

Variety trial: Slicing Cucumber
Location: Jablje
Year: 2017

Previous crop: beans

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: 114 kg/ha N, 36 kg/ha P₂O₅, 180 kg/ha K₂O, 18 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: 22.03.2017, transplanting: 18.04.2017, harvesting: 31.05. - 01.09.2017, 21 harvests

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

VARIETY	Origin	Supplier	Earliness 3-early 7-late	FRUITS																	Powdery mildew infection 3-weak 7-strong	YIELD the whole harvesting period										YIELD harvesting untill 12.07.2017										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)	Holowness 3-free 7-filled	Creasing 3-weak 7-strong	Amount of seeds 3-few 7-a lot of	Uniformity 3-uniform 7-uniform					Class %					Month %					Marketable t/ha	Total t/ha	Yield category	Class %						Month %					Marketable t/ha	Total t/ha	Yield category								
																			I	II		Waste	5	6	7	8	9	I	II	Waste	5	6	7				8	9	I	II	Waste		5	6	7	I	II				Waste	5	6	7				
Goghén F1 (CUS 552)	Esasem	Cabo	2	25	5	380	cylindrical	1	/	/	2	1	8	2	Z (6)	2	3	4	2	2	74	20	6	2	34	43	20	1	408,60	434,04	I	84	13	3	4	57	39	247,13	253,29	I																		
Epsilon F1	Syngenta	HP Hibrid	5	23	5	303	cytlindrical	1	3	2	2	1	8	2	Z (4)	1	2	3	3	2	78	19	3	1	30	43	24	2	377,56	390,93	I	87	12	1	1	62	37	190,87	193,00	II/1																		
Green River F1	Sativa	Planta	8	30	4	353	triangular	3	3	2	2	1	6	1	Z (4)	1	3	4	3	1	71	23	6	/	25	49	23	3	345,31	368,80	I	80	17	3	/	51	49	177,76	183,94	II/2	more susceptible for powdery mildew; fruit slightly curved, crispy and tasty																	
Lisboa F1	Bejo Z.	Agrocasol plus	3	21	5	260	cytlindrical	3	4	3	2	1	9	2	Z (6)	6	2	3	3	3	76	17	7	3	38	37	21	1	329,12	351,73	I	85	13	2	5	64	31	205,15	209,86	I	fruit tasty																	
Burpless Tasty Green F1	Sativa	Planta	4	34	4	373	irregular	1-3	4	5	3	2	6	4	RuZ	1	4	2	4	1	67	26	7	/	37	39	22	2	324,84	347,56	I	74	23	3	1	65	34	191,71	198,16	II/1	more susceptible for powdery mildew; fruit curved																	
Kung Fu F1	Sakata	Semenarna	7	25	5	306	cytlindrical	1	4	7	2	1	6	2	Z (3)	2	4	3	2	2	72	20	8	/	34	42	23	1	324,42	352,64	I	85	13	2	/	63	37	186,58	189,78	II/1																		
Edona F1	Seminis	Semenarna	3	25	5	343	cytlindrical	2	3	3	1	8	2	Z (3)	2	2	2	2	2	2	73	23	4	4	36	41	18	1	319,28	332,97	I	80	18	2	6	60	34	194,91	198,25	II/1																		
Joker F1	ZKI	Cvetlice Dornig	8	19	5	257	cytlindrical	2	5	7	2	1	6	3	RuZ	1	1	7	5	5	60	27	13	/	12	48	37	3	315,47	362,58	II/1	69	24	7	/	34	66	119,04	127,67	III	ununiform, two types of fruits																	
Avantgarde F1	Semo	Semenarna	6	33	5	435	triangular	1	2	2	3	1	7	3	Z (4)	1	3	1	3	3	51	31	18	1	37	41	19	2	284,17	347,33	II/2	65	28	7	1	66	33	180,23	194,23	II/2	more susceptible for powdery mildew; fruit slightly curved																	
Roccker F1	Clause	Cabo	6	22	5	273	cytlindrical	2-3	3	4	2	1	8	2	Z (5)	4	4	3	3	1	69	21	10	/	28	52	19	1	274,20	303,69	II/2	83	15	2	/	55	45	154,24	157,87	II/3																		
Murza F1	Sativa	Planta	5	22	5	296	triangular	2	4	6	3	1	8	2	RuZ	4	2	4	3	4	71	21	8	4	34	40	20	2	251,49	274,02	II/3	79	17	4	7	57	36	155,22	161,93	II/3																		
Sargo F1	RWA	RWA Slovenija	8	19	5	239	cytlindrical	2	4	6	2	1	6	2	Z (4)	4	3	4	4	4	71	23	6	/	18	51	28	3	219,58	232,92	III	86	13	1	/	41	59	98,73	100,04	III																		
Llanoverde F1*	Seminis	Cabo	4	20	5	274	cytlindrical	2	3	5	2	1	7	2	RuZ	1	2	4	2	6	80	17	3	4	52	44	/	/	217,33	223,29	III	82	16	2	4	55	41	205,16	209,09	I																		
Sargon F1*	Enza Z.	Zeleni hit	2	22	5	315	cytlindrical to club-shaped	1	3	6	3	1	8	2	Z (4)	2	2	3	3	7	73	23	4	3	65	32	/	/	200,98	210,42	III	74	22	4	4	67	29	193,60	200,87	II/1																		
Potenziale F1*	Cora Seeds	HP Hibrid	5	12	4	125	cytlindrical	2	8	2	5	1	6	2	RuZ	2	1	7	3	7	85	11	4	3	58	39	/	/	156,42	163,49	III	87	10	3	3	61	36	150,84	156,51	II/3	pickling variety																	
Tanja*	Reinsaat	Amarant	7	26	5	413	cytlindrical to triangular	3	4	7	2	1	5-6	3	RuZ	/	3	/	4	7	58	27	15	/	54	46	/	/	102,60	121,33	III	59	27	14	/	58	42	98,22	114,13	III	more susceptible for powdery mildew; some ununiformity at fruit size and colour																	
Mean																					278,21									301,11									171,84										178,04									
LSD (0.05)																					37,80									38,86									24,68										24,78									

* Due to extensive damage caused by twospotted spider mite Tetranychus urticae, the harvesting of varieties Sargon, Llanoverde, Potenziale and Tanja was terminated on 12.07.2017.

Variety trial: Slicing Cucumber
Location: Ptuj
Year: 2017

Previous crop: watermelon and melon

Fertilizing: 1500 kg/ha Plantella Organik, 187,5 kg/ha N, 120 kg/ha P₂O₅, 220 kg/ha K₂O, 20 kg/ha MgO, 430 kg/ha SO₃

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: 22.03.2017, transplanting: 19.04.2017, harvesting: 02.06.- 30.08.2017*, 20 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																Powdery mildew infection 3=weak 7=strong	YIELD the whole harvesting period									YIELD harvesting untill 10.07.2017									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	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	Amount of seeds 3=few 7=a lot of	Uniformity 3=uniform 7=ununiform	Class			Month			Marketable t/ha	Total t/ha	Yield category	Class			Month			Marketable t/ha	Total t/ha	Yield category						
																					I		II	Waste	6	7				8	I	II	Waste	6	7				I	II		Waste	6	7
Burpless Tasty Green F1	Sativa	Planta	6	8	4	37	4	394	long-shaped	1	2	6	2	6	4	RuZ	1	/	2	4	1	74	21	5	35	31	34	311,46	327,00	I	80	19	1	67	33	167,52	169,48	I	fruit curved					
Goghen F1 (CUS 552)	Esasem	Cabo	4	8	3	23	5	270	club-shaped	1+2	4	7	1	8	2	Z (5)	1	3	4	4	3	71	18	11	41	30	29	302,17	341,95	I	84	13	3	87	13	156,90	162,12	I	frequent deformed fruits due to pollination					
Green River F1	Sativa	Planta	8	8	5	32	4	327	cylindrical	1+2	4	2	1	7	2	Z (5)	1	3	3+5	3	2	70	24	6	39	36	25	269,71	285,88	I	70	27	3	82	18	130,76	134,62	II/I	fruit slightly curved					
Epsilon F1	Syngenta	HP Hibrid	7	6	4	23	4	263	cylindrical	1-2	3	4	1	8	2	Z (5)	1	2	3+5	3	2	79	18	3	42	28	30	252,05	260,50	I	85	15	/	90	10	120,79	120,86	II/2						
Murza F1	Sativa	Planta	4	6	5	24	5	295	cylindrical	1+2	2	5	1	8	3	Z (3)	1	2	3-7	5	2	68	24	8	40	30	30	252,02	273,10	I	77	21	2	86	14	122,24	125,31	II/2						
Kung Fu F1	Sakata	Semenarna	8	8	5	24	4	272	cylindrical	2	4	7	1	8	1	/	1	3	5	3	5	67	19	14	37	29	34	215,38	250,67	II/2	81	15	4	77	23	114,29	119,52	II/2						
Edona F1	Seminis	Semenarna	4	7	2	26	5	345	club-shaped	2	2	4	1	8	2	Z (5)	1	2	5	3	3	74	20	6	42	28	30	207,93	221,69	II/2	82	16	2	77	23	118,69	121,40	II/2						
Avantgarde F1	Semo	Semenarna	8	6	5	30	4	309	club-shaped	1+3	3	3	1	6	2	Z (5)	2	5	3+7	4	6	51	33	16	47	32	21	196,62	234,08	II/2	65	30	5	84	16	125,16	131,57	II/2	fruit slightly curved					
Sargo F1	RWA	RWA Slovenija	7	9	7	21	5	305	cylindrical	1	3	5	1	6	2	Z (5)	1	/	5	5	5	75	19	6	31	30	39	196,15	207,70	II/2	82	17	1	86	14	74,37	75,32	III						
Llanoverde F1	Seminis	Cabo	6	5	4	21	5	271	club-shaped	2	2	4	1	7	2	Z (4)	1	3	7	4	5	54	24	22	51	29	20	179,64	230,90	II/2	67	22	11	77	23	135,95	151,86	II/I	frequent deformed fruits due to pollination					
Roccker F1	Clause	Cabo	8	5	5	22	4	250	cylindrical	2+3	4	8	1	7	2	Z (5)	2	3	3+5	3	3	60	27	13	41	39	20	155,26	177,67	II/3	75	22	3	79	21	89,79	92,60	III						
Lisboa F1*	Bejo Z.	Agrocasol plus	5	6	2	22	5	287	club-shaped	2	3	5	1	8	2	Z (6)	1	/	5	3	6	74	19	7	70	30	/	146,91	158,81	II/3	78	18	4	79	21	135,72	141,08	II/I						
Potenziale F1*	Cora Seeds	HP Hibrid	2	6	4	15	4	174	cylindrical	2	7	3	1	6	2	RuZ	1	1	5-7	3	7	83	13	4	77	23	/	133,65	139,74	III	85	12	3	79	21	130,91	135,03	II/I	pickling variety					
Joker F1*	ZKI	Cvetlice Dornig	7	7	5	20	5	279	cylindrical to club-shaped	2	3	7	1	7	3	RuZ	1	2	5	7	6	75	18	7	68	32	/	120,07	128,76	III	78	17	5	78	22	106,88	112,10	II/3	ununiform, two types of fruits					
Sargon F1*	Enza Z.	Zeleni hit	2	7	1	24	5	329	cylindrical to club-shaped	1	4	5	1	8	3	Z (5)	1	2	6	4	7	76	18	6	76	24	/	120,05	127,71	III	80	17	3	88	12	105,55	109,14	II/3						
Tanja*	Reinsaat	Amarant	8	5	4	24	5	331	cylindrical to club-shaped	1+2	2	5	1	6	2	Z (3)	/	2	4	5	8	60	29	11	73	27	/	63,52	71,79	III	69	22	9	88	12	54,07	59,43	III						
Mean																										195,16			214,87			118,10			122,59									
LSD (0.05)																										49,99			50,81			18,77			19,34									

*Due to extesive damage caused by twospotted spider mite Tetranychus urticae, the harvesting of varieties Sargon, Llanoverde, Potenziale and Tanja was terminated on 10.07.2017.