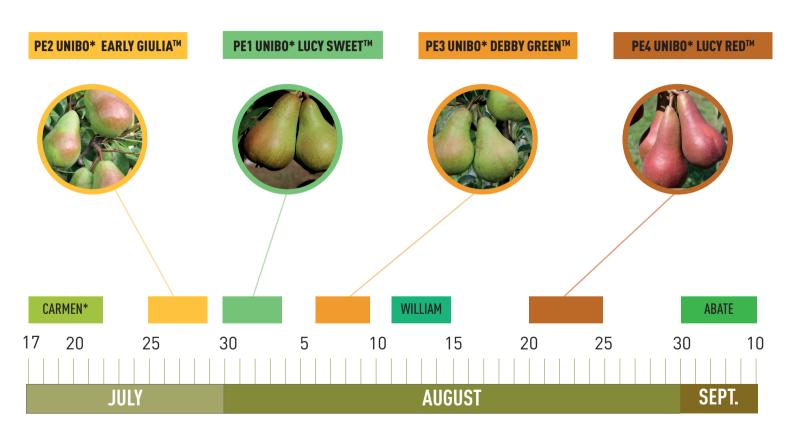
Big size (over 200 g). Attractive and elongated pyriform shape.

Smooth fruit skin with intense red over colour of 90% of the surface.

White, crispy, juicy flesh with medium-fine texture. Well-balanced flavour, slightly aromatic. Good storability in cold room at -1°C (about 6 months) with no treatments against internal browning.

	Firmness (Kg)	SSR (°Brix)	Acidity (g/l)
Harvest time	6.5	14.1	3.8
Post-Cold Storage	1.4	14.8	3.5

RIPENING CALENDAR







Contacts

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