

Radish Yield and Quality Variety Evaluation

Spring 2010.
Clewiston, FL.



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September 29, 2010

Table 1. Summary of cultural practices used in radish variety evaluation grown with seepage irrigation in Clewiston, FL. during spring 2010.

Field History	
Location	Clewiston, FL
Experimental Design	CRBD (4 reps)
Irrigation	Seepage
Plot size	10 ft x 3 rows
Harvest Unit	2 ft x 3 rows (1/5 of the bed)
Planting Date	23-Apr-10
Linear ft per acre	7,260
Bed Spacing	6 ft
Bed Width	58 in
Bed Height	8 in
Row per bed	15
Row run	North – South
Plant Spacing	1 in
Plant population	1,306,800
Harvest Date	25-May-10

Table 2. Sources of seeds

Varieties	Company
Champion	Chriseed
Diego	Nickerson Zwaan-H
E 61.64930	Chriseed
Envy	Enza Zaden
Fire Ball	2bseeds
HM 118	Harris Moran-H
HM 119	Harris Moran-H
Mr Red	-
Red Castle	Harris Moran-H
Red Satin	Harris Moran-H
Red Velvet	Harris Moran
XRA 3536	Chriseed-H

H=Hybrid; OP's=Open pollination

Table 3. Summary of temperature and total rainfall during the spring 2010, Clewiston, FL.

Period	Temperature (°F)			Total rainfall (inch)
	Average	Min	Max	
23-Apr-10	73.5	64.0	84.3	3.7
25-May-10	78.8	70.3	89.2	4.6
Average/Total	76.1	67.1	86.7	8.3

Table 4. Size, marketable and unmarketable yield categories for selected radish varieties grown in Clewiston, FL. during spring 2010.

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	**

^z Within columns, means followed by different letters are significantly different according to Duncan's Multiple Range Test at 5%.

**Significance at $P \leq 0.01$. *Significance at $P \leq 0.05$. ns Non-significance
na Not applicable

Table 5. Quality categories for selected radish varieties grown in Clewiston, FL. during spring 2010.

Varieties	Top Height	Root Shape	Top Color	Root Color	Root Uniformity	Root Quality	Skin Layer	Interior Color
Champion	3.0	4.0a	3.0	3.0	2.0	2.0	5.0	1.0e
Diego	4.0	4.0a	4.0	3.0	2.0	3.0	5.0	2.0cde
E 61.64930	3.0	4.7a	3.7	3.3	4.0	4.0	3.0	1.0e
Envy	4.0	4.0a	4.0	2.5	3.5	4.0	3.5	2.0cde
Fire Ball	5.0	4.0a	3.5	3.5	2.5	2.0	5.0	4.0a
HM 118	3.3	4.0a	3.8	3.0	3.0	3.5	4.0	2.3bcd
HM 119	3.0	2.5b	3.5	3.0	3.0	3.5	4.5	2.0cde
Mr Red	2.5	2.0b	3.5	3.0	2.5	2.5	3.5	1.0e
Red Castle	3.5	4.0a	3.5	3.0	2.5	2.5	4.5	2.0cde
Red Satin	4.3	4.0a	4.0	2.7	2.3	3.0	4.0	1.5de
Red Velvet	3.3	4.3a	3.7	3.0	2.0	3.7	3.0	3.7ab
XRA 3536	5.0	4.0a	4.0	3.0	4.0	3.0	4.0	3.0abc
P value	0.11	0.02	0.90	0.78	0.11	0.23	0.40	0.002
Sig	ns	*	ns	ns	ns	ns	ns	**

^z Within columns, means followed by different letters are significantly different according to Duncan's Multiple Range Test at 5%.

**Significance at $P \leq 0.01$. *Significance at $P \leq 0.05$. ns Non-significance.