

## 7 Food Security

'Food security' is an internationally recognised term that encompasses the ready availability of nutritionally adequate and safe foods, and the assured ability to acquire personally acceptable foods in a socially acceptable way (Radimer 2002).

Participants responded to eight statements on behalf of themselves (if they lived alone) or their households. Each of these statements about food provides information on a particular facet of food security and relates to the issue of affordability; that is, the response was to be made in light of whether or not the participant felt they had enough money.

As well as presenting results for eight facets of household food security, data for three categories of food security are presented: *fully/almost food secure*, *moderately food secure* and *low food security*.

### 7.1 The eight facets of food security

#### Survey questions

I/we can afford to eat properly.

Food runs out in my/our household due to lack of money.

I/we eat less because of lack of money.

The variety of foods I am (we are) able to eat is limited by a lack of money.

I/we rely on others to provide food and/or money for food, for my/our household, when I/we don't have enough money.

I/we make use of special food grants or food banks when I/we do not have enough money for food.

I feel stressed because of not having enough money for food.

I feel stressed because I can't provide the food I want for social occasions.

For the first statement, respondents were able to choose from the options: always, sometimes, never, don't know.

For the remaining statements, respondents were able to choose from the options: often, sometimes, never, don't know.

#### I/we can afford to eat properly

Eighty percent of the New Zealand population aged 15 years and over reported they could *always* afford to eat properly (males 82.3%, females 78.3%) while 16.4% could only do this *sometimes* (Table 7.1). Being able to *always* afford to eat properly increased with increasing age, as reported by both males and females. Over 92% of males and females aged 71+ years said their household could *always* afford to eat properly, a higher proportion than men aged 15–50 years and all younger women.

Being able to *always* afford to eat properly was reported least often by males and females living in NZDep2006 quintile 5, less than for those living in NZDep2006 quintiles 1–3.

### **Food runs out in my/our household due to lack of money**

Food running out in the household due to lack of money was reported to occur *often* in 2.5% of New Zealand households and *sometimes* in 11.5% of households (Table 7.1). Females aged 71+ years were less likely than females aged 15–50 years to report that their household *often* or *sometimes* ran out of food due to lack of money.

Running out of food in the household due to lack of money was reported most frequently by those living in NZDep2006 quintile 5, compared to those living in less deprived neighbourhoods. Males living in NZDep2006 quintile 5 households were more likely to report that their household *sometimes* ran out of food due to lack of money than those in other quintiles. Females living in NZDep2006 quintiles 4 and 5 were more likely than all others to report that *sometimes* their household ran out of food due to lack of money.

### **I/we eat less because of lack of money**

Eating less because of lack of money was reported to occur *often* in 2.9% of households and *sometimes* in 12.5% of households (Table 7.1). Both older males and older females (71+ years) were less likely than males aged 15–50 years or females aged 15–70 years to report that their household *sometimes* ate less because of lack of money.

The proportion reporting *sometimes* eating less because of lack of money increased five-fold across quintiles of deprivation, and both males and females in the most deprived area (NZDep2006 quintile 5) reported that their household experienced this *sometimes* more often than males in all other areas and females living in NZDep2006 quintiles 1–3.

### **The variety of food I am (we are) able to eat is limited by lack of money**

Having a variety of food was *sometimes* an issue for 22.8% of New Zealand households and was *often* an issue for 7.6% (Table 7.1). Males aged 51+ years and females aged 71+ years reported less frequently that this *sometimes* occurred than those aged 15–50 years.

Limiting the variety of food due to lack of money was reported *often* most frequently by males and females living in NZDep2006 quintile 5 (16.3% and 16.5%, respectively) compared to those living in NZDep2006 quintiles 1–3.

### **I/we rely on others to provide food and/or money for food for my/our household when I/we don't have enough money**

This was reported to occur *often* in only 1.1% of New Zealand households, but *sometimes* in 7.7% of households (Table 7.1). Males and females aged 15–18 years reported more frequently that this was *often* an issue for their household compared to all other males and females aged 31+ years. However, females aged 19–30 years reported that this was *sometimes* an issue (17.2%), a more frequent occurrence than that reported by females aged 51+ years.

### **I/we make use of special food grants or food banks when I/we do not have enough money for food**

Although less than 1% of the New Zealand population reported that this was *often* an issue for their household, 5.4% (males 5.0%; females 5.7%) said that it was *sometimes* an issue (Table 7.1). Males and females aged 19–30 years reported more frequently experiencing the need for their household to *sometimes* use food grants/banks when money ran out than those aged 51+ years.

Households in NZDep2006 quintile 5 were reported by both males and females to be more likely to use food grants/banks *sometimes* than households in NZDep2006 quintiles 1–3.

### **I feel stressed because of not having enough money for food**

The experience of feeling stressed because of not having enough money for food was reported to occur *sometimes* in 12.4% of New Zealand households and *often* in 3.3% of households (Table 7.1). Both males and females aged 15–50 years were *sometimes* stressed about lack of money for food more frequently than older people (71+ years).

Households in NZDep2006 quintile 5 (males 19.1%; females 19.6%) were more likely to *sometimes* feel stressed because of not having enough money for food, an issue less frequently reported by males living in NZDep2006 quintiles 1–3 and by females living in NZDep2006 quintiles 1 and 2.

### **I feel stressed because I can't provide the food I want for social occasions**

Among the New Zealand population aged 15 years and over this was reported to be an issue *sometimes* in 11.8% of households (males 8.9%; females 14.6%) (Table 7.1). Only 2.4% of households were reported to experience this *often*. Older males and females (71+ years) reported less frequently that their household experienced this *sometimes* compared to males aged 15–50 years and females aged 15–50 years.

Males living in NZDep2006 quintile 5 were *sometimes* stressed about providing food for social occasions (16.2%) more often than those in NZDep2006 quintiles 1, 3 and 4. Females living in NZDep2006 quintile 5 reported experiencing this (25.4%) more often than those in NZDep2006 quintiles 1–3.

## 7.2 Categories of household food security

Rasch analyses were performed using BIGSTEPS 2.82 (a DOS-based Rasch measurement program; Linacre & Wright 1998) to generate a measure of the severity of food insecurity for each participant. The statement 'I/we can afford to eat properly' was anchored at 0, with values being assigned by Rasch analysis according to the number and severity of the indices the participant responded to positively (Parnell 2005).

Based on the distribution of the respondents' tendency to affirm these statements (ability scores in the Rasch model), and considering the meanings of these scores in terms of item responses (including the item difficulty scores in the Rasch model), households were then assigned to the following three categories:

- fully/almost fully food secure – this included households providing no affirmative response to any of the eight statements and households responding to only one statement, which was most likely to be 'the variety of food is limited'
- low food security – this included households most likely to report 'relying on others for food or money for food' and 'using special food grants or food banks to acquire the food they needed'
- moderate food security – this included households likely to respond positively to the remaining five statements.

### Fully/almost food secure

In the New Zealand population 59.1% of households were classified as being *fully/almost food secure* (males 61.7%; females 56.6%) (Table 7.2; Figure 7.1). Households with those aged 71+ years were more frequently classified as *fully/almost food secure* than households of males aged 15–50 years and females aged 15–70 years.

For Māori households, older males and females (51+ years) were classified more frequently as being *fully/almost food secure* than those aged 19–30 years. There were no differences across age groups for Pacific households.

Across quintiles of NZDep2006, the proportion of households classified as *fully/almost food secure* decreased, with households in NZDep2006 quintile 5 having the lowest proportion (males 41.4%; females 39.9%). Overall, the proportion of households classified as *fully/almost food secure* decreased with increasing neighbourhood deprivation, after adjusting for age, sex and ethnic group.

### Moderately food secure

In the New Zealand population, 33.7% of households were classified as being *moderately food secure* (males 32.6%; females 34.6%) (Table 7.2; Figure 7.1). Males and females aged 71+ years were less frequently classified as *moderately food secure* than those aged 15–50 years.

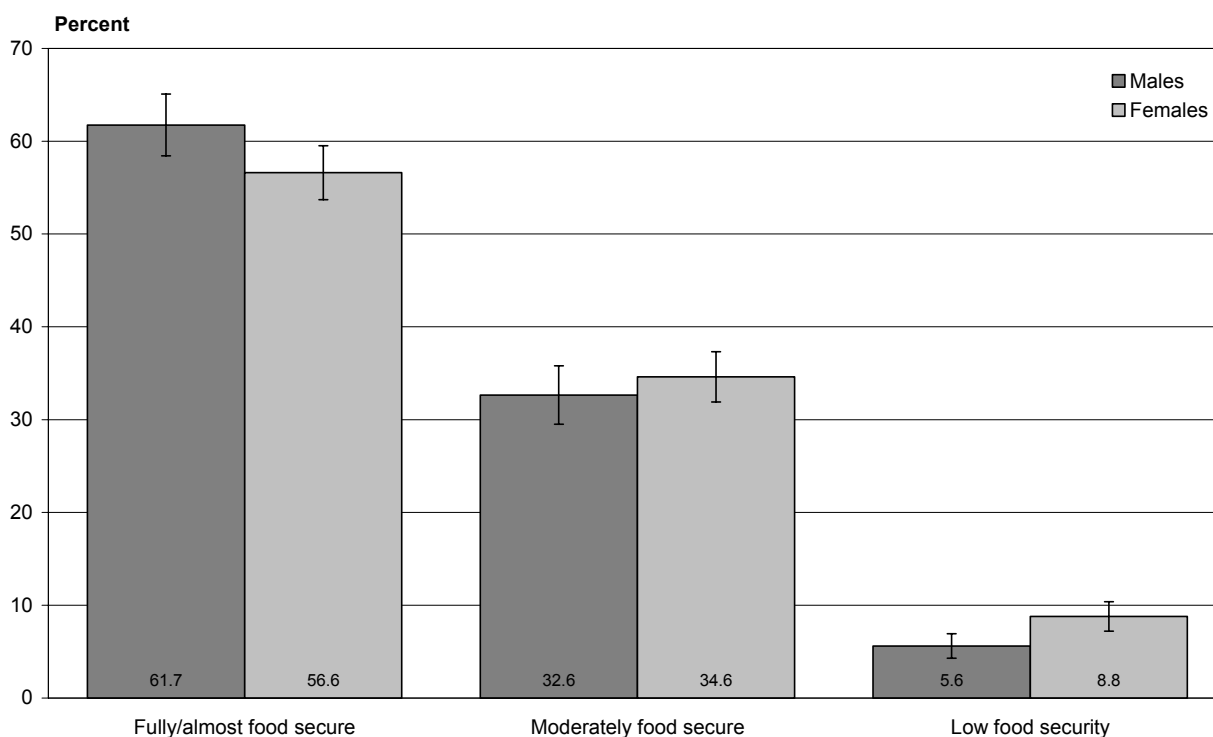
## Low food security

In the New Zealand population, 7.3% of households were classified as having *low food security* (males 5.6%; females 8.8%) (Table 7.2; Figure 7.1). Households with those aged 71+ years were less frequently classified as having *low food security* than households of males aged 15–50 years and females aged 15–70 years.

For Māori households, males aged 51+ years reported *low food security* less frequently than males aged 31–50 years (4.5% versus 18.2%). Among Pacific households, 28.3% of females aged 31–50 years reported *low food security* compared to 8.8% of females aged 15–18 years.

The proportion of households classified as having *low food security* was highest in NZDep2006 quintile 5 (males 14.9%; females 21.4%), higher than males living in NZDep2006 quintiles 1–3 and females in NZDep2006 quintiles 1–4. Overall, the proportion of households classified as having *low food security* increased with increasing neighbourhood deprivation, after adjusting for age, sex and ethnic group.

**Figure 7.1:** Food security categories, by sex



**Table 7.1:** Household food security over the last year, by age group, ethnic group, NZDep2006 and sex

		The household: <sup>1</sup>			Because of lack of money, the household: <sup>1</sup>								
		Can afford to eat properly			Runs out of food			Eats less			Has a limited variety of foods		
		Always	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
<b>Total population</b>		80.2 (78.3–82.1)	16.4 (14.6–18.1)	3.4 (2.3–4.5)	2.5 (1.9–3.2)	11.5 (10.3–12.8)	85.9 (84.5–87.4)	2.9 (2.2–3.5)	12.5 (10.9–14.1)	84.7 (82.9–86.4)	7.6 (6.4–8.8)	22.8 (20.7–24.9)	69.6 (67.3–71.9)
<b>By age group (years)</b>													
Males	15–18	73.1 (66.7–79.4)	21.4 (14.5–28.4)	5.5 (3.1–8.9)	3.0 (1.1–6.4)	18.8 (12.9–24.8)	78.2 (72.1–84.2)	5.2 (1.3–13.3)	12.1 (7.9–16.4)	82.7 (76.9–88.5)	7.3 (4.1–11.9)	21.7 (14.5–28.8)	71.0 (63.5–78.5)
	19–30	73.1 (66.0–80.2)	21.7 (15.2–28.3)	5.2 (1.5–12.6)	1.9 (0.6–4.5)	18.7 (11.9–25.5)	79.5 (72.7–86.2)	3.8 (1.1–9.4)	17.4 (11.5–23.4)	78.8 (72.2–85.3)	9.9 (4.8–14.9)	33.7 (25.8–41.7)	56.4 (48.2–64.6)
	31–50	83.4 (79.8–87.0)	14.4 (11.0–17.8)	2.2 (1.0–4.3)	3.1 (1.6–5.4)	9.0 (6.6–11.3)	88.0 (85.0–90.9)	2.4 (1.1–4.5)	14.0 (10.1–17.8)	83.6 (79.5–87.7)	7.3 (4.7–9.9)	23.1 (18.6–27.7)	69.6 (64.8–74.4)
	51–70	86.8 (82.5–91.2)	10.3 (6.7–13.9)	2.9 (1.1–6.2)	0.9 (0.3–2.2)	7.8 (4.8–10.7)	91.3 (88.1–94.5)	0.7 (0.2–2.0)	8.5 (5.0–12.0)	90.8 (87.2–94.4)	5.2 (2.8–8.7)	11.5 (8.1–14.9)	83.3 (78.7–87.8)
	71+	92.6 (90.3–95.0)	4.5 (2.8–6.1)	2.9 (1.4–5.3)	0.8 (0.3–1.9)	3.2 (2.0–4.9)	95.9 (94.4–97.4)	1.0 (0.4–2.0)	3.8 (2.4–5.6)	95.2 (93.6–96.9)	2.5 (1.5–4.0)	10.1 (7.3–13.0)	87.3 (84.2–90.5)
	Total	82.3 (80.2–84.5)	14.4 (12.2–16.5)	3.3 (2.0–4.6)	2.0 (1.3–2.8)	10.8 (8.8–12.8)	87.1 (85.1–89.2)	2.3 (1.3–3.4)	12.1 (10.0–14.2)	85.6 (83.3–87.8)	6.8 (5.2–8.5)	20.8 (18.0–23.7)	72.3 (69.3–75.4)
Females	15–18	73.1 (67.7–78.6)	20.7 (15.8–25.6)	6.2 (2.9–11.2)	2.7 (1.4–4.8)	16.9 (11.7–22.1)	80.4 (75.1–85.7)	1.3 (0.5–2.9)	16.5 (11.9–21.0)	82.2 (77.7–86.7)	6.0 (3.3–9.9)	30.2 (24.6–35.8)	63.9 (57.8–70.0)
	19–30	67.3 (60.7–73.9)	29.4 (23.3–35.6)	3.2 (1.2–6.9)	3.8 (2.1–5.4)	18.2 (13.0–23.4)	78.0 (72.4–83.7)	3.8 (1.7–7.1)	18.4 (13.0–23.9)	77.8 (72.0–83.6)	12.3 (7.7–16.9)	29.1 (23.2–35.0)	58.6 (52.0–65.2)
	31–50	76.0 (71.7–80.3)	20.8 (16.7–24.9)	3.2 (1.6–5.6)	4.2 (2.3–6.1)	13.6 (10.4–16.8)	82.2 (78.5–85.9)	5.3 (3.0–7.6)	14.1 (10.8–17.4)	80.6 (76.8–84.3)	10.7 (7.9–13.5)	29.3 (24.6–33.9)	60.0 (54.7–65.3)
	51–70	85.2 (82.1–88.3)	11.0 (8.3–13.7)	3.7 (1.9–6.6)	1.9 (0.6–4.5)	8.5 (5.8–11.2)	89.6 (86.6–92.6)	2.0 (0.9–4.0)	9.4 (6.3–12.5)	88.6 (85.1–92.0)	5.2 (2.9–7.4)	18.9 (14.9–22.8)	76.0 (71.7–80.2)
	71+	92.1 (89.2–94.9)	4.8 (2.7–6.8)	3.2 (1.8–5.2)	0.4 (0.1–1.1)	2.8 (1.7–4.3)	96.8 (95.5–98.1)	0.4 (0.1–1.1)	4.1 (2.5–6.3)	95.4 (93.5–97.4)	1.5 (0.6–3.0)	10.6 (8.0–13.2)	87.9 (85.1–90.7)
	Total	78.3 (75.7–80.8)	18.2 (15.9–20.5)	3.5 (2.3–4.8)	3.0 (2.2–3.9)	12.2 (10.5–14.0)	84.8 (82.7–86.8)	3.4 (2.4–4.3)	12.8 (11.0–14.7)	83.8 (81.7–85.9)	8.3 (6.7–9.9)	24.6 (22.1–27.1)	67.1 (64.2–70.0)

		The household: <sup>1</sup>			Because of lack of money, the household: <sup>1</sup>								
		Can afford to eat properly			Runs out of food			Eats less			Has a limited variety of foods		
		Always	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
<b>Māori</b>													
Males	15-18	65.0 (47.4-82.6)	25.8 (9.7-48.9)	9.2 (2.3-22.7)	11.3 (2.7-28.2)	28.0 (14.6-45.1)	60.7 (40.6-78.4)	11.4 (2.7-28.3)	25.6 (10.2-47.3)	63.1 (45.6-80.5)	25.0 (10.8-44.7)	26.6 (8.9-52.4)	48.3 (29.3-67.8)
	19-30	56.2 (42.8-69.7)	36.4 (23.0-49.8)	7.3 (2.1-17.4)	4.1 (1.0-10.8)	36.2 (21.5-50.9)	59.6 (44.7-74.6)	4.8 (1.2-12.1)	34.6 (21.7-49.4)	60.6 (46.6-74.6)	22.4 (10.0-39.8)	31.7 (19.3-44.1)	45.9 (30.7-61.1)
	31-50	66.9 (58.6-75.1)	29.4 (20.6-38.1)	3.8 (1.2-8.9)	6.3 (2.4-12.9)	23.5 (15.6-31.4)	70.2 (60.5-79.9)	4.5 (2.1-8.2)	24.1 (17.0-31.3)	71.4 (63.5-79.3)	16.5 (9.0-24.0)	36.8 (24.1-49.6)	46.7 (33.9-59.5)
	51+	75.8 (67.8-83.8)	22.0 (14.3-31.4)	2.2 (0.6-5.6)	1.7 (0.3-5.0)	13.1 (5.6-24.6)	85.3 (76.5-94.1)	1.9 (0.4-5.5)	17.5 (9.7-28.0)	80.6 (71.4-89.8)	1.2 (0.1-4.4)	27.2 (16.8-37.7)	71.5 (61.0-82.0)
	Total	65.6 (60.3-70.9)	29.3 (23.8-34.8)	5.0 (2.7-8.5)	5.2 (2.9-8.6)	25.3 (19.8-30.8)	69.5 (63.4-75.5)	4.8 (2.8-7.6)	25.8 (20.4-31.2)	69.4 (63.5-75.4)	15.7 (9.8-21.7)	32.1 (25.3-38.9)	52.2 (45.0-59.3)
Females	15-18	61.3 (44.2-76.5)	30.9 (17.7-46.8)	7.9 (1.9-20.2)	5.0 (1.2-13.1)	27.1 (13.1-45.3)	67.9 (52.3-83.6)	3.0 (0.6-8.8)	23.7 (11.1-40.8)	73.3 (58.8-87.7)	8.6 (3.0-18.7)	40.2 (24.9-57.1)	51.2 (33.6-68.6)
	19-30	46.2 (36.9-55.5)	52.3 (42.6-61.9)	1.6 (0.4-4.0)	9.2 (5.2-14.9)	26.4 (18.5-34.2)	64.4 (55.4-73.4)	4.3 (2.3-7.3)	24.0 (16.7-31.4)	71.7 (64.6-78.8)	16.6 (10.5-22.7)	33.7 (26.9-40.4)	49.7 (41.4-58.1)
	31-50	62.3 (54.5-70.1)	35.4 (27.7-43.0)	2.3 (0.9-5.0)	9.5 (5.1-14.0)	23.0 (15.6-30.4)	67.5 (58.9-76.1)	9.8 (5.4-16.0)	21.8 (13.3-30.3)	68.5 (60.2-76.7)	20.0 (13.3-26.8)	30.2 (23.8-36.6)	49.8 (42.3-57.3)
	51+	61.1 (50.5-71.7)	34.9 (24.3-45.4)	4.1 (0.6-12.7)	4.2 (0.7-12.7)	21.6 (13.3-30.0)	74.2 (66.0-82.3)	4.0 (0.6-12.9)	20.6 (13.1-29.8)	75.4 (67.0-83.9)	11.1 (5.6-19.1)	33.0 (24.1-41.9)	56.0 (46.6-65.4)
	Total	57.4 (52.6-62.2)	39.5 (34.8-44.2)	3.1 (1.6-5.3)	7.8 (5.5-10.1)	24.1 (19.4-28.8)	68.1 (63.4-72.8)	6.2 (4.0-8.5)	22.4 (18.2-26.6)	71.4 (67.1-75.7)	15.9 (12.5-19.4)	32.9 (28.5-37.2)	51.2 (46.3-56.2)
<b>Pacific</b>													
Males	15-18	47.7 (27.5-68.0)	52.3 (32.0-72.5)	0.0	4.7 (0.1-23.4)	48.8 (28.8-68.8)	46.5 (25.1-69.0)	0.0	34.3 (15.2-53.3)	65.7 (44.4-83.2)	7.2 (0.5-24.9)	45.2 (25.0-65.4)	47.6 (25.8-70.1)
	19-30	62.4 (48.9-75.9)	35.7 (22.1-49.3)	1.9 (0.2-7.1)	1.8 (0.0-9.6)	35.5 (23.6-47.4)	62.7 (51.6-73.8)	2.3 (0.1-10.1)	39.5 (24.1-54.9)	58.2 (42.6-73.8)	12.1 (5.1-23.2)	27.4 (15.9-41.7)	60.5 (45.4-75.5)
	31-50	55.3 (44.5-66.2)	42.2 (31.6-52.9)	2.4 (0.6-6.3)	4.8 (2.0-9.6)	34.2 (24.9-43.5)	61.0 (51.1-70.9)	2.8 (1.1-5.9)	39.6 (26.3-53.0)	57.5 (44.1-71.0)	10.9 (6.6-16.7)	53.3 (41.5-65.0)	35.8 (25.4-46.2)
	51+	52.2 (37.2-67.3)	38.2 (25.6-52.1)	9.6 (3.5-19.9)	9.0 (1.5-26.6)	39.8 (27.5-53.1)	51.2 (35.9-66.5)	3.9 (0.4-13.8)	37.4 (21.7-55.2)	58.7 (42.6-74.8)	18.2 (6.1-37.7)	37.7 (25.1-51.7)	44.1 (31.2-57.0)
	Total	55.9 (48.6-63.3)	40.7 (33.5-47.9)	3.4 (1.7-5.8)	4.7 (2.0-9.0)	37.5 (31.1-44.0)	57.8 (51.0-64.6)	2.5 (1.0-5.0)	38.5 (31.2-45.8)	59.0 (51.6-66.4)	12.2 (7.9-16.5)	41.4 (34.1-48.7)	46.4 (39.2-53.7)

		The household: <sup>1</sup>			Because of lack of money, the household: <sup>1</sup>								
		Can afford to eat properly			Runs out of food			Eats less			Has a limited variety of foods		
		Always	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
Females	15-18	48.4 (27.7-69.5)	51.6 (30.5-72.3)	0.0	2.0 (0.0-10.6)	36.1 (20.4-54.2)	62.0 (44.0-77.8)	4.7 (0.5-16.7)	29.2 (14.3-48.3)	66.1 (47.1-81.9)	11.5 (2.0-32.5)	40.1 (22.4-60.0)	48.4 (26.9-70.3)
	19-30	49.3 (39.5-59.1)	47.6 (37.5-57.6)	3.1 (0.3-12.3)	6.5 (2.6-13.1)	28.7 (19.8-37.5)	64.8 (54.8-74.8)	8.5 (3.9-15.9)	27.9 (17.6-38.2)	63.6 (53.0-74.1)	10.7 (5.7-17.8)	54.4 (43.2-65.6)	34.9 (24.4-45.4)
	31-50	53.1 (43.7-62.6)	42.5 (33.5-51.4)	4.4 (1.8-8.7)	5.7 (3.0-9.7)	48.5 (39.2-57.8)	45.8 (36.4-55.1)	8.9 (4.6-15.1)	35.1 (27.3-43.0)	56.0 (47.5-64.5)	15.0 (9.7-21.7)	46.1 (37.0-55.1)	38.9 (30.7-47.2)
	51+	50.8 (40.0-61.6)	46.8 (36.0-57.7)	2.3 (0.3-8.5)	7.2 (2.8-14.6)	52.5 (38.5-66.4)	40.3 (26.5-55.3)	7.3 (2.7-15.0)	43.6 (31.0-56.2)	49.1 (36.6-61.7)	9.8 (4.5-17.9)	53.0 (41.5-64.6)	37.2 (25.4-50.2)
	Total	51.0 (45.8-56.2)	45.9 (40.7-51.2)	3.1 (1.4-5.7)	5.8 (3.7-8.8)	42.0 (36.5-47.5)	52.1 (46.4-57.9)	8.0 (5.2-10.7)	34.0 (27.9-40.0)	58.1 (52.3-63.9)	12.2 (9.1-15.4)	49.3 (44.1-54.6)	38.4 (33.4-43.4)
<b>NZEO</b>													
Males	15-18	75.8 (68.7-82.8)	19.5 (12.1-27.0)	4.7 (2.4-8.2)	1.9 (0.4-5.4)	14.2 (7.7-20.7)	83.9 (77.3-90.6)	5.0 (0.8-15.4)	9.2 (5.1-15.0)	85.9 (79.0-92.7)	4.5 (2.2-8.2)	20.4 (12.1-28.6)	75.1 (66.4-83.8)
	19-30	75.3 (67.4-83.2)	19.7 (12.4-27.1)	4.9 (1.3-12.5)	1.6 (0.3-4.8)	15.8 (8.9-25.2)	82.5 (74.9-90.2)	4.0 (1.0-10.8)	13.8 (7.8-22.0)	82.2 (74.8-89.6)	8.4 (3.6-16.1)	34.4 (25.3-43.6)	57.2 (47.9-66.4)
	31-50	86.7 (82.9-90.4)	11.2 (7.7-14.8)	2.1 (0.8-4.6)	2.6 (1.0-5.2)	6.0 (3.5-8.5)	91.5 (88.5-94.4)	2.1 (0.7-4.5)	11.3 (7.2-15.5)	86.6 (82.2-91.0)	5.7 (3.4-9.0)	20.6 (15.8-25.4)	73.7 (68.6-78.7)
	51+	89.9 (86.4-93.5)	7.4 (4.5-10.3)	2.7 (1.0-5.6)	0.6 (0.1-1.7)	5.2 (2.9-7.5)	94.2 (91.8-96.6)	0.7 (0.2-1.8)	5.8 (3.2-8.4)	93.5 (90.8-96.2)	4.3 (2.1-6.5)	9.4 (6.7-12.1)	86.3 (82.7-89.9)
	Total	84.9 (82.5-87.3)	12.0 (9.6-14.4)	3.1 (1.7-4.4)	1.6 (0.9-2.7)	8.2 (6.0-10.3)	90.2 (88.0-92.5)	2.1 (0.9-3.3)	9.6 (7.3-11.8)	88.3 (85.9-90.7)	5.6 (3.9-7.4)	19.1 (16.0-22.1)	75.3 (72.1-78.6)
Females	15-18	78.3 (72.5-84.1)	16.0 (10.8-21.2)	5.7 (2.5-10.9)	2.6 (1.2-5.0)	13.4 (8.6-18.1)	84.0 (79.1-88.9)	1.0 (0.3-2.6)	13.5 (9.2-17.8)	85.5 (81.1-89.8)	5.1 (2.5-9.0)	27.6 (21.7-33.4)	67.4 (61.0-73.7)
	19-30	72.2 (64.2-80.3)	24.5 (17.0-32.0)	3.3 (0.9-7.9)	2.2 (0.7-4.9)	15.8 (10.0-21.7)	82.0 (75.4-88.5)	3.3 (1.0-7.8)	16.2 (9.8-22.6)	80.4 (73.6-87.2)	11.6 (6.8-18.0)	26.4 (19.2-33.5)	62.0 (54.2-69.9)
	31-50	79.0 (74.2-83.9)	17.8 (13.2-22.4)	3.2 (1.4-6.1)	3.4 (1.6-6.1)	10.9 (7.4-14.4)	85.7 (81.6-89.8)	4.7 (2.5-7.9)	12.2 (8.6-15.8)	83.2 (79.0-87.3)	9.5 (6.3-12.7)	28.0 (22.7-33.3)	62.5 (56.5-68.5)
	51+	89.7 (87.1-92.2)	6.6 (4.6-8.6)	3.7 (2.0-5.4)	1.3 (0.3-3.4)	4.5 (2.5-6.4)	94.2 (91.9-96.5)	1.4 (0.5-3.0)	6.0 (3.5-8.5)	92.6 (89.8-95.4)	3.6 (2.1-5.7)	14.5 (11.6-17.5)	81.9 (78.5-85.2)
	Total	81.9 (79.0-84.7)	14.6 (12.0-17.2)	3.6 (2.2-4.9)	2.3 (1.4-3.2)	9.5 (7.7-11.3)	88.2 (86.1-90.4)	2.9 (1.9-4.0)	10.6 (8.5-12.7)	86.5 (84.1-88.8)	7.3 (5.6-9.1)	22.5 (19.6-25.3)	70.2 (67.0-73.4)



		The household: <sup>1</sup>			Because of lack of money, the household: <sup>1</sup>								
		Can afford to eat properly			Runs out of food			Eats less			Has a limited variety of foods		
		Always	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
<b>By NZDep2006 quintile</b>													
Males	1	88.9 (84.6–93.3)	6.4 (3.3–10.9)	4.7 (1.9–9.5)	0.6 (0.0–3.3)	5.5 (2.7–9.6)	94.0 (90.7–97.3)	1.7 (0.2–5.5)	4.8 (2.3–8.5)	93.6 (90.3–96.8)	4.0 (1.6–8.1)	16.0 (9.7–22.2)	80.0 (73.9–86.2)
	2	84.5 (79.5–89.6)	14.5 (9.5–19.5)	1.0 (0.2–2.8)	1.1 (0.1–4.3)	7.7 (3.9–13.2)	91.2 (86.6–95.7)	1.1 (0.1–4.3)	9.8 (5.7–15.5)	89.1 (84.3–93.8)	2.7 (0.9–6.1)	20.0 (14.4–25.5)	77.4 (71.1–83.6)
	3	89.6 (84.9–94.3)	9.0 (4.8–13.3)	1.4 (0.4–3.2)	0.6 (0.0–2.6)	6.6 (2.5–10.7)	92.8 (88.6–96.9)	1.1 (0.1–3.9)	10.1 (5.5–14.7)	88.8 (83.9–93.8)	4.6 (1.7–9.8)	19.1 (12.2–26.0)	76.3 (68.4–84.1)
	4	77.7 (70.7–84.7)	17.5 (11.8–23.2)	4.8 (0.9–13.9)	3.3 (1.2–7.3)	12.1 (6.8–17.4)	84.6 (78.6–90.6)	2.7 (0.7–7.0)	13.2 (7.9–18.5)	84.1 (78.3–89.9)	8.4 (4.1–12.6)	21.8 (15.9–27.8)	69.8 (62.7–76.8)
	5	67.5 (61.2–73.9)	27.6 (21.7–33.6)	4.8 (2.1–7.6)	5.3 (3.2–7.4)	24.9 (19.2–30.6)	69.8 (63.3–76.3)	5.7 (3.5–7.8)	25.5 (19.9–31.2)	68.8 (62.6–75.0)	16.3 (11.0–21.5)	29.2 (24.0–34.4)	54.5 (47.4–61.7)
Females	1	87.1 (80.0–94.2)	8.0 (2.8–17.3)	4.9 (1.8–10.5)	1.0 (0.0–5.3)	5.2 (1.8–11.1)	93.9 (89.6–98.2)	1.1 (0.0–5.2)	4.5 (1.2–11.5)	94.4 (89.8–99.1)	1.9 (0.4–5.2)	18.6 (10.5–26.7)	79.5 (71.2–87.8)
	2	85.8 (81.9–89.8)	9.9 (6.5–13.3)	4.3 (2.0–7.9)	2.5 (0.8–6.0)	4.6 (2.7–7.4)	92.9 (90.0–95.8)	3.8 (1.4–7.9)	6.1 (3.7–8.4)	90.2 (86.8–93.6)	6.6 (4.0–10.2)	16.1 (11.8–20.4)	77.3 (72.4–82.2)
	3	84.2 (79.4–89.1)	14.2 (9.5–18.8)	1.6 (0.3–4.6)	2.4 (0.8–5.6)	7.6 (3.9–11.3)	90.0 (85.7–94.3)	1.0 (0.3–2.7)	11.7 (6.9–16.6)	87.3 (82.4–92.1)	6.6 (3.4–9.8)	27.6 (20.9–34.3)	65.8 (58.9–72.6)
	4	70.6 (65.2–76.0)	25.4 (20.5–30.4)	4.0 (2.0–7.0)	2.6 (1.0–5.4)	18.3 (13.2–23.5)	79.0 (73.7–84.4)	3.3 (1.5–6.2)	19.4 (15.0–23.8)	77.3 (72.4–82.3)	9.8 (5.6–13.9)	29.2 (23.7–34.8)	61.0 (55.7–66.4)
	5	62.5 (57.3–67.7)	34.3 (29.4–39.1)	3.2 (1.9–5.2)	6.7 (4.7–8.7)	26.7 (23.0–30.4)	66.6 (62.4–70.9)	7.8 (4.9–10.8)	22.6 (19.2–26.0)	69.6 (65.6–73.6)	16.5 (12.5–20.4)	31.8 (27.1–36.6)	51.7 (46.1–57.3)

<sup>1</sup> Option 'Don't know' is not included in the analysis.

		Because of lack of money, the household: <sup>1</sup>						The household: <sup>1</sup>					
		Relies on others for food			Uses food grants/banks			Is stressed about lack of money for food			Is stressed when no food for social occasions		
		Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
<b>Total population</b>		1.1 (0.8–1.5)	7.7 (6.6–8.8)	91.2 (90.0–92.4)	0.4 (0.3–0.6)	5.4 (4.5–6.2)	94.2 (93.3–95.1)	3.3 (2.6–4.0)	12.4 (10.8–14.0)	84.3 (82.5–86.0)	2.4 (1.9–3.0)	11.8 (10.5–13.2)	85.7 (84.3–87.2)
<b>By age group (years)</b>													
Males	15–18	6.7 (2.5–14.1)	6.2 (3.8–9.5)	87.1 (81.0–93.1)	1.0 (0.1–3.6)	5.8 (3.5–9.0)	93.1 (89.8–96.5)	2.0 (0.6–5.0)	13.0 (8.5–17.5)	85.0 (80.6–89.4)	3.3 (1.3–6.6)	8.8 (5.6–13.1)	87.9 (83.9–92.0)
	19–30	0.2 (0.0–0.7)	10.5 (5.4–15.7)	89.2 (84.1–94.3)	0.0	6.9 (3.2–10.5)	93.1 (89.5–96.8)	2.1 (0.9–4.2)	12.6 (7.8–17.5)	85.2 (80.2–90.3)	2.7 (0.9–6.1)	11.7 (6.1–17.3)	85.6 (79.7–91.5)
	31–50	0.6 (0.2–1.5)	8.0 (5.4–10.6)	91.4 (88.8–94.0)	0.6 (0.2–1.4)	6.7 (4.5–8.9)	92.6 (90.4–94.9)	3.6 (1.8–5.5)	13.5 (9.9–17.2)	82.8 (78.7–86.9)	1.9 (0.9–3.0)	11.9 (8.6–15.2)	86.2 (82.9–89.5)
	51–70	0.3 (0.0–1.0)	2.3 (1.2–4.0)	97.4 (96.0–98.7)	0.0	1.9 (0.8–3.8)	98.1 (96.7–99.4)	1.6 (0.6–3.6)	5.8 (3.2–8.5)	92.6 (89.4–95.7)	0.4 (0.0–1.8)	5.2 (2.8–7.6)	94.4 (91.9–96.8)
	71+	0.2 (0.0–1.2)	2.0 (1.1–3.2)	97.8 (96.7–98.9)	0.4 (0.1–1.3)	2.2 (1.0–4.3)	97.4 (95.9–98.8)	0.7 (0.2–1.7)	3.1 (1.7–5.2)	96.2 (94.5–97.8)	1.1 (0.4–2.3)	1.6 (0.8–3.0)	97.3 (96.1–98.5)
	Total	0.8 (0.4–1.3)	6.3 (4.9–7.6)	92.9 (91.5–94.3)	0.3 (0.2–0.6)	5.0 (3.8–6.2)	94.7 (93.5–95.9)	2.4 (1.5–3.3)	10.3 (8.5–12.0)	87.3 (85.4–89.3)	1.7 (1.0–2.4)	8.9 (7.2–10.6)	89.4 (87.7–91.2)
	Females	15–18	5.5 (3.2–8.9)	7.4 (4.5–11.2)	87.1 (83.0–91.2)	0.9 (0.1–3.3)	8.4 (5.3–12.3)	90.8 (87.3–94.3)	3.2 (1.5–5.9)	14.0 (9.8–18.1)	82.8 (78.5–87.2)	2.5 (0.9–5.2)	11.4 (8.0–14.9)
19–30		2.7 (1.1–5.6)	17.2 (12.5–22.0)	80.0 (74.8–85.3)	1.0 (0.4–2.2)	9.3 (6.0–12.5)	89.7 (86.4–93.0)	5.5 (2.7–8.4)	22.4 (16.7–28.1)	72.1 (66.0–78.1)	3.1 (1.6–5.5)	17.1 (11.8–22.5)	79.8 (74.2–85.4)
31–50		1.1 (0.6–1.9)	9.9 (6.7–13.1)	89.0 (85.7–92.3)	0.7 (0.4–1.3)	6.1 (4.4–7.7)	93.2 (91.5–94.9)	5.0 (3.3–6.8)	18.4 (14.5–22.4)	76.5 (72.3–80.7)	4.3 (2.6–6.0)	20.1 (16.0–24.2)	75.6 (71.3–79.9)
51–70		0.5 (0.1–1.3)	5.1 (2.6–7.5)	94.5 (92.1–96.9)	0 (0.0–0.3)	4.0 (2.1–5.9)	96.0 (94.1–97.9)	3.6 (1.8–6.5)	7.5 (4.9–10.1)	88.8 (85.7–92.0)	2.6 (1.3–4.7)	9.4 (6.7–12.2)	87.9 (84.9–91.0)
71+		0.1 (0.0–0.7)	1.5 (0.7–2.8)	98.4 (97.5–99.4)	0.0	0.5 (0.1–1.3)	99.5 (98.7–99.9)	0.6 (0.1–1.5)	3.2 (1.8–5.1)	96.3 (94.7–97.9)	0.3 (0.1–1.0)	4.9 (3.2–7.2)	94.8 (92.8–96.7)
Total		1.4 (0.9–1.9)	9.0 (7.4–10.6)	89.6 (87.9–91.3)	0.5 (0.3–0.8)	5.7 (4.6–6.9)	93.8 (92.5–95.0)	4.2 (3.0–5.4)	14.4 (12.2–16.6)	81.4 (79.0–83.8)	3.1 (2.2–4.0)	14.6 (12.7–16.5)	82.3 (80.2–84.5)

		Because of lack of money, the household: <sup>1</sup>						The household: <sup>1</sup>					
		Relies on others for food			Uses food grants/banks			Is stressed about lack of money for food			Is stressed when no food for social occasions		
		Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
<b>Māori</b>													
Males	15-18	9.0 (2.2-22.7)	8.1 (2.4-18.9)	82.8 (71.5-94.2)	3.8 (0.1-19.7)	11.3 (3.7-24.7)	84.9 (62.3-96.6)	8.0 (1.6-22.4)	34.2 (16.6-55.8)	57.8 (38.8-75.1)	15.5 (5.2-32.5)	11.4 (3.9-24.2)	73.1 (55.8-86.5)
	19-30	0.6 (0.0-3.5)	18.8 (10.0-30.6)	80.6 (70.7-90.5)	0.0	15.3 (7.7-26.2)	84.7 (76.0-93.4)	6.3 (2.2-13.7)	19.9 (10.8-32.1)	73.8 (62.7-84.9)	3.8 (0.8-10.8)	22.2 (13.3-33.6)	74.0 (62.4-85.5)
	31-50	4.2 (1.0-11.2)	18.5 (11.1-26.0)	77.2 (69.1-85.4)	2.2 (0.7-5.5)	19.1 (12.1-26.0)	78.7 (71.5-85.9)	7.2 (3.8-12.2)	27.2 (17.1-37.2)	65.7 (55.2-76.2)	5.8 (2.6-11.0)	19.5 (11.4-27.6)	74.7 (66.3-83.2)
	51+	0.5 (0.0-2.7)	6.7 (2.8-12.9)	92.9 (88.2-97.5)	0.0	3.3 (1.2-7.3)	96.7 (94.0-99.4)	1.7 (0.3-4.9)	13.4 (6.7-23.1)	84.9 (77.1-92.7)	2.5 (0.5-7.4)	5.0 (1.7-11.4)	92.4 (87.2-97.6)
	Total	2.9 (1.4-5.4)	14.8 (10.5-19.1)	82.3 (77.9-86.7)	1.3 (0.4-3.0)	13.6 (10.0-17.3)	85.1 (81.3-88.9)	5.8 (3.4-8.2)	22.8 (17.4-28.3)	71.4 (66.2-76.6)	5.6 (3.1-9.2)	16.1 (12.7-19.5)	78.3 (74.5-82.1)
Females	15-18	3.2 (0.3-12.7)	14.3 (5.3-29.0)	82.4 (70.4-94.5)	2.7 (0.1-14.4)	11.4 (3.5-25.4)	86.0 (74.8-97.1)	5.7 (1.6-14.0)	16.5 (6.8-31.1)	77.8 (65.8-89.8)	4.3 (0.9-11.9)	18.8 (9.6-31.4)	76.9 (65.3-88.6)
	19-30	3.5 (1.5-6.7)	30.7 (20.7-40.7)	65.8 (55.9-75.8)	1.3 (0.3-3.8)	24.2 (16.6-31.7)	74.5 (67.0-82.0)	10.4 (6.1-16.5)	31.0 (20.9-41.2)	58.5 (47.8-69.3)	6.9 (3.5-12.0)	31.3 (23.1-39.5)	61.8 (53.6-70.1)
	31-50	4.2 (1.7-8.5)	19.7 (13.5-25.8)	76.1 (68.9-83.3)	3.5 (1.7-6.3)	17.3 (11.2-23.5)	79.2 (72.5-85.9)	13.6 (8.0-19.3)	21.3 (14.7-27.8)	65.1 (56.5-73.7)	9.5 (5.3-15.5)	23.3 (15.9-30.6)	67.2 (58.2-76.2)
	51+	1.4 (0.3-4.4)	12.8 (6.6-21.5)	85.8 (78.5-93.1)	0.0	16.9 (10.0-26.0)	83.1 (75.5-90.6)	6.3 (1.9-14.6)	16.2 (9.2-25.5)	77.6 (68.3-86.8)	6.3 (1.9-14.6)	17.9 (11.3-26.4)	75.8 (68.1-83.4)
	Total	3.3 (1.9-5.4)	20.7 (16.7-24.6)	76.0 (71.6-80.4)	2.0 (1.1-3.6)	18.5 (15.1-21.9)	79.5 (75.7-83.2)	10.3 (7.4-13.3)	22.3 (17.6-27.1)	67.3 (62.2-72.4)	7.5 (5.0-10.1)	23.9 (19.5-28.2)	68.6 (63.8-73.4)
<b>Pacific</b>													
Males	15-18	7.5 (0.5-26.1)	18.8 (3.3-34.3)	73.7 (52.4-89.2)	0.0	4.4 (0.1-22.3)	95.6 (77.9-99.9)	5 (0.1-24.7)	27 (9.0-44.9)	68.0 (43.5-86.9)	3.1 (0.0-17.8)	36.1 (16.2-56.0)	60.8 (38.0-80.6)
	19-30	2.0 (0.2-7.1)	20.3 (9.8-34.9)	77.8 (65.7-89.9)	0.0	14.4 (7.1-24.9)	85.6 (77.2-94.1)	7.8 (2.9-16.0)	33.0 (20.0-46.0)	59.2 (44.7-73.7)	3.3 (1.0-7.8)	26.2 (14.1-41.7)	70.5 (57.1-83.9)
	31-50	2.7 (0.8-6.4)	25.1 (12.2-38.0)	72.2 (59.3-85.0)	1.0 (0.1-3.5)	23.3 (10.1-36.4)	75.8 (62.8-88.7)	4.9 (2.2-9.2)	39.5 (25.5-53.5)	55.7 (42.6-68.8)	7.0 (3.1-13.4)	32.7 (24.0-41.4)	60.3 (50.1-70.5)
	51+	7.3 (0.7-25.8)	23.4 (15.2-33.3)	69.3 (53.5-85.1)	2.0 (0.0-11.3)	24.0 (13.6-37.4)	74.0 (59.9-88.1)	10.1 (1.5-30.5)	32.0 (20.1-46.0)	57.9 (41.6-74.2)	8.0 (0.6-29.9)	33.1 (21.3-46.7)	58.9 (42.8-75.0)
	Total	4.0 (1.6-7.9)	22.5 (15.6-29.5)	73.5 (66.0-81.0)	0.8 (0.1-2.4)	18.5 (12.4-24.7)	80.7 (74.5-87.0)	6.8 (3.7-11.2)	34.5 (27.9-41.1)	58.7 (51.9-65.6)	5.6 (2.9-9.5)	31.2 (25.0-37.3)	63.3 (56.4-70.2)

		Because of lack of money, the household: <sup>1</sup>						The household: <sup>1</sup>					
		Relies on others for food			Uses food grants/banks			Is stressed about lack of money for food			Is stressed when no food for social occasions		
		Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never
Females	15-18	10.2 (3.0-23.7)	7.7 (1.5-21.2)	82.1 (65.5-93.0)	6.4 (0.1-31.9)	11.8 (2.9-28.8)	81.8 (59.8-94.8)	5.7 (0.8-18.8)	24.1 (12.6-39.2)	70.2 (55.6-82.3)	5.4 (0.6-18.6)	15.5 (5.7-31.2)	79.1 (62.6-90.7)
	19-30	2.9 (0.8-7.1)	20.3 (13.4-28.8)	76.8 (68.9-84.8)	1.5 (0.2-5.3)	18.6 (10.9-28.6)	80.0 (71.6-88.3)	10.6 (6.1-16.9)	25.5 (18.6-32.4)	63.9 (56.0-71.7)	7.6 (3.5-14.0)	30.1 (21.6-38.5)	62.3 (53.1-71.6)
	31-50	4.4 (1.9-8.5)	22.2 (14.2-30.2)	73.4 (64.8-82.1)	3.1 (0.9-7.7)	19.9 (13.5-26.4)	77.0 (70.2-83.8)	13.4 (7.6-21.4)	29.7 (22.2-37.1)	56.9 (48.1-65.7)	11.5 (6.6-18.3)	27.5 (20.2-34.7)	61.0 (52.8-69.2)
	51+	3.5 (0.7-10.0)	23.1 (14.1-34.3)	73.3 (63.1-83.6)	1.2 (0.0-6.7)	16.8 (9.3-27.1)	81.9 (73.0-90.9)	10.8 (5.3-19.0)	46.7 (35.0-58.5)	42.4 (30.3-54.6)	8.5 (3.6-16.5)	48.8 (34.5-63.2)	42.6 (28.0-57.3)
	Total	4.4 (2.8-6.5)	20.2 (15.5-25.0)	75.4 (70.0-80.7)	2.6 (1.0-5.4)	18.0 (13.9-22.1)	79.4 (75.1-83.7)	11.2 (7.9-14.4)	31.3 (26.5-36.1)	57.6 (52.7-62.4)	9.0 (6.1-12.0)	31.3 (26.3-36.2)	59.7 (54.3-65.1)
<b>NZEO</b>													
Males	15-18	5.6 (1.2-15.2)	4.1 (2.1-7.0)	90.4 (83.8-96.9)	0.5 (0.1-1.7)	4.4 (2.2-7.8)	95.1 (92.5-97.8)	0.6 (0.1-2.5)	10.5 (6.1-16.5)	88.9 (84.0-93.8)	1.7 (0.3-5.3)	6.5 (3.7-10.5)	91.9 (88.1-95.6)
	19-30	0.0 (0.0-0.0)	8.3 (3.5-16.1)	91.7 (85.9-97.4)	0.0 (0.0-0.0)	4.9 (1.8-10.5)	95.1 (91.2-99.0)	1.3 (0.3-3.8)	10.2 (5.6-16.7)	88.5 (83.1-93.9)	2.5 (0.6-6.6)	9.3 (4.0-17.8)	88.2 (81.6-94.8)
	31-50	0.0 (0.0-0.0)	5.9 (3.5-9.2)	94.1 (91.4-96.8)	0.4 (0.0-1.3)	4.5 (2.5-7.2)	95.2 (93.0-97.4)	3.1 (1.4-5.8)	11.1 (7.2-15.1)	85.8 (81.4-90.2)	1.1 (0.3-2.7)	10.1 (6.6-13.6)	88.9 (85.3-92.4)
	51+	0.1 (0.0-0.3)	1.3 (0.5-2.7)	98.7 (97.7-99.6)	0.1 (0.0-0.3)	1.2 (0.4-2.7)	98.7 (97.7-99.8)	1.1 (0.3-2.6)	3.8 (1.8-5.7)	95.1 (92.7-97.6)	0.2 (0.1-0.5)	3.4 (1.8-5.8)	96.4 (94.5-98.2)
	Total	0.4 (0.1-1.0)	4.5 (3.0-5.9)	95.1 (93.6-96.7)	0.2 (0.0-0.5)	3.3 (2.1-4.5)	96.5 (95.3-97.7)	1.8 (1.0-2.9)	8.1 (6.3-10.0)	90.1 (88.0-92.2)	1.1 (0.5-1.9)	7.2 (5.3-9.0)	91.8 (89.9-93.6)
Females	15-18	5.1 (2.7-8.8)	5.7 (3.4-9.0)	89.1 (85.0-93.2)	0.4 (0.0-2.3)	6.0 (3.4-9.7)	93.6 (90.6-96.7)	2.9 (1.1-6.1)	12.2 (8.2-16.2)	84.9 (80.4-89.3)	2.0 (0.5-5.2)	10.2 (6.5-14.0)	87.8 (83.5-92.1)
	19-30	2.4 (0.6-6.3)	15.6 (9.8-21.3)	82.1 (75.8-88.3)	1.0 (0.3-2.4)	5.9 (2.9-10.4)	93.1 (89.6-96.7)	4.0 (1.4-8.7)	21.2 (14.6-27.8)	74.8 (67.7-81.9)	2.1 (0.6-5.2)	13.7 (7.8-19.6)	84.2 (78.0-90.4)
	31-50	0.5 (0.1-1.4)	8.2 (4.6-11.8)	91.3 (87.7-95.0)	0.3 (0.0-1.0)	4.4 (2.5-6.2)	95.4 (93.5-97.2)	3.7 (2.1-6.1)	17.5 (13.0-22.0)	78.8 (74.2-83.4)	3.4 (1.7-6.0)	19.3 (14.7-23.9)	77.3 (72.7-82.0)
	51+	0.2 (0.0-1.0)	2.9 (1.4-5.2)	96.9 (95.1-98.8)	0.0 (0.0-0.0)	1.7 (0.7-3.5)	98.3 (97.0-99.6)	2.4 (1.0-4.7)	4.5 (2.4-6.6)	93.1 (90.5-95.7)	1.7 (0.7-3.4)	6.1 (4.0-8.3)	92.2 (89.7-94.6)
	Total	1.0 (0.5-1.7)	7.3 (5.6-9.1)	91.7 (89.9-93.5)	0.3 (0.1-0.6)	3.7 (2.5-4.9)	96.0 (94.8-97.2)	3.2 (1.9-4.5)	12.8 (10.4-15.2)	84.0 (81.4-86.6)	2.4 (1.4-3.4)	12.6 (10.6-14.7)	85 (82.6-87.3)

		Because of lack of money, the household: <sup>1</sup>						The household: <sup>1</sup>						
		Relies on others for food			Uses food grants/banks			Is stressed about lack of money for food			Is stressed when no food for social occasions			
		Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	Often	Sometimes	Never	
By NZDep2006 quintile														
Males	1	0.9 (0.1–4.0)	5.0 (2.2–9.4)	94.1 (90.6–97.6)	0.1 (0.0–0.3)	1.2 (0.1–4.6)	98.8 (95.5–99.9)	1.2 (0.2–3.9)	4.9 (2.4–8.8)	93.9 (90.5–97.4)	0.7 (0.0–3.1)	6.4 (3.2–11.1)	93.0 (89.2–96.7)	
	2	0.3 (0.0–1.1)	2.6 (0.8–6.4)	97.1 (94.6–99.5)	0.1 (0.0–0.5)	0.7 (0.1–2.6)	99.2 (97.4–99.9)	1.7 (0.2–5.6)	10.1 (6.1–15.4)	88.3 (83.5–93.0)	0.0	10.1 (6.2–15.3)	89.9 (85.6–94.2)	
	3	0.2 (0.0–0.6)	4.8 (2.4–8.4)	95.0 (92.2–97.8)	0.3 (0.0–1.7)	3.7 (1.7–7.1)	96.0 (93.4–98.6)	1.1 (0.1–3.8)	7.1 (3.5–10.7)	91.8 (87.7–95.9)	0.7 (0.0–3.0)	5.9 (3.0–10.1)	93.4 (90.0–96.9)	
	4	0.3 (0.0–1.0)	5.7 (2.7–8.8)	94.0 (91.0–96.9)	0.5 (0.1–1.7)	7.8 (3.5–12.0)	91.8 (87.4–96.1)	2.3 (0.6–5.9)	12.3 (7.4–17.1)	85.5 (80.0–91.0)	2.8 (0.9–6.4)	7.1 (3.4–10.7)	90.2 (86.0–94.4)	
	5	2.7 (1.5–4.4)	14.4 (10.8–18.1)	82.9 (79.3–86.5)	0.9 (0.3–2.0)	13.4 (9.6–17.2)	85.7 (81.6–89.8)	6.5 (3.9–9.1)	19.1 (14.6–23.6)	74.4 (69.4–79.4)	4.9 (2.7–7.2)	16.2 (12.2–20.3)	78.8 (74.1–83.5)	
Females	1	1.1 (0.0–5.7)	3.7 (1.1–8.8)	95.2 (91.4–99.0)	0.0	0.2 (0.0–0.7)	99.8 (99.3–100.0)	0.2 (0.0–0.8)	7.0 (3.8–11.7)	92.8 (89.0–96.5)	0.1 (0.0–0.5)	8.9 (4.5–15.5)	91.0 (85.9–96.1)	
	2	0.3 (0.1–0.7)	3.5 (1.7–6.5)	96.1 (93.9–98.4)	0.1 (0.0–0.4)	0.5 (0.2–1.1)	99.4 (98.9–99.8)	2.4 (0.9–5.0)	10.0 (6.1–13.9)	87.6 (83.6–91.7)	2.6 (0.9–5.9)	8.4 (4.7–12.1)	89.0 (84.5–93.5)	
	3	1.1 (0.4–2.4)	6.4 (2.6–10.3)	92.5 (88.6–96.4)	0.2 (0.0–1.3)	3.8 (1.8–6.9)	96.0 (93.6–98.4)	3.2 (1.4–6.4)	16.4 (10.5–22.2)	80.4 (74.2–86.6)	2.8 (0.9–6.7)	11.3 (6.7–15.9)	85.9 (80.5–91.2)	
	4	1.3 (0.6–2.5)	11.8 (7.8–15.8)	86.9 (82.6–91.1)	0.9 (0.3–2.0)	8.3 (5.6–11.1)	90.8 (88.1–93.6)	4.6 (2.5–7.6)	18.7 (13.3–24.1)	76.7 (70.8–82.6)	4.0 (2.1–6.8)	19.7 (15.0–24.3)	76.4 (71.2–81.6)	
	5	3.6 (2.2–4.9)	20.3 (16.1–24.5)	76.1 (72.0–80.2)	1.6 (0.9–2.7)	16.4 (12.1–20.6)	82.0 (77.5–86.5)	10.6 (7.1–14.0)	19.6 (15.5–23.7)	69.8 (65.8–73.8)	5.8 (4.1–7.6)	25.4 (21.0–29.7)	68.8 (64.2–73.4)	

<sup>1</sup> Option 'Don't know' is not included in the analysis.

**Table 7.2:** Categories of household food security,<sup>1</sup> by age group, ethnic group, NZDep2006 and sex

		Fully/almost food secure (%, 95% CI)	Moderately food secure (%, 95% CI)	Low food security (%, 95% CI)
<b>Total population</b>		59.1 (56.7–61.5)	33.7 (31.5–35.8)	7.3 (6.1–8.4)
<b>By age group (years)</b>				
Males	15–18	52.4 (45.4–59.5)	38.5 (31.9–45.2)	9.0 (3.8–14.3)
	19–30	40.6 (32.6–48.6)	53.3 (45.2–61.3)	6.1 (3.0–9.2)
	31–50	60.4 (55.0–65.8)	32.1 (27.0–37.3)	7.5 (5.0–9.9)
	51–70	74.7 (69.2–80.2)	22.3 (17.0–27.6)	3.0 (1.3–4.8)
	71+	83.4 (79.6–87.3)	14.4 (10.8–18.0)	2.2 (1.0–3.3)
	Total	61.7 (58.4–65.1)	32.6 (29.5–35.8)	5.6 (4.3–6.9)
Females	15–18	45.9 (39.6–52.3)	47.3 (41.0–53.5)	6.8 (3.8–9.8)
	19–30	42.2 (34.9–49.6)	44.7 (37.3–52.1)	13.1 (8.8–17.3)
	31–50	50.5 (45.4–55.6)	38.3 (33.2–43.3)	11.2 (8.2–14.3)
	51–70	69.2 (64.1–74.2)	25.0 (20.3–29.7)	5.8 (3.3–8.4)
	71+	80.2 (76.6–83.8)	19.0 (15.5–22.5)	0.8 (0.1–1.4)
	Total	56.6 (53.7–59.5)	34.6 (31.9–37.3)	8.8 (7.2–10.4)
<b>Māori</b>				
Male	15–18	34.5 (17.7–51.2)	45.6 (27.6–63.6)	19.9 (7.3–32.5)
	19–30	26.8 (12.4–41.2)	60.4 (46.2–74.6)	12.8 (5.2–20.4)
	31–50	34.0 (23.3–44.6)	47.8 (37.9–57.7)	18.2 (11.3–25.1)
	51+	59.5 (48.0–71.0)	36.0 (24.5–47.5)	4.5 (1.4–7.6)
	Total	37.6 (31.0–44.2)	48.5 (42.0–55.0)	13.9 (10.5–17.3)
Female	15–18	33.9 (18.6–49.1)	50.1 (34.2–66.1)	16.0 (5.7–26.3)
	19–30	20.8 (14.2–27.5)	58.3 (48.8–67.8)	20.9 (14.1–27.6)
	31–50	35.0 (26.8–43.2)	44.0 (36.0–52.0)	21.0 (14.3–27.8)
	51+	46.1 (36.3–56.0)	42.2 (33.4–51.0)	11.7 (4.9–18.4)
	Total	33.3 (28.9–37.7)	48.3 (43.7–52.9)	18.4 (14.8–22)
<b>Pacific</b>				
Males	15–18	22.0 (5.9–38.2)	66.1 (47.5–84.6)	11.9 (2.1–32.0)
	19–30	38.1 (22.0–54.1)	43.0 (29.9–56.0)	19.0 (10.3–27.7)
	31–50	24.6 (16.1–33.1)	55.5 (45.0–65.9)	20.0 (13.4–26.6)
	51+	30.9 (18.0–43.8)	41.2 (27.9–54.4)	27.9 (13.6–42.3)
	Total	29.6 (22.5–36.7)	50.2 (43.2–57.2)	20.2 (15.0–25.4)
Females	15–18	28.0 (10.9–45.1)	63.2 (45.6–80.7)	8.8 (0.3–17.3)
	19–30	19.1 (11.5–26.8)	61.2 (51.7–70.6)	19.7 (12.2–27.3)
	31–50	20.3 (13.8–26.8)	51.4 (42.8–59.9)	28.3 (20.9–35.8)
	51+	20.8 (10.2–31.5)	55.6 (44.0–67.1)	23.6 (14.0–33.2)
	Total	21.0 (16.4–25.6)	56.6 (51.1–62.0)	22.4 (18.0–26.8)

		Fully/almost food secure (%, 95% CI)	Moderately food secure (%, 95% CI)	Low food security (%, 95% CI)
<b>NZEO</b>				
Males	15–18	57.4 (49.6–65.1)	36.1 (28.9–43.3)	6.6 (0.6–12.5)
	19–30	42.3 (33.3–51.3)	53.3 (44.3–62.4)	4.4 (1.0–7.8)
	31–50	64.7 (58.9–70.5)	29.7 (24.2–35.3)	5.6 (3.0–8.1)
	51+	79.4 (74.9–83.8)	18.7 (14.5–23.0)	1.9 (0.6–3.2)
	Total	65.4 (61.8–68.9)	30.6 (27.2–34.0)	4.0 (2.7–5.3)
Females	15–18	50.3 (43.4–57.1)	44.6 (37.8–51.5)	5.1 (2.4–7.8)
	19–30	47.6 (38.9–56.3)	41.9 (33.2–50.7)	10.5 (5.6–15.4)
	31–50	53.9 (48.2–59.7)	36.8 (31.1–42.5)	9.2 (5.8–12.7)
	51+	75.4 (71.4–79.3)	21.2 (17.5–24.9)	3.4 (1.5–5.3)
	Total	60.8 (57.6–64.0)	32.2 (29.2–35.2)	7.0 (5.3–8.7)
<b>By NZDep2006 quintile</b>				
Males	1	71.2 (64.9–77.6)	26.4 (20.0–32.8)	2.3 (0.2–4.5)
	2	65.3 (58.5–72.1)	31.9 (25.3–38.6)	2.7 (0.3–5.2)
	3	66.4 (58.9–73.9)	31.3 (24.0–38.6)	2.3 (0.6–4.0)
	4	60.4 (52.2–68.5)	32.0 (24.4–39.7)	7.6 (3.4–11.7)
	5	41.4 (34.0–48.8)	43.7 (36.9–50.6)	14.9 (11.4–18.4)
Females	1	67.3 (59.4–75.2)	31.6 (23.7–39.6)	1.0 (0.0–5.2)
	2	68.5 (63.3–73.6)	26.2 (21.4–31.0)	5.3 (2.3–8.4)
	3	59.4 (52.4–66.5)	35.5 (28.5–42.6)	5.1 (2.2–7.9)
	4	47.1 (41.6–52.5)	41.5 (36.6–46.5)	11.4 (7.7–15.2)
	5	39.9 (34.6–45.1)	38.8 (33.9–43.6)	21.4 (17.6–25.2)

1 Categories derived from Rasch analysis (see Chapter 7.2).