

Roll test for lenticel damage

Method:

1. Clip fruit as per export standard (stalks cut to 5mm or less).
2. Select five good quality clean fruit of mixed sizes ensuring there is enough room in the bucket to get a good 'roll'.
3. Place fruit in a smooth sided 10L bucket.
4. Roll fruit for 15-20 seconds in a clockwise motion.
5. Assess peel damage after 10, 20 and 30 minutes.
6. Calculate sensitivity index and record results.
7. Note weather conditions found on the orchard prior testing (e.g. wind, temperature, overcast)

Interpretation of results:

Sensitivity index = average severity/time in minutes.

Severity = percentage coverage of lenticel damage of each individual fruit.

Average severity = average of lenticel damage across all fruit.

Fail	Pass
Sensitivity index of greater than or equal to 0.5	Sensitivity index of less than 0.5 (e.g.) After 10 mins if average severity <5% After 20 mins if average severity <10% After 30 mins if average severity <15%

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Example:

	10 mins (%)	20 mins (%)	30 mins (%)
Fruit 1	30		
2	35		
3	25		
4	30		
5	30		
Average = (Total %/5)	150/5 = 30		
Severity index = average severity/time in minutes	30/10 = 3		

Notes: Windy and 12°C

Date	Orchard Name/PPIN	Location	Rain in last 24hrs (mls)	Accumulated rainfall last 48hrs +	Severity Index			Pass/Fail
					10 mins	20 mins	30 mins	
21/09/17	12345	Te Puke	10	25	3			F



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