

**Variety trial: Bean -climbing french beans**

**Location: Jablje**

**Year: 2016**

Previous crop: lettuce

Fertilizing: 20 kg/ha N, 150 kg/ha K<sub>2</sub>O, 21 kg/ha SO<sub>3</sub>

side dressing: /

Growing in the plastic tunnel; soil covering with black PE mulch; drip irrigation; growing with the support (net)

Planting density: 150 cm x 20 cm, 3 seeds per seeding site; target crop density 80,000 plants/ha

Sowing: 15.04.2016, thinning: 05.05.2016, harvesting: 30.06. - 02.09.2016, 11 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 3.00 m<sup>2</sup>

VARIETY	Origin	Supplier	Earliness 3=early 7=late	PLANT		POD										Uniformity of pods 3=uniform 7=ununiform	YIELD										Comments	
				Speed of climbing 3=slow 7=rapid	Field standing ability 3=good 7=poor	Width mm	Length cm	Thickness mm	Weight g	Ground colour (intensity)	Cross section shape	Curvature 3=slight 7=strong	Number of grains	Shelf life 3=good 7=poor	Taste 3=good 7=poor		Class			Month				Marketable t/ha	Total t/ha	Yield category		
																	I	II	Waste	6	7	8	9					
				%	%																							
Helda	Semillas Fito	Picount	4	4	4	20	20	9	18	Z (4)	narrow ovate to ovate	2	8	6	5	3	84	11	5	43	20	18	19	70,49	74,11	I	medium to late overmaturation of pods - development of strings and parchment	
Limka	Holand Select	Zeleni Hit + Semenarna	2	2	7	20	24	8	19	Z(4)	narrow ovate	1	8	7	5	2	77	18	5	53	27	11	9	62,78	66,22	I	medium to rapid overmaturation of pods - development of parchment	
Perolar	Semillas Fito	Picount	5	6	3	20	20	8	17	Z (4)	narrow ovate to ovate	1	7	5	5	3	86	11	3	33	28	15	24	61,69	63,44	I		
Priver	Semillas Fito	Picount	3	2	5	19	23	8	18	Z (4)	narrow ovate	2	7	7	3	2	89	9	2	55	14	21	10	58,62	59,99	II/1	rapid overmaturation of pods - development of strings and parchment	
Golden Gate	Holand Select	Zeleni Hit + Semenarna	3	3	6	21	24	8	21	Ru (3)	narrow ovate to ovate	2	8	7	7	3	82	13	5	64	12	16	8	49,54	52,20	II/2	5 to 10 % of plants with green pods; rapid overmaturation of pods - development of parchment	
Barianec	Semenarna	Semenarna	7	6	4	23	15	10	16	Ru (3)	narrow ovate	3	6	5	5	3	85	13	2	20	44	12	24	44,40	45,39	II/3	medium overmaturation of pods - development of strings	
Maslenec rani	Semenarna	Semenarna	8	8	3	19	15	10	13	Ru (2)	narrow ovate to ovate	2	7	4	5	2	83	15	2	9	38	23	30	34,53	35,27	III	medium overmaturation of pods - development of strings	
Kaimano	Sativa	Planta	6	4	4	18	21	7	15	Ru (3)	narrow ovate	2	8	7	5	3	83	13	4	37	27	8	28	32,71	34,20	III	approx. 2 % of plants with green pods	
<b>Mean</b>																								51,85	53,85			
<b>LSD (0.05)</b>																									9,65	9,80		

**Variety trial:** Bean -climbing french beans

**Location:** Šempeter pri Gorici

**Year:** 2016

Previous crop: lettuce or rape green manure

Fertilizing: 20 t/ha stable manure, 18 kg/ha N, 36 kg/ha P<sub>2</sub>O<sub>5</sub>, 72 kg/ha K<sub>2</sub>O

side dressing: fertigation: 12 kg/ha N, 24 kg/ha P<sub>2</sub>O<sub>5</sub>, 72 kg/ha K<sub>2</sub>O, 6 kg/ha MgO

Growing in the open field; soil covering with black PE mulch; drip irrigation; growing with the support (net)

Planting density: 140 cm x 20 cm, 3 seeds per seeding site; target crop density 85,000 plants/ha

Sowing: 21.04.2016, thinning: 18.05.2016, harvesting: 30.06. - 26.07.2016, 7 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 2.80 m<sup>2</sup>

VARIETY	Origin	Supplier	Earliness 3=early 7=late	YIELD							
				Class %			Month %		Marketable t/ha	Total t/ha	Yield category
				I	II	Waste	6	7			
Helda	Semillas Fito	Picount	2	90	8	2	53	47	24,47	24,88	I
Perolar	Semillas Fito	Picount	5	90	9	1	37	63	18,18	18,41	I
Golden Gate	Holand Select	Zeleni Hit + Semenarna	4	84	12	4	44	56	16,78	17,39	I
Priver	Semillas Fito	Picount	4	88	6	6	54	46	13,20	14,08	II/2
Kaimano	Sativa	Planta	5	88	7	5	54	46	10,44	11,03	II/3
Limka	Holand Select	Zeleni Hit + Semenarna	6	85	7	8	24	76	10,19	11,08	II/3
Barianec	Semenarna	Semenarna	6	92	6	2	46	54	8,50	8,66	III
Maslenec rani	Semenarna	Semenarna	8	83	15	2	4	96	1,16	1,18	III
<b>Mean</b>									12,86	13,34	
<b>LSD (0.05)</b>									3,23	3,14	

**Variety trial: Bean -climbing french beans**

**Location: Ptuj**

**Year: 2016**

Previous crop: watermelon

Fertilizing: 1300 kg/ha Plantella Organik, 62 kg/ha N, 120 kg/ha P<sub>2</sub>O<sub>5</sub>, 240 kg/ha K<sub>2</sub>O

side dressing: /

Growing in the plastic tunnel; soil covering with black PE mulch; drip irrigation; growing with the support (net)

Planting density: 150 cm x 20 cm, 3 seeds per seeding site; target crop density 70,000 plants/ha

Sowing: 20.04.2016, thinning: 17.05.2016, harvesting: 22.06. - 26.08.2016, 15 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 3.00 m<sup>2</sup>

VARIETY	Origin	Supplier	Earliness 3=early 7=late	PLANT				POD							YIELD										Comments			
				Plant height 3=short 5=medium 7=high	Branching 3=weak 7=strong	Field standing ability 3=good 7=poor	Width mm	Length cm	Thickness mm	Weight g	Ground colour (intensity)	Cross section shape	Curvature 3=slight 7=strong	Number of grains	Class %			Month %				Marketable t/ha	Total t/ha	Yield category				
															I	II	Waste	6	7	8	9							
Golden Gate	Holand Select	Zeleni Hit + Semenarna	3	8	4	5	20	21	21	7	Ru (5)	narrow ovate	1+3	7	71	23	6	21	39	29	11	63,34	67,52	I				
Priver	Semillas Fito	Picount	3	8	4	6	17	18	22	6	Z (7)	narrow ovate	2	7	80	17	3	27	35	29	9	58,77	60,40	I				
Limka	Holand Select	Zeleni Hit + Semenarna	2	8	5	7	17	20	20	9	Z (6)	narrow ovate	1+2	7	83	13	4	35	40	20	5	53,28	55,67	II/1				
Helda	Semillas Fito	Picount	5	7	4	6	19	24	17	9	Z (5)	narrow ovate	3	6	81	15	4	18	55	17	10	48,58	50,84	II/2				
Perolar	Semillas Fito	Picount	6	7	7	6	18	20	19	7	Z (5)	narrow ovate	1+2	6	78	17	5	9	66	16	9	45,94	48,53	II/2				
Barianec	Semenarna	Semenarna	7	6	6	6	20	23	16	9	Ru (2)	narrow ovate	2	6	80	15	5	2	79	11	8	39,37	41,50	II/3				
Kaimano	Sativa	Planta	6	7	7	3	12	17	17	7	Ru (3)	narrow ovate	1+2	6	67	28	5	14	44	23	19	35,64	37,80	III	approx. 2 % of plants with green pods			
Maslenec rani	Semenarna	Semenarna	8	5	6	4	12	18	15	8	RuZ (3)	narrow ovate	2	6	72	25	3	/	62	24	14	25,88	26,69	III				
<b>Mean</b>																										46,35	48,62	
<b>LSD (0.05)</b>																											9,89	10,46