



WP 5 Buckwheat

Prague 28 May 2019



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

WP1 - Creation of core collections and seed multiplication

- TASK1.1 Identification of wheat, potato, soybean and buckwheat genetic material
 - D1.1. Inventory of genetic resources for each target species
 - D1.2. Putative collection of each target species identified
 - D1.3. Distribution of species core collections among partners



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

TASK

5.1 Screening of genetic resources and breeding material (Janovská, Meglič)

- 42 genotypes from CZ GB – sent to – SI, US and AT
- Addition of “local” and commercial genotypes to final number – 60 – 70 genotypes
- List of genotypes was discussed and finalised;
- samples were sent at the end of April

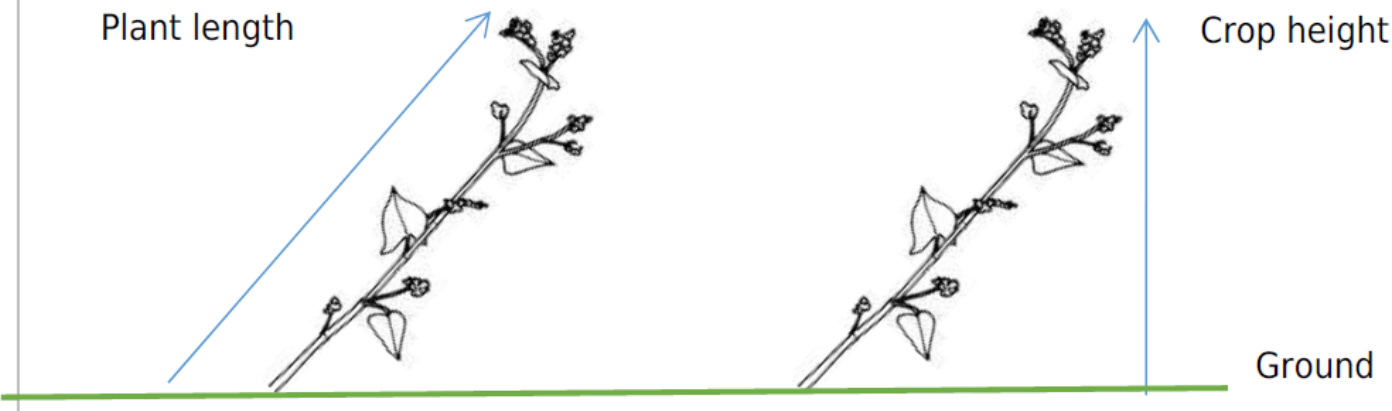


ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

D5.1 Phenotypic data management system produced for partners

2*	Plant length (cm) *
	Mean height measured from the ground level to the highest tip of shoots of at least 10 randomly chosen plants at physiological maturity
3*	Crop height (cm) *
	

(submitted)



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

TASK 5.2 Allelopathic activity screening (Sanchez, Billsborrow)

- 30 genotypes of CB were chosen from the list of 42 genotypes from CZ GB and 10 commercial varieties, 9 genotypes of TB from CZ GB and 4 from SI ready to give to UViGO
- Improving the bioassay, hired 2 researchers

TASK 5.3 Screening for genetic variation in P-mineralisation (Mühlbachová, Kolmanic)

- 10 commercial varieties were ordered, field trial design was discussed;



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

TASK 5.4 Genotyping (Zhou, Pipan)

- 200 genotypes from the CZ GB, Ukrainian GB and commercial varieties were sent to KIS, (168 CB, 31 TB and 1 FG), 25 grains per sample

TASK 5.5 Production of elite varieties and advanced breeding lines (Titan, Bernhard)

- Not started yet



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367

Deliverables

- D5.2 Characterisation of allelopathic activity of selected genotypes (M 48)
- D5.3 Characterisation of P-mineralisation capacity of selected genotypes (M 48)
- D5.4 Genetic diversity analyses of common buckwheat genetic resources (M 48)
- D5.5 Phenotypic characterisation of common buckwheat genotypes (M 54)
- D5.6 Buckwheat crosses (F1, F2, BC1 and BC2 generations), providing a starting point for the production of buckwheat cultivars suitable for organic farming (M 60)
- D5.7 Final publishable report on WP5 (M 60)





**Thank you very much
for your attention**



ecobreed
IMPROVING CROPS



Funded by European Union
Horizon 2020
Grant agreement No 771367