

Variety trial: Squash
Location: Ivanci - spring-summer, open field
Year: 2018

Previous crop: onion

Fertilizing: 2 t/ha stable manure in pellets, 77 kg/ha N, 200 kg/ha K₂O, 230 kg CaO/ha
side dressing: 51 kg/ha N

Growing in the open field; soil covering with black PE mulch; drip irrigation

Planting density: 140 cm x 50 cm; 14,285 plants/ha

Sowing: 29.03.2018, transplanting: 26.04.2018, harvesting: 23.05.- 22.08.2018, 33 harvests

Trial layout: randomized blocks in 3 repetitions, plot size 7.00 m²

VARIETY	Origin	Supplier	Earliness 3=early 7=late	FRUITS							Size of blossom end scar 3=small 7=large	Shriveled fruits % of total number of produced fruits	YIELD												Comments
				Length cm	Width cm	Weight g	Major skin colour	Colour intensity 3=light 7=dark	Shape	Class				Month				Marketable t/ha	Total t/ha	Yield category					
										%				%											
										Extra			I.	II.	Waste	5	6				7	8			
SAT 405 F1	Sativa	Planta	7	18	4	192	Z	7	long cylindrical to club-shaped	2	11	13	32	28	28	3	39	43	15	73,10	101,63	I			
Ninfa F1	Clause	Cabo	2	18	4	197	Z	8	long cylindrical	3	9	13	37	26	25	9	43	35	12	73,00	96,87	I	from the mid July on some virotic fruits		
SAT 15741 F1	Sativa	Planta	4	8	8	269	Z	4	ovate	5	10	9	27	24	40	7	38	40	15	67,72	113,64	II/1	quick overgrowth of the fruit		
Brillante F1	Semillas Fito	Picount	7	19	4	212	SZ	7	long cylindrical	2	7	11	29	27	33	2	32	48	19	67,08	100,58	II/1			
Opera F1	Clause	Cabo	5	19	4	213	Z	8	club-shaped	3	8	13	36	27	24	6	36	39	19	65,78	86,82	II/1			
Dunja F1	Enza Z.	Zeleni hit	4	16	4	159	Z	8	club-shaped	3	5	11	38	28	22	8	36	37	19	63,76	81,97	II/2			
Aloha F1	Clause	Cabo	6	17	4	165	Z	8	long cylindrical to club-shaped	3	6	14	35	26	25	6	40	39	15	63,66	85,18	II/2			
Naxos F1	Syngenta	HP Hibrid	8	19	4	220	Z	8	long cylindrical	3	6	12	31	27	30	2	39	43	15	60,71	87,09	II/2	from July on frequent virotic fruits		
Baldo (ZUG 16101) F1	Esasem	Cabo	8	19	4	214	SZ	7	long cylindrical	2	8	15	34	27	25	2	41	41	16	60,04	79,53	II/2			
ZUG 16104 F1	Esasem	Cabo	5	17	4	167	Z	8	long cylindrical to club-shaped	3	11	15	32	26	27	5	41	38	16	57,66	78,99	II/2			
Supremo F1	Syngenta	HP Hibrid	6	20	4	209	SZ	9	long cylindrical to club-shaped	2	12	13	35	27	25	6	40	39	15	55,01	73,39	II/3	frequent slightly misshaped fruits		
Latino F1	Sativa	Planta	2	21	4	189	Z	5	club-shaped	7	9	10	37	22	30	10	38	35	17	49,95	71,84	III	fruit ribbed, slightly curved with well attached flower; frequent misshaped fruits		
Darko F1	Sativa	Planta	8	19	4	183	Z	8	long cylindrical	4	7	13	29	24	34	2	39	42	18	48,98	73,94	III	from July on frequent virotic fruits		
Faro F1	Sativa	Planta	7	18	5	262	Z	3	club-shaped	8	9	9	35	30	26	3	41	38	18	48,95	66,28	III			
Mean																				61,10	85,55				
LSD (0,05)																					9,30	14,05			

Variety trial: Squash
Location: Ptuj - spring-summer, open field
Year: 2018

Previous crop: buckwheat

Fertilizing: 800 kg/ha organic fertilizer Valentin Eko, 124 kg/ha N, 120 kg/ha P₂O₅, 222 kg/ha K₂O, 110 kg/ha SO₃
side dressing: 41 kg/ha N

Growing in the open field; soil covering with black PE mulch; drip irrigation

Planting density: 140 cm x 50 cm; 14,285 plants/ha

Sowing: 29.03.2018, transplanting: 26.04.2018, harvesting: 23.05.- 23.08.2018, 26 harvests

Trial layout: randomized blocks in 3 repetitions, plot size 7.00 m²

VARIETY	Origin	Supplier	Earliness 3=early 7=late	FRUITS							Shriveled fruits % of total number of produced fruits	YIELD										Comments	
				Length cm	Width cm	Weight g	Major skin colour	Colour intensity 3=light 7=dark	Glossiness 3=strong 7=weak	Shape		Class				Month				Marketable t/ha	Total t/ha		Yield category
												Extra	I	II	Waste	5	6	7	8				
Ninfa F1	Cabo	Clause	2	17	4	181	Z	5	3	long cylindrical	4	14	32	35	19	9	36	29	27	103,58	127,11	I	fruit slightly hairy
Naxos F1	HP Hibrid	Syngenta	7	18	4	161	Z	6	3	long cylindrical to club-shaped	3	16	32	28	24	3	38	40	19	87,32	114,37	I	
Brillante F1	Picount	Semillas Fito	7	16	4	154	Z	5	5	long cylindrical	4	18	28	31	23	3	31	35	31	84,30	109,72	I	
ZUG 16104 F1	Cabo	Esasem	5	17	4	170	Z	6	4	long cylindrical	6	16	29	34	22	6	37	31	26	83,89	108,01	I	
Aloha F1	Cabo	Clause	5	16	4	168	Z	6	3	club-shaped	5	18	29	33	20	5	38	30	27	83,81	104,47	I	
SAT 405 F1	Planta	Sativa	7	16	4	185	Z	4-5	3	long cylindrical	7	18	28	28	25	2	36	38	23	80,32	107,58	II/1	
Latino F1	Planta	Sativa	2	19	3	146	Z	2-3	2	long cylindrical	6	16	31	32	21	10	38	36	16	75,19	95,31	II/2	fruit ribbed, slightly curved with well attached flower
Opera F1	Cabo	Clause	8	18	4	176	Z	6	3	long cylindrical	5	17	31	29	22	1	36	33	31	68,23	88,02	II/3	
Baldo (ZUG 16101) F1	Cabo	Esasem	8	18	4	177	Z	5	4	long cylindrical	5	19	27	29	25	1	37	38	24	65,62	87,09	II/3	from the end of July on frequent virotic fruits
Faro F1	Planta	Sativa	6	17	4	179	Z	3	4	club-shaped to pear-shaped	7	13	27	28	32	5	35	40	20	62,24	91,33	III	
Dunja F1	Zeleni hit	Enza Z.	5	17	4	175	Z	4-5	3	club-shaped	2	15	32	32	21	9	38	31	22	60,71	76,59	III	
SAT 15741 F1	Planta	Sativa	6	7	7	204	Z	3-4	4	circular to ovate	16	8	24	32	36	6	43	41	10	60,67	95,35	III	quick overgrowth of the fruit
Supremo F1	HP Hibrid	Syngenta	7	17	4	139	Z	7	5	club-shaped	8	15	28	29	28	3	39	38	20	59,02	82,42	III	from July on frequent virotic fruits
Darko F1	Planta	Sativa	7	20	4	179	Z	3-4	3	long cylindrical	4	17	26	26	31	3	39	35	23	55,91	81,10	III	slow thickening of the fruit, slightly contracted in the middle; from July on frequent virotic fruits
Mean																			73,63	97,75			
LSD (0,05)																				9,76	13,83		

Variety trial: Squash
Location: Šempeter pri Gorici - spring-summer, open field
Year: 2018

Previous crop: watermelon

Fertilizing: 40 t/ha stable manure, 15 kg/ha N, 30 kg/ha P₂O₅, 60 kg/ha K₂O

side dressing: fertigation: 57 kg/ha N, 18 kg/ha P₂O₅, 60 kg/ha K₂O, 9 kg/ha MgO; foliar: 0,5 kg/ha CaO, 0,3 kg/ha N, 1,9 kg/ha AK, 0,9 kg/ha C

Growing in the open field; soil covering with black PE mulch; drip irrigation

Planting density: 140 cm x 50 cm; 14,285 plants/ha

Sowing: 13.03.2018, transplanting: 20.04.2018, harvesting: 18.05.- 06.08.2018, 32 harvests

Trial layout: randomized blocks in 3 repetitions, plot size 7.00 m²

VARIETY	Origin	Supplier	Powdery mildew infection 3=weak 7=strong	Earliness 3=early 7=late	FRUITS								Shriveled fruits % of total number of produced fruits	YIELD								Comments			
					Length cm	Width cm	Weight g	Major skin colour	Colour intensity 3=light 7=dark	Glossiness 3=strong 7=weak	Shape	Hollowness 3=rare 7=often		Class				Month					Marketable t/ha	Total t/ha	Yield category
														%				%							
												Extra	I	II	Waste	5	6	7	8						
SAT 405 F1	Sativa	Planta	4	6	16	4	141	Z	8	4	club-shaped	1	21	18	46	25	11	4	30	53	13	56,67	63,76	I	
Aloha F1	Clause	Cabo	3	5	17	4	144	Z	9	3	club-shaped	1	16	17	47	25	11	7	33	49	11	51,67	57,87	I	
Brillante F1	Semillas Fito	Picount	4	5	17	4	175	Z	6	5	long cylindrical	1	23	17	50	19	14	8	27	53	13	51,44	59,59	I	
ZUG 16104 F1	Esasem	Cabo	3	6	18	4	177	Z	8	4	long cylindrical to club-shaped	1	19	16	41	28	15	5	35	49	11	49,33	58,17	II/1	
Naxos F1	Syngenta	HP Hibrid	5	5	17	4	156	Z	8	4	cylindrical to long	1	15	17	49	26	8	10	35	46	9	48,97	53,26	II/1	
SAT 15741 F1	Sativa	Planta	4	5	7	7	201	Z	4	5	circular to ovate	1	17	12	40	26	21	10	29	53	8	47,98	61,04	II/1	
Opera F1	Clause	Cabo	6	5	18	4	156	Z	8	3	long cylindrical	1	22	16	45	22	18	7	29	51	13	47,20	57,47	II/1	
Dunja F1	Enza Z.	Zeleni hit	4	6	17	4	148	Z	8	4	club-shaped	1	14	14	40	32	14	9	32	48	11	41,80	48,61	II/2	
Latino F1	Sativa	Planta	4	3	19	4	155	Z	6	3	long cylindrical	1	25	11	50	22	17	11	33	47	8	36,35	43,74	II/3	fruit ribbed, slightly curved with well attached flower; frequent misshaped fruits
Ninfa F1	Clause	Cabo	4	3	17	4	156	Z	9	3	long cylindrical	1	27	10	39	15	36	9	33	50	8	36,13	56,17	II/3	from the middle of July on very frequent virotic fruits
Faro F1	Sativa	Planta	4	6	16	5	168	Z	3	5	club-shaped to pear-shaped	1	32	11	45	33	12	9	29	54	8	33,83	38,25	III	
Supremo F1	Syngenta	HP Hibrid	4	5	18	4	168	Z	8	6	long cylindrical	1	30	11	38	22	29	6	42	44	8	33,20	46,84	III	from the middle of July on very frequent virotic fruits
Darko F1	Sativa	Planta	5	5	21	4	188	Z	9	5	long cylindrical	1	20	10	38	18	34	4	33	53	10	30,33	45,62	III	from the middle of July on very frequent virotic fruits
Baldo (ZUG 16101) F1	Esasem	Cabo	4	7	19	4	173	Z	8	4	long cylindrical	1	18	14	35	16	36	2	33	49	16	28,85	44,73	III	from the middle of July on very frequent virotic fruits
Mean																					42,41	52,51			
LSD (0,05)																					7,18	9,95			

Variety trial: Squash
Location: Šempeter pri Gorici - spring-summer, plastic tunnel
Year: 2018

Previous crop: mixture for green manure

Fertilizing: 40 t/ha stable manure

side dressing: fertigation: 36 kg/ha N, 72 kg/ha P₂O₅, 216 kg/ha K₂O; foliar: 0,5 kg/ha N, 0,8 kg/ha CaO, 3,1 kg/ha AK, 1,6 kg/ha C

Growing in the plastic tunnel; soil covering with black PE mulch; drip irrigation

Planting density: 140 cm x 50 cm; 14,285 plants/ha

Sowing: 13.03.2018, transplanting: 10.04.2018, harvesting: 09.05.- 13.07.2018, 29 harvests

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

VARIETY	Origin	Supplier	Powdery mildew infection 3=weak 7=strong	Earliness 3=early 7=late	Growth habit 1=bush 2=semi trailing 3=trailing	Attitude of petiole (for bush varieties only) 1=erect 9=horizontal	FRUITS										LEAF			YIELD										Comments
							Length cm	Width cm	Weight g	Major skin colour	Colour intensity 3=light 7=dark	Glossiness 3=strong 7=weak	Shape	Hollowness 3=rare 7=often	Extent of silvery patches 3=small 7=large	Size 3=small 7=large	Shriveled fruits % of total number of produced fruits	Class %				Month %			Marketable t/ha	Total t/ha	Yield category			
																		Extra	I.	II.	Waste	5	6	7						
Brillante F1	Semillas Fito	Picount	3	7	1	5	18	4	183	SZ	6	5	long cylindrical	1	4	6	12	20	45	28	8	21	49	30	82,13	89,15	II/1			
Aloha F1	Clause	Cabo	2	5	1	4	18	4	177	Z	8	3	club-shaped	1	7	5	7	17	51	20	12	21	53	26	82,20	93,61	II/1			
Ninfa F1	Clause	Cabo	3	5	1	5	19	4	205	Z	7	3	long cylindrical	1	6	4	12	16	49	24	11	24	49	27	95,27	107,17	I			
Opera F1	Clause	Cabo	3	6	1	7	20	4	196	Z	8	3	long cylindrical	1	7	5	25	19	42	25	15	16	51	32	74,58	87,77	II/2			
ZUG 16104 F1	Esasem	Cabo	4	6	1	6	19	4	207	Z	8	4	club-shaped	1	7	5	31	11	37	28	24	15	52	33	65,65	86,54	II/2			
Baldo (ZUG 16101) F1	Esasem	Cabo	4	7	1	7	21	4	240	SZ	7	4	long cylindrical to club-shaped	1	2	5	26	16	40	25	20	16	55	29	60,16	75,07	II/3			
Naxos F1	Syngenta	HP Hibrid	4	7	1	/	20	4	212	Z	7	4	club-shaped	1	5	5	8	12	50	28	10	25	47	28	80,15	89,32	II/1			
Supremo F1	Syngenta	HP Hibrid	4	7	1	4	21	4	197	SZ	7	6	club-shaped	1	7	3	40	14	42	23	22	13	55	32	62,92	80,49	II/2			
SAT 15741 F1	Sativa	Planta	5	7	1	3	8	8	258	Z	3	5	ovate	1	9	3	56	8	33	25	33	15	56	29	62,88	94,01	II/2	large blossom end scar - frequent infactions through the scar; quick overgrowth of the fruit		
Faro F1	Sativa	Planta	4	4	1	5	15	4	185	Z	3	5	cylindrical to club-shaped	1	4	7	11	6	54	18	21	23	46	31	64,07	81,54	II/2	attached flower; in the second half of harvest period frequent misshaped fruits		
Darko F1	Sativa	Planta	3	6	1	7	21	4	192	Z	7	4	club-shaped	1	5	5	26	19	44	23	15	21	55	24	59,62	69,83	II/3	slow thickening of the fruit, slightly curved		
Latino F1	Sativa	Planta	3	1	1	4	21	4	166	Z	5	3	long cylindrical	1	1	6	13	4	58	21	16	29	47	25	84,70	101,27	I	fruit ribbed, slightly curved with well attached flower; in the second half of harvest period more misshaped fruits		
SAT 405 F1	Sativa	Planta	3	7	1	4	17	4	164	SZ	7	4	long cylindrical to club-shaped	1	3	6	38	15	38	22	25	13	55	32	41,48	55,37	III			
Dunja F1	Enza Z.	Zeleni hit	3	5	1	6	18	4	196	Z	8	4	club-shaped	1	7	5	15	18	47	27	9	23	49	28	56,74	62,33	II/3			
Mean																									69,47	83,82				
LSD (0,05)																										13,39	15,78			