

The possibilities of spring budding in the conditions of the Czech Republic for cultivation of plum nursery trees

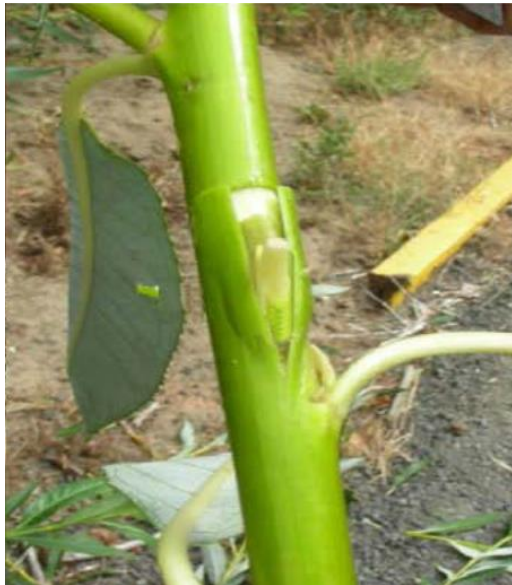
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Type of Budding



T-budding

- limited period in which the bark will lift to allow bud insertion



Spring budding

- late of April
- Chip budding

Chip budding

- Does not require bark to slip



Summer budding

- August
- T-budding and Chip budding

Material and Method



Material

Rootstock:

- Citation[®] Zaipime
- Ishtara[®] Ferciana
- St. Julien Hybride N°2
- Torinel[®] Avifel
- Penta[®]
- Pumiselect[®]

Scion:

- Shiro
- Angelano[®] Suplumsix
- Fertility (interspecific hybrid)
- Black Amber
- SLE2014/1 (interspecific hybrid)
- Stanley

Method

- Budwood cut in December and stored in fridge by 0°C
- Rootstock grow up in March
- Budding by Chip Budding in May
- Evaluation 31.5. and 30.6. - hight, 30.10. - hight, number of shoots and diametr new plant in place of budding
- Annual average temperature: 10,7°C; Annual rainfall: 396,2 mm
- Nursery with irigation but with tired soil
- Statistic analyzes by STATISTICA 10

Results



Bud take (%)

Variety:

- 70 % Shiro (100 % on Isthara rootstock)

Rootstock:

- 81.1 % Penta

Diameter in place of budding (mm)

Variety:

- SLE2014/1 → 5.07 ± 0.24 mm

Rootstock:

- Torinel → 7.34 ± 0.34 mm

Totally height (cm)

Variety:

- SLE2014/1 → 38.58 ± 2.26 cm

Rootstock:

- Torinel → 47.13 ± 3.53 cm

Number of shoots (pcs)

Variety:

- Angelano 4.48 ± 0.46 pcs

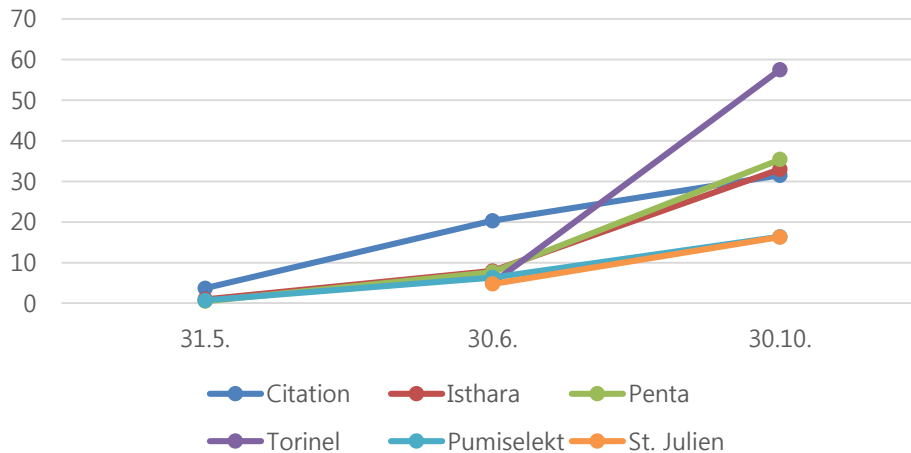
Rootstock:

- Torinel → 5 ± 0.67 pcs

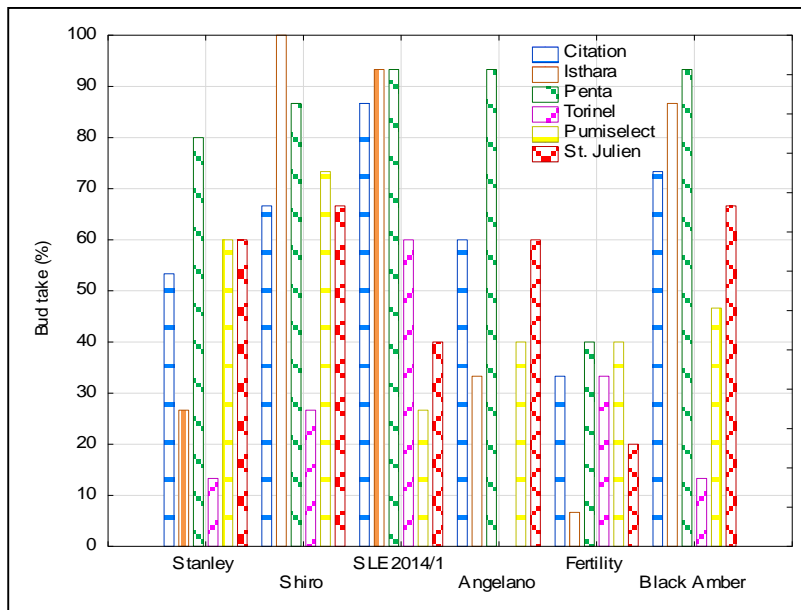
Results



Variety of Shiro, growing after budding



- During 1st growing period was growing slow, but during 2nd growing period was growing much effective.



- Rootstock Penta (column with green color) with bud take over 80 % with all of 5 varieties of plum (40 % bud take with Fertility).
- Variety of Fertility is not suitable for spring budding (Average bud take 28.9 %) probably problem with affinity

Results



Shiro/Isthara 31.5. 2017



SLE201/1/Penta 31.5. 2017

Results



Black Amber/Penta 30.6. 2017



SLE2014/1/Citation 30.6. 2017

Thank you for your attention