



InnoFruit

#R004

Advancement of non-technological innovation performance and innovation capacity in fruit growing and processing sector in selected Baltic Sea Region countries

Activities and accomplishments of LatHort (PP1)



Edgars Rubauskis
Institute of Horticulture (LatHort)

Jaunmoku palace, Latvia February 18 – 19, 2019

Activity 3.1: Development of demonstration objects in orchards

Purchased:

plant protection, fertilising items and small tools for management of demo objects.





Activity 3.1: Development of demonstration objects in orchards

Shears and saws powered by engine and with high capacity of working hours, equipped with an extended handle to allow for managing, pruning high trees, their canopy.



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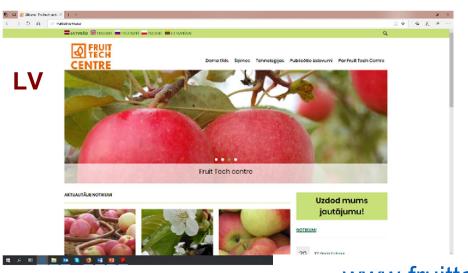


Activity 3.1: Development of demonstration objects in orchards



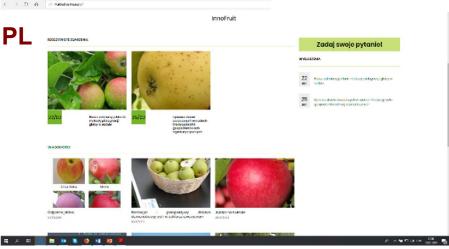
Activity 3.2: Improvement and expansion of the Technology Transfer Centre webpage

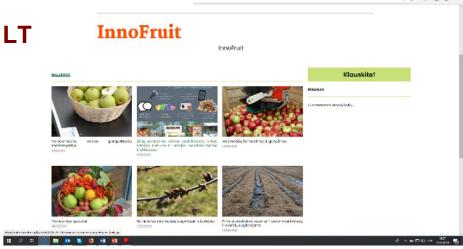
Improved and expanded webpage of the Technology Transfer Centre for an enhanced use by SMEs in the BSR countries; the mobile version of the website;











Activity 3.4: Development of tools for innovation transfer

App. for smart phones and devices - contains the cultivar-specific information.

https://play.google.com/store/apps/details?id=eu.fruittechcentre.mobile

«Resistant apples»







Healthy products for kids with reduced sugar content







If we don't use them, our body will

Interred

Online booklets and leaflets about the production of healthy niche products.

Established demonstration objects - premises for the processing of fruit and berries in order to demonstrate innovative technologies for efficient utilisation of by-products.



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Freezer

Dried fruit product grinder

Steam Jacked kattle

Established demonstration objects - premises for the processing of fruit and berries in order to demonstrate innovative technologies for efficient utilisation of by-products.



The ball mill - an innovative equipment for graining product very fine

Established demonstration objects - premises for the processing of fruit and berries in order to demonstrate innovative technologies for efficient utilisation of by-products



Equipment for drying of fruits, berries, vegetables and their processed products (incl. puree, pomace on silicone try).



Activity 3.3: Products development and demonstration

LatHort and «Berry plus» developed juice-based products, product prototypes: clear juices and juices with pulp (incl. smoothies), using local raw material, such as American cranberry, sea buckthorn, and other raw material of other fruit and berries with high nutritional value.



Activity 3.3: Products development and demonstration



Projekts "Netehnoloģisko un tehnoloģisko inovāciju kapacitātes attīstība augļu audzēšanā un pārstrādē Baltijas jūras reģiona valstīs" (InnoFruit). #R004 LatHort developed product prototypes on the basis of juice press cake with a high amount of dietary fibre also.

DI: Pārstrādes un bioķīmijas nodaļa

InnoFruit

PĪLĀDŽU SUKĀŽU PAGATAVOŠANAS TEHNOLOĢIJA Izstrādāja:
A.Olšteine, I.Krasnova, K.Juhnēviča

– Radenkova, K.Dukurs

Apstiprinu:

D.Seglina 09.03.2018



Sastāvdalas

Izejvielu nosaukums	Svars, g			
Pīlādžu augļi	1000			
Sīrups pārliešanai	1000			

Pagatavošana

- Sukāžu pagatavošanai izmanto pīlādžu šķirņu ogas, kurām salīdzinājumā ar savvaļas pīlādžiem ir mazāk rūgtvielu.
- Ogas attīra no ķekariem (kātiem, lapām, netīrumiem) un sasaldē -18 °C.
- Lai ogas neizžūst uzglabā saldētavā gaisa un mitruma necaurlaidīgā ienakojumā. Ieteicamais

Drayed rown berries



Jam with low amount of calories

Activity 3.3: Products development and demonstration



Marmalades - samples of sea buckthorns

New products based on fruit and berry press cake - sweets



Activity 3.6: Development of pilot and demonstration objects to enhance research capacity in horticulture

Plant storage complex to demonstrate possibilities for obtaining good quality planting material (an adjustable regime of temperature etc., ensuring prolonged storage time of the planting material and its constant quality during the storage period).



Activity 3.6: Development of pilot and demonstration objects to enhance research capacity in horticulture

Thermo chamber with equipment allowing to introduce fruit-growing farms with a new assortment of varieties suitable for the BSR climate.



Conduktometer for relative elektrolyte leakage detecting





Climate and plant growing cameras for temperature stress examination

High accuracy scale

Activity 3.6: Development of pilot and demonstration objects to enhance research capacity in horticulture

Thermo chamber with equipment allowing to introduce fruit-growing farms with a new assortment of varieties suitable for the BSR climate.

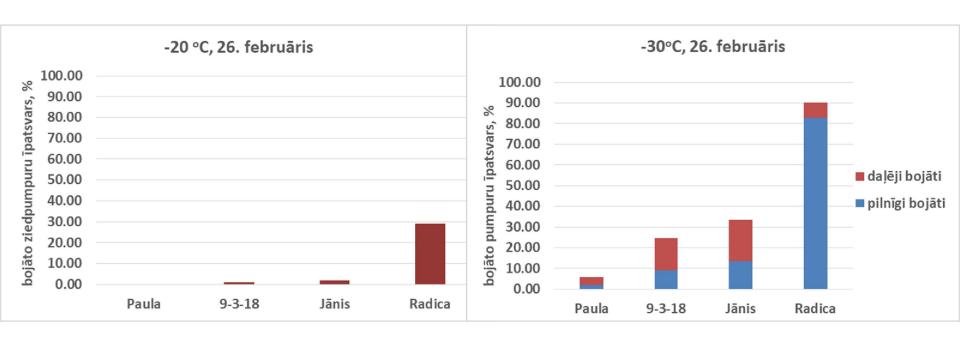


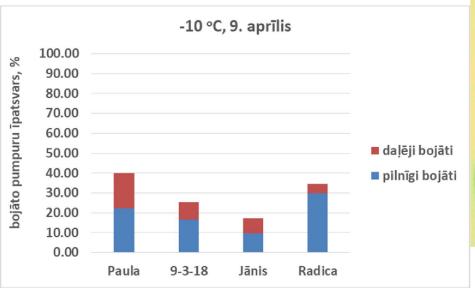
Stereo microscop for plant part examination

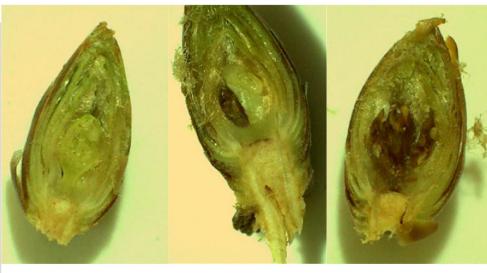


Shoots examination after freezing

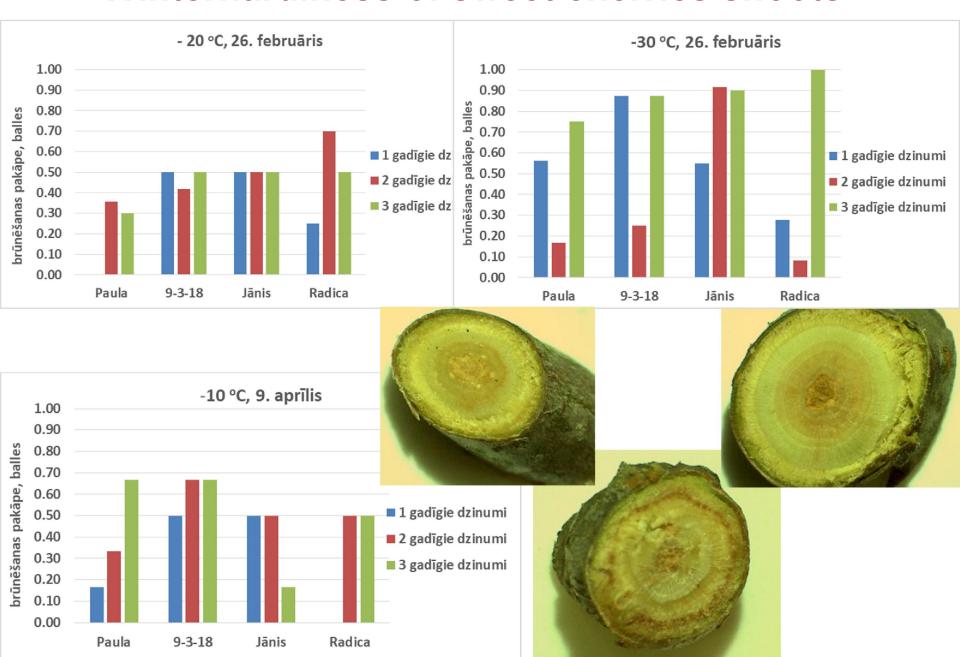
Winterhardiness of sweet cherry cultivars flowerbuds







Winterhardiness of sweet cherries shoots



Activity 3.6: Development of pilot and demonstration objects to enhance research

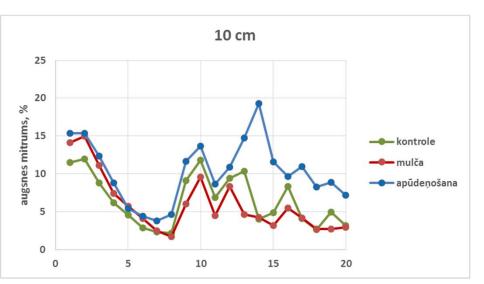
capacity in horticulture

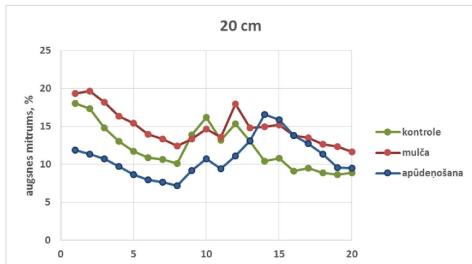
Demo object with a soil moisture measuring tool for simultaneously measuring soil moisture at different soil layers in one object.

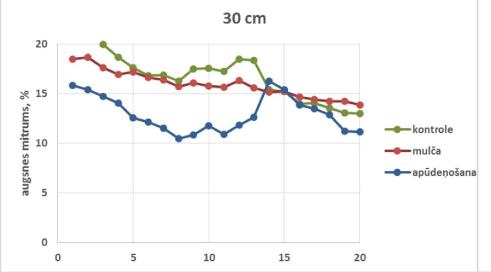


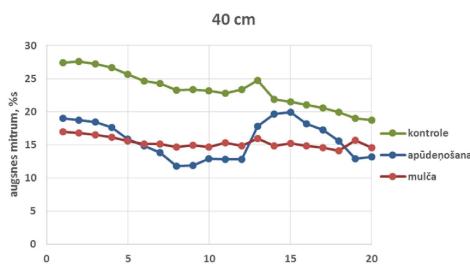


Soil moisture observation in trial with cherries including mulched and irrigated plots in dry season of 2018 (May – September)

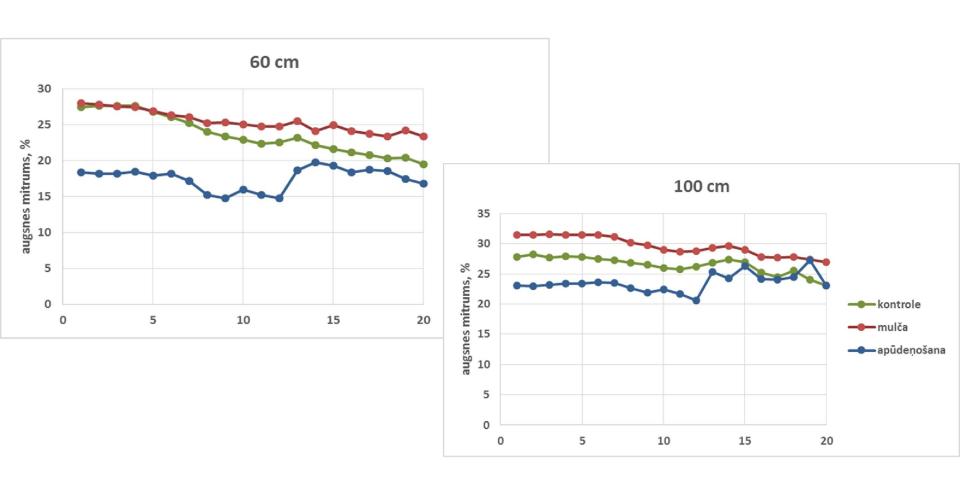








Soil moisture observation in trial with cherries including mulched and irrigated plots in dry season of 2018 (May – September)



Activity 4.1: Organisation of study visits and communicative events by LatHort (PP1)

Activities and events	Periods of Project						Total
	1.	2.	3.	4.	5.	6.	Total
Number of consultatins to increase unique farm and enterprise capacity	18	8	13	5	13	?	57
Number unique farms and enterprise participated at the «Field Day»*	39	27	27		(2 events)	0	93
Conferences organised with demonstration activities related to InnoFruit*	1					1	1
Conferences participated					2	?	2
Exhibitions*		3		4	1	4?	8
Seminars, lectures for farmers and entrepreneurs		5	1	4	1	?	11
Number of experts of experience exchange visits		8	44		4 (SE) + 41	0	97
Visits organised for foreigen experts					1	0	1

^{*} events provided with exhibitions of fruits

Activity 4.1: Organisation of study visits and communicative events by LatHort (PP1)





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Lithuania

Study visit of experts in 2017

Poland



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Sweden

May, 2018



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Lithuania

Study visits of experts in 2018

Poland



Activity 4.1: Organisation of study visits and communicative events by LatHort (PP1)



Study visit of experts from Lithuania and Poland to Latvia in 2018



Activity 4.2: Creation of the open demo-farm network model

LatHort signed at the moment **15** of CO-OPERATION AGREEMENTs about participation in demo-farm network according the project InnoFruit:

Līveni Ltd.; Krogzeme Ltd.; Poceri Ltd., Very Berry Ltd.; farm «Vīksnas 1»; farm «Ezermala»; farm «Kurpnieki»; farm «Mucenieki»; farm «Eglāji»; farm «Gaidas»; farm «levulejas»; farm «Jaunbrēmeles»; farm «Ķenteni»; farm «Lejasdārzi»; farm «Migldārzi»





Eglāji





Kurpnieki

Ķenteni

Gaidas





InnoFruit