

**Radish Yield and Quality Variety Evaluation
Spring 2010
Clewiston, FL.**



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

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	18-Feb-10
Linear ft per acre	7,260
Bed Spacing	6 ft
Bed Width	54 in
Bed Height	8 in
Rows per bed	15
Plant population	1,306,800
Plant Spacing	1 in
Row run	North – South
Harvest Date	25-Mar-10

Table 2. Sources of seeds

Varieties	Company
Celesta	Enza Zaden
Champion	Chriseed
Diego	Nickerson and Zwann-H
Envy	Chriseed-H
Escala	Enza Zaden
Fire Ball	Sakata-H
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
Rudi	Enza Zaden-OP ^S
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	
18-Feb-10	57.7	46.3	71.6	0.4
25-Mar-10	60.8	48.9	73.6	2.3
Average/Total	59.3	47.6	72.6	2.6

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)			
Celesta	28.3	18.6	130cd ^Z	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	1325abc	260bc
HM 119	37.3	24.5	890a	555abc	1445ab	211c
Mr Red	0.0	16.3	0d	336c	336h	464abc
Red Castle	34.4	20.7	549abc	634abc	1183abcd	356abc
Red Satin	31.4	22.5	592abc	446bc	1039bcde	213c
Red Velvet	33.0	19.9	191cd	822a	1013cdef	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	**	**	**	*

^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. Radish 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	Bacteria Spot
Celesta	2.5cd ^Z	5.0	3.0bc	4.0	3.8abc	2.8cd	3.5	3.3abc	3.5
Champion	4.0ab	4.8	3.0bc	4.0	3.8abc	3.3abcd	2.8	3.3abc	3.0
Diego	3.8b	4.3	3.5ab	4.0	3.3bc	4.3a	3.0	4.0a	3.0
Envy	3.0bc	4.8	3.3abc	4.0	3.0c	4.0ab	3.0	3.5ab	3.0
Escala	3.0bc	4.8	3.0bc	4.0	3.3bc	3.3abcd	3.5	2.0cd	3.3
Fire Ball	4.0ab	4.5	3.3abc	4.0	3.8abc	3.8abc	3.0	3.8a	3.0
HM 118	3.0bc	4.8	3.3abc	4.0	3.0c	4.0ab	3.0	3.5ab	3.0
HM 119	3.3bc	4.5	3.3abc	4.0	3.3bc	4.0ab	3.3	2.8abc	3.0
Mr Red	1.5e	5.0	2.8c	4.0	4.8a	2.3d	3.3	2.3bcd	3.0
Red Castle	3.3bc	4.0	3.0bc	4.0	3.0c	3.8abc	3.0	3.3abc	3.5
Red Satin	3.3bc	4.0	3.0bc	4.0	3.0c	3.3abcd	3.0	3.0abc	3.0
Red Velvet	2.3cde	5.0	3.0bc	4.0	3.5bc	3.0bcd	3.3	4.0a	3.5
Rudi	2.0de	5.0	2.8c	4.0	4.5ab	2.8cd	3.0	1.3d	3.5
XRA3536	4.8a	5.0	3.8a	4.0	4.0abc	4.0ab	3.5	3.8a	2.5
P value	0.0001	0.08	0.01	-	0.02	0.001	0.36	0.001	0.4
Sig.	**	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.



