

Introduction

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report

The data sources and methods

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Sheet Name

Introduction

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IMPORTANT

prepared for New Zealand Food Waste Champions 12.3, for the express use of filling in gaps in
and data capture sheets for the 2025 Kai Commitment reporting period.

Methods listed in this document are at the time of development believed to be appropriate for the
purpose stated above.

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Sheet Purpose

This sheet, intended to provide context of the document, and outline the purpose of each
sheet in this file.

Outline the data sources used in this document

Main table of how missing data gaps will be filled for the 2025 Kai Commitment. If a data
gap has multiple methodologies, they are ranked in ascending order of how the gap will
be attempted to be filled.

Contains additional tables used for filling data gaps (Food Value and Unit Weight table,
and Disposal Cost Assumption table).

Data Sources

Reference Name	Year
Rawtec Industry Estimate	N.D
NZFWC Industry Estimate	N.D
NZ Inflation Rates	2025
Packaging Guidance	2019

Full Reference		Link
Rawtec Industry Estimate		
New Zealand Food Waste Champions 12.3 Industry Estimate		
NZ Stats, Annual inflation at 2.5 percent in March 2025		https://www.stats.govt.nz/
FLW protocol: Excluding weight of packaging guidance		https://flwprotocol.org/wp-

Comment

Provided to Rawtec by New Zealand Food Waste Cha

List of Assumptions

Item	Cell Address
What is your turnover of food operations this reporting year?	C13
Location of sites	C20:C38
How many sites did you report data for?	C39
How many sites can reported data be extrapolated for?	C40
Start and End Dates of reporting	C43:C44
Tonnes of Food Sold as Intended	C45
Is packaging weight excluded from the values below?	C47
Do you have Greenhouse Gas emissions that you would like to self-report?	C57
Any incomplete data (Scope 1, or 2, or breakdown of scope 3)	3. GHG Self-reporting'!C23:C24, '3. GHG Self-reporting'!C52:C66
Edibility of Repurposed food for human consumption	E66:E69
Edibility of Repurposed food for other than human consumption	E70:E74
How much revenue was generated through commercial redistribution of food that would have otherwise been wasted?	C78:C79
How much revenue was generated through upcycled food products?	C80

Composition of Repurposed Food	C89:C113
Cause of Repurposed Food	C117:C129
Edibility of Bio-based destinations	E134:E138
Edibility of Food Waste destinations	E144:E153
How much was the material value of the food waste?	C158
How much did it cost to dispose of the food waste?	C159
Composition of Food Waste	C164:C188
Cause of Food Waste	C192:C204
Supply Chain stage of Food Waste	C208:C214
Self-Assessment Questions	D219:D268

Preference of method	Method
1	Assume previous year's reported turnover, accounting for NZ 24/25 inflation rate
1	Assume no change on previous year's location and number of sites
1	Assume no change on previous year's number of sites data represents
1	Assume that the data cannot be extrapolated and will assume the number of sites that data is reported for (C39)
1	Assume previous year's reporting period plus 12 months
1	Assume food sold as intended from 'Food Value & Unit Weight' table, multiplied by alternate value reported (C46)
2	Use previous year's data on Annual Turnover and Tonnes of Food Sold as Intended to determine % growth from previous year's data to 24/25 data (accounting for NZ 24/25 inflation rate)
1	If yes, leave as is. If no, unless otherwise advised, remove 10% of weight from all tonnes below
2	Assume yes
1	Assume 'No - we will not self-report and are happy for Kai Commitment to roughly calculate our food waste emissions'
1	Assume 'No - we will not self-report and are happy for Kai Commitment to roughly calculate our food waste emissions'
1	Assume all redistribution to humans is 100% edible
1	Assume previous edibility reported for these destinations
2	Assume weighted average edibility of all food waste and biobased destinations
3	Assume all is 100% edible
1	Use proportion reported in C79 and apply to a market \$/t (Turnover/Food Sold as Intended), multiplied by the number of tonnes redistributed through commercial opportunities (C69)
2	Use \$/t reported in previous years, multiplied by the number of tonnes redistributed through commercial opportunities (C69)
3	Assume C79 is 40% of market value
1	Use \$/t reported in previous years, multiplied by the number of tonnes redistributed through upcycling (C73)
2	Assume 50% of Food Sold as Intended value (\$/t), multiplied by the number of tonnes redistributed through upcycling (C73)

- 1 Assume proportions used in previous year's submissions
- 2 Assume proportions of food types for food waste
- 1 Assume proportions used in previous year's submissions
- 2 Assume proportions of food types for food waste
- 1 Assume previous edibility reported for these destinations
- 2 Assume all is 0% edible
- 1 Assume previous edibility reported for these destinations
- 2 Assume weighted average edibility of all repurposed (not to humans) and bio based destinations
- 3 Assume all is 100% edible
- 1 Assume material value of food waste (\$/t) from previous submission, multiplied by total food waste (C154)
- 2 Assume material value from 'Food Value & Unit Weight' table, multiplied by total food waste (C154)
- 1 Use 'Disposal Cost Assumption' table and tonnes sent to food waste destinations (C144:C153) to calculate
- 1 Assume proportions used in previous year's submissions
- 2 Assume proportions of food types for repurposed food
- 1 Assume proportions used in previous year's submissions
- 2 Assume proportions of food types for repurposed food
- 1 Assume proportions used in previous year's submissions

- 2 Assume 100% for the reported sector

- 1 Assume same answer as previous reporting year
- 2 Assume 'No'



Value Assumed	Unit	Source
	2.50% %Annual inflation	NZ Inflation Rates
N/A	N/A	
	2.50% %Annual inflation	NZ Inflation Rates
	90% %wt of all reported tonnes is depackaged food	Packaging Guidance
Yes	N/A	Rawtec Industry Estimate
No - we will not self-report and are happy for Kai		
Commitment to roughly calculate our food waste emissions	N/A	Rawtec Industry Estimate
No - we will not self-report and are happy for Kai		
Commitment to roughly calculate our food waste emissions	N/A	Rawtec Industry Estimate
	100% %wt edible food	Rawtec Industry Estimate
N/A	N/A	
N/A	N/A	
	100% %wt edible food	Rawtec Industry Estimate
N/A	N/A	
N/A	N/A	
	40% % of market value	Rawtec Industry Estimate
N/A	N/A	
	50% % of market value	Rawtec Industry Estimate

N/A	N/A	
	0% %wt edible food	Rawtec Industry Estimate
N/A	N/A	
N/A	N/A	
	100% %wt edible food	Rawtec Industry Estimate
N/A	N/A	
	100% %wt of food waste arising in reported sector	Rawtec Industry Estimate
N/A	N/A	
No	N/A	Rawtec Industry Estimate



Comment

See 'Food Value & Unit Weight' table

See 'Food Value & Unit Weight' table

See 'Disposal Cost Assumption' table

Food Value & Unit Weight**Data Source:** Rawtec Industry Estimate

Sector	Food Type		Food Sold As I \$/t
Retail	All	\$	8,000.00
Wholesale/Distribution	All	\$	5,000.00
Manufacturing	Bread	\$	4,000.00
Manufacturing	Dairy products	\$	3,000.00
Manufacturing	Ingredients	\$	16,000.00
Primary Producer	Meat Products	\$	10,000.00
Primary Producer	Fruit & Vegetables	\$	1,500.00

Disposal Cost Assumption**Data Source:** Rawtec Industry Estimate

Food Waste Desintation	Collection Cost (\$/t)	Disposal Gate Cost (\$/t)
Anaerobic digestion / co-digestion	\$ 50.00	\$ 120.00
Composting / aerobic processes	\$ 50.00	\$ 120.00
Incineration / controlled combustion	\$ 50.00	\$ 600.00
Land application	\$ 50.00	\$ 100.00
Landfill	\$ 50.00	\$ 300.00
Sewer / wastewater treatment	\$ 50.00	\$ 90.00
Not harvested / ploughed in	\$ -	\$ -
Other food waste destinations	\$ 50.00	\$ 300.00
Refuse/discards/litter (including dumping,	\$ 50.00	\$ 300.00
Not known	\$ 50.00	\$ 300.00

Intended value kg/unit	Material value \$/t
0.6	\$ 6,500.00
0.6	\$ 4,000.00
0.6	\$ 3,000.00
0.7	\$ 1,000.00
0.3	\$ 4,000.00
0.5	\$ 3,000.00
0.1	\$ 300.00

NZFWC Industry Estimate

Total Disposal Cost (\$/t)
\$ 170.00
\$ 170.00
\$ 650.00
\$ 150.00
\$ 350.00
\$ 140.00
\$ -
\$ 350.00
\$ 350.00
\$ 350.00