

Variety trial: Slicing Cucumber
Location: Jablje
Year: 2016

Previous crop: tomato, pepper

Fertilizing: 30 t/ha stable manure, 170 kg/ha N, 120 kg/ha P₂O₅, 420 kg/ha K₂O, 21 kg/ha SO₃

side dressing: fertigation: 152 kg/ha N, 48 kg/ha P₂O₅, 160 kg/ha K₂O, 24 kg/ha MgO

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; 33,333 plants/ha

Sowing: 21.03.2016, transplanting: 15.04.2016, harvesting: 01.06. - 12.09.2016, 23 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 3.00 m²

VARIETY	Origin	Supplier	Earliness 3=early 7=late	Plant height 3=short 5=medium 7=tall	Bitterness 3=rare 7=often	FRUITS																YIELD									Comments					
						Shape-longitudinal	Shape-cross 1=round 2=triangular 3=rectangular	Amount of warts 3=few 7= a lot of	Size of warts 3=small 7=large	Amount of prickles 3=few 7= a lot of	Colour of prickles 1=white 2=dark	Green colour intensity 3=light 7=dark	Length of stripes 3=short 7=long	Colour of stripes (intensity of colour)	Hollowness 3=rare 7=often	Creasing 3=weak 7=strong	Proportion of core 3=small 7=large	Uniformity 3=uniform 7=nonuniform	Class			Month				Marketable t/ha	Total t/ha	Yield category								
																			I	II	Waste	6	7	8	9											
																													%	%						
Kung Fu F1	Sakata	Semenarna	6	8	4	24	5,0	337	cylindrical	1-2	3	7	3	2	8	2	Z (6)	1	3	4	2	77	18	5	22	38	34	6	329,11	347,78	I					
CVS 552 F1	Esasem	Cabo	2	8	4	24	5,4	383	cylindrical to club-shaped	2	3	6	3	1	7	2	Z (5)	1	2	5	2	73	22	5	32	41	22	5	318,90	336,68	I					
Epsilon F1	Syngenta	HP Hibrid	4	7	4	23	5,0	316	cylindrical to club-shaped	1	2	2	2	2	7	2	Z (4)	1	2	5	2	79	18	3	31	35	29	5	293,06	302,34	I					
Avantgarde F1	Semo	Semenarna	6	8	5	35	5,0	457	cylindrical to triangular	1-2	1	3	1	1	6	2	Z (5)	1	5	5	3	52	33	15	23	55	19	3	267,98	316,27	I	curved fruit; slightly susceptible for powdery mildew				
Lisboa F1	Bejo Z.	Agrocasol plus	3	7	3	22	5,1	304	cylindrical	2	3	2	2	1	8	2	Z (5)	1	2	6	2-3	72	21	7	36	41	19	4	261,11	280,09	II/1					
Llanoverde F1	Seminis	Cabo	2	6	4	23	5,4	334	cylindrical to club-shaped	1-2	2	5	3	1	7	2	Z (4)	1	3	6	3	59	26	15	32	43	21	4	257,16	305,23	II/1					
Joker F1*	ZKI	Cvetlice Dornig	9	7	5	18/19	5/5	300/268	cylindrical	2	3	3/4	2	1	5/7	3	RuZ	1	1/4	5/6	7	64	28	8	14	47	34	5	247,42	270,18	II/2					
Sargo F1	RWA	Agrosaat	9	8	7	20	5,3	310	club-shaped	1-2	3	6	2	0	6	2	RuZ	1	2	5	5	75	21	4	15	48	32	5	235,98	244,88	II/2					
Green River F1	Sativa	Planta	7	7	3	29	4,8	336	triangular	1-2	2	2	3	1	6	3	Z (3)	1	3	5	2	63	27	10	20	50	23	7	220,18	244,71	II/3	slightly curved fruit; more susceptible for powdery mildew				
Sargon F1	Enza Z.	Zeleni hit	1	5	3	23	5,3	325	cylindrical to club-shaped	1-2	3	3	3	1	8	3	RuZ	2	3	6	3	70	23	7	39	37	21	3	215,68	230,52	II/3					
Burpless Tasty																	Ru do																			
Green F1	Sativa	Planta	2	7	3	34	4,4	378	triangular	2	3	6	4	2	5	4	RuZ	2	2	3	3	65	28	7	35	38	24	3	202,93	218,87	III					
Edona F1	Seminis	Semenarna	2	6	2	22	5,0	310	cylindrical to club-shaped	1-2	2	5	2	2	7	2	Z (4)	1	2	5	3	77	19	4	43	34	21	2	176,72	184,56	III	fast thickening of fruit				
Roccker F1	Clause	Cabo	7	6	5	23	5,0	312	cylindrical	2	3	6	3	1	7	2	Z (5)	3	3	4	3	60	25	15	23	51	24	2	176,60	206,71	III					
Ritmo F1	ZKI	Cvetlice Dornig	6	5	3	30	4,9	353	club-shaped	3	1	2	1	1	5	2	Z (3)	1	8	7	3	48	27	25	24	64	11	1	131,51	164,82	III	curved fruits; more susceptible for powdery mildew				
Mean																																	238,17	260,97		
LSD (0.05)																																			27,23	25,09

* more types of fruits, evaluations of different types are separated with slash

Variety trial: **Slicing Cucumber**
Location: **Šempeter pri Gorici - strong attack of *Meloidogyne* spp.**
Year: **2016**

Previous crop: tomato, lettuce

Fertilizing: 20 t/ha stable manure, 200 kg/ha N, 400 kg/ha K₂O

side dressing: fertigation: 88 kg/ha N, 48 kg/ha P₂O₅, 152 kg/ha K₂O, 24 kg/ha MgO; foliar: 7 kg/ha CaO

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

Planting density: 140 cm x 20 cm; 35,714 plants/ha

Sowing: 21.03.2016, transplanting: 21.04.2016, harvesting: 02.06. - 08.08.2016, 19 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 2.80 m²

VARIETY	Origin	Supplier	Earliness 3=early 7=late	FRUITS																YIELD						Comments			
				Length cm	Width cm	Weight g	Shape-longitudinal	Shape-cross 1=round 2=triangular 3=rectangular	Amount of warts 3=few 7=a lot of	Size of warts 3=small 7=large	Amount of prickles 3=few 7=a lot of	Colour of prickles 1=white 2=dark	Green colour intensity 3=light 7=dark	Length of stripes 3=short 7=long	Colour of stripes (intensity of colour)	Hollowness 3=rare 7=often	Creasing 3=weak 7=strong	Proportion of core 3=small 7=large	Uniformity 3=uniform 7=nonuniform	Class			Month				Marketable t/ha	Total t/ha	Yield category
																				I	II	Waste	6	7	8				
Ritmo F1	ZKI	Cvetlice Dornig	6	31	4,1	303	triangular	1	1	/	1	1	5	1	/	1	5	3	3	48	48	4	55	43	2	139,05	144,98	II/1	curved fruits
Kung Fu F1	Sakata	Semenarna	8	26	4,6	319	cylindrical to club-shaped	1-2	3	4	3	1	6	3	Z(4)	1	2	7	2	90	7	3	26	60	14	129,90	133,64	II/1	
Epsilon F1	Syngenta	HP Hibrid	5	24	4,4	292	cylindrical	1+2	2	1	1	1	8	2	Z(3)	2	1	4	2	93	6	1	28	60	12	123,93	124,60	II/1	
Sargon F1	Enza Z.	Zeleni hit	2	27	4,8	372	cylindrical	1	3	2	3	1	6	2	Z(3)	3	1	6	2	94	4	2	41	50	9	120,30	122,39	II/2	
CVS 552 F1	Esasem	Cabo	4	25	4,8	340	cylindrical	1	3	2	2	1	8	2	Z(5)	1	1	6	2	95	4	1	40	49	11	113,18	113,87	II/2	
Green River F1	Sativa	Planta	9	33	4,3	442	cylindrical to triangular	2	3	1	2	1	6	2	Z(4)	2	3	4	3	84	13	3	32	62	6	112,90	115,92	II/2	more susceptible for powdery mildew
Llanoverde F1	Seminis	Cabo	5	23	4,7	296	cylindrical to club-shaped	1+2	2	2	2	1	8	2	Z(5)	1	1	6	4	85	12	3	35	52	13	111,05	115,45	II/2	
Lisboa F1	Bejo Z.	Agrocasol plus	3	24	4,6	297	cylindrical	1+2	3	3	3	1	7	2	Z(5)	2	2	3	2	93	5	2	40	54	6	110,83	113,64	II/2	
Burpless Tasty Green F1	Sativa	Planta	6	38	4,2	429	triangular	2	3	2	3	2	6	3	Z(3)	2	1	2	3	81	12	7	36	56	8	96,02	103,00	II/2	curved fruits; more susceptible for powdery mildew
Avantgarde F1	Semo	Semenarna	6	40	4,5	483	cylindrical	1	2	1	2	1	6	2	Z(4)	1	4	2	3	78	15	7	37	59	4	88,36	94,69	II/2	curved fruits; more susceptible for powdery mildew
Joker F1	ZKI	Cvetlice Dornig	9	21	4,6	256	cylindrical + triangular + club-shaped	1+2	2	4	3	1	6	2	RuZ	1	2	4	5	82	12	6	20	65	15	87,29	92,86	II/2	
Edona F1	Seminis	Semenarna	4	26	4,4	334	cylindrical	1-2	2	1	2	1	8	2	Z(5)	1	1	5	2	94	5	1	38	53	9	82,52	83,17	II/3	
Roccker F1	Clause	Cabo	8	24	4,6	311	cylindrical	1+2	3	4	2	1	7	3	Z(4)	2	2	4	2	90	5	5	35	55	10	75,56	79,23	II/3	
Sargo F1	RWA	Agrosaat	9	20	4,7	229	triangular + club-shaped	1	3	4	2	1	6	2	RuZ	1	2	6	5	86	12	2	18	62	20	65,54	67,08	II/3	
Mean																										104,03	107,47		
LSD (0.05)																										38,52	39,45		

Variety trial: Slicing Cucumber
Location: Ptuj
Year: 2016

Previous crop: watermelon

Fertilizing: 1300 kg/ha Plantella Organik, 62 kg/ha N, 120 kg/ha P₂O₅, 240 kg/ha K₂O

side dressing: 162 kg/ha N, 162 kg/ha P₂O₅, 162 kg/ha K₂O

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; 33,333 plants/ha

Sowing: 21.03.2016, transplanting: 20.04.2016, harvesting: 03.06.- 03.10.2016, 26 harvests

Trial layout: randomized blocks in 3 repetitions, experimental plot 3.00 m²

VARIETY	Origin	Supplier	Earliness 3=early 7=late	Plant height 3=short 5=medium 7=high	Branching 3=weak 7=strong	FRUITS																	YIELD									Comments
						Length cm	Width cm	Weight g	Shape-longitudinal	Shape-cross 1=round 2=triangular 3=rectangular	Amount of warts 3=low 7=lot of	Size of warts 3=small 7=large	Amount of prickles 3=low 7=lot of	Colour of prickles 1=white 2=dark	Green colour intensity 3=light 7=dark	Length of stripes 3=short 7=long	Colour of stripes (intensity of colour)	Holowness 3=raw 7=soften	Proportion of core 3=small 7=large	Uniformity 3=uniform 7=nonuniform	Class %			Month %				Marketable t/ha	Total t/ha	Yield category		
																					I	II	Waste	6	7	8	9					
Epsilon F1	Syngenta	HP Hibrid	5	7	5	25	4,8	347	cylindrical to club-shaped	1	4	3	2	1	7	2	Z (5)	2	5	3	70	22	8	17	39	29	15	471,90	512,96	I		
Joker F1*	ZKI	Cvetlice Dormig	8	7	5	21/19	5/5	332/250	cylindrical	1-2/3	3	6	3	1	6	2	RuZ	1	6/3	6	71	24	5	15	32	31	22	391,71	413,00	I		
Green River F1	Sativa	Planta	5	7	4	33	4,3	371	cylindrical to triangular	3	3	2	3	1	7	2	Z (5)	1	3	2	65	29	6	15	37	33	15	382,69	406,56	I		
Sargon F1	Enza Z.	Zeleni hit	4	7	2	25	5,0	298	cylindrical	2	4	5	2	1	8	2	Z (5)	1	5	4	71	26	3	24	34	29	13	316,83	324,72	II/2		
CVS 552 F1	Esasem	Cabo	4	7	2	25	5,6	369	cylindrical to club-shaped	1	3	2	2	1	8	2	Z (6)	1	7	4	67	25	8	27	37	25	11	310,71	337,06	II/2		
Burpless Tasty Green F1	Sativa	Planta	4	8	4	37	4,3	441	triangular	3	3	3	4	2	5	3	RuZ	1	3	3	62	28	10	24	40	27	9	280,20	309,82	II/2	curved fruits; more susceptible for powdery mildew	
Sargo F1*	RWA	Agrosaat	6	8	4	19/23	5/5	278/358	cylindrical	1-2	4	4	3	1	7	2	RuZ	1	5	6	71	25	4	15	36	31	18	274,04	286,47	II/2		
Avantgarde F1	Semo	Semenarna	5	7	4	38	4,8	528	club-shaped	2-3	2	3	3	1	6	2	Z (5)	1	4	4	41	36	23	24	43	26	7	263,71	342,11	II/3	curved fruits; slightly susceptible for powdery mildew	
Kung Fu F1	Sakata	Semenarna	8	8	4	24	4,5	309	cylindrical to club-shaped	1	4	6	2	1	8	2	Z (6)	2	4	3	63	29	8	25	36	28	11	260,71	283,09	II/3		
Edona F1	Seminis	Semenarna	2	6	3	27	5,1	398	cylindrical	2	2	3	2	1	8	2	Z (5)	2	3	4	66	25	9	31	36	26	7	247,18	271,00	II/3		
Llanoverde F1	Seminis	Cabo	5	6	3	23	5,3	354	cylindrical to club-shaped	2	3	4	2	1	8	2	Z (5)	1	6	4	51	31	18	23	38	26	13	229,71	278,61	III		
Roccker F1	Clause	Cabo	8	5	4	22	4,8	303	cylindrical	3	4	5	2	1	7	3	Z (5)	2	4	3	62	27	11	22	46	25	7	184,09	206,09	III		
Lisboa F1	Bejo Z.	Agrocasol plus	4	6	2	22	4,6	276	cylindrical	1	3	2	2	1	8	2	Z (5)	1	4	4	69	22	9	31	36	26	7	176,27	193,42	III		
Ritmo F1	ZKI	Cvetlice Dormig	/	/	/																											
Mean																								291,52	320,38							
LSD (0.05)																								50,82	57,29							

* more types of fruits, evaluations of different types are separated with flash