



Potatoes
NEW ZEALAND

Fiji Export Potato Grade Standards

Version 2, September 2018

Potatoes New Zealand Inc

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Export Potato to Fiji Grade Standard

Version 2, September 2018

Inspection Process	Accept/Action based on number of tubers inspected				
	% Acceptable	600-700 tubers		700 * tubers	
		Accept	Action	Accept	Action
1. Randomly select and inspect at least one bag per hour during packing. If this does not make up a minimum of 600 tubers inspect more frequently or randomly select additional bags at the end of the line.	1%	6	7	7	8
2. Record the number of tubers found during the inspection with defects in the appropriate category and total them.	5%	30	31	35	36
3. Based on the Accept/Action table determine whether the line meets the grade standard. If not, decide what action to take e.g. repack, reject.	8%	48	49	56	57

Defect	Explanation/Description	Allowance	Tolerance
General (0%)			
Fit for purpose	Must be sound and fit for human consumption. There must be no evidence of rodent damage.	Nil	0%
Moisture	Free of excessive moisture including on/in packaging (excluding condensation following removal from cool-storage or refrigerated transport).	Nil	Potatoes must not be packed if wet.
Clean	Free from foreign substances, contaminants, tastes or odours (excluding visual indicators of treatment with sprout inhibitors).	Nil	0%
Skin	<p>Potatoes must be covered with well-formed skin, i.e. the skin has to be fully developed and mature and cover the whole surface of the tuber. Skin must be sufficiently set to minimise damage during and withstand harvest, grading and packing.</p> <p>New potatoes as per definition below are considered 'high risk' to export to Fiji therefore not covered by this Export Grade Standard.</p> <p><i>New potato:</i> a young potato characterised by soft skin, so delicate it can be easily flicked off with your fingers.</p>	Nil	0%
Labelling	<p>The following details are to be included on every label</p> <ul style="list-style-type: none"> • Potatoes • Product of NZ • Grower Code • Packer Code • Exporter name • Minimum weight of bag • Size (if large) <p>A label will be attached to every bag.</p>	Nil	<p>If information is missing from the labels, new labels must be printed and attached.</p> <p>If bags are found with missing labels – labels must be attached.</p>

Quarantine			
Soil (25 grams/600 tuber sample)	Practically free of visible soil. (This weight does not include the weight of the residue of sprout inhibitors).		Less than 25 grams of soil per 600 tuber inspection sample (including that found in packaging).
Sprouting	Bud growth	Nil bud growth	Appropriate sprout inhibitor must have been applied according to application instructions.
Insects	Live insects or evidence of live insects e.g fresh chewing, frass.	Nil	0%
Progressive Defects (0%)			
Rots – wet rots that will continue to develop and spread.	e.g. leak, pink rot, sclerotinia, sclerotium, bacterial tuber soft rot, black leg, gangrene (Phoma), blight	Nil	0%

Severe (Wet) Bruising	Bruising resulting in wet/softened flesh.	Nil	0%
Frost damage or freezing damage	With reddish brown blotches or soft, water soaked areas in the flesh (freezing injury).	Nil	0%
Physical damage and broken tubers	Fresh damage that may rot.	Nil	0%

Internal Defects (1%)

Internal defects	Rust stains, bruising (>5mm deep), black spot, hollow or black heart, fleck, glassiness, corky ring spot, internal heat necrosis, internal discolouration or staining and frost or freezing damage.	Nil	*1% *Based on experience determine whether the line would be considered 'at risk' e.g. larger grade or oversize. If considered a 'risk' line cut a minimum of 6 tubers. If any internal defects are found cut more tubers, cut a minimum of 30 tubers in total. Apply 1% tolerance (i.e accept 3 action at 4).
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Non-progressive Defects – 5%

Firm and fresh	Tubers must have retained their turgescence with the skin tight and the flesh resistant to slight thumb pressure.	Nil	5% may be soft but not shrivelled Nil – shrivelled
Greening	Greening as a result of exposure to light. Toxic compounds may form.	A dark green patch larger than a \$2 coin or an overall green tinge is not acceptable.	5%
Cuts/splits/ cracks/damage/ insect damage/ dried bruising	These defects must be dry and not likely to turn into rots.	Longer than 20mm or larger than 10c coin is not acceptable . Only one allowed per tuber.	5%

Non-progressive Defects – 8%

Size grade	Table - Minimum of 50mm up to 80mm Large > 80mm	Nil	8% below minimum size for grade
Disease (black spot, scab, skin spot) and skins stains and blemishes.		Up to 10% of surface area is OK	8%
Deformities/ irregular shape	Knobbiness and other irregular shapes making peeling difficult.	Nil	8%

Definitions:

Allowance – number or amount per tuber that is not acceptable/acceptable

Tolerance – how many allowed that do not meet the standard when sample taken after grading

Fresh Potato to Fiji Inspection Sheet

Grower Code/PCN#:	Harvest Date:
Variety:	Packhouse:
Pack Date:	Size/s:
No. bins/bags/pallets:	Container #

Time Sample Taken								
	# of tubers	# of tubers	# of tubers	# of tubers	# of tubers	# of tubers	# of tubers	Total # of tubers

General To get total – add across first and then down

Fit for purpose								
Moisture								
Clean								
Skin								
Labelling								
Total – Action at 1								

Quarantine

Soil (grams)								
Total – Action at 25 grams								

Quarantine (0%)

Sprouting								
Insects								
Total – Action at 1								

Progressive Defects (0%)

Rots								
Severe Bruising								
Frost/Freezing Damage								
Physical damage/Broken								
Total – Action at 1								

Internal Defects (1%)

Internal Defects								
Total – Refer Action Table								

Non-Progressive Defects (5%)

Firm and fresh								
Greening								
Cuts/Splits/Cracks/Damage								
Total – Refer Action Table								

Non-Progressive Defects (8%)

Size								
Deformities/Shape								
Disease e.g. black spot, scale, skin spot, and skin stains & blemishes								
Total – Refer Action Table								

Action Table – based on number of tubers inspected

% acceptable	600-700 tubers		700 * tubers	
	Accept	Action	Accept	Action
1%	6	7	7	8
5%	30	31	35	36
8%	48	49	56	57

Sprout Inhibitor Treatment Details:	Comments, record and actions taken:
Inspector Name:	Inspector Signature: