

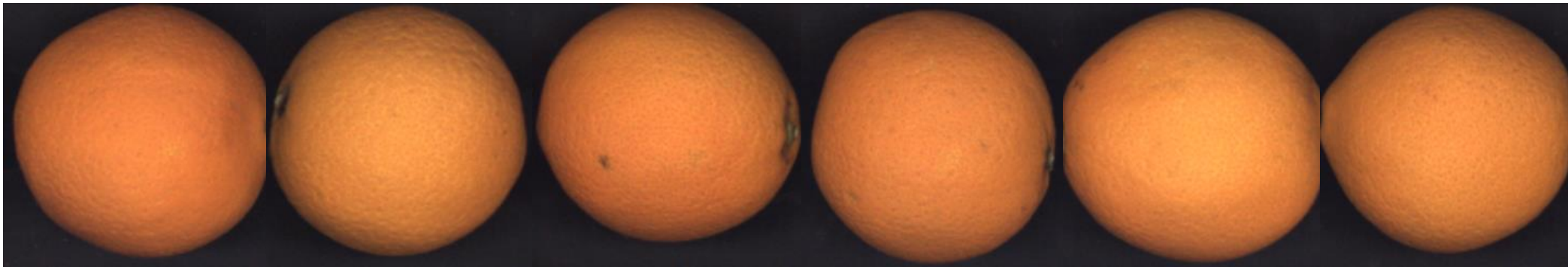


DEFECT CATALOGUE

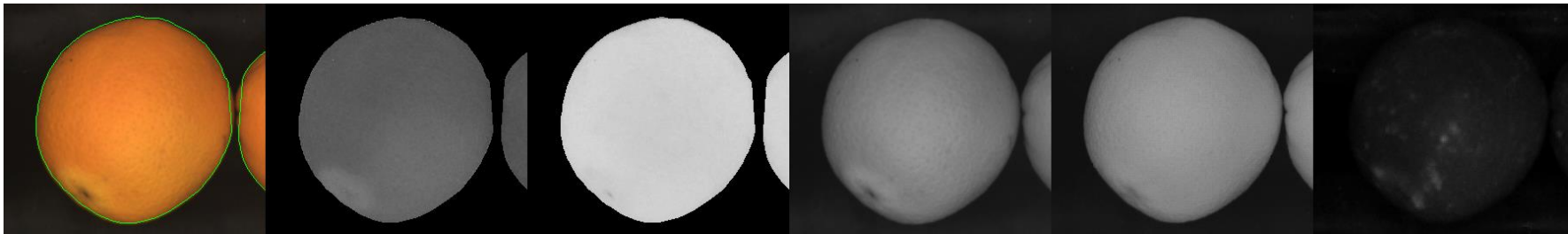
ORANGES AND MANDARINS

Good product

GOOD



CHANNELS RGB/H/S/I/NIR/UV



Rotten (Decay)

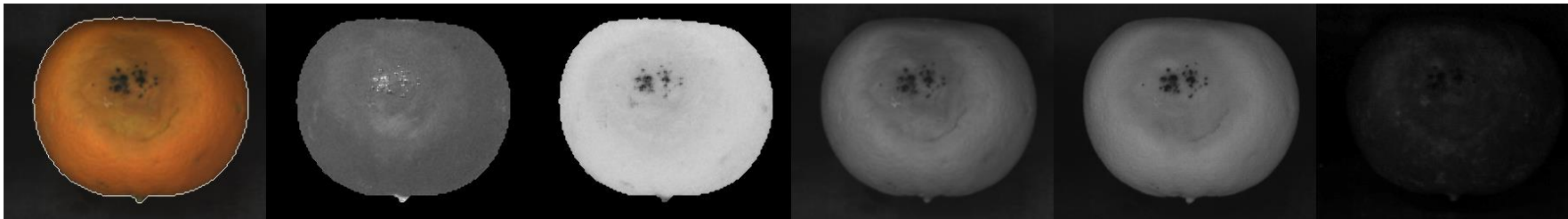
Appearance: Clear transparent waste on fruit rind. Soft to touch.

Cause: Puncture or bruise during harvest or packing which allows fungus to contaminate the fruit and spread

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

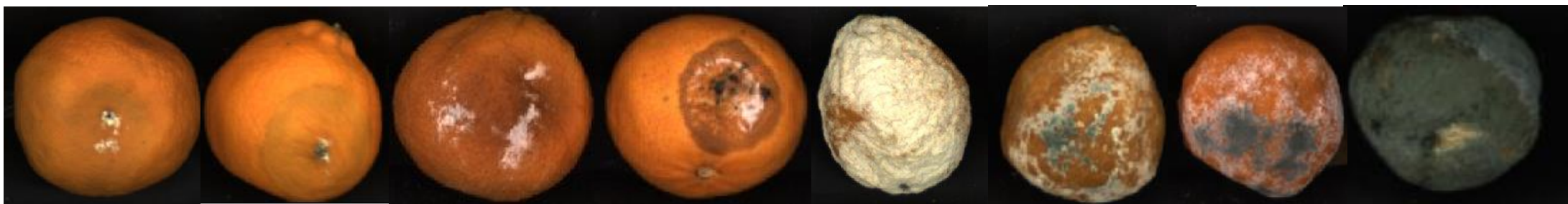


Rotten (White rotten)

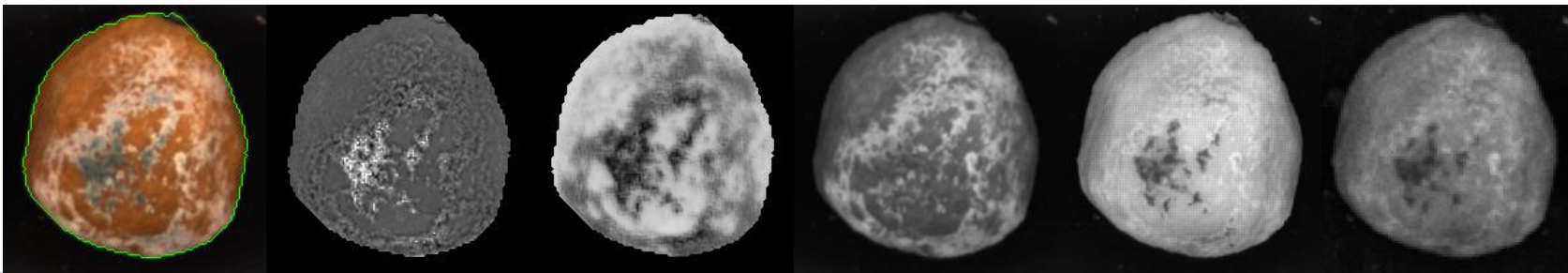
Appearance: Mould growth that initially starts as white and develops into blue or green mould.

Cause: Fungal infection of fruit rind, caused initially by puncture or weakness of the skin. This allows fungi to contaminate the fruit and spread. Acceleration is exaggerated with high humidity and temperatures or long term storage.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

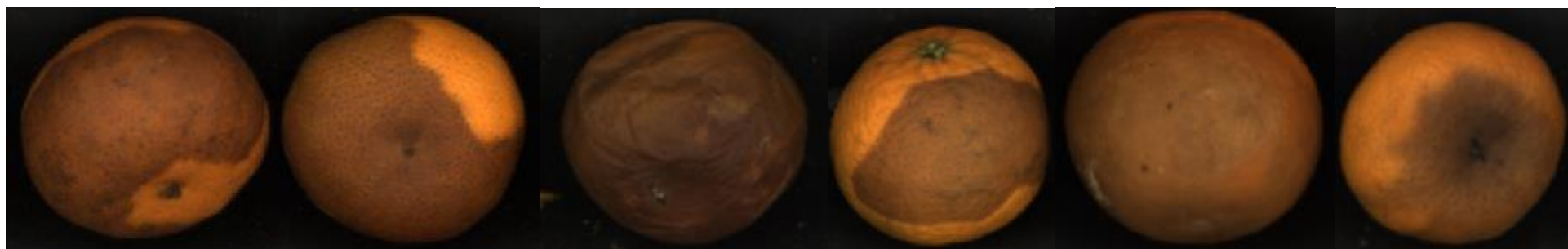


Rotten (Rot)

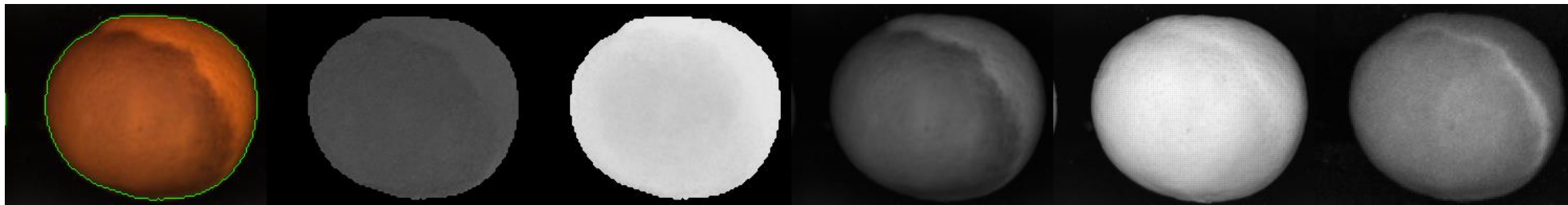
Appearance: Brownish discoloured decaying peel tissue

Cause: Fungal infection at pre harvest stage. Not visible at pack house level when in early stage but develops during storage and shipping period

DEFECT



CHANNELS RGB/H/S/I/NIR/UV



Cracks

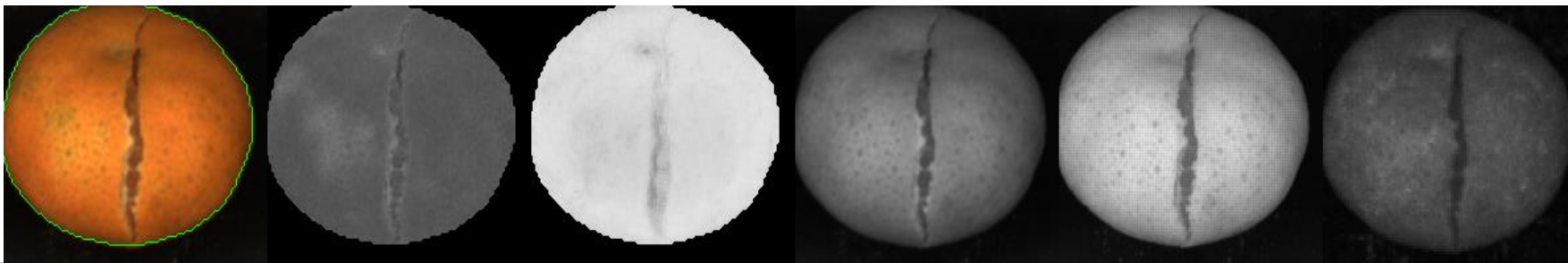
Appearance: Open split on the skin of the fruit

Cause: There are many ways splits can occur. Most common are poor handling during packing process, machine damages and natural growth splits

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

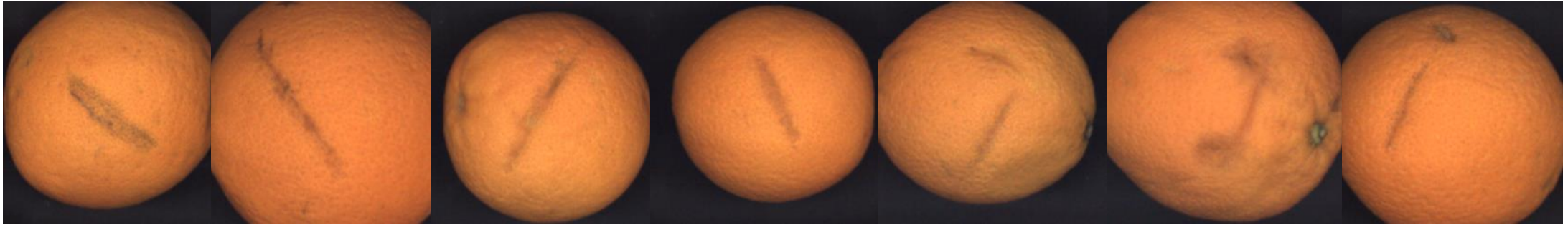


Mechanical damage

Appearance:

Cause:

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

Damage by pliers

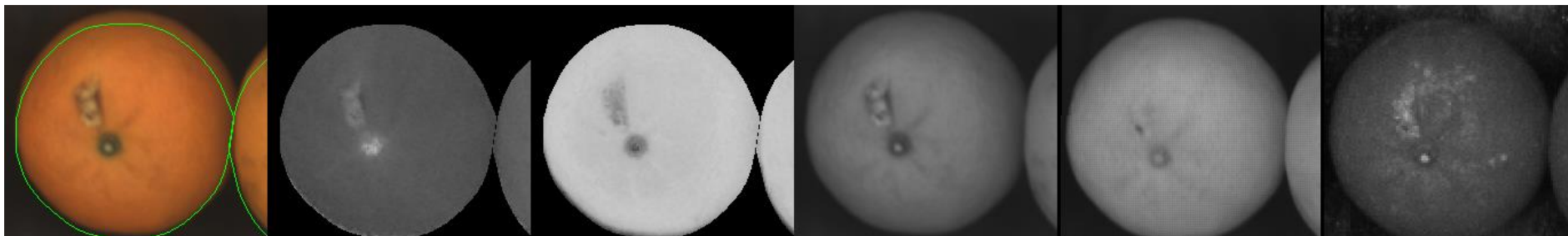
Appearance:

Cause:

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

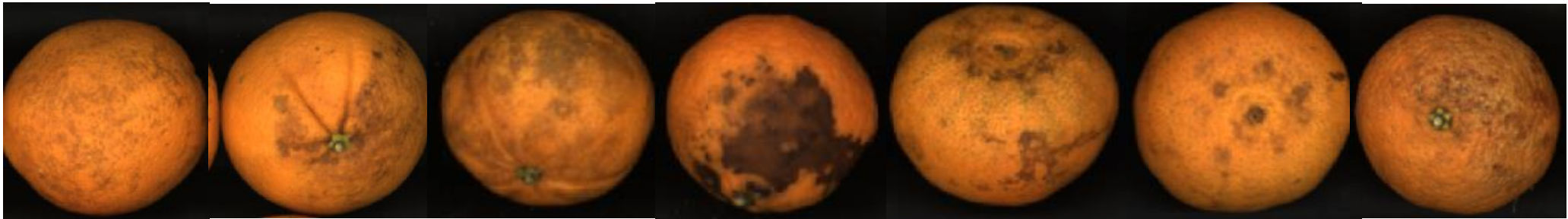


Surface

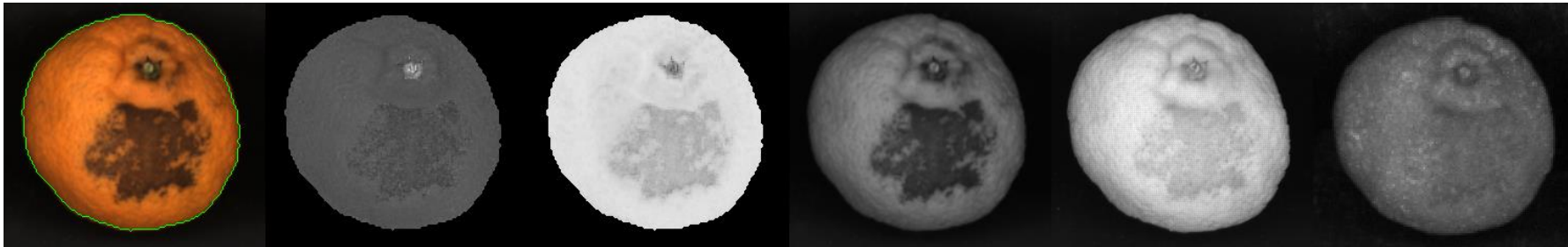
Appearance: Brown, discoloured collapse of the fruit rind. Often appears sunken and is progressive.

Cause: The most common causes of rind breakdown are: Heavy rainfall, cell weakening followed by dehydration of mature fruit and warm weather conditions along with lack of water causing the fruit to be stressed.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

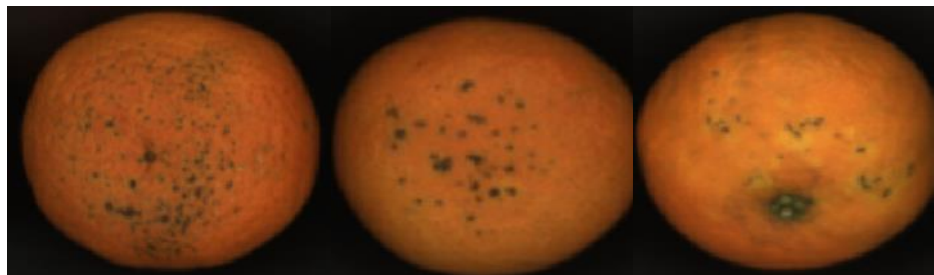


Insect

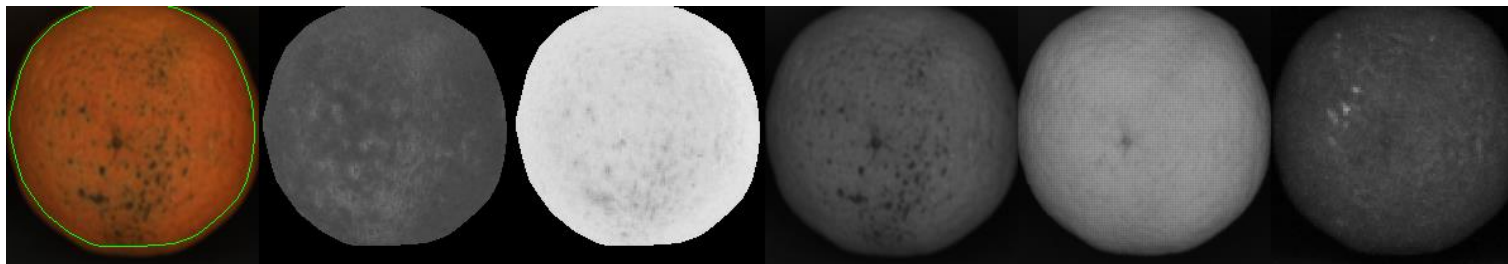
Appearance: Spots on fruit which are either red or black in colour.

Cause: Armour of insect left on skin with insect not present

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

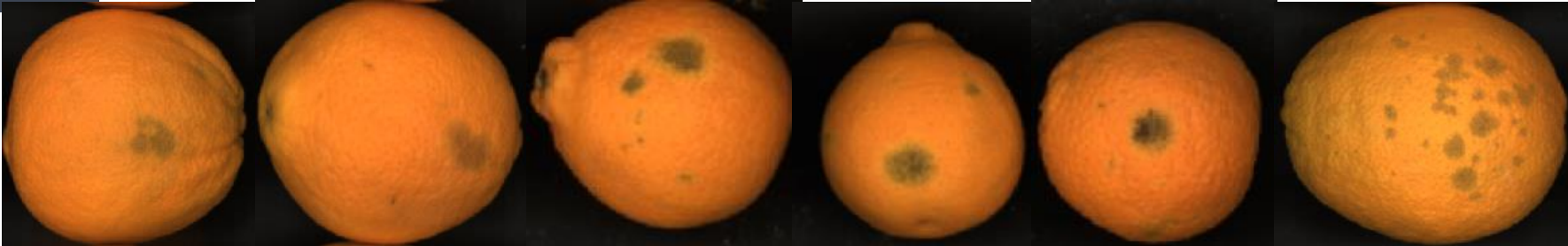


Oil spots

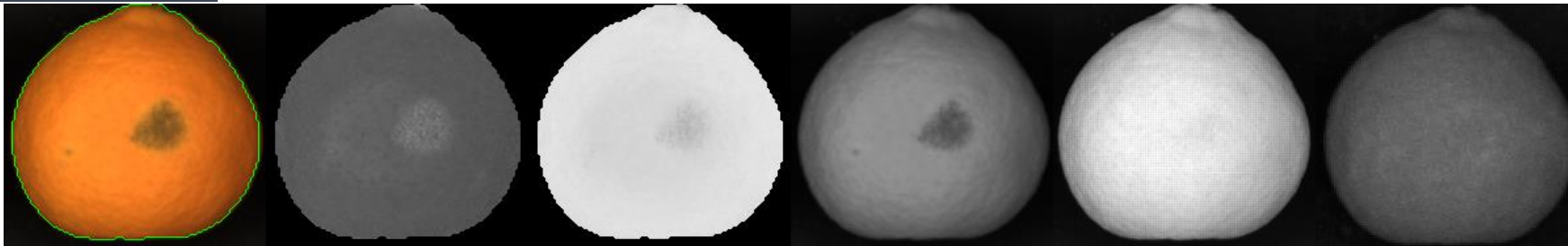
Appearance: Patches on skin which are dark/green in colour but non progressive. Not to be confused with Rind Breakdown.

Cause: Impact which causes Oil cells to rupture. Mild injury's result in yellow/light patches, severe injuries result in darker patches. Oil cells rupture easier when harvested in cold or wet conditions, also when handling is rough during transportation and packing stage.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

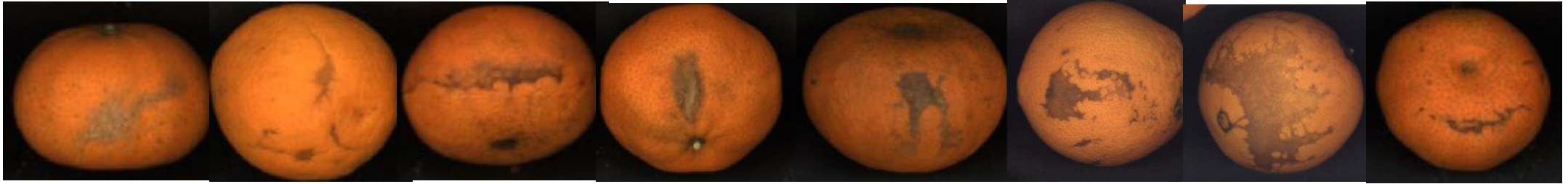


Scars

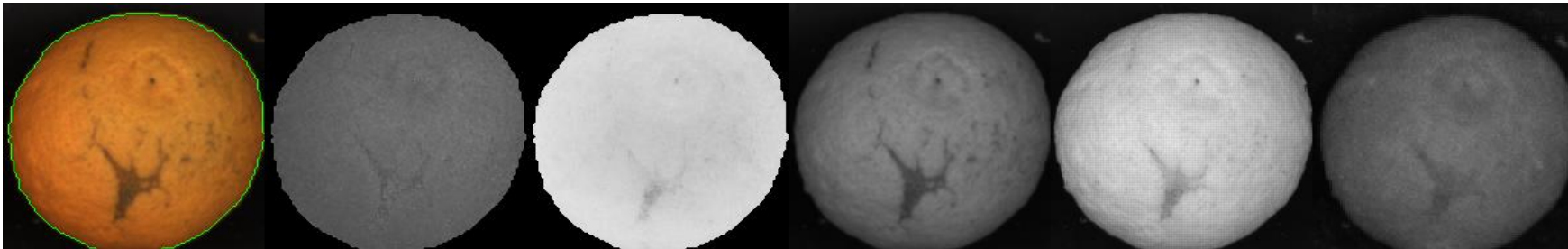
Appearance: Superficial scarring marks on fruit skin. Scarring can vary in colour from silver to dark

Cause: Fruit peel rubbing against branches/ leaves whilst on tree leaving a scarred mark. More of a problem in windy coastal regions.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

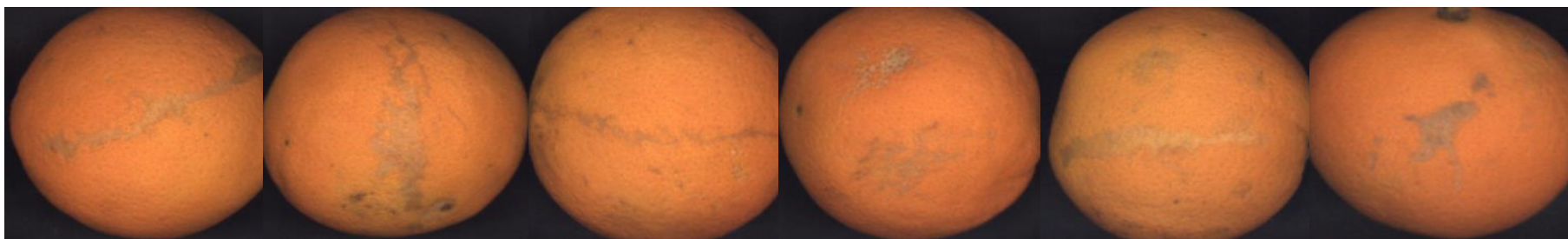


Light Scars

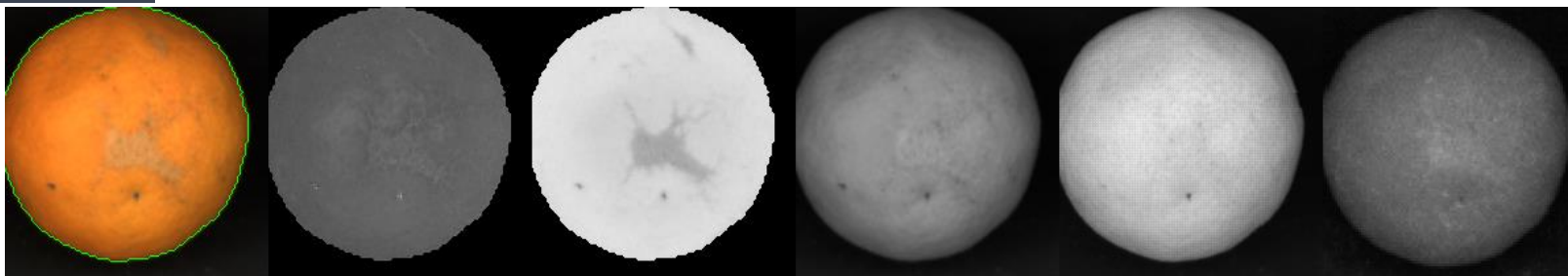
Appearance: Superficial scarring marks on fruit skin. Scarring can vary in colour from silver to dark

Cause: Fruit peel rubbing against branches/ leaves whilst on tree leaving a scarred mark. More of a problem in windy coastal regions.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

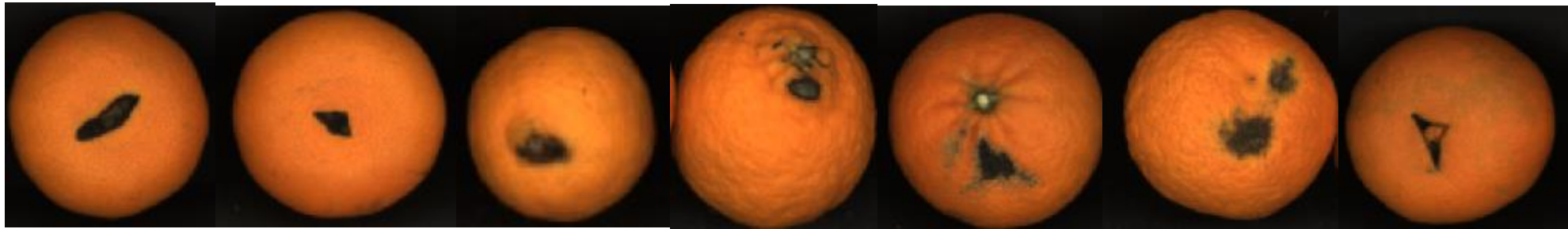


Skin breakdown

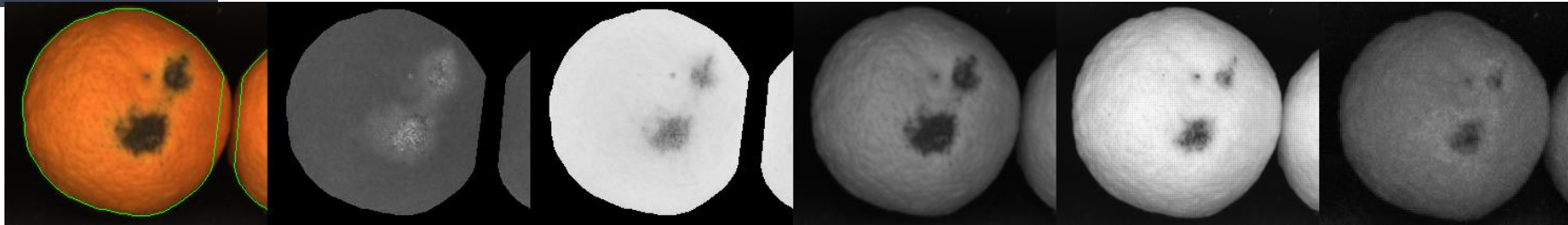
Appearance:

Cause:

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

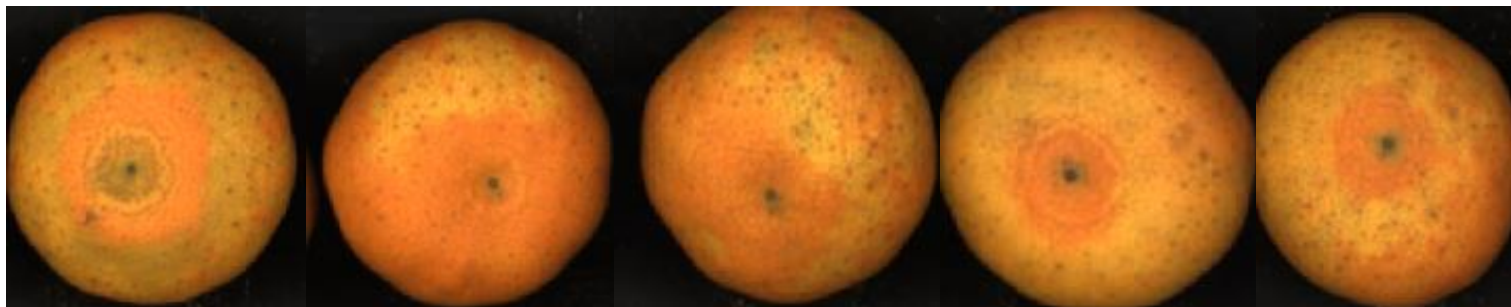


Bleaching

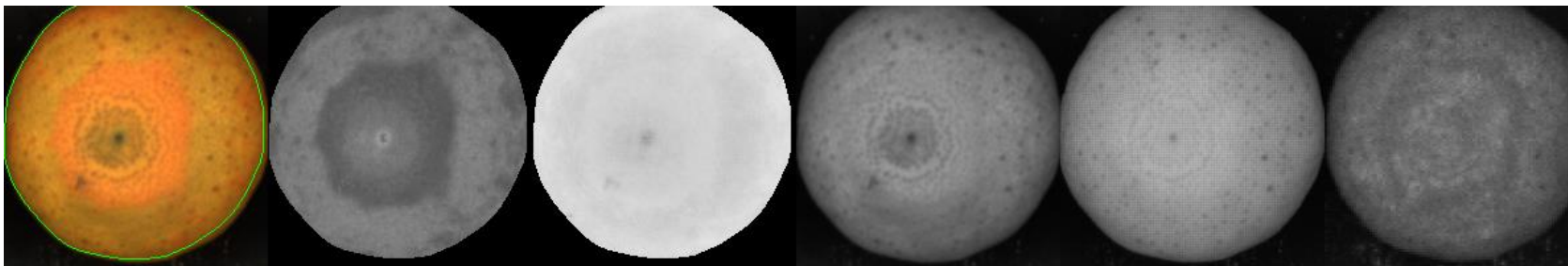
Appearance:

Cause:

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

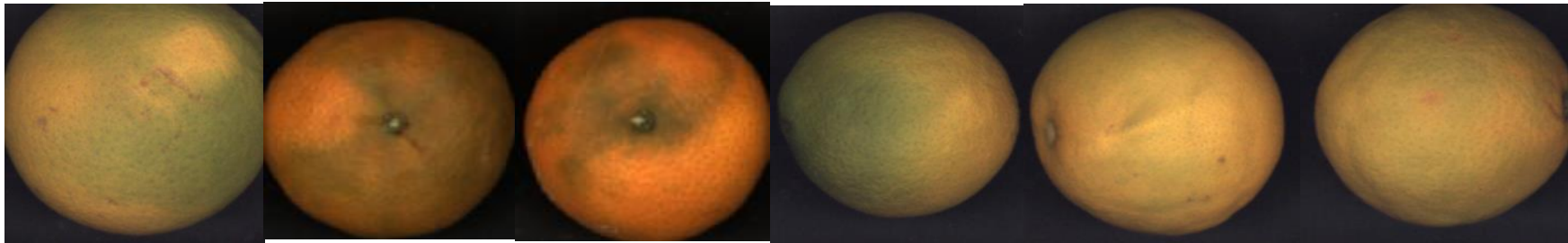


Green

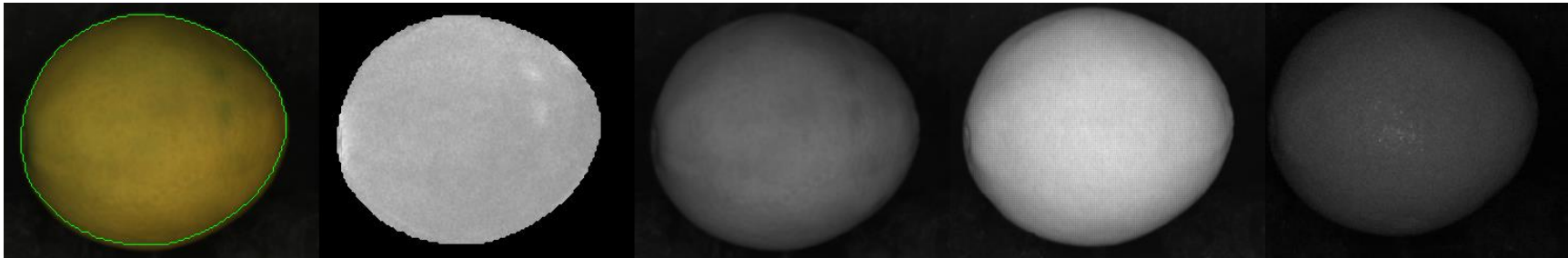
Appearance: Green colour on skin which can vary between defused and blocked.

Cause: Citrus fruit is naturally green in colour particularly at the early part of the season. Initiated by hot and cold temperatures. It is not an indication of fruit's maturity and has no effect on eating quality.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

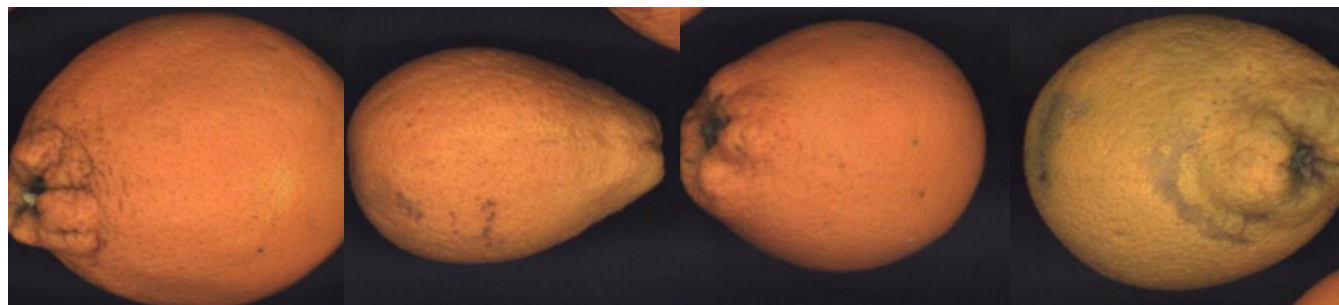


Deformed peduncle

Appearance:

Cause:

DEFECT



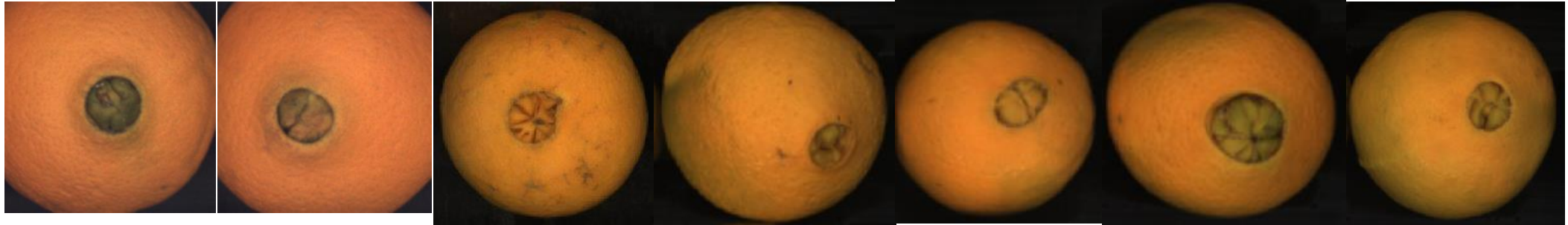
CHANNELS RGB/H/S/I/NIR/UV

Deformed counterpeduncle

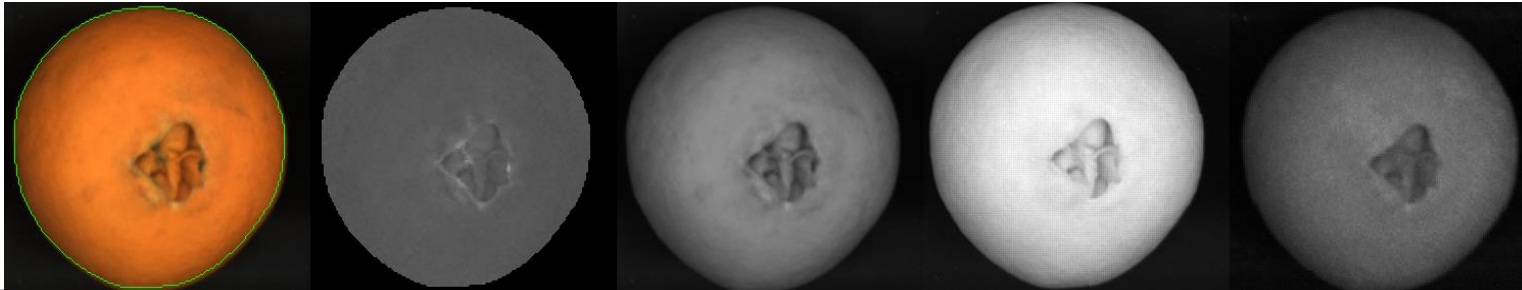
Appearance: Large navel on blossom end of fruit.

Cause: Growth defect. Navel ends are natural on navel varieties however large or protruding navels are deemed to affect appearance of fruit.

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

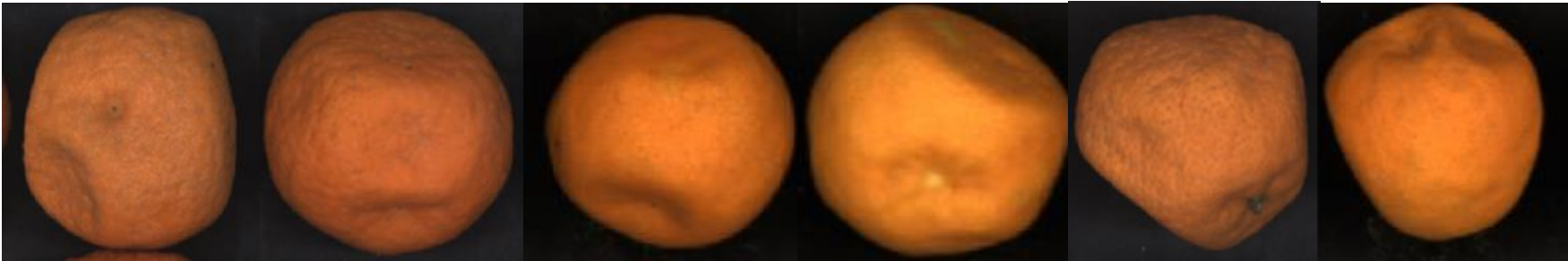


Hollow

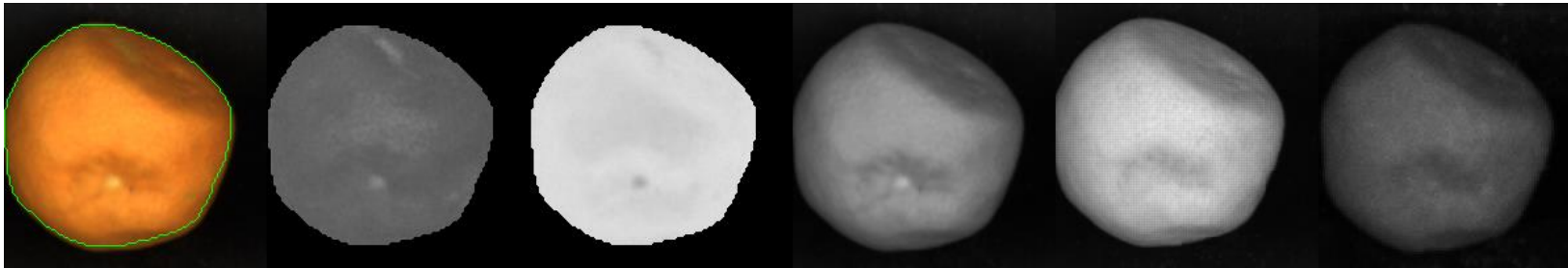
Appearance: Flat sided fruit

Cause: Caused by compression during transit. Compression damage is more common on soft citrus

DEFECT



CHANNELS RGB/H/S/I/NIR/UV

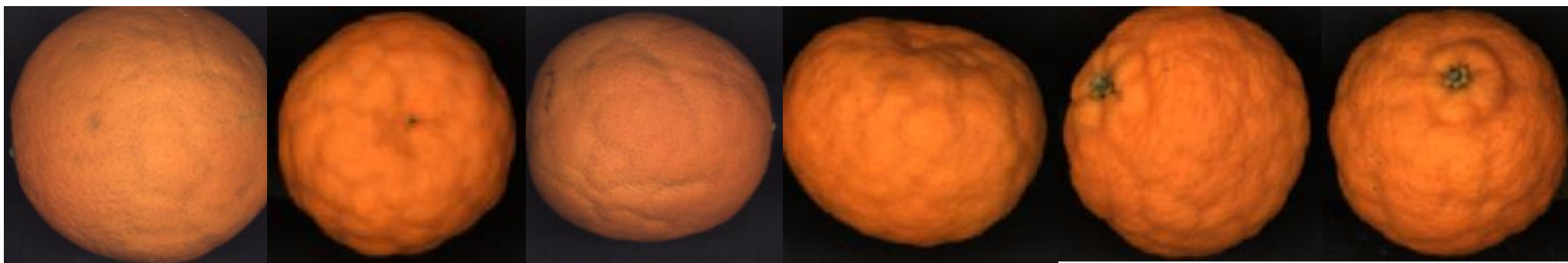


Skin creasing

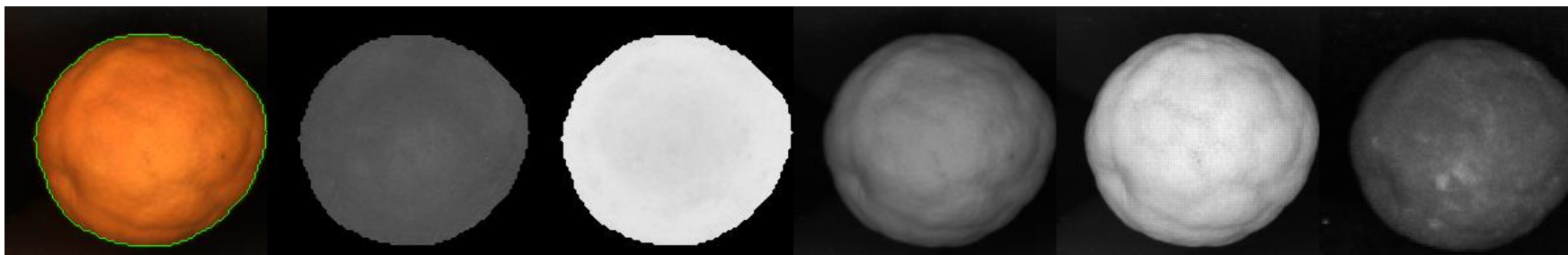
Appearance:

Cause:

DEFECT



CHANNELS RGB/H/S/I/NIR/UV



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