




New Zealand Avocado Growers' Association Avocado Grade Standards

Maturity: Hass 24% Dry matter (DM) for green fruit, 23% for ethylene ripened fruit when early start programme operating
Fuerte 21% DM,
Zutano 20% DM
Maturity tests based on average of 10 fruit minimum sample with independent verification by third party

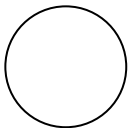
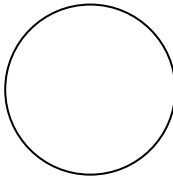
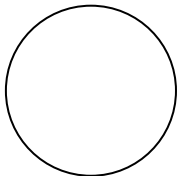
1. Allowances for **Major Defects** (with a tolerance of 7% MGDL)


Defect Type	Allowance Class 1 / TAG 1	Allowance Choice / TAG 2	Allowance Class 3 / TAG 3	Description or Comment
Ridging	Less than 50% of fruit surface may be ridged on any one longitudinal view of fruit. No ridge shall be more than 2mm high.	Less than 75% of fruit surface may be ridged on any one longitudinal view of fruit. No ridge shall be more than 3mm high.	Less than 90% of fruit surface may be ridged on any one longitudinal view of fruit. Ridge may be more than 5mm high	Surface ridging and netted malformation of fruit peel that detracts from fruit appearance and is not consistent with variety. Ridging is easily damaged in the handling process and contributes to rot development after packing.
Protuberance	No protuberance shall be more than 3 mm high.	No protuberance shall be more than 4 mm high.	Protuberances may be more than 5 mm high.	A small, singular, pimple-like structure on the peel of the fruit. It does not include bumps that are the result of nutritional malformation. A protuberance ceases to be a protuberance and becomes a ridge when it exceeds 10mm in any one lateral plane.
Colour				Yellow/red, black colouring due to sun exposure but not maturity. This may be a general colouring or very localized.
- Matt black	Less than 0.5cm ²	Less than 0.5cm ²	Less than 0.5cm ²	Solid black colour sometimes with red with no green background.
- Red	Nil	Nil	< 10%	Where solid yellow with no green background. Where mostly yellow, some green background.
- Yellow	Nil	<10%	< 20%	
- Yellow/Green	Allowable	Allowable	Allowable	
Stems missing	Nil	< 5%	<10%	Stems totally missing. These allow for possible pathogen entry and may indicate windfall fruit.
Cuts & punctures	Nil	Nil	Nil	Any unhealed crack, cut, puncture or insect damage that penetrates into and/or exposes flesh.

Bruising	Less than 0.25cm ² 	Less than 0.25cm ² 	Less than 0.25cm ² 	A bruise is an area of damaged peel resulting from pressure. Bruising is normally dark coloured but may not be if the damage is recent. This excludes flattened and compressed areas. Any bruise of less than 0.25cm ² is not to be considered.
Clipper cuts - penetrating flesh	Nil	Nil	Nil	Unhealed surface cuts around the stem button that penetrates into the flesh. Peel may or may not be damaged.
- not penetrating flesh	Allowable	Allowable	Allowable	Small unhealed surface cuts around the stem button that do not penetrate into the flesh. Peel may or may not be removed.
Soft fruit	Nil Unless pre-ripened	Nil Unless pre-ripened	Nil Unless pre-ripened	Fruit that is soft to the touch (and as a guidance fruit that has a firmometer reading greater than 25 using a 300g weight).
Spray deposits - Copper spray	Surface "bloom" or small trace around stem pedicle or base of fruit	Surface "bloom" or small trace around stem pedicle or base of fruit	Surface "bloom" or small trace around stem pedicle or base of fruit	Fruit may be harvested with spray deposits providing these can be removed during the packing process.
- Other spray deposits	Nil	Nil	Nil	
Surface deposits	A small trace of dust around the stem pedicle is allowable	A small trace of dust around the stem pedicle is allowable	A small trace of dust around the stem pedicle is allowable	Grease, bird droppings or other foreign matter. Fruit may be harvested with surface deposits providing these can be removed during the packing process.
Pollen	A small trace allowable	A small trace allowable	A small trace allowable	Yellow surface deposit usually found at the basal end of the fruit. Fruit may be harvested with pollen deposits providing these can be removed during the packing process.
Anthracnose	Nil	Nil	Nil	Brown to blackish spots with no underlying green colour on fruit surface. Spots have defined edges (not jagged) and are slightly sunken. In cases of severe/advanced infection, pinky-white spores may be present on spots.

New Zealand Avocado Growers' Association
Avocado Grade Standards

2. Allowances for Minor Defects (with a tolerance of 9% MGDL)

Defect Type	<i>Allowance Class 1 / TAG1</i>	<i>Allowance Class 2 / TAG 2</i>	<i>Allowance Class 3 / TAG3</i>	<i>Description or Comment</i>
Blemish	<p>2 cm² block area</p>  <p>4 cm² aggregate area Scattered peel damage not joined together</p>  <p>Total blemish area may not exceed 4 cm²</p>	<p>4 cm² block area</p>  <p>aggregate area <25% of the surface area of the fruit in any one view Scattered peel damage not joined together</p>	<p><50% of the surface area of the fruit in any one view block area and aggregate area Scattered peel damage not joined together</p>	<p>Superficial healed surface scar less than 2 mm deep. Colour may be light brown to black. Scarring may be slight surface scattered netting to solid blocks of scarred peel resulting from fruit rub, wind damage or superficial insect feeding damage.</p> <p>Any blemish deeper than 2mm is out of grade, regardless of size.</p> <p>Fresh lenticel damage is excluded from the blemish allowance and is defined as abrasion damage to individual nodules.</p>

Peel Handling damage	An aggregate area of no more than 2 cm ² is permitted.	An aggregate area of no more than 4 cm ² is permitted.	An aggregate area of no more than 50% of the surface area of the fruit in any one view when combined with blemish	A dark grey diffuse area spreading beyond individual nodules. Any individual affected area of peel handling damage shall not exceed 0.25 cm ² . 
Misshapen	Slight malformation providing it does not detract from the appearance of the fruit.	Predominantly well formed fruit. Moderate malformation allowed including autumn set	Moderately well formed	Malformation of fruit not consistent with variety. Includes extreme neckiness, totally round fruit, autumn fruit set and double embryo formation.
Long stems	Nil	Nil	<10%	Stems longer than 5 mm.
Chimeral Fruit	Nil	<5%	<10%	Genetic abnormality. A straight line of green/yellow/brown colour change restricted to the peel and running down the fruit.
Mixed sizing	No more than 10% of the fruit to be below the count size individual minimum weight.	No more than 10% of the fruit to be below the count size individual minimum weight.	No more than 10% of the fruit to be below the count size individual minimum weight.	Fruit that does not correctly meet the count size requirements of the package that it is contained in.
Scale	Allowed are: - Up to 4 scale on any view of fruit. - Scale around the button	Allowed are: - Up to an aggregate 2cm ² on any view of fruit.	Allowed are: - Up to an aggregate 4 cm ² on any view of fruit.	Colour may vary from oatmeal to dark brown. Juvenile scale less than 1 mm are not counted.
Variety	Nil	Nil	Nil	Must be typical of the variety being packed. Only one variety is to be packed per tray/consignment and is to be correctly identified on the label.