#### **Produce Specification: Kumara**

## foodstuffs

CATEGORY	Kumara	PRODUCT	Red, Orange, Purple Gold
			Premium
ΡΑϹΚ ΤΥΡΕ	Loose and Pre-packed	GRADE	No. 1 Grade
			Tag 1.5

COLOUR     PURPLE     Dark purple skin, creamy white to yellow fiesh.       RED     Red to purple skin colour with creamy white to yellow fiesh.       ORANGE     Orange skin colour with light orange flesh.       GOLD     Golden bronze skin colour with light orange flesh.       SHAPE     PREMIUM AND SELECT       N. 1 GRADE     Intact, oval or elongated tuber.       HUMBLE HEROS TAG     Intact, oval or elongated tuber.       MATURITY     Full bodied, no evidence of fibrous or woody texture.       CLEANLINESS     Free from excessive dirt, insect stains & foreign matter.       MATURITY     Full bodied, no evidence of fibrous or woody texture.       CLEANLINESS     Free from excessive dirt, insect stains & foreign matter.       PRODUCT COUNT     No undercounts.       NO undercounts     MAIOR DEFECTS       DISEASES     Fungal or bacterial rots of skin or flesh.       Discolouration or deformation due to viral infection.     Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.       PHYSIOLOGICAL DEFECTS     Foroutin cracks or severely disfigured tubers.       TEMPERATURE DAMAGE     Shrivelling or wrinkling of skin.       Thermal discolouration or softening (flesh (chilling injury).     Sprouting, stem end degradation, or	GENERAL APPEARANCE					
KED     to yellow fiesh.       ORANGE     Orange skin colour with light orange fiesh.       GOLD     Golden bronze skin colour with yellow/creamy flesh.       SHAPE     PREMIUM AND SELECT NO. 1 GRADE     Intact, oval or elongated tuber.       HUMBLE HEROS TAG     Intact, oval or elongated tuber.       1.5     misshapen kumara is acceptable.       SENSORY     Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.       MATURITY     Full bodied, no evidence of fibrous or woody texture.       CLEANLINESS     Free from excessive dirt, insect stains & foreign matter.       UNSALEABLE DEFECTS     VINSALEABLE DEFECTS       FOREIGN MATTER     Evidence of live insects.       NI foreign matter (e.g. glass, metal, hard plastics).     PRODUCT COUNT       No undercounts.     MAJOR DEFECTS       DISEASES     Fungal or bacterial rots of skin or flesh.       Discolouration or deformation due to viral infection.     Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.       PHYSIOLOGICAL DEFECTS     Fibrous or woody core separating skin from flesh.       Growth cracks or severely disfigured tubers.     Fibrous or woody core separating skin from flesh.       TEMPERATURE DAMAGE     Shrivelling or wrinkling of sk	COLOUR	PURPLE				
GOLD     Golden bronze skin colour with yellow/creamy flesh.       SHAPE     PREMIUM AND SELECT NO. 1 GRADE     Intact, oval or elongated tuber.       NO. 1 GRADE     Intact, oval or elongated tuber.     Intact, oval or elongated tuber. The odd misshapen kumara is acceptable.       SENSORY     Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.     Intact, oval or elongated tuber.       MATURITY     Full bodied, no evidence of fibrous or woody texture.     UNSALEABLE DEFECTS       CLEANLINESS     Free from excessive dirt, insect stains & foreign matter.       WISALEABLE DEFECTS     UNSALEABLE DEFECTS       FOREIGN MATTER     Evidence of live insects.       Nil foreign matter (e.g. glass, metal, hard plastics).     No undercounts.       PRODUCT COUNT     No undercounts.       DISEASES     Fungal or bacterial rots of skin or flesh.       Discolouration or deformation due to viral infection.     Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.       PHYSIOLOGICAL DEFECTS     Deep bruising.     Fibrous or woody core separating skin from flesh.       Growth cracks or severely disfigured tubers.     Growth cracks or severely disfigured tubers.       TEMPERATURE DAMAGE     Shrivelling or wrinkling of skin.       Internal discolouration or		RED				
GOLD     yellow/creamy flesh.       SHAPE     PREMIUM AND SELECT NO. 1 GRADE     Intact, oval or elongated tuber.       HUMBLE HEROS TAG 1.5     Intact, oval or elongated tuber. The odd misshapen kumara is acceptable.       SENSORY     Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.       MATURITY     Full bodied, no evidence of fibrous or woody texture.       CLEANLINESS     Free from excessive dirt, insect stains & foreign matter.       UNSALEABLE DEFECTS     Evidence of live insects.       FOREIGN MATTER     Evidence of live insects.       No undercounts.     No undercounts.       MAJOR DEFECTS     Discolouration or deformation due to viral infection.       DISEASES     Fungal or bacterial rots of skin or flesh.       Discolouration or deformation due to viral infection.     Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.       PHYSIOLOGICAL DEFECTS     Fibrous or woody core separating skin from flesh.       Growth cracks or severely disfigured tubers.     Strivelling or wrinkling of skin.       TEMPERATURE DAMAGE     Shrivelling or wrinkling of skin.       Internal discolouration or softening of flesh (chilling injury).     Sprouting, stem end degradation, or softening (heat damage).       SURFACE INPURITIES     Light b		ORANGE	Orange skin colour with light orange flesh.			
SHAPE NO. 1 GRADE Intact, oval or elongated tuber.   HUMBLE HEROS TAG 1.5 Intact, oval or elongated tuber. The odd misshapen kumara is acceptable.   SENSORY Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.   MATURITY Full bodied, no evidence of fibrous or woody texture.   CLEANLINESS Free from excessive dirt, insect stains & foreign matter.   UNSALEABLE DEFECTS Evidence of live insects.   FOREIGN MATTER Evidence of live insects.   PRODUCT COUNT No undercounts.   MAJOR DEFECTS Evidance of eformation due to viral infection.   Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.   PHYSICAL INPURITIES Fibrous or woody core separating skin from flesh.   Growth cracks or severely disfigured tubers. Shrivelling or wrinkling of skin.   TEMPERATURE DAMAGE Shrivelling or wrinkling of skin.   Internal discolouration or softening of flesh (chilling injury). Sprouting, stem end degradation, or softening (heat damage).   WINOR DEFECTS PHYSICAL INPURITIES Light bruising >2 cm <sup>2</sup> .   PHYSICAL INPURITIES Light bruising >2 cm <sup>2</sup> .   SURFACE INCONSISTENCIES Premium and Select No 1 Grade Harvest damage or scuff affecting >2 cm <sup>2</sup> .		GOLD				
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SENSORY   Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.     MATURITY   Full bodied, no evidence of fibrous or woody texture.     CLEANLINESS   Free from excessive dirt, insect stains & foreign matter.     UNSALEABLE DEFECTS   Evidence of live insects.     FOREIGN MATTER   Evidence of live insects.     PRODUCT COUNT   No undercounts.     MAJOR DEFECTS     DISEASES   Fungal or bacterial rots of skin or flesh.     Discolouration or deformation due to viral infection.   Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.     PHYSICAL INPURITIES   Fibrous or woody core separating skin from flesh.     Growth cracks or severely disfigured tubers.   Strivelling or wrinkling of skin.     TEMPERATURE DAMAGE   Shrivelling or wrinkling of flesh (chilling injury).     Sprouting, stem end degradation, or softening (heat damage).   MINOR DEFECTS     PHYSICAL INPURITIES   Light bruising >2 cm <sup>2</sup> .     SURFACE INCONSISTENCIES   Premium and Select No 1 Grade   Harvest damage or scuff affecting <2 cm <sup>2</sup> .     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.		HUMBLE HEROS TAG	Intact, oval or elongated tuber. The odd			
MATURITY   Full bodied, no evidence of fibrous or woody texture.     CLEANLINESS   Free from excessive dirt, insect stains & foreign matter.     UNSALEABLE DEFECTS     FOREIGN MATTER   Evidence of live insects.     Nil foreign matter (e.g. glass, metal, hard plastics).     PRODUCT COUNT   No undercounts.     MAJOR DEFECTS     DISEASES   Fungal or bacterial rots of skin or flesh.     Discolouration or deformation due to viral infection.   Unhealed cut, scuffs, breaks, splits and wounds >1mm from pest or mechanical damage.     PHYSIOLOGICAL DEFECTS   Fibrous or woody core separating skin from flesh.     Growth cracks or severely disfigured tubers.   Shrivelling or wrinkling of skin.     TEMPERATURE DAMAGE   Shrivelling or wrinkling of skin.     PHYSICAL INPURITIES   Light bruising >2 cm².     PHYSICAL INPURITIES   Light bruising >2 cm².     Sprouting, stem end degradation, or softening (heat damage).   MINOR DEFECTS     PHYSICAL INPURITIES   Light bruising >2 cm².     SURFACE INCONSISTENCIES   Premium and Select No 1 Grade   Harvest damage or scuff affecting >2 cm².     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.		1.5	misshapen kumara is acceptable.			
CLEANLINESS   Free from excessive dirt, insect stains & foreign matter.     UNSALEABLE DEFECTS     FOREIGN MATTER   Evidence of live insects. Nil foreign matter (e.g. glass, metal, hard plastics).     PRODUCT COUNT   No undercounts.     MAJOR DEFECTS     DISEASES   Fungal or bacterial rots of skin or flesh. Discolouration or deformation due to viral infection.     PHYSICAL INPURITIES   Fungal or woody core separating skin from flesh. Growth cracks or severely disfigured tubers.     TEMPERATURE DAMAGE   Shrivelling or wrinkling of skin. Internal discolouration or softening of flesh (chilling injury). Sprouting, stem end degradation, or softening (heat damage).     MINOR DEFECTS   MINOR DEFECTS     PHYSICAL INPURITIES   Light bruising >2 cm <sup>2</sup> . Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	SENSORY	Firm, crisp, & dry flesh. Free of secondary rootlets, off odours and tastes.				
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PHYSICAL INPURITIES   mechanical damage.     Deep bruising.     PHYSIOLOGICAL DEFECTS   Fibrous or woody core separating skin from flesh.     Growth cracks or severely disfigured tubers.     TEMPERATURE DAMAGE   Shrivelling or wrinkling of skin.     Internal discolouration or softening of flesh (chilling injury).     Sprouting, stem end degradation, or softening (heat damage).     MINOR DEFECTS     PHYSICAL INPURITIES     Light bruising >2 cm².     Premium and Select No     1 Grade     Harvest damage or scuff affecting >2 cm².     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	DISEASES					
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Growth cracks or severely disfigured tubers.     TEMPERATURE DAMAGE   Shrivelling or wrinkling of skin.     Internal discolouration or softening of flesh (chilling injury).     Sprouting, stem end degradation, or softening (heat damage).     MINOR DEFECTS     PHYSICAL INPURITIES     Light bruising >2 cm <sup>2</sup> .     Premium and Select No     1 Grade     Harvest damage or scuff affecting >2 cm <sup>2</sup> .     Humble Heros Tag 1.5		Fibrous or woody core separating skin from flesh.				
Internal discolouration or softening of flesh (chilling injury).     Sprouting, stem end degradation, or softening (heat damage).     MINOR DEFECTS     PHYSICAL INPURITIES     Light bruising >2 cm².     Premium and Select No     1 Grade     Humble Heros Tag 1.5     Harvest damage or scuff affecting <75% of skin surface.		Growth cracks or severely disfigured tubers.				
Sprouting, stem end degradation, or softening (heat damage).     MINOR DEFECTS     PHYSICAL INPURITIES   Light bruising >2 cm².     SURFACE INCONSISTENCIES   Premium and Select No 1 Grade   Harvest damage or scuff affecting >2 cm².     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	TEMPERATURE DAMAGE	Shrivelling or wrinkling of	skin.			
MINOR DEFECTS     PHYSICAL INPURITIES   Light bruising >2 cm².     SURFACE INCONSISTENCIES   Premium and Select No 1 Grade   Harvest damage or scuff affecting >2 cm².     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.		Internal discolouration or softening of flesh (chilling injury).				
PHYSICAL INPURITIES   Light bruising >2 cm².     Premium and Select No   Harvest damage or scuff affecting >2 cm².     SURFACE INCONSISTENCIES   Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.		Sprouting, stem end degradation, or softening (heat damage).				
SURFACE INCONSISTENCIES   Premium and Select No   Harvest damage or scuff affecting >2 cm <sup>2</sup> .     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	MINOR DEFECTS					
SURFACE INCONSISTENCIES   1 Grade   Harvest damage or scuff affecting >2 cm <sup>2</sup> .     Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	PHYSICAL INPURITIES					
Humble Heros Tag 1.5   Harvest damage or scuff affecting <75% of skin surface.	SURFACE INCONSISTENCIES		Harvest damage or scuff affecting >2 cm <sup>2</sup> .			
<b>PHYSIOLOGICAL DEFECTS</b> Evidence of sprouting in <10% of line, with sprouts <3 cm long.	SURFACE INCONSISTEINCIES	Humble Heros Tag 1.5				
	PHYSIOLOGICAL DEFECTS	Evidence of sprouting in <10% of line, with sprouts <3 cm long.				

### **Produce Specification: Kumara**

# foodstuffs

SIZE					
	SMALL	300 – 500g			
PREMIUM LOOSE	MEDIUM	500 – 700g			
	LARGE	700 – 900g			
	SMALL	Diameter: 50 – 60 mm			
		Length: 130 – 180 mm			
NO 1 GRADE LOOSE	MEDIUM	Diameter: 60 – 75 mm			
		Length: 180 – 250 mm			
	WEIGHT	50 – 350g			
HUMBLE HEROS TAG 1.5	DIAMETER	30 – 90 mm			
	LENGTH	60 – 200 mm			
RECEIVAL					
TEMPERATURE °C (AT ARRIVAL)	12 – 20				
	Unsaleable defects 0%				
	Major defects <5%				
TOLERANCE	Minor defects <10%				
TOLLKANCL	Combined total limit <10%				
	<5% outside of size range				
	Packaging manufactured from new food grade materials or sanitised				
	returnable crates.				
	Packaging to adhere to Food Stuffs North Island Produce Packaging				
	Guidelines.				
	All labelling must meet the current legislative requirements.				
PACKAGING & LABELLING	Crate cards must include the product description, SKU number (in large				
	font), supplier name, grower/packer's name, product grade,				
	count/weight, and delivery date.				
	Pre-packaged produce must display the grower's name, the packed on				
	date, best before date or used by date (batch code optional).				
	Produce must have a shelf life of <b>at least 14 days</b> upon arrival at the				
SHELF LIFE	Distribution Centre, or direct to the store from the supplier.				
	Produce must have a packed on date of <b>no more than 10 days</b> upon arrival at the Distribution Centre, or direct to the store from the supplier.				
	Stacked to Ti Hi specifications onto a stabilised pallet as per-ordered.				
	Refrigerated van with air bag suspension, unless otherwise approved.				
TRANCROPT CONDITIONS	Goods must be received in accordance with <b>Foodstuffs North Island</b>				
TRANSPORT CONDITIONS	<b>Receiving and Carrier Guidelines</b> (refer to reference materials for more				
	information).				
	Of note are pallet size, stacking standards and crate cards.				
	Relevant growers and/or producers, hold, will maintain, and will comply				
	with all necessary certificates, licenses, permits, and other approvals required by Laws or the Policies and Compliance Requirements for the				
CHEMICAL CONTAMINATE					
RESIDUE	manufacture, packing, supply, and storage of the groceries. This includes				
	NZGAP (including the Social Practice Standards add-on) and/or				
	GLOBALG.A.P (including GRASP) certification.				
ORGANICS	BioGro certificate, or equivalent, is required to supply organic products into both Foodstuffs stores and Distribution Centres. The current				
ORGANICS	certificate should be available on the Foodstuffs Exchange.				
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### **Produce Specification: Kumara**

## foodstuffs

	PHOTOS OF DEFECTS				
Moulds on the rootlet.	Soft rots and mould.	Cuts, holes and insect damage.			
Dry rub marks, dry cuts and dry rots.	Dry appearance.	Holes, rotting and dry appearance.			
1013.					