



Provar

Independent Cultivar Evaluation

*SA CHERRY GROWERS' ASSOCIATION
SA KERSIE PRODUSENTE VERENIGING*

2018/2019 EVALUATION RESULTS

August 2019

Wilmé van Zyl

6 CHERRY CULTIVARS
EVALUATED IN THE 2018/2019
SEASON.

Royal Dawn



Brooks



Lapins



Stocatto

Sweetheart

Regina

EVALUATION PROTOCOLS



Evaluation of Tree (Plant Evaluation)

- Phenological Stages
- Growth and Architecture
- Trellis and Training Systems
- Flowering
- Fruit Set
- Adapatability

NB: Plant evaluation started at 80% flowering and was completed for all cultivars.

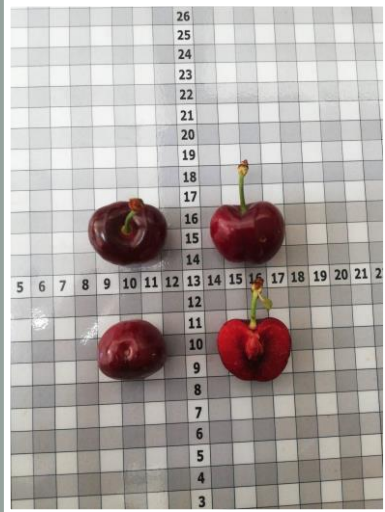


Evaluation of Fruit (Harvest Evaluation)

- Ripening
- Colour and Pattern
- Stone and Flesh Type
- Shapes and Symmetry
- Abrasions and Blemishes
- Eating Quality
- Storage Diseases and Disorders
- Overall Score and Indexing

STORAGE REGIMES

Day	7	14	21	28	35	42	49
Week	W1	W2	W3	W4	W5	W6	W7
CHR-28S4	A						
	0.5 °C		B				
	0.5 °C				C		
	0.5 °C				10°C	D	
CHR-35S4	A						
	0.5 °C			B			
	0.5 °C				C		
	0.5 °C				10°C	D	



ROYAL DAWN

Tree Evaluation

- Lowest fruit set.
- Fruit damage.
- Earliest- 29 November 2018.

Fruit Evaluation

- Mould and shriveling.
- **Texture + taste and aroma were superior.**
- Overall, Royal Dawn was an above average cultivar.



BROOKS

Tree Evaluation

- Low bud break on some shoots.
- First to reach 80% flowering.

Fruit Evaluation

- 10% of the fruit in the sample had skin cracking.
- 25% of the fruit had dry and brittle stems.
- The overall eating quality of this cultivar was good.

LAPINS



Tree Evaluation

- Flower density was high.

Fruit Evaluation

- **Skin cracking.**
- **Surface pitting.**
- Internal yellow/orange discoloration with a bitter aftertaste.
- Scored as **'bland'** in terms of aroma.
- This cultivar was scored the lowest in terms of aroma.
 - Thus taste and aroma- **'poor'** and **'average'**.
- Overall, Lapins scored **intermediate**.



STOCATTO

Tree Evaluation

- Very low branching density.



Fruit Evaluation

- Skin cracking.
- Good aroma, however, internal yellowing had an off, acidic taste.
- High eating quality and overall impression.



SWEETHEART

Tree Evaluation

- Flower density- very high.

Fruit Evaluation

- Adequate skin cracking.
- Surface **pitting**.
- Yellow/orange internal discoloration- acidic and off tastes.
- Overall, Sweetheart scored **intermediate**.



REGINA

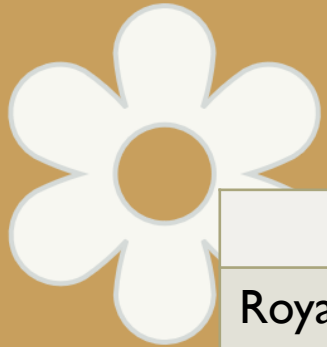
Tree Evaluation

- Ample one year rejuvenation wood.
- Highest growth potential.

Fruit Evaluation

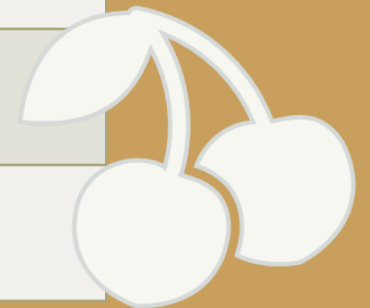
- Surface **pitting**.
- Internal discoloration.
- Bland taste and aroma.
- Low firmness measurements.
- Low acid contents.
- Overall taste and aroma scored very low.
- Interest in this cultivar was scored as '**intermediate**'.

FLOWER AND FRUIT SET



Flower Density	
Royal Dawn	60% High
Stocatto	80% Very High
Sweetheart	81% Very High
Lapins	61% High
Brooks	75% High
Regina	75% High

Fruit Set	
Royal Dawn	19% Very Low
Stocatto	32% Low
Sweetheart	28% Low
Lapins	25% Low
Brooks	20% Low
Regina	24% Low



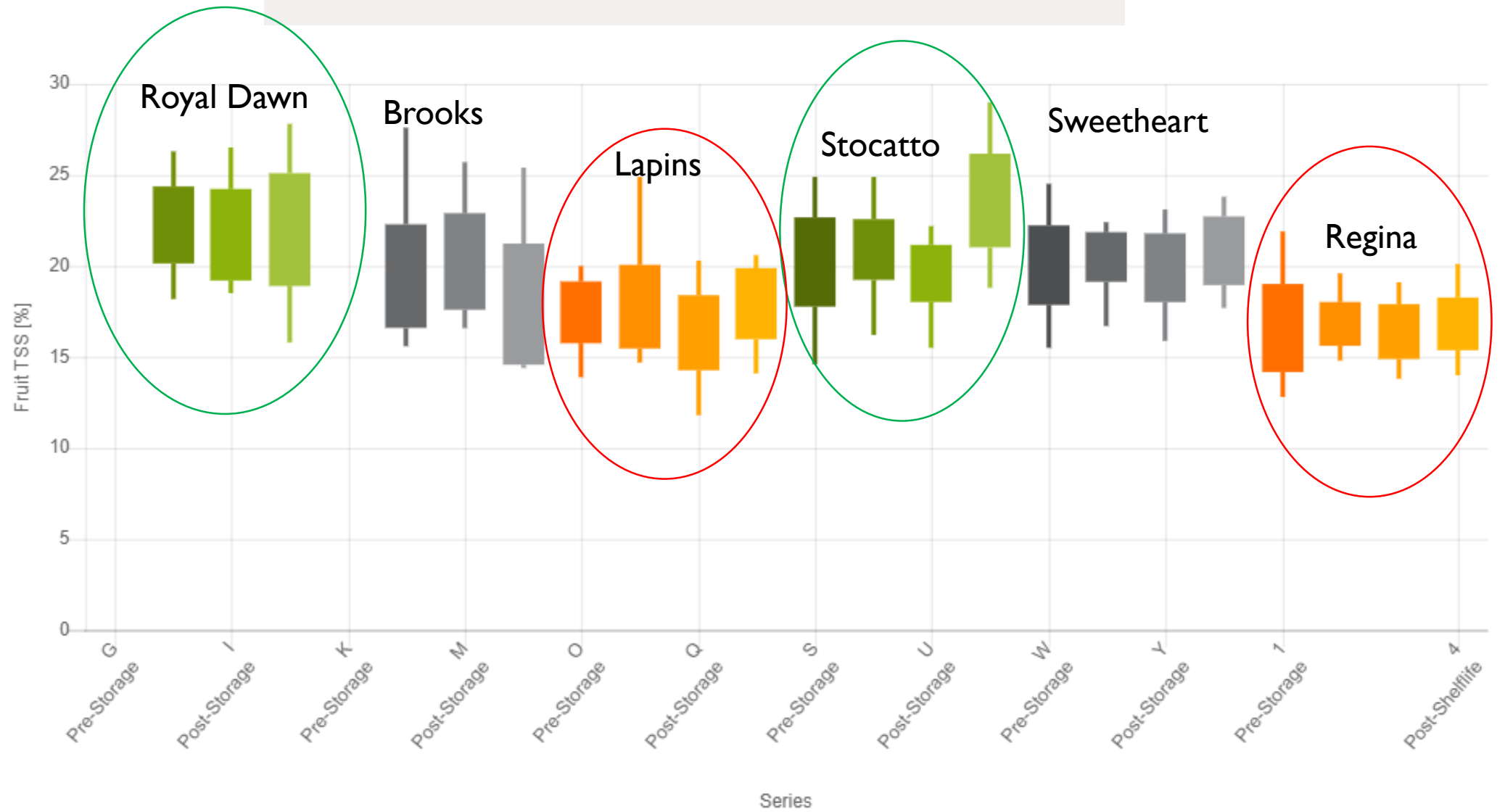
COMPARATIVE SUMMARY



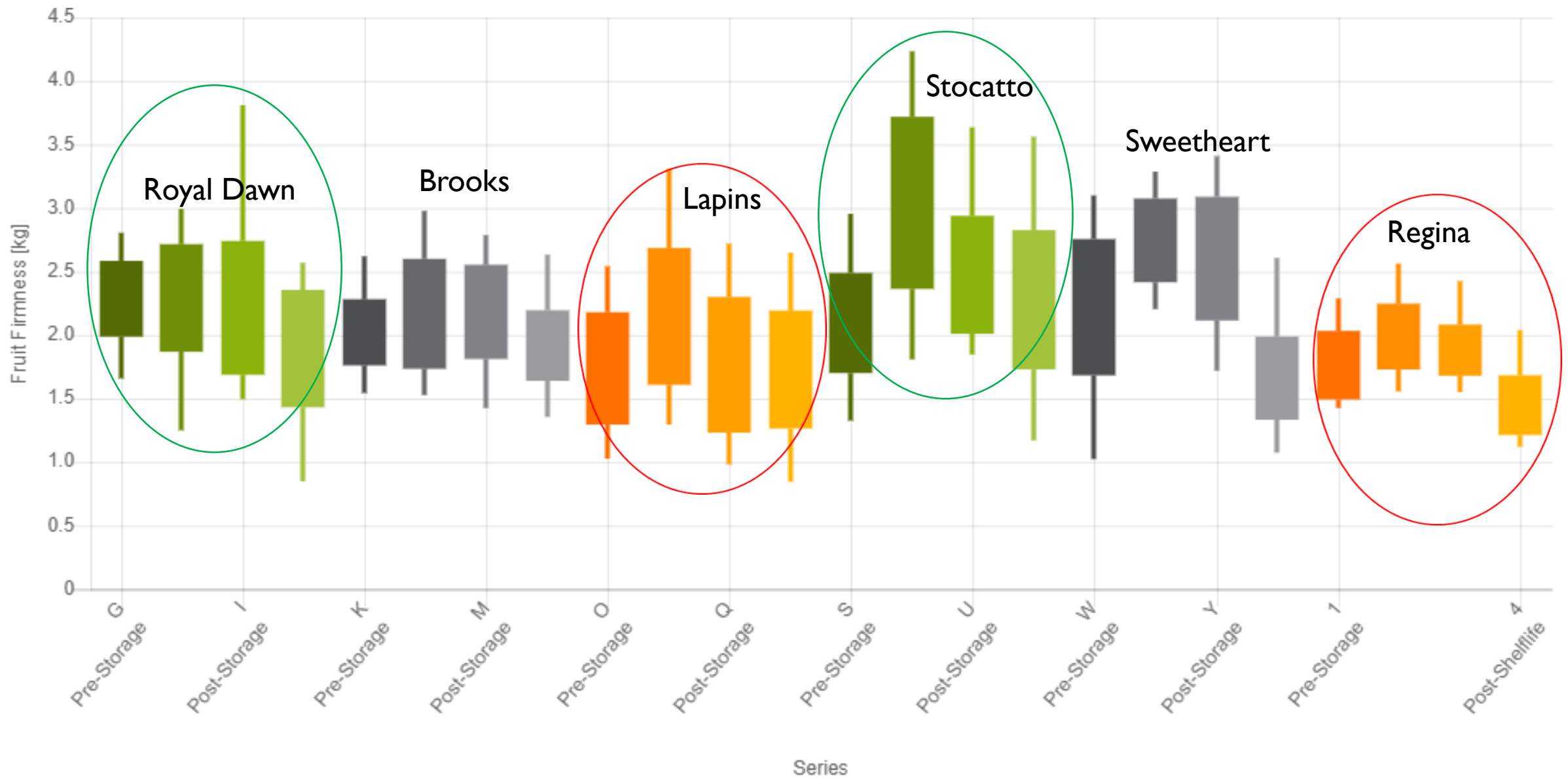
OUTSTANDING FRUIT CHARACTERISTICS

	Royal Dawn	Stocatto	Brooks	Sweetheart	Lapins	Regina
Shriveling	✓	✓	✓	✗	✗	✗
Skin Cracking	✗	✓	✓	✓	✓	✗
Pitting	✗	✗	✗	✓	✓	✓
Internal Discoloration	✗	✓	✗	✓	✓	✓

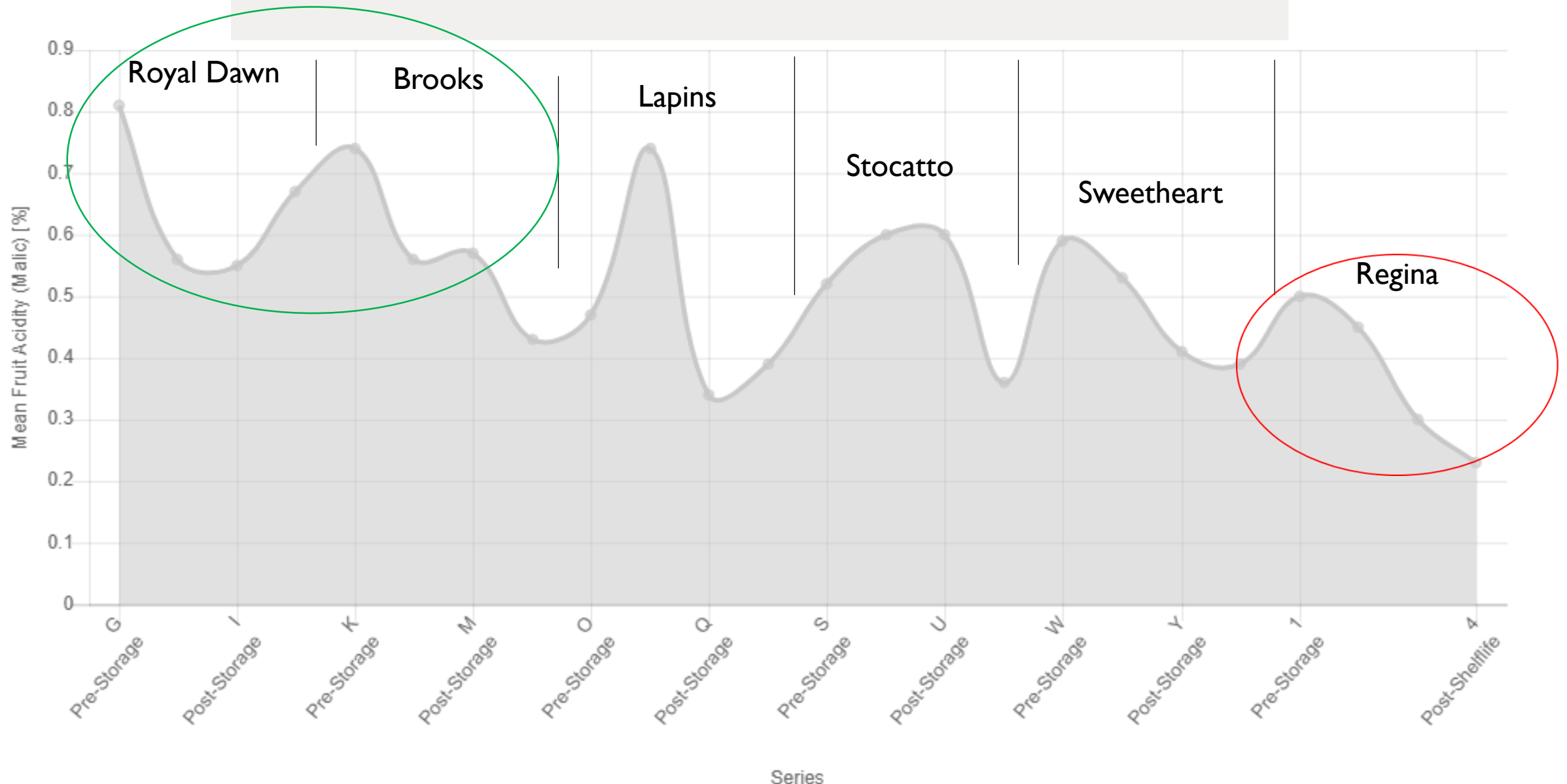
FRUIT TSS









FIRMNESS



ACID



CONCLUSION

-  Royal Dawn 61.3%.
-  Stocatto 62.7%.
-  Brooks 61.4%.
-  Sweetheart 58.6%.
-  Lapins 55.6%.
-  Regina 52.5%.



RECOMMENDATIONS



FIRST SEASON

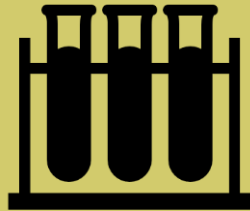


3 YEARS +
3 SITES



YOUNGER TREES

RECOMMENDATIONS



PITTING AND INTERNAL
DISCOLORATION



PROTOCOLS

THANK YOU!

