

Eastern Sustainable Organic Cucurbit Project

Trial Results: 2016

Trials were conducted on research farms at Cornell University (NY), Auburn University (AL), Clemson University (SC) and North Carolina State University (NC).

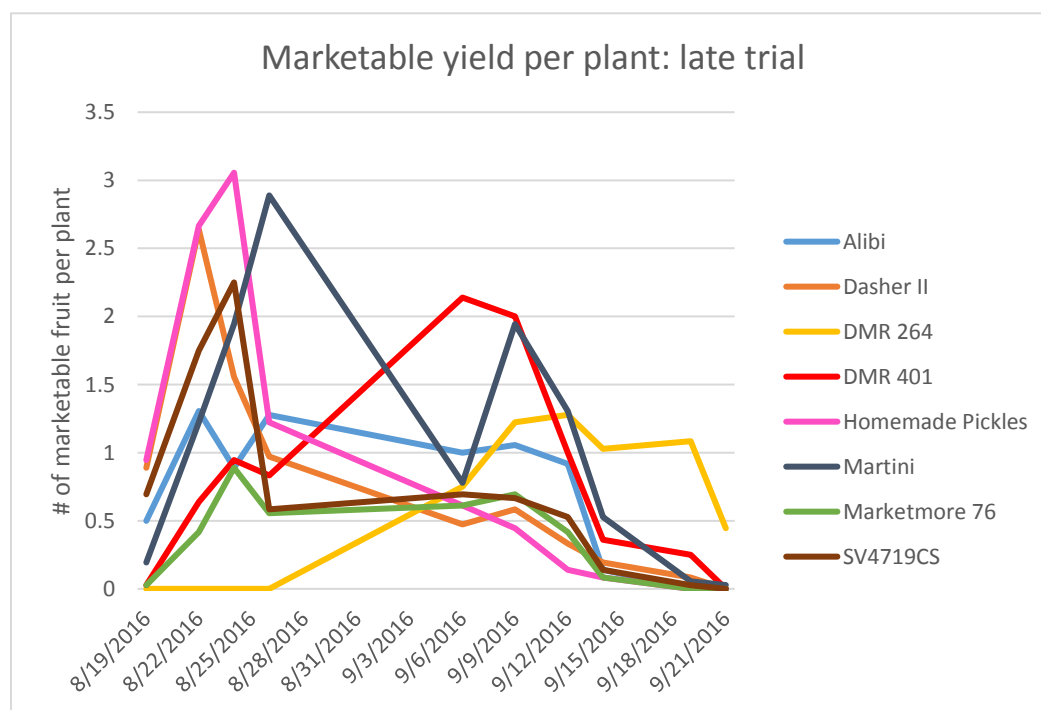
Cucumber

Varieties

Alibi	Pickle that always has greatest number of fruits
Dasher II	Seminis slicer, very commonly grown
DMR 401	Cornell slicer OP, true DMR, standard maturity
DMR-NY 264	Cornell slicer OP, true DMR, late maturity
Homemade Pickles	suggested by SE growers
Marketmore 76	Standard slicer OP, popular, affordable seed
Martini	Cornell-PanAm collaboration, white slicer, robust, abundant
SV4719CS	Seminis claimed DMR slicer

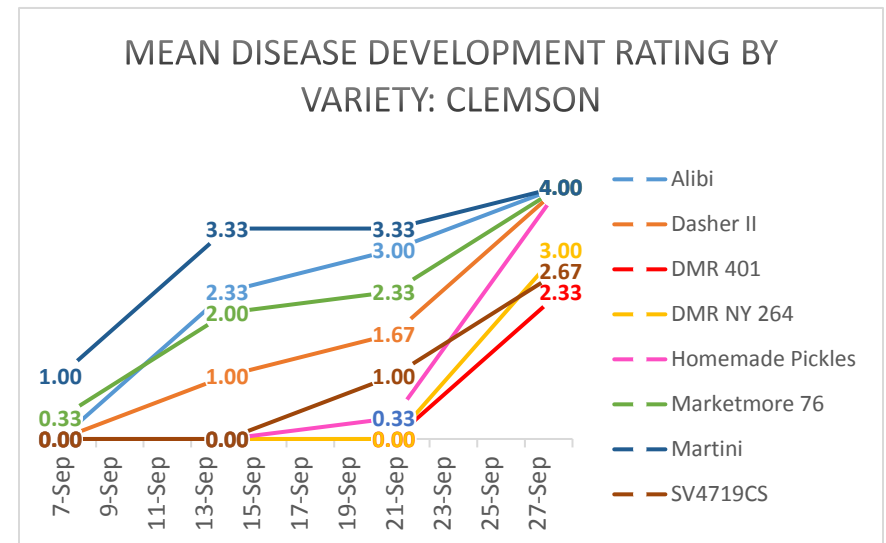
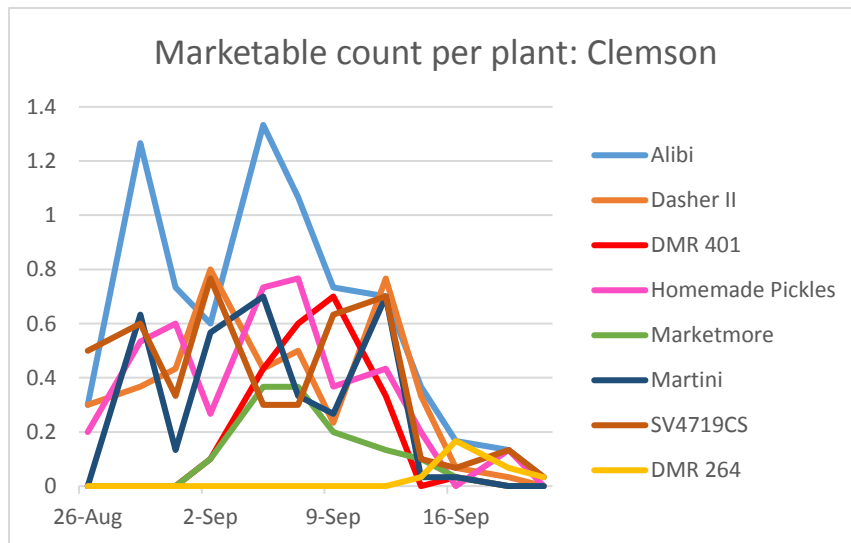
Results

Cornell University, NY												
Variety	Marketable Fruit Per Plant - Late Season				Mean Marketable Weight Per Plant (kg) - Late Season				% Leaf Area With Downy Mildew - Late Season			
		±				±				±		
Alibi	7.1	±	1.8	ABC	1.1	±	0.5	AB	61.7	±	2.9	AB
Dasher II	7.8	±	0.8	ABC	1.3	±	0.3	AB	48.3	±	5.8	BC
DMR 264	5.8	±	1.0	BC	0.9	±	0.1	AB	1.3	±	0.6	D
DMR 401	8.2	±	1.0	ABC	1.5	±	0.2	A	6.7	±	2.9	D
Homemade Pickles	9.2	±	0.9	AB	1.4	±	0.1	AB	63.3	±	10.4	AB
Martini	10.9	±	3.2	A	1.1	±	0.3	AB	65.0	±	5.0	A
Marketmore 76	3.7	±	1.5	C	0.7	±	0.2	B	66.7	±	5.8	A
SV4719CS	7.4	±	1.2	ABC	1.2	±	0.1	AB	32.5	±	3.5	C

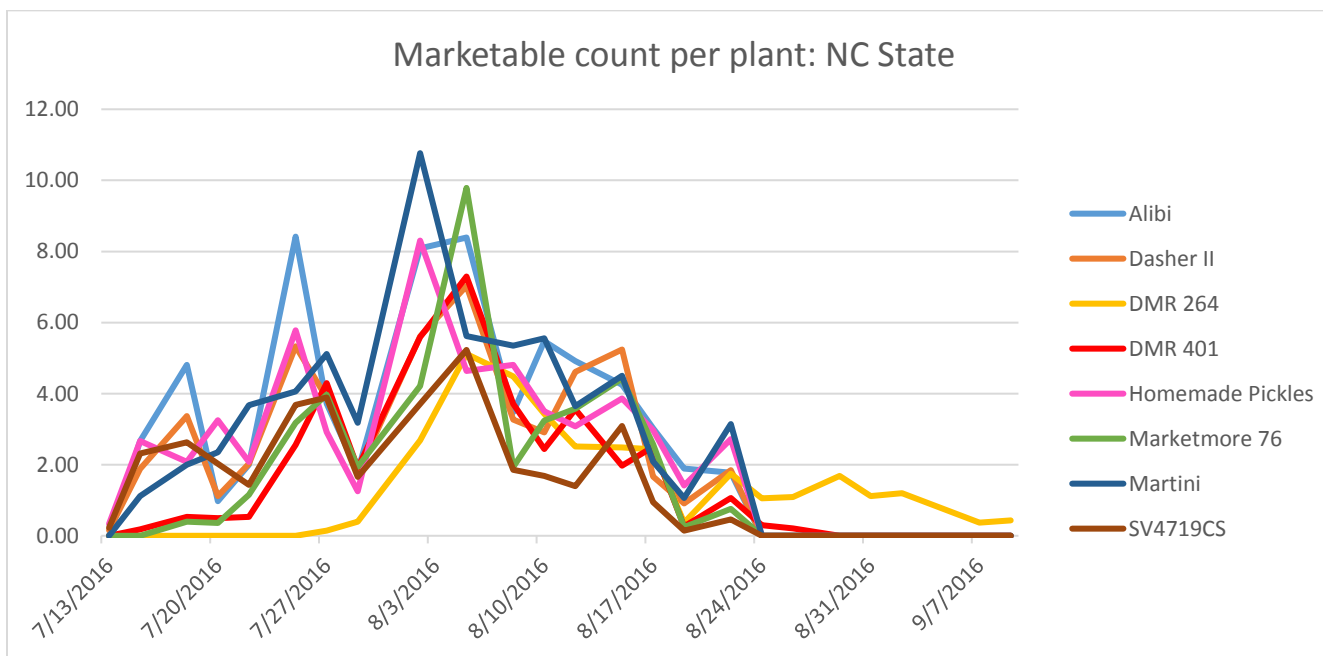


Clemson, SC									
Variety	Marketable fruits per plant				Marketable weight per plant (kg)				
	Alibi	7.43	±	1.33	A	1.32	±	0.18	A
Dasher II	4.27	±	1.01	AB	0.75	±	0.28	AB	
DMR 401	2.20	±	1.32	BC	0.43	±	0.22	BC	
DMR 264	0.30	±	0.35	C	0.06	±	0.08	C	
Homemade Pickles	4.23	±	0.42	AB	0.69	±	0.13	ABC	
Marketmore	1.30	±	0.62	BC	0.26	±	0.15	BC	
Martini	3.40	±	1.45	BC	0.53	±	0.24	BC	
SV4719CS	4.47	±	1.74	AB	0.80	±	0.41	AB	

Mean downy mildew rating			
4	±	0	A
4	±	0	A
2.3	±	0.6	B
3	±	1	AB
4	±	0	A
4	±	0	A
4	±	0	A
2.7	±	1.2	AB



Waynesville, NC										
Variety	Marketable count per plant				Marketable weight (kg) per plant					
Alibi	62.37	±	7.01	A		12.20	±	2.40	A	
Dasher II	48.66	±	0.60	ABC		11.63	±	0.32	AB	
DMR 264	30.76	±	4.52	C		7.63	±	1.24	B	
DMR 401	38.01	±	6.32	BC		9.52	±	0.47	AB	
Homemade Pickles	52.64	±	1.98	AB		11.41	±	0.21	AB	
Marketmore 76	38.83	±	8.15	BC		10.14	±	2.11	AB	
Martini	59.95	±	13.56	A		9.56	±	2.06	AB	
SV4719CS	34.04	±	3.96	BC		9.39	±	0.85	AB	



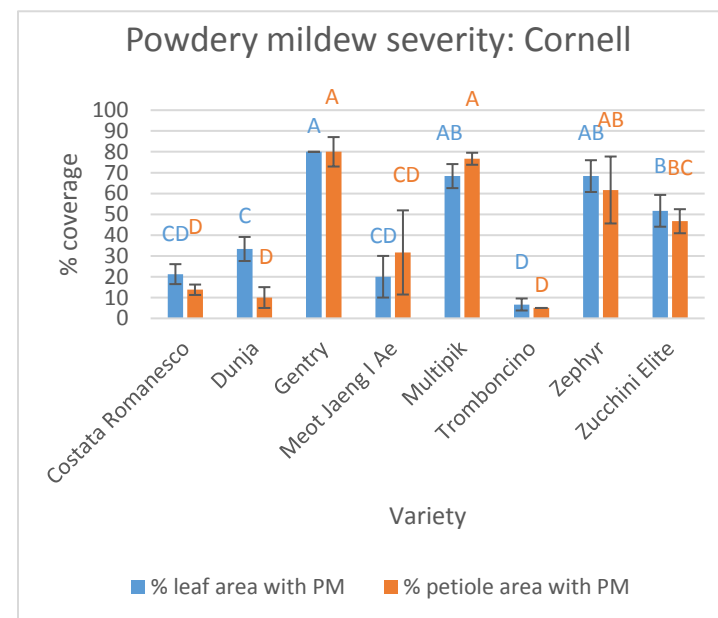
Squash

Varieties

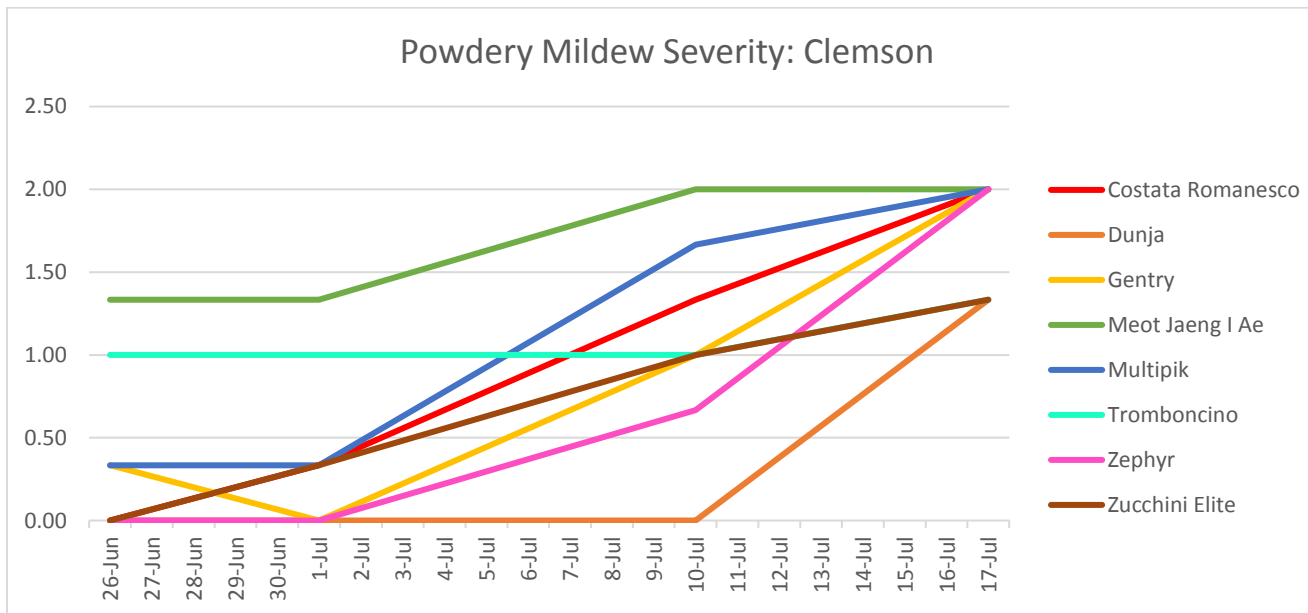
Costata Romanesca	Many grower requests because of its good flavor
Dunja	Popular high quality zucchini with virus resistance
Gentry	Crookneck summer squash, NC field day participants requested
Meot Jaeng I Ae	Newly available <i>C. moschata</i> for immature use, straight fruit, *vine*
Multipik	Straightneck summer squash, highest yield
Tromboncino	SE seed companies recommended for insect resistance (<i>C. moschata</i> *vine*)
Zephyr	Very popular novelty straightneck summer squash
Zucchini Elite	Very commonly grown zucchini

Results

Cornell University, NY							
Variety	Mean marketable yield per plant – late season				Mean marketable weight per plant (kg) – late season		
		±				±	
Costata Romanesco	3.6	±	0.7	CD	1.1	±	0.4 AB
Dunja	4.7	±	0.6	BCD	1.5	±	0.3 AB
Gentry	5.9	±	0.1	ABC	1.9	±	0.1 AB
Meot Jaeng I Ae	3.7	±	1.0	CD	1.2	±	0.4 AB
Multipik	7.8	±	0.5	A	1.8	±	0.2 AB
Tromboncino	2.8	±	0.9	D	0.9	±	0.3 B
Zephyr	6.8	±	1.7	AB	1.9	±	0.5 A
Zucchini Elite	5.6	±	0.6	ABC	1.7	±	0.1 AB



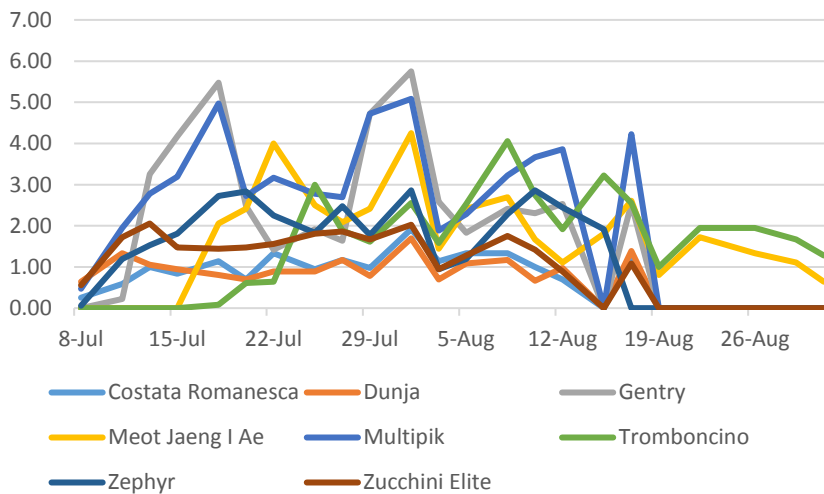
Clemson, SC								
Variety	Mean marketable yield per plant				Mean marketable weight per plant (kg)			
	Costata Romanesco	4.22	±	0.30	A	1.89	±	0.49
Dunja	5.00	±	2.55	A	1.55	±	0.92	A
Gentry	14.22	±	7.72	A	2.48	±	1.54	A
Meot Jaeng I Ae	7.04	±	6.66	A	1.50	±	1.44	A
Multipik	11.07	±	3.69	A	2.24	±	1.11	A
Tromboncino	3.65	±	2.57	A	1.29	±	0.96	A
Zephyr	14.85	±	3.52	A	3.70	±	1.08	A
Zucchini Elite	8.74	±	2.37	A	3.37	±	1.02	A



North Carolina State University, NC

Variety	Mean marketable count per plant				Mean marketable weight per plant (kg)			
		±				±		
Costata Romanesco	18.53	±	0.92	DE	14.50	±	1.51	C
Dunja	17.92	±	0.76	E	10.21	±	0.55	D
Gentry	49.84	±	2.75	A	12.17	±	0.35	CD
Meot Jaeng I Ae	39.08	±	4.68	B	20.60	±	1.73	A
Multipik	56.44	±	2.12	A	15.10	±	0.70	BC
Tromboncino	36.83	±	6.06	B	18.11	±	1.56	AB
Zephyr	34.50	±	1.77	BC	12.00	±	0.96	CD
Zucchini Elite	27.06	±	1.78	CD	15.10	±	0.85	BC

Mean marketable yield per plant: NC State



Variety	Mean Powdery Mildew Rating (0-5) on 8/17		
Costata Romanesca	3.333		0.6 AB
Dunja	2		0 D
Gentry	4		0 A
Meot Jaeng I AE	3		0 BC
Multipik	4		0 A
Tromboncino	2.333		0.6 CD
Zephyr	3.667		0.6 AB
Zucchini Elite	3		0 BC

Melon

Varieties

Athena	Grower standard all-around melon
Hannah's Choice	Cornell hybrid melon with virus resistance
Lilliput	Small melon requested by CSAs
PMR Delicious 51	Cornell legacy OP, variable performance
Sarah's Choice	Good quality and yield
Seminole	Rediscovered OP with moderate DMR
Trifecta	Cornell OP, sweet, moderate DMR
Wrangler	Good quality and yield

Results

Cornell, NY														
Variety	Mean marketable count per plant					Mean marketable weight per plant (kg)					Mean brix per variety			
Athena	0.9	±	0.6	BC		2.07	±	1.37	ABC		7.6	±	0.9	B
Hannah's Choice	1.9	±	0.4	AB		3.93	±	0.72	A		9.1	±	1.1	B
Liliput	3.0	±	0.7	A		3.07	±	0.74	AB		8.5	±	0.3	B
PMR Delicious 51	1.2	±	0.3	BC		2.07	±	0.45	ABC		7.8	±	0.3	B
Sarah's Choice	0.4	±	0.1	C		0.70	±	0.26	C		6.9	±	0.7	B
Seminole	1.5	±	0.4	BC		1.50	±	0.36	BC		6.9	±	0.8	B
Trifecta	1.2	±	0.1	BC		2.13	±	0.38	ABC		12.0	±	0.1	A
Wrangler	1.7	±	0.3	B		2.73	±	0.67	AB		8.7	±	1.5	B

North Carolina State University, NC														
Variety	Mean marketable count per plant					Mean marketable weight per plant (kg)					Mean Brix per variety			
Athena	4.58	±	0.66	E		11.24	±	1.16	AB		11.46	±	1.24	BC
Hannah's Choice	5.83	±	0.92	CDE		11.66	±	1.65	AB		10.11	±	2.31	CD
Liliput	10.64	±	0.27	A		10.36	±	0.57	B		14.40	±	0.95	A
PMR Delicious 51	7.89	±	0.41	BC		10.92	±	1.05	AB		10.54	±	1.49	CD
Sarah's Choice	5.06	±	0.64	DE		11.04	±	0.94	AB		11.47	±	1.67	BC
Seminole	8.78	±	1.38	AB		13.80	±	1.76	A		9.26	±	0.85	D
Trifecta	6.83	±	0.17	BCD		10.96	±	0.51	AB		13.64	±	0.59	A
Wrangler	7.44	±	0.96	BC		12.31	±	1.44	AB		13.23	±	0.83	AB

Clemson, SC														
Variety	Mean marketable count per plant					Mean marketable weight per plant (kg)					Mean Brix per variety			
Athena	1.80	±	0.61	AB		5.20	±	1.85	A		11.96	±	1.04	A
Hannah's Choice	2.30	±	0.17	A		5.75	±	0.80	A		10.84	±	1.17	AB
Lilliput	2.27	±	0.31	AB		2.84	±	0.35	BC		11.68	±	2.04	A
PMR Delicious 51	0.10	±	0.17	C		0.18	±	0.31	D		10.47	±	1.33	AB
Sarah's Choice	1.97	±	0.06	AB		5.83	±	0.45	A		9.77	±	1.41	B
Seminole	2.33	±	0.42	A		4.11	±	0.19	ABC		12.07	±	1.36	A
Trifecta	1.40	±	0.17	B		2.49	±	0.11	C		11.99	±	0.93	A
Wrangler	2.50	±	0.26	A		4.76	±	0.52	AB		11.75	±	0.74	A

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