

# **Sustainable preservation of indigenous South-East European legumes and their traditional food and feed products**

Agricultural institute Osijek, Croatia

Department for breeding and genetics of forage crops



# era-168/012 agricultural institute Osijek

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Luka Andrić Ph. D. (seeding / Dep. for Seed)



# Overview

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- Gathered information on possible locations for the expedition
- Defined the locations at which collecting expeditions were organized
- We have selected three areas:
  - Lowland area between the rivers Drava, Sava and Danube
  - Central Istria
  - Dalmatian hinterland



# Peas - Collecting



## Material

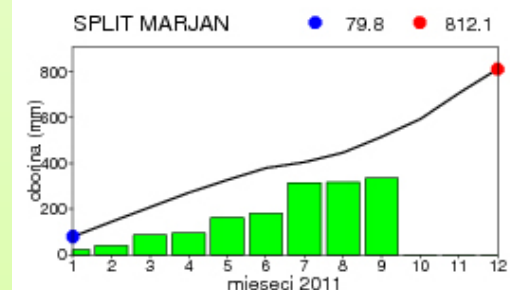
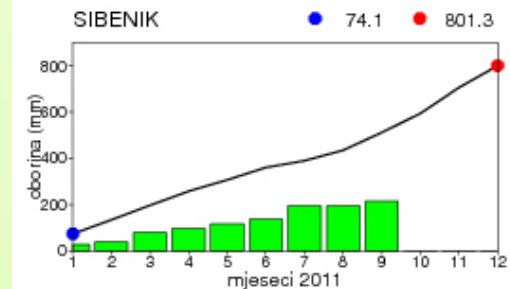
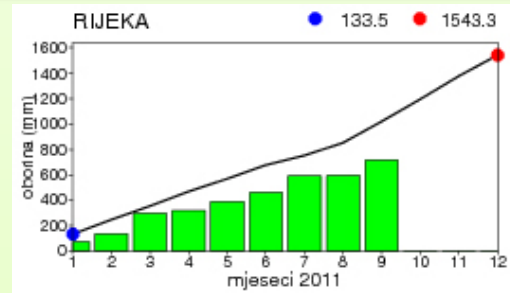
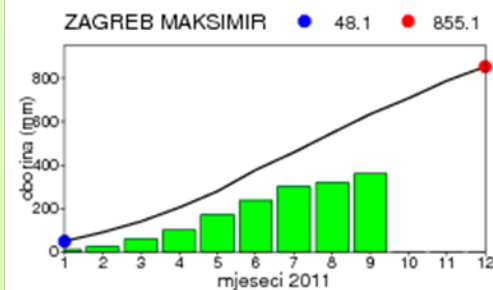
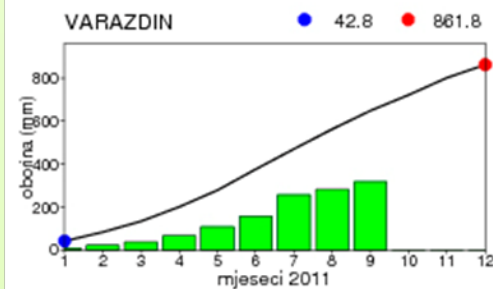
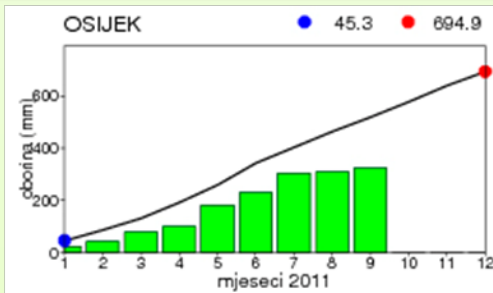
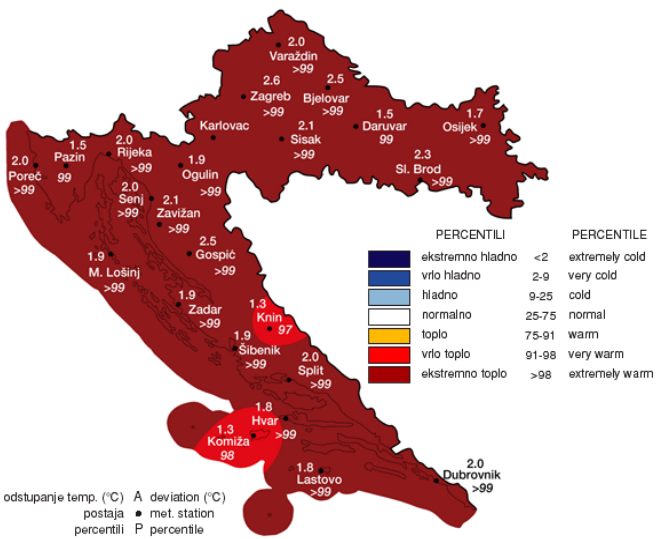
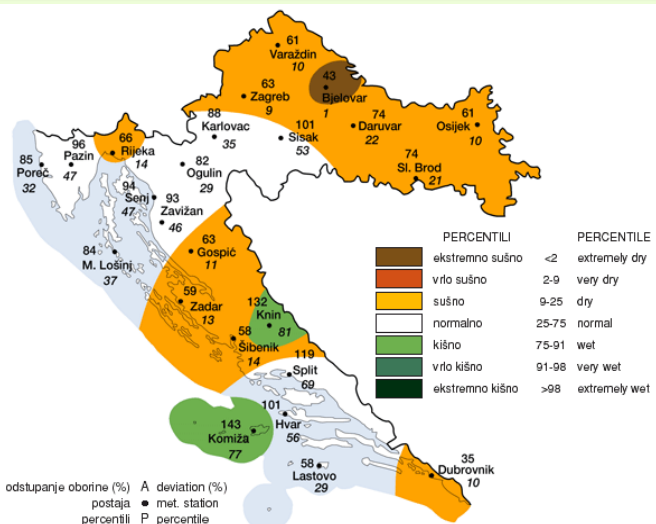
relatives of cultivated crops

and populations of old cultivars

as populations, prototypes



# Weather Conditions



# Plant collection and site information

## Plant Collection Information

PLANT INFORMATION		COLLECTION INFORMATION	
Scientific Name	<i>Phaseolus vulgaris</i>	Date Collected (mm/yyyy)	07/2011
Common Name	Grah "Slavonski zeleni"	Collector's Name	Cupic donar Djurkic H.
Cultivar/Release	Population	Purpose	Food
Number of Plants from which collected		35	
<input checked="" type="checkbox"/> Seed	<input type="checkbox"/> Vegetative Material	<input type="text" value="100"/>	Number of Seeds from which collected
COLLECTION SITE INFORMATION			
State	Croatia	Section	Hous and technical object
County	Vukovarsko-srijemska	N. Latitude	45°12'56"
Township	Slakovci	Range	100 m
		E. Longitude	18° 56' 58"
		Site Location (i.e. landmarks, roads, etc.)	Arable land 550m2
Elevation (m)	83	Slope (%)	0
Exposure (N,S,E,W)	all	Precipitation (in or mm)	150mm
Plants Growing in Association			
Near maize and soybean, other site is pasture with many perennial legumes ( <i>Lotus corniculatus</i> ) and sheep			
Soils Information			
Type of Soil: Series & Texture	Soil type (field, lawn, bush etc.)		Soils Mapping Unit Symbol
Eutric	Field		
Remarks			

### Notes

Slika: P6170089 P6170090  
 Slika sjemana :P 1010360  
 Opisano sjeme( 04/10/11)





# Lowland-East-C

Species	Accessions	Type	Purpose
<i>Ph. vulgaris</i>	12	Landraces	Food
<i>P. sativum</i>	7	Old cultivars/?	Feed/Food
<i>Lathyrus</i> sp.	2	Wild	
<i>Vicia sativa</i>	2	Wild?	Feed
<i>Vicia</i> spp.	2	Wild	Feed
<i>Vicia faba</i>	1	Cultivar?	Food



Tenje 45°31`07 N 18°44`51 E Elev 83 m  
 Petrijevci 45°37`04 N 18°32`18 E Elev 88 m  
 Dalj 45°28`57 N 18°59`06 E Elev 83 m  
 Slakovci 45°12`56 N 18°56`58 E Elev 85 m  
 Suza 45°47`06 N 18°46`23 E Elev 107 m  
 Kamenac 45°46`38 N 18°41`47 E Elev 82 m  
 Podravlje 45°34`06 N 18°40`18 E Elev 83 m  
 Duzluk 45°30`53 N 17°51`48 E Elev 261 m  
 Nedelišće 46°22`21 N 16°22`08 E Elev 170 m  
 Klokočevik 45°13`53 N 18°09`02 E Elev 133 m



LOPARČIĆ 2011  
 KAMENJAK 8m  
 RAB

Species	Accessions	Type	Purpose
Ph. vulgaris	3	Landraces/ ecotype	Food
P. sativum	1	?	Food
Lupinus al.	1	Landraces	Food
Vicia spp.	3	Wild	Feed



Boljun 45°17`50 N 14°08`12 E Elev 160 m  
 Čepić 45°13`41 N 14°10`03 E Elev 32 m  
 Buje 45°24`35 N 13°39`28 E Elev 195 m  
 Nova Vasi 45°21`41 N 13°38`19 E Elev 119 m  
 Rab 44°49`29 N 14°44`17 E Elev 2 m  
 Lika 44°48`61 N 15°40`90 E Elev 744 m





Species	Accessions	Type	Purpose
Ph. vulgaris	5+1(3)	Landrace	Food
P. sativum	1	Mix	Food
L. sativus	5	Landraces	Food
Vicia faba	4	Landraces	Food
Vicia spp.	2	Wild	Feed
Lens culin.	1	Population	Food
Cicer ariet.	4	Landraces	Food
Onobrychus v.	1	wild	Feed/bee pl.
Ononis spinosa	1	wild	Feed/bee pl.

Drniš 43°51'34 N 16°10'11 E 278m  
 Tijarica 43°34'58 N 16°56'28 E 650m  
 Pakovo 43°49'03 N 16°05'32 E 255m  
 Škabrnja 44°05'32 N 15°26'56 E  
 104m

Stankovci 43°49'17 N 15°55'30 E  
 153m  
 Skradin 43°49'05 N 15°55'30 E 0m  
 Roški 43°53'54 N 15°58'41 E 50m



# Conventional descriptions

