





XII IRO CONFERENCE May 2021 LUBLIN, POLAND

The latest summary of raspberry production in Serbia











The COVID-19 outbreak impact

- Unexpected outbreak of Corona virus (COVID-19) disease
- The pandemic affects every industry worldwide
- Around 700.000 registered cases in Serbia
- A significant **slow down** in the first few months, specially in the **logistics** and **transportation** department

The COVID-19 outbreak impact

Precautionary measures:

In the fields

- Voluntarily face masks
- Keeping distance was facilitated because of the big and open space

In the cold store

- Mandatory face masks
- Checking body temperature before entering the facility
- Daily disinfection procedures + weekly long and detailed procedures











The COVID-19 outbreak impact

- Conclusions

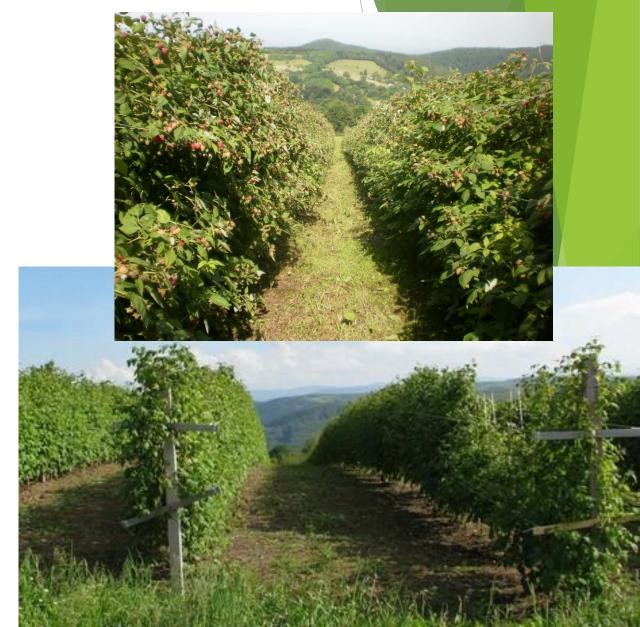
- At the beginning the biggest issues were the transportation process and lack of workers.
- After the adaptation period, frozen fruits have took over a part from the fresh fruit market.

Overall – the impact of the COVID-19 outbreak was **not just negative**, after including some **modifications**, the work was continued as closely to normal as possible.

Raspberry production in Serbia in the last

decade

Year	Production (t)
2011	84 050
2012	65 376
2013	67 548
2014	84 575
2015	110 900
2016	95 000
2017	105 000
2018	96 000
2019	92 000
2020	95 000

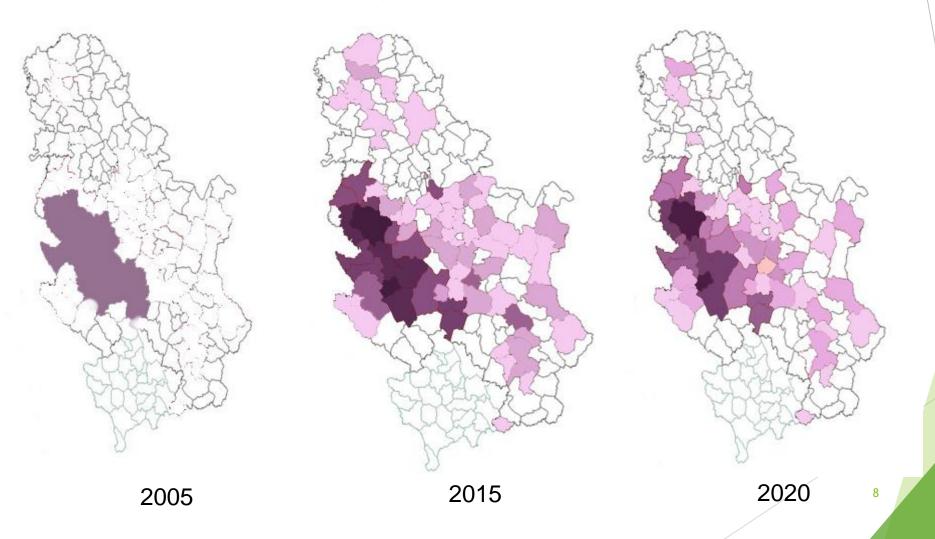


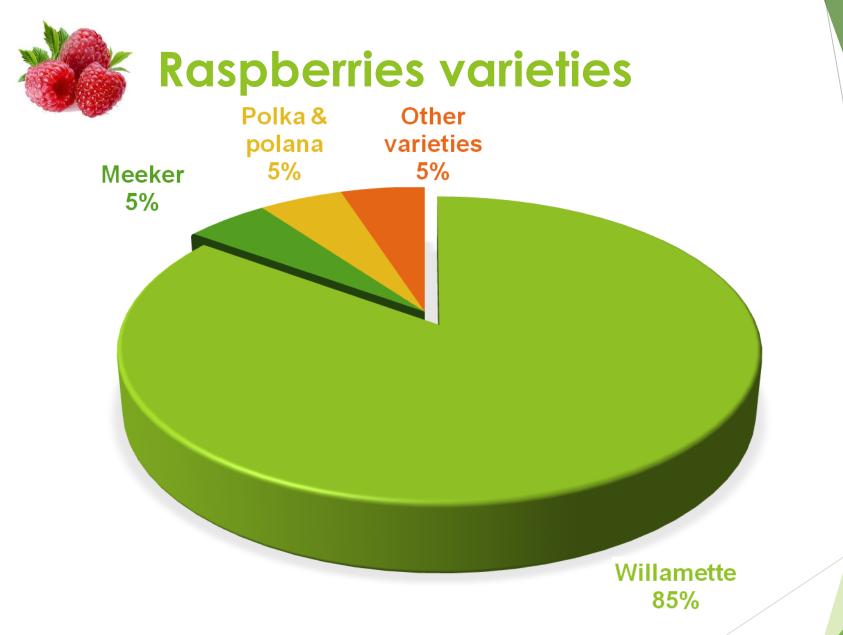
Annual raspberry production in the last decade

Raspberry production in Serbia



Raspberry production in Serbia over the years





Willamette



Meeker





Polka



Polana





Fertodi Zamatos



<u>Tulameen</u>





Heritage



Raspberry plantation in the first year



Irrigation system





Manual raspberry harvest





Mechanical raspberry harvest



Primary production hygiene





Акредитационо тело Србије

00991

Београд додељује

СЕРТИФИКАТ О АКРЕДИТАЦИЈИ

којим се потврђује да

Институт за хигијену и

технологију меса

Лабораторија за биотехнолошка истраживања и контролу безбедности и квалитета хране

Београд

акредитациони број

01-049

задовољава захтеве стандарда fulfils the requirements of

SRPS ISO/IEC 17025:2006 (ISO/IEC 17025:2005)

те је компетентна за обављање послова испитивања

који су специфицирани у обиму акредитације as specified in the scope of accreditation

Важеће изпање обима акрелитације доступно је на интернет agpecu: www.ats.rs Valid scope of accreditation can be found at: www.ats.rs

Сертификат додељен 01.03,2016.



в. д. Директор

Акредитација важи до Date of expiry 29,02,2020.

Акредитационо тело Србије је потписник Мултилатералног споразума о признавању еквивалентности система акредитације Европске организације за акредитацију (EA MLA) и ILAC MRA споразума у овој области. / ATS is a signatory of the EA MLA and ILAC MRA in this field.

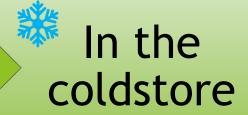


Crop hygiene





1.From field to coldstore



Harvesting instructions







Hand hygiene

In the field

Hand hygiene is MANDATORY!

Daily CONTROL and SURVAILANCE is necessary.



Mobile toilet







Transport of fresh raspberry to coldstore



Coldstore hygiene**





All creates have to be washed and disifected

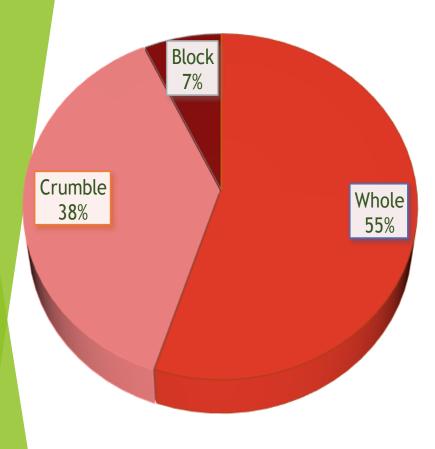


There are few hundered coldstores in Serbia.

Total capacity is over 250 000 tonnes in the -18°C regime.



Fraction of frozen raspberries





Hand sorting raspberries



Laser sorting raspberries



Transport of frozen raspberries



Continual education of farmers





The financial support of the Ministry of Agriculture has to be emphasized







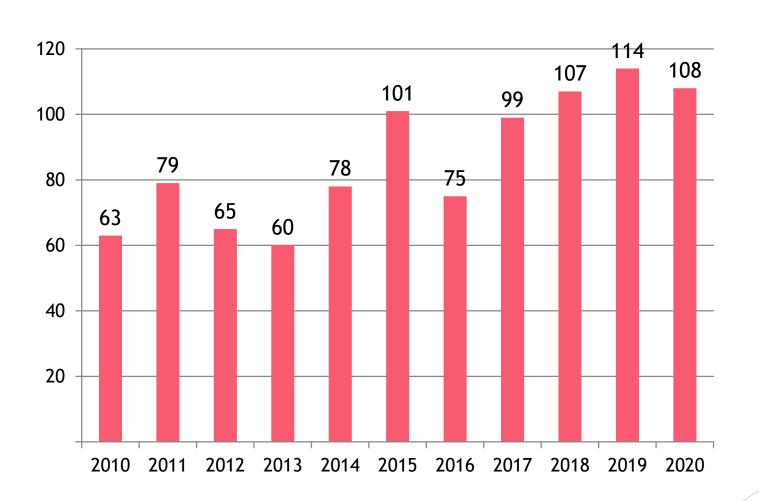




New machine for mechanical raspberry picking is in the testing phase



Export of raspberry from Serbia in the last decade



Import of raspberry



Further development of frozen raspberries in Serbia

- 1. New request is more and more stronger **SUSTAINABILTY**
- 2. Profitable business for farmers
- 3. Permanent education for both sides: farmers and processors
- 4. Without mechanical harvest future is uncertain
- 5. Better yield correlated with varieties and technology of growing
- 6. 5 key elements

(quality, quantity, continuities, control, competitiveness)

Thank you for your attention!



