



UNIVERSITY OF
FLORIDA

RADISH VARIETY TESTING AND POSTHARVEST EVALUATION FOR FLORIDA GROWERS

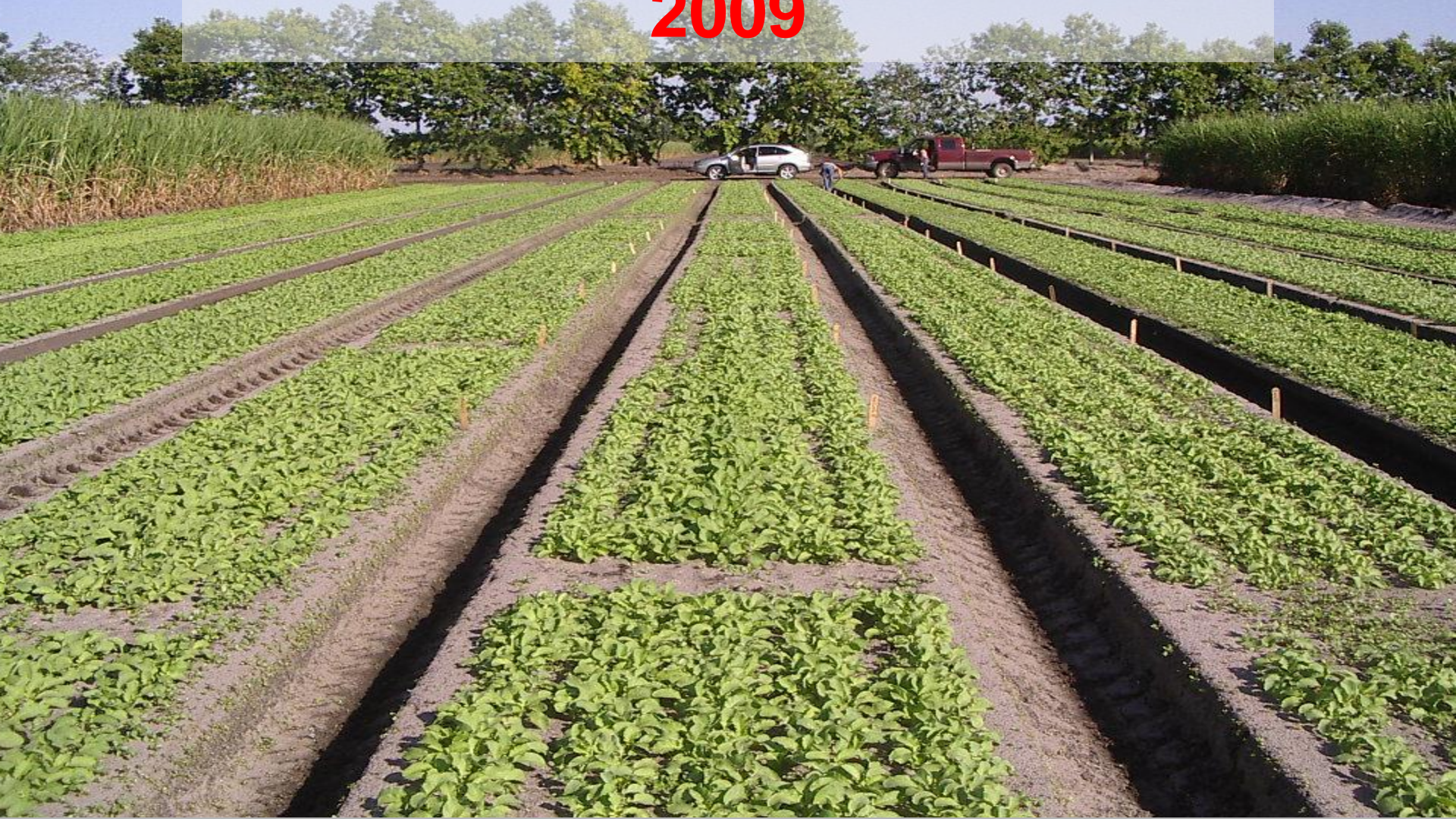
Monica Ozores-Hampton and Eugene McAvoy


Why a Variety Testing Program?

- Choosing which varieties to plant each year is a cornerstone of a successful vegetable industry.
- This variety testing program provides unbiased information about the adaptability and performance of varieties in Florida's diverse environments, thereby allowing growers to make informed decisions.



2009





Varieties	Company
Celesta	Enza Zaden
Champion	Chriseed
Diego	Nickerson Zwaan-H
Escala	Enza Zaden
E 61.64930	Chriseed
Envy	Chriseed-H
Fire Ball	Sakata-H
HM 118	Harris Moran-H
HM 119	Harris Moran-H
Mr Red	-
Red Castle	Harris Moran-H
Red Dawn	Harris Moran-H
Red Satin	Harris Moran-H
Red Silk	Harris Moran-OP's
Red Velvet	Harris Moran
Rudi (control)	Enza Zaden-OP's
XRA 3536	Chriseed-H

Late Fall Trial

Varieties	Size		Marketable Yield			Unmarketable
	Large	Medium	Large	Medium	Total	
	----- (g) -----		----- (15-lb boxes/acre) -----			
Diego	28.5	18.7ab ^z	504bcd	283 abcd	786def	381bcd
Envy	22.0	16.7abc	315cdef	424ab	739defg	424bc
Fire Ball	14.7	11.5cd	694cde	146cd	840fgh	327bcde
HM 118	26.1	17.4abc	855a	371abc	1,226ab	117e
HM 119	27.8	18.7bc	782ab	570a	1,351a	194cde
Mr Red	11.1	13.1d	349def	304abcd	654fgh	143de
Red Castle	25.9	18.9ab	739ab	411abc	1,150abc	143de
Red Dawn	25.1	16.7abc	497bcd	553a	1,050abcd	235bcde
Red Satin	30.2	13.5abc	787ab	236bcd	1,023bcde	131de
Red Silk	0.0	6.2cd	0f	264d	264i	719a
Red Velvet	24.4	17.8abc	532abc	409abc	941bcde	303bcde
Rudi	5.6	7.7cd	179ef	336bcd	514hi	492b
XRA 3536	25.8	14.5a	504bcd	389abcd	894cdef	326bcde
P value	0.12	0.0002	0.0001	0.001	0.0001	0.0001
Sig.	ns	**	**	**	**	**

Post-harvest Evaluation

Varieties	Top Height	Root Shape	Top Color	Root Color	Root Quality	Skin Layer	Interior Color	Cracking
	----- Quality characteristics scale of 1-5 -----							
Diego	3.3cd	4.0	3.3	4.0	3.5abcd	3.0	3.3	3.5abc
Envy	3.3cd	3.5	3.5	4.0	2.3cd	3.3	2.8	3.0bc
Fire Ball	3.7bcd	4.3	3.3	4.0	3.0abcd	2.3	3.3	4.0ab
HM 118	3.3cd	4.8	3.0	4.0	3.8abc	3.5	3.3	3.5abc
HM 119	4.0abc	3.8	3.3	4.0	2.8bcd	3.3	3.8	3.8abc
Mr Red	1.5e	5.0	2.5	4.0	3.8abc	3.3	2.5	2.8c
Red Castle	3.5bcd	3.3	3.3	4.0	3.3abcd	3.3	3.5	3.5abc
Red Dawn	3.3cd	5.0	3.0	4.0	4.3ab	3.5	3.0	4.0ab
Red Satin	3.3cd	3.8	3.3	4.0	3.0abcd	3.0	3.8	3.5abc
Red Silk	5.0a	4.0	4.0	4.0	3.0abcd	2.0	4.0	3.0bc
Red Velvet	3.0cd	3.5	3.0	4.0	2.5cd	2.8	3.3	4.3a
Rudi (Control)	2.5de	4.0	3.0	4.0	3.0abcd	4.5	2.5	1.5d
XRA 3536	4.3abc	2.5	3.5	4.0	2.0d	2.5	2.8	3.3abc
P value	0.0001	0.22	0.19	0.21	0.008	0.47	0.44	0.0002
Sig.	**	ns	ns	ns	**	ns	ns	**

Spring Trial

Varieties	Size		Marketable Yield			Unmarketable
	Large	Medium	Large	Medium	Total	
	----- (g) -----		----- (15 lb boxes/acre) -----			
Celesta	28.3	18.6	130cd	624abc	754efgh	415abc
Champion	31.8	20.7	162cd	432c	594fgh	685a
Diego	60.9	21.5	805ab	794a	1598a	237c
Envy	27.0	19.1	223cd	560abc	782efg	474abc
Escala	25.6	17.5	445abcd	452bc	897def	314bc
Fire Ball	28.5	22.5	76d	457abc	533efgh	592ab
HM 118	32.3	16.1	582abc	742ab	1,325abc	260bc
HM 119	37.3	24.5	890a	555abc	1,445ab	211c
Mr Red	0.0	16.3	0d	336c	336h	464abc
Red Castle	34.4	20.7	549abc	634abc	1,183abcd	356abc
Red Satin	31.4	22.5	592abc	446bc	1,039bcde	213c
Red Velvet	33.0	19.9	191cd	822a	1,013cdef	360abc
Rudi	28.0	16.8	19d	404c	423gh	543abc
XRA 3536	31.2	26.9	333bcd	573abc	906def	453abc
P value	0.38	0.07	0.0003	0.01	0.0001	0.05
Sig.	ns	ns	**	**	**	*

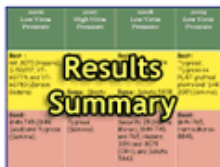
April Trial

Varieties	Size		Marketable Yield			Unmarketable
	Large	Medium	Large	Medium	Total	
	----- (g) -----		----- (15-lb boxes/acre) -----			
Champion	34.1	na	91	0	91	1,119ab ^Z
Diego	39.3	34.1	157	91	248	1,283ab
E 61.64930	40.4	26.3	403	339	742	444c
Envy	44.1	40.9	197	54	251	1,349a
Fire Ball	45.0	22.7	206	61	266	974abc
HM 118	60.5	27.2	484	109	593	1310a
HM 119	39.7	39.7	141	343	484	1,154abc
Mr Red	24.1	na	124	0	124	653bc
Red Castle	35.6	24.2	153	65	218	645bc
Red Satin	48.0	31.8	379	141	520	780bc
Red Velvet	34.1	27.6	45	248	293	865abc
XRA 3536	25.0	na	44	0	44	1,464a
P value	0.62	0.72	0.61	0.07	0.32	0.008
Sig	ns	ns	ns	ns	ns	**

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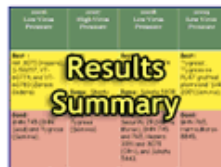
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http://www.imok.ufl.edu/vegetable_hort/variety_testing/

Thanks....thanks...Thanks

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