

**Radish Yield and Quality Variety Evaluation
Fall 2009
Clewiston, FL.**



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July 29, 2010**

Table 1. Summary of cultural practices used in radish variety evaluation grown with seepage irrigation in Clewiston, FL. during fall 2009.

Field History	
Experimental Design	CRBD (4 reps)
Location	Clewiston, FL.
Irrigation	Seepage
Plot size	10 ft x 3 rows
Harvest Unit	2 ft x 3 rows (1/5 of the bed)
Planting Date	15-Oct-09
Linear ft per acre	7260
Bed Spacing	6 ft
Bed Width	54 in
Bed Height	8 in
Plant population	1,306,800
Row per bed	15
Plant Spacing	1 in
Row run	North – South
Harvest Date	16-Nov-09

Table 2. Sources of seeds.

Varieties	Company
Diego	Nickerson Zwaan-H
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

H=Hybrid; OP's=Open pollination

Table 3. Summary of temperature and total rainfall during the fall 2009, Clewiston, FL.

Period	Temperature (°F)			Total rainfall (inch)
	Average	Min	Max	
15-Oct-09	75.0	64.8	86.7	0.1
16-Nov-09	71.5	61.8	82.6	0.0
Average/Total	73.3	63.3	84.7	0.1

Table 4. Size, marketable and unmarketable yield categories for selected radish varieties grown in Clewiston, FL. during fall 2009.

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	1226ab	117e
HM 119	27.8	18.7bc	782ab	570a	1351a	194cde
Mr Red	11.1	13.1d	349def	304abcd	654fgh	143de
Red Castle	25.9	18.9ab	739ab	411abc	1150abc	143de
Red Dawn	25.1	16.7abc	497bcd	553a	1050abcd	235bcde
Red Satin	30.2	13.5abc	787ab	236bcd	1023bcde	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	**	**	**	**	**

^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.

Table 5. Quality categories for selected radish varieties grown in Clewiston, FL. during fall 2009.

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 ^Z	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	**

^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.





