

# **TOLERANCE OF YELLOW SQUASH AND ZUCCHINI CROPS AND VARIETIES TO WHITEFLY TRANSMITTED VIRUSES**



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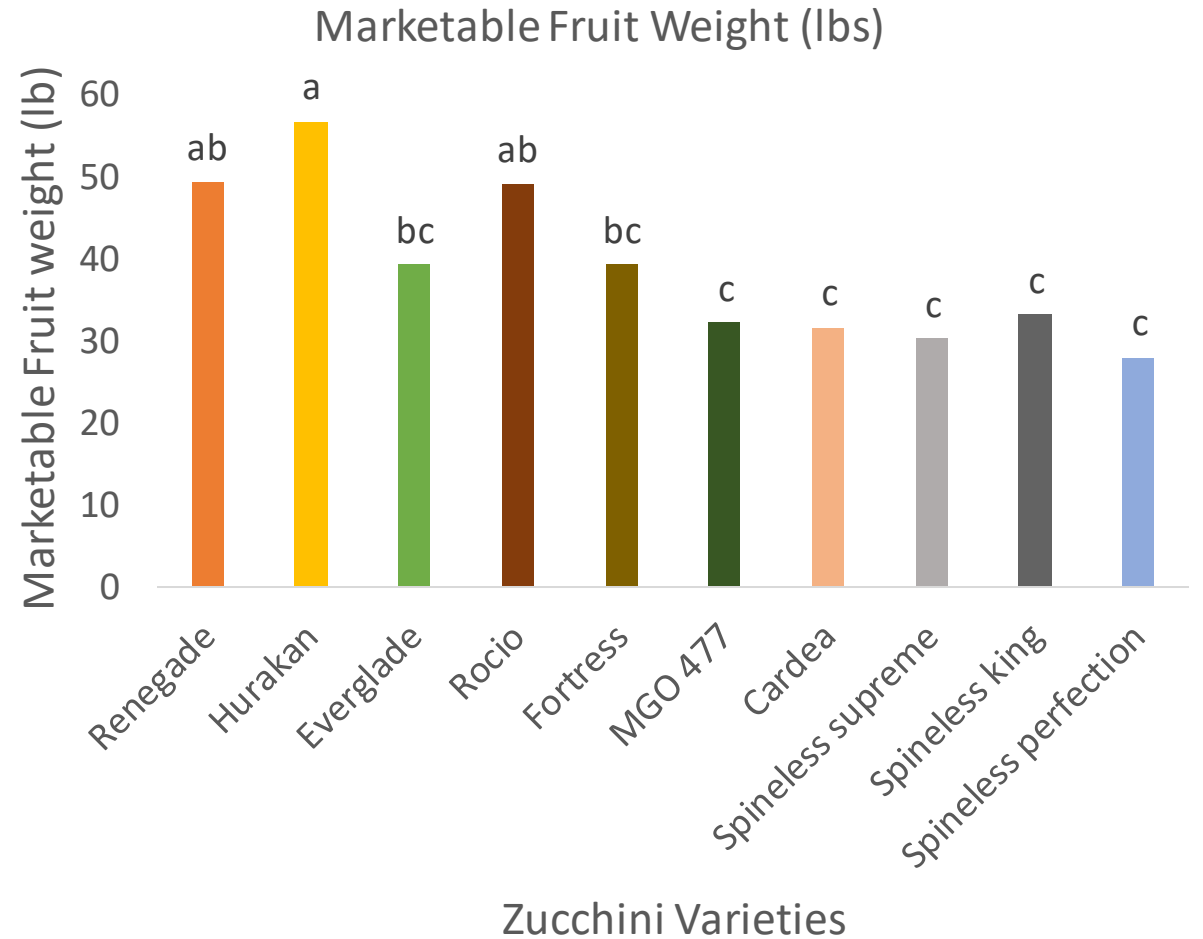
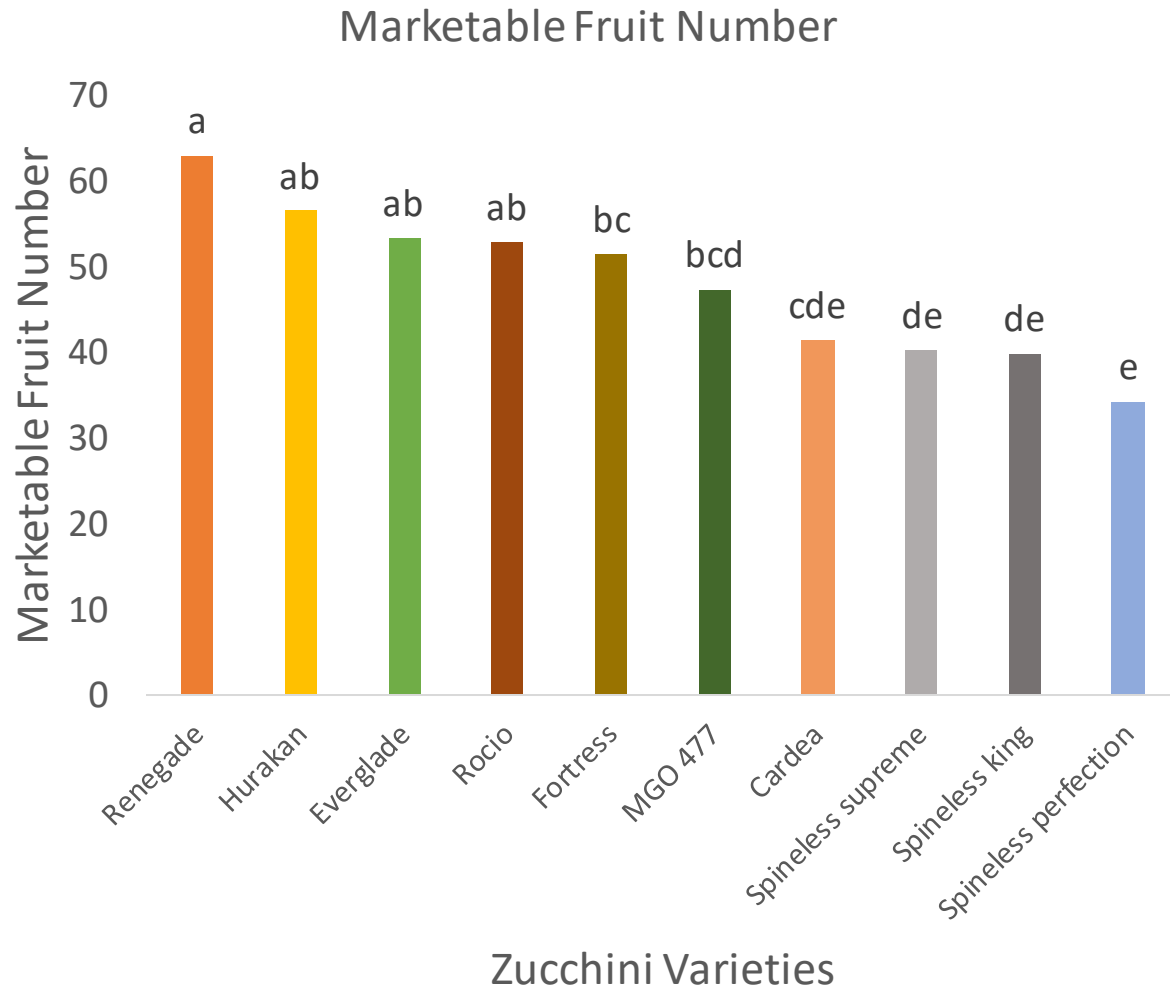
# Crops and Varieties Tested in Fall 2023

## Crops

## Varieties

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10
<b>Yellow squash</b> ( <i>C. pepo</i> )	Gold Prize (SN)	Grand Prize (SN)	Lazor (SN)	Enterprise (SN)	Fortune (SN)	Cougar (SN)	Gentry (SCN)	Gold Star (SCN)	Lioness (SN)	Multipik (SN)
<b>Zucchini</b> ( <i>C. pepo</i> )	Everglade	Spineless supreme	Spineless perfection	Spineless king	MGO 477	Fortress	Cardea	Renegade	Hurakan (Gray)	Rocio (Grey)

# Zucchini Marketable Fruit Yield



# Zucchini Unmarketable Yield Results 2023

Variety	Virus Fruit Number	Virus Fruit Weight (lb)	Unmarketable Fruit Number	Unmarketable Fruit Weight (lb)	Length (In)	Width (In)
Renegade	0.00 d	0.00 c	6.00 cde	4.93 bc	36.93 ab	11.28 b
Hurakan	0.27 cd	0.20 c	3.75 de	2.39 c	31.95 b	15.06 a
Everglade	0.27 cd	0.15 c	13.20 ab	8.39 a	36.60 ab	9.75 b
Rocio	0.00 d	0.00 c	3.12 e	2.23 c	34.28 ab	13.34 a
Fortress	0.00 d	0.00 c	9.25 abc	6.50 ab	38.37 a	10.18 b
MGO 477	3.61 b	2.73 b	13.58 a	7.29 ab	36.04 ab	10.84 b
Cardea	0.27 cd	0.12 c	9.56 abc	5.99 ab	38.51 a	10.95 b
Spineless Supreme	0.55 cd	0.42 c	9.00 bc	6.29 ab	34.87 ab	9.87 b
Spineless King	2.22 bc	1.67 bc	7.72 cd	5.09 bc	39.09 a	9.98 b
Spineless Perfection	9.16 a	7.21 a	8.50 c	6.18 ab	34.93 ab	11.43 b

# Zucchini Yield Results 2022

Variety	Marketable Fruit Count	Virus Fruit Count	Unmarketable Fruit Count
Everglade	50.75 a	0 b	19 a
Spineless Supreme	33.75 b	0.5 b	12.5 b
Spineless Perfection	29.75 b	11.0 a	10.8 b
Spineless King	28.25 b	8.5 a	10.8 b

# Zucchini Silvering, Virus and Downy Scoring 2023

Variety	Average Silvering (1-5)	Virus Incidence (%)	Virus Severity (0-4)	AUDPC Downy
Renegade	2.09 cd	0.00 d	0.00 c	22.750 b
Hurakan	2.38 bcd	20.00 abcd	1.00 bc	26.250 ab
Everglade	1.93 d	35.55 ab	1.25 b	30.625 ab
Rocio	1.88 d	5.00 cd	0.25 bc	21.875 b
Fortress	2.34 bcd	20.00 abcd	1.00 bc	25.375 ab
MGO 477	2.89 ab	30.83 ab	1.00 bc	29.750 ab
Cardea	2.50 bcd	24.37 abcd	1.00 bc	25.375 ab
Spineless Supreme	2.64 bc	15.00 bcd	0.50 bc	28.000 ab
Spineless King	2.58 bc	29.16 abc	1.25 b	32.375 a
Spineless Perfection	3.29 a	42.50 a	2.75 a	22.750 b

# Whitefly Infestation, Silvering and Virus in Zucchini



# Silvering in Zucchini Plants





# Common Virus Symptoms in Zucchini Plants



# Zucchini Fruits (Healthy and Virus)



# Renegade Fruits

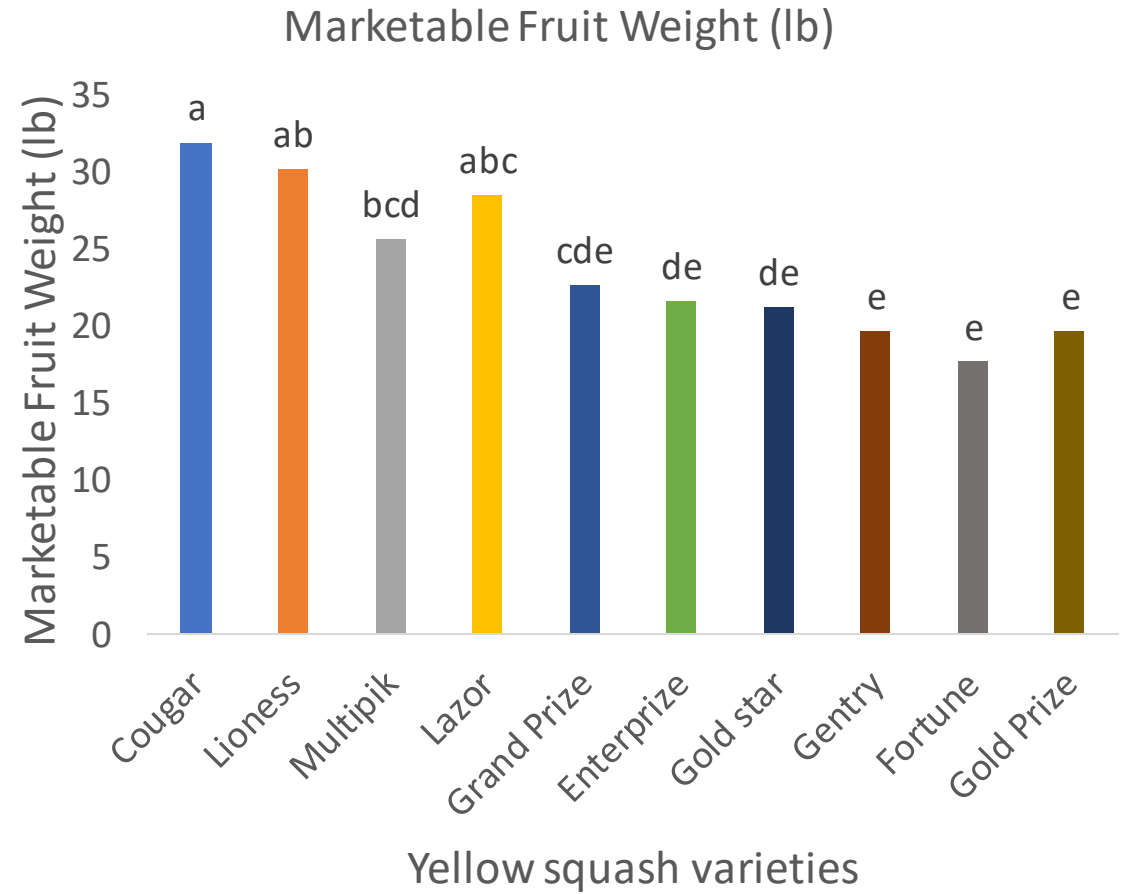
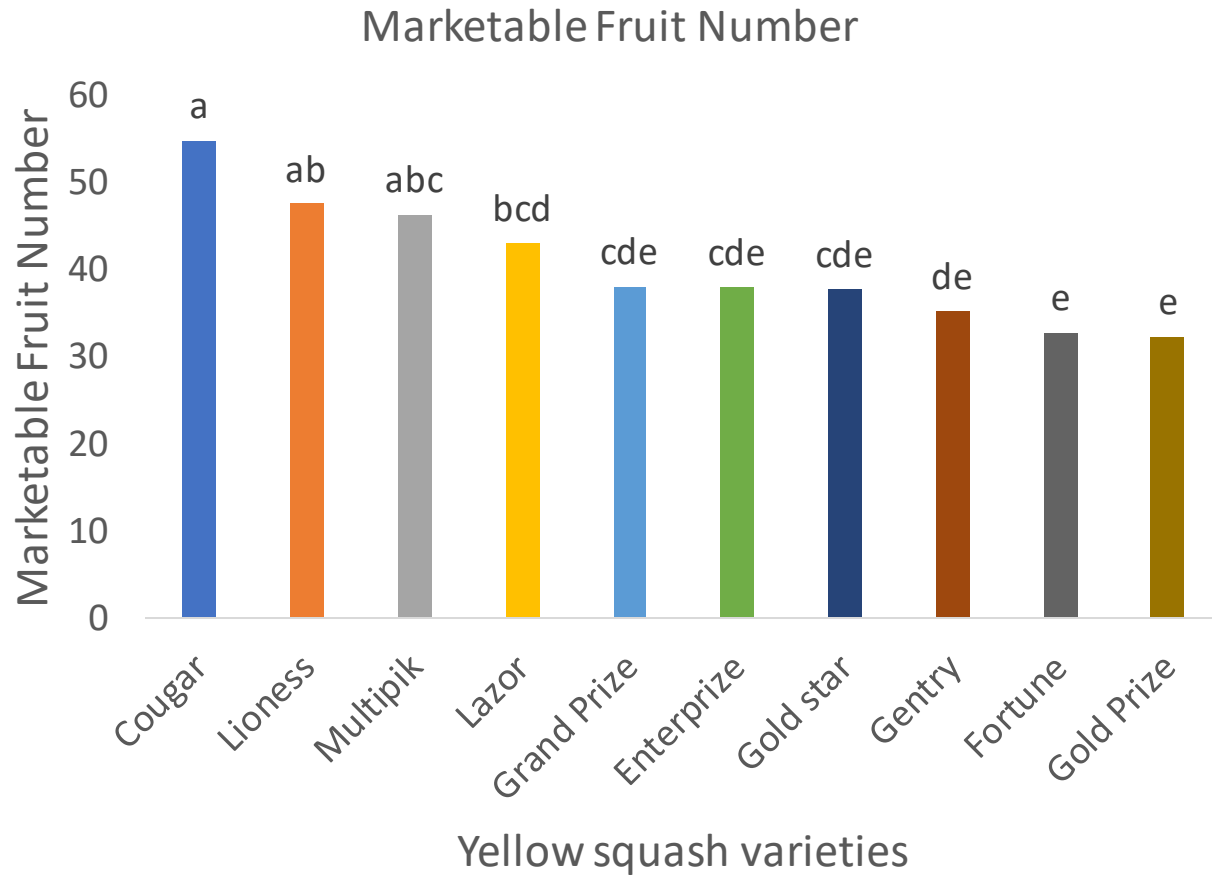




# Specialty: Hurakan and Rocio



# Yellow squash Marketable Yield Results 2023



# Yellow squash Unmarketable Yield Results 2023

Variety	Virus Fruit Number	Virus Fruit Weight (lb)	Unmarketable Fruit Number	Unmarketable Fruit Weight (lbs)	Length (In)	Width (In)
Cougar	1.00 b	0.30 b	8.75 b	4.33 ab	7.81 ab	2.36 b
Lioness	0.25 b	0.35 b	6.50 b	3.54 ab	8.47 a	3.07 a
Multipik	2.75 b	1.14 b	12.50 a	5.31 a	6.76 cde	2.02 b
Lazor	0.50 b	0.11 b	6.50 b	3.41 bc	8.47 a	2.20 b
Grand Prize	0.00 b	0.00 b	8.50 b	3.59 ab	7.67 abc	2.26 b
Enterprise	3.27 b	1.58 b	9.72 ab	4.80 ab	7.22 bcd	2.39 b
Gold Star	0.00 b	0.00 b	2.25 c	1.62 cd	6.41 de	2.47 ab
Gentry	12.00 a	4.40 a	12.27 a	4.24 ab	6.08 e	2.39 b
Fortune	1.75 b	1.27 b	7.00 b	3.38 bcd	7.65 abc	2.51 ab
Gold Prize	0.75 b	0.38 b	2.75 c	1.54 d	7.89 ab	2.29 b

# Yellow squash Yield Results 2022

Variety	Marketable fruit count	Virus Fruit count	Unmarketa ble fruit count
Fortress	44.8 a	7.5 a	6.8 b
MGO 477	39.0 ab	1.0 c	20.0 a
CNO 196	33.8 abc	1.3 c	5.5 b
Grand Prize	31.3 bc	1.8 bc	8.5 b
Lazor	28.5 bc	3.3 abc	7.5 b
Gold Prize	23.5 c	6.0 ab	8.8 b



# Yellow squash scoring Results 2023

Variety	Average Silvering (1-5)	Virus Incidence (%)	Virus Severity (0-4)	AUDPC Downy
Cougar	1.96 cd	75.0 bcd	3.25 ab	19.25 cd
Lioness	2.10 bcd	45.0 e	2.25 c	14.87 d
Multipik	2.21 bc	92.5 ab	3.75 ab	28.87 ab
Lazor	2.14 bcd	72.5 cd	2.25 c	21.00 bcd
Grand Prize	2.64 ab	62.5 de	3.00 bc	25.37 bc
Enterprise	2.21 bc	85.0 abc	3.50 ab	25.37 bc
Gold star	1.60 d	75.0 bcd	3.75 ab	28.00 ab
Gentry	2.50 abc	100.0 a	4.00 a	35.00 a
Fortune	2.89 a	92.5 ab	4.00 a	28.87 ab
Gold Prize	2.28 bc	62.5 de	3.00 bc	18.37 cd

# Whitefly Infestation, Silvering and Virus Infestation in Yellow squash



# Yellow Squash Fruit (Healthy and Virus)





# Common Virus Symptoms in Yellow Squash



# Whitefly Infestation and Virus in Yellow squash



# Summary

- Summer Squash
  - Zucchini > Yellow Squash
  
- Zucchini
  - Green
    - Renegade\*, Everglade, Fortress
  - Specialty
    - Hurakan, Rocio\*
  - Spineless Performed Poor
    - Spineless Supreme

# Summary Continued

- Yellow Squash
  - Cougar, Lioness\*, Multipik, Lazor



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*Thank  
You*

