

# Watermelon Rootstocks

# 1. Lagenariae (Calabash Gourd)

- Very tolerant to low temperatures
- Easy to graft
- More consistent fruit setting
- More consistent fruit quality

## 2. Squash

- Extremely tolerant to low temperatures
- Less possibility for physiological disorders
- Plants grow vigorously due to increased absorption of nutrients

### 3. Watermelon

- Higher quality fruit and higher brix under optimum conditions
- Easy to graft and raise seedlings
- More consistent fruit setting



Soil-born diseases

No

Yes

High fruit /brix quality

Soil is highly contaminated by soil born diseases

No

Yes

No

Yes

High fruit quality

Strong vigor

No

No

Yes

Should grow well under low temperature

Medium Strong vigor

Medium vigor

No

Yes

Need bigger cotyledon for easy grafting

Lagenariae SAVOR

Watermelon YOKOZUNA

Lagenariae TI-191

Lagenariae VALET

Squash KEYSTONE

Squash TI-140

Squash TETSUKABUTO



Variety	Growth under low temperature	Vigor	Thickness of Hypocotyl	Fusarium tolerance		
				Fon	Fol	
Lagenariae	RAMPART (TI-191)	Strong	Medium Strong	Medium	High	Inter-mediate
	VALET	Strong	Medium	Medium	High	Inter-mediate
	BINGO	Strong	Medium	Medium	High	Inter-mediate
	SAVOR	Strong	Medium Strong	Medium Thick	High	None
Squash	TETSUKABUTO	Very Strong	Very Strong	Thick	High	High
	KEYSTONE	Strong	Medium Strong	Thick	High	High
Watermelon	YOKOZUNA	Medium	Medium	Medium thin	Medium	Strong

Fon : Fusarium wilt (Fusarium oxysporum f. sp. Niveum)

Fol : Fusarium wilt ( Fusarium oxysporum f.sp. Lagenariae)

<b>Variety</b>		<b>Characteristics</b>	<b>Remarks</b>
<b>Lagenariae</b>	<b>VALET</b>	Strong against Fol. Consistent fruit setting and fruit quality	Performs well in fields with successive cropping
	<b>BINGO</b>	Consistent fruit setting and fruit quality	Performs well in fields with successive cropping
	<b>SAVOR</b>	Keeps vines in good shape for a long time	Not recommended in fields where Fol. has occurred
	<b>Ramper t (T-191)</b>	Our strongest Lgenariae against Fol.	Performs well on fields with successive cropping

<i>Variety</i>		<i>Characteristics</i>	<i>Remarks</i>
<b>Squash</b>	<b>TETSUKABUTO</b>	Extremely tolerant to heat and dry conditions. Keeps vines in good shape for a long time.	Performs well in fields with successive cropping. Due to strong vigor, less basal fertilizer should be applied
	<b>KEYSTONE</b>	Extremely tolerant to heat and dry conditions. Keeps vines in good shape for a long time.	Performs well in fields with successive cropping.
<b>Watermelon</b>	<b>YOKOZUNA</b>	Makes high quality fruit with high brix	It does not perform well under low temperature