

**Table 8.47 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1): Does the household ever run out of money to buy food?]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		466 (337; 29)	202 (103; 99)	398 (225; 173)	443 (322;121)	133 (94; 39)	130 (108; 22)	304 (228; 76)	220 (174; 46)	318 (156;162)	1251 (740;511)	1203 (783;420)	2514 (1747;767)
<b>H/A</b>	<b>Yes</b>	-1.0 (1.4)	-1.5 (1.5)	-0.9* (1.5)	-0.8** (1.6)	-1.0 (1.9)	-1.4 (1.8)	-1.1 (1.3)	-1.2 (1.3)	-0.9** (1.3)	-0.9** (1.5)	-1.1 (1.5)	-1.0** (1.5)
	<b>No</b>	-0.7 (1.5)	-1.2 (1.3)	-0.6 (1.6)	-0.5 (1.4)	-0.8 (1.4)	-0.6 (1.3)	-1.1 (1.7)	-1.0 (1.4)	-0.3 (1.3)	-0.5 (1.4)	-1.2 (1.4)	-0.7 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4 (1.2)	-0.9 (1.2)	-0.5* (1.2)	-0.5** (1.1)	-0.3 (1.4)	-1.1 (1.3)	-0.1 (1.1)	-1.1 (1.0)	-0.7** (1.2)	-0.5** (1.3)	-0.7 (1.2)	-0.7** (1.2)
	<b>No</b>	-0.1 (1.3)	-0.7 (1.1)	-0.2 (1.3)	-0.1 (1.2)	-0.2 (1.2)	-1.1 (1.6)	-0.8 (1.2)	-1.1 (1.1)	0.1 (1.3)	-0.1 (1.3)	-0.8 (1.2)	-0.3 (1.3)
<b>W/H</b>	<b>Yes</b>	0.4 (1.2)	0.0 (1.3)	0.2 (1.2)	0.1 (1.3)	0.6 (1.5)	-0.3* (1.3)	-0.4 (1.2)	-0.4 (0.9)	-0.2** (1.0)	0.1** (1.3)	-0.1 (1.2)	0.0** (1.3)
	<b>No</b>	0.5 (0.9)	0.0 (1.2)	0.3 (1.3)	0.3 (1.2)	0.5 (1.4)	-1.0 (1.5)	-0.1 (1.2)	-0.7 (1.1)	0.3 (1.3)	0.3 (1.3)	-0.1 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for P&lt;0.05

\*\*Wilcoxon test for two samples; significant for P&lt;0.01

**Table 8.48** The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1): Does the household ever run out of money to buy food?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		411 (380; 31)	208 (106; 102)	416 (237; 179)	529 (376; 153)	153 (107; 46)	150 (117; 33)	339 (253; 86)	225 (176; 49)	351 (173; 178)	1368 (799; 569)	1347 (872; 475)	2782 (1925; 857)
<b>Energy (kJ)</b>	<b>Yes</b>	5021* (2297)	3761 (2265)	4001** (1537)	5445 (2210)	4177** (2078)	3826 (2062)	4153* (1885)	4498** (2252)	5484** (2088)	4762** (2185)	4604 (2182)	4669** (2184)
	<b>No</b>	6230 (3162)	4087 (1891)	4681 (1906)	5645 (2082)	5086 (1959)	4152 (2746)	4824 (2503)	5367 (2736)	6544 (2385)	5575 (2427)	4698 (2201)	5280 (2388)
<b>Zinc (mg)</b>	<b>Yes</b>	4.1** (2.4)	3.4** (2.4)	4.1** (2.2)	5.2** (3.2)	4.2** (2.4)	4.1 (3.4)	4.8* (3.7)	4.3** (2.9)	5.5** (3.0)	4.7** (3.0)	4.3** (2.9)	4.5** (3.0)
	<b>No</b>	6.3 (3.9)	4.1 (2.6)	4.9 (2.8)	5.9 (2.6)	5.2 (2.5)	4.4 (3.5)	5.8 (4.0)	5.2 (2.8)	7.3 (4.0)	6.0 (3.5)	4.8 (3.0)	5.6 (3.4)
<b>Vit.A (RE)</b>	<b>Yes</b>	306* (707)	222** (475)	409** (1380)	346** (1190)	356 (1222)	274 (699)	472 (697)	301* (859)	596** (1007)	458** (1120)	308 (865)	370** (981)
	<b>No</b>	677 (1319)	444 (1111)	452 (974)	322 (399)	620 (2739)	531 (1304)	441 (1063)	334 (610)	653 (1010)	594 (1330)	262 (393)	482 (1117)
<b>Iron (mg)</b>	<b>Yes</b>	4.5** (3.1)	3.4** (2.7)	4.7** (4.0)	6.0* (4.2)	5.0 (3.3)	3.7 (2.9)	8.7 (7.4)	4.6** (3.5)	5.9** (3.4)	5.1** (4.0)	5.6 (4.8)	5.4** (4.5)
	<b>No</b>	6.8 (4.1)	4.4 (3.3)	5.9 (3.1)	6.5 (3.6)	6.1 (3.9)	4.2 (2.9)	7.3 (5.4)	6.1 (3.1)	8.0 (3.6)	6.9 (3.8)	5.4 (3.8)	6.4 (3.9)
<b>Vit.C (mg)</b>	<b>Yes</b>	20.7** (33.5)	16.6 (23.4)	24.2** (39.9)	53.5 (295.8)	16.8 (28.6)	25.8 (84.4)	14.6* (31.7)	34.0 (91.1)	42.2** (49.9)	32.0** (70.5)	28.2 (172)	29.7** (138.9)
	<b>No</b>	48.3 (73.3)	21.7 (45.1)	44.8 (80.1)	50.8 (136.0)	44.0 (102.7)	37.9 (94.1)	29.4 (44.7)	34.9 (63.5)	64.3 (78.0)	51.4 (97.5)	32.0 (64.7)	44.9 (88.3)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	325* (367)	231** (244)	250* (206)	348* (336)	216 (198)	198 (181)	271 (267)	232 (196)	356** (273)	296** (264)	283 (306)	289** (289)
	<b>No</b>	429 (306)	311 (225)	311 (264)	390 (341)	260 (204)	204 (172)	249 (222)	282 (199)	574 (362)	412 (330)	284 (241)	369 (309)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.49** The number of items procured as indicated in table obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1): Does the household ever run out of money to buy food?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		414 (384; 30)	208 (105;103)	361 (204;157)	526 (375;151)	153 (107;46)	154 (121;33)	343 (255;88)	223 (173;50)	351 (173;178)	1328 (774;554)	1401 (1047;354)	2733 (1897; 836)
<b>Items In Proc</b>	<b>Yes</b>	34.4 (10.9)	14.0** (6.1)	31.8** (14.5)	34.4** (12.7)	20.3** (13.6)	22.6 (10.9)	15.8** (10.5)	31.8** (9.1)	58.0** (18.9)	36.9** (19.1)	27.1** (14.1)	30.9** (16.8)
	<b>No</b>	40.7 (19.9)	17.3 (8.8)	47.5 (23.4)	44.2 (18.9)	33.5 (19.6)	26.3 (12.0)	22.4 (13.9)	39.5 (12.4)	75.1 (20.7)	50.8 (27.3)	29.0 (17.2)	44.1 (26.5)
<b>Anim. In Proc</b>	<b>Yes</b>	7.5 (3.2)	2.8** (1.6)	7.6** (3.9)	7.0** (3.2)	4.7** (3.3)	4.9 (2.8)	3.6** (3.1)	6.8** (2.5)	12.9** (4.9)	8.3** (4.7)	5.8** (3.5)	6.7** (4.2)
	<b>No</b>	9.3 (5.4)	3.7 (2.3)	11.4 (5.7)	9.6 (4.7)	7.6 (4.7)	5.5 (3.1)	5.6 (3.9)	9.0 (3.4)	17.1 (5.0)	11.7 (6.6)	6.4 (4.0)	10.1 (6.3)
<b>Dairy In Proc</b>	<b>Yes</b>	2.1 (1.2)	0.8** (0.4)	1.6** (1.2)	1.8** (1.2)	1.0** (1.0)	0.9* (0.8)	0.7** (0.8)	1.4** (0.8)	3.2** (1.8)	2.1** (1.5)	1.4** (1.1)	1.6** (1.3)
	<b>No</b>	2.7 (1.7)	1.0 (0.5)	2.9 (1.9)	3.1 (1.8)	1.8 (1.6)	1.2 (0.9)	1.5 (1.5)	2.0 (1.1)	4.9 (2.2)	3.3 (2.3)	1.6 (1.4)	2.8 (2.1)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.50** The number of items in inventory as indicated in table obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1): Does the household ever run out of money to buy food?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		347 (331;16)	180 (88; 92)	151 (100; 51)	303 (247; 56)	140 (102; 38)	63 (50; 13)	331 (245; 86)	111 (92; 19)	66 (38; 28)	562 (378;184)	1128 (856;272)	1692 (1293;399)
<b>Items In Inv.</b>	<b>Yes</b>	9.6* (6.8)	3.3** (2.2)	7.9 (5.2)	8.3** (5.5)	7.3** (5.6)	6.9** (4.1)	6.8** (4.5)	6.3 (4.9)	13.6 (7.2)	9.2** (7.0)	7.3** (5.4)	7.8** (5.8)
	<b>No</b>	12.9 (6.9)	6.2 (6.7)	10.3 (9.5)	16.5 (9.7)	14.3 (12.9)	11.1 (2.4)	12.9 (9.4)	9.1 (6.8)	21.0 (17.7)	13.0 (12.7)	10.1 (7.4)	12.0 (10.6)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.7* (1.2)	0.5 (0.7)	1.1 (1.3)	0.8** (1.3)	1.3** (1.6)	0.6* (1.0)	1.0** (1.5)	0.6 (1.2)	1.6* (1.7)	1.2** (1.6)	0.8** (1.3)	0.9** (1.3)
	<b>No</b>	1.4 (1.5)	1.0 (2.0)	1.8 (2.9)	2.6 (2.5)	3.4 (3.7)	1.1 (1.0)	2.9 (2.7)	1.3 (1.9)	3.3 (4.3)	2.6 (3.4)	1.5 (1.9)	2.2 (2.8)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.4 (0.6)	0.3* (0.5)	0.3* (0.6)	0.4** (0.6)	0.4 (0.6)	0.2* (0.5)	0.3** (0.5)	0.3 (0.6)	0.5 (0.6)	0.4** (0.6)	0.3** (0.6)	0.4** (0.6)
	<b>No</b>	0.8 (0.9)	0.4 (0.6)	0.7 (1.1)	1.0 (1.1)	0.8 (1.1)	0.5 (0.5)	1.0 (1.2)	0.3 (0.6)	1.1 (1.9)	1.0 (1.3)	0.5 (0.7)	0.7 (1.1)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.51 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1a): Does the household ever run out of money to buy food (in the past 30 days)]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		362 (292; 70)	202 (84; 118)	379 (169; 210)	436 (256; 180)	115 (65; 50)	128 (90; 38)	260 (137; 123)	222 (140; 82)	277 (124; 153)	1178 (574; 604)	1203 (783; 420)	2381 (1357; 1024)
<b>H/A</b>	<b>Yes</b>	-1.0 (1.4)	-1.6 (1.6)	-1.0* (1.5)	-0.9* (1.5)	-1.2 (1.9)	-1.3 (1.8)	-1.2* (1.3)	-1.2 (1.3)	-0.9** (1.2)	-1.0** (1.5)	-1.1 (1.5)	-1.1** (1.5)
	<b>No</b>	-0.9 (1.8)	-1.2 (1.3)	-0.8 (1.4)	-0.6 (1.5)	-0.9 (1.6)	-1.1 (1.5)	-0.9 (1.5)	-1.0 (1.4)	-0.3 (1.3)	-0.6 (1.4)	-1.0 (1.5)	-0.8** (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4 (1.1)	-0.9 (1.2)	-0.5 (1.2)	-0.5** (1.1)	-0.2 (1.7)	-1.0 (1.2)	-1.1** (1.1)	-1.1 (0.9)	-0.7** (1.3)	-0.6** (1.3)	-0.8 (1.2)	-0.7 (1.2)
	<b>No</b>	-0.2 (1.3)	-0.8 (1.1)	-0.4 (1.2)	-0.1 (1.2)	-0.3 (1.0)	-1.3 (1.6)	-0.7 (1.1)	-1.0 (1.2)	-0.1 (1.3)	-0.2 (1.3)	-0.7 (1.1)	-0.4 (1.3)
<b>W/H</b>	<b>Yes</b>	0.3 (1.2)	0.1 (1.4)	0.2 (1.2)	0.0* (1.3)	0.8 (1.6)	-0.2** (1.3)	-0.5* (1.3)	-0.5 (0.9)	-0.2** (1.0)	0.1 (1.3)	0.0 (1.3)	0.0 (1.3)
	<b>No</b>	0.5 (1.1)	0.0 (1.2)	0.2 (0.3)	0.3 (1.3)	0.5 (1.3)	-0.8 (1.4)	-0.1 (1.2)	-0.5 (1.0)	0.2 (1.2)	0.2 (1.4)	-0.1 (1.1)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.52 The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1a): Does the household ever run out of money to buy food (in the past 30 days)]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		408 (326;82)	208 (87,121)	397 (177; 220)	522 (295; 227)	133 (78; 55)	148 (100; 48)	290 (154; 136)	225 (142; 83)	306 (138; 168)	1290 (625; 665)	1347 (872; 475)	2637 (1497;1140)
<b>Energy (kJ)</b>	<b>Yes</b>	4937** (2327)	3473** (2218)	3948** (1529)	5328* (2183)	4257 (2071)	3703 (2079)	4114 (1921)	4482 (2158)	5143** (1865)	4629** (2139)	4554 (2180)	4585 (2163)
	<b>No</b>	5866 (2585)	4242 (1940)	4462 (1803)	5742 (2169)	4690 (2413)	4165 (2509)	4289 (2009)	5077 (2764)	6655 (2405)	5443 (2456)	4717 (2168)	5140 (2367)
<b>Zinc (mg)</b>	<b>Yes</b>	4.0** (2.3)	3.2** (2.5)	4.0* (2.2)	5.0** (3.0)	4.3 (2.4)	3.9 (3.3)	4.8 (3.7)	4.1* (2.6)	5.2** (2.9)	4.6** (3.0)	4.2** (2.7)	4.3 (2.8)
	<b>No</b>	5.4 (3.3)	4.1 (2.5)	4.6 (2.6)	5.9 (3.0)	4.6 (2.7)	4.5 (3.8)	4.9 (3.4)	5.1 (3.3)	7.3 (3.9)	5.8 (3.4)	4.7 (3.0)	5.3 (3.3)
<b>Vit.A (RE)</b>	<b>Yes</b>	274** (628)	230** (519)	465** (1587)	289** (461)	408 (1409)	259 (714)	482* (620)	250 (691)	572** (960)	428** (1115)	293 (632)	350 (870)
	<b>No</b>	594 (1174)	403 (1026)	362 (863)	406 (1473)	555 (2518)	445 (1118)	340 (526)	364 (911)	575 (745)	539 (1214)	285 (1031)	433 (1148)
<b>Iron (mg)</b>	<b>Yes</b>	4.5** (3.1)	3.3** (2.9)	4.6** (4.3)	6.0 (4.1)	5.3 (3.4)	3.5 (2.9)	8.8 (7.7)	4.4** (3.0)	5.5** (3.4)	4.8** (3.9)	5.5 (4.7)	5.2 (4.4)
	<b>No</b>	5.9 (3.7)	4.3 (3.1)	5.4 (3.1)	6.4 (4.0)	5.1 (3.7)	4.2 (2.8)	7.1 (5.4)	5.9 (4.5)	7.9 (3.4)	6.6 (4.0)	5.4 (3.9)	6.1 (4.0)
<b>Vit.C (mg)</b>	<b>Yes</b>	19.8** (29.8)	15.5* (24.1)	23.8* (42.0)	56.7 (326)	15.0 (16.8)	27.4 (90.9)	12.2 (20.8)	37.4 (99.7)	40.7** (50.9)	30.9** (70.2)	29.9 (191)	30.3 (153)
	<b>No</b>	38.3 (65.9)	21.7 (42.1)	36.0 (69.1)	48.6 (138)	28.4 (55.2)	33.0 (80.1)	22.7 (44.0)	26.0 (52.7)	65.3 (79.6)	45.8 (92.3)	28.7 (71.7)	38.7 (84.7)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	309** (351)	235** (264)	243* (219)	331** (324)	207 (182)	181 (159)	276 (236)	223 (172)	346** (295)	287** (267)	274* (293)	279 (282)
	<b>No</b>	430 (395)	296 (214)	281 (217)	397 (353)	249 (206)	232 (217)	238 (288)	277 (229)	546 (353)	381 (313)	298 (300)	347 (310)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.53** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1a): Does the household ever run out of money to buy food (in the past 30 days)]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		411 (329; 82)	208 (86; 122)	343 (151; 192)	519 (295; 224)	132 (78; 54)	152 (104; 48)	293 (156; 137)	222 (140; 82)	306 (138; 168)	1249 (608; 641)	1337 (869; 468)	2586 (1477; 1109)
<b>Items In Proc</b>	<b>Yes</b>	34.2* (10.5)	14.0* (6.5)	31.0** (13.4)	33.8** (12.3)	17.2** (10.5)	23.0 (10.4)	15.7 (10.9)	31.2** (9.4)	56.2** (18.4)	35.9** (18.6)	27.2 (13.1)	30.8** (16.2)
	<b>No</b>	38.4 (17.2)	16.8 (8.3)	40.6 (18.6)	41.2 (17.7)	28.2 (16.4)	23.0 (12.9)	18.2 (12.4)	38.0 (11.8)	72.2 (19.8)	46.0 (24.6)	28.1 (17.0)	38.4 (23.5)
<b>Anim. In Proc</b>	<b>Yes</b>	7.5* (3.2)	2.8* (1.6)	7.2** (3.8)	6.9** (3.1)	3.9** (2.7)	4.9 (2.7)	3.6* (3.1)	6.7** (2.6)	12.5** (4.9)	7.9** (4.6)	5.8 (3.3)	6.7** (4.0)
	<b>No</b>	8.8 (4.7)	3.5 (2.2)	9.8 (4.6)	8.8 (4.4)	6.5 (4.0)	4.9 (3.3)	4.6 (3.6)	8.4 (3.3)	16.6 (4.9)	10.6 (6.0)	6.1 (4.0)	8.7 (5.7)
<b>Dairy In Proc</b>	<b>Yes</b>	2.1* (1.1)	0.8** (0.4)	1.4** (1.1)	1.8** (1.2)	0.8* (0.9)	0.9 (0.7)	0.6** (0.8)	1.4* (0.8)	3.2** (1.8)	2.0** (1.5)	1.4 (1.3)	1.6** (1.3)
	<b>No</b>	2.6 (1.6)	1.0 (0.5)	2.4 (1.5)	2.7 (1.7)	1.4 (1.3)	0.9 (0.9)	1.2 (1.3)	1.7 (1.1)	4.6 (2.2)	2.9 (2.1)	1.6 (1.3)	2.3 (1.9)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.54** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1a): Does the household ever run out of money to buy food (in the past 30 days)]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		345 (285; 60)	180 (73; 107)	147 (74; 73)	300 (197; 103)	123 (75; 48)	64 (41; 23)	282 (148; 134)	112 (74; 38)	52 (28; 24)	538 (298; 240)	1067 (697; 370)	1605 (995; 610)
<b>Items In Inv.</b>	<b>Yes</b>	9.0** (6.5)	3.3** (2.1)	7.4* (5.2)	7.6** (5.3)	6.5** (4.9)	7.8 (4.3)	6.6** (4.8)	6.4 (4.9)	13.1 (6.7)	8.7** (6.8)	7.0** (5.0)	7.5** (5.6)
	<b>No</b>	13.1 (7.4)	5.8 (6.3)	8.9 (5.3)	13.7 (8.5)	11.5 (7.9)	7.9 (4.0)	9.8 (7.5)	7.7 (6.0)	20.7 (18.5)	11.6 (10.2)	9.6 (7.1)	10.3 (8.5)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.6** (1.1)	0.5 (0.7)	0.9* (1.2)	0.7** (1.2)	1.0** (1.5)	0.8 (1.1)	0.9** (1.5)	0.6 (1.2)	1.4 (1.6)	1.1** (1.5)	0.6** (1.1)	0.8** (1.2)
	<b>No</b>	1.4 (1.7)	0.9 (1.9)	1.4 (1.5)	1.9 (2.2)	2.8 (2.2)	0.6 (0.8)	2.1 (2.3)	0.9 (1.6)	3.1 (4.5)	2.1 (2.7)	1.4 (1.8)	1.7 (2.2)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3* (0.6)	0.2* (0.5)	0.2** (0.5)	0.4** (0.6)	0.3** (0.6)	0.3 (0.5)	0.3** (0.5)	0.3 (0.6)	0.5 (0.6)	0.4** (0.6)	0.3** (0.7)	0.3** (0.6)
	<b>No</b>	0.6 (0.8)	0.4 (0.5)	0.6 (0.8)	0.7 (0.9)	0.6 (0.7)	0.3 (0.5)	0.7 (1.0)	0.2 (0.5)	1.2 (2.0)	0.8 (1.1)	0.5 (0.7)	0.6 (0.9)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire



**Table 8.55 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1b): Does the household ever run out of money to buy food (5 or more days in the past 30 days)]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		361 (240; 121)	202 (72; 130)	373 (163; 210)	436 (180; 256)	124 (67; 57)	128 (68; 60)	283 (151; 132)	221 (136; 85)	275 (78; 197)	1178 (449; 729)	1225 (706; 519)	2403 (1155;1248)
<b>H/A</b>	<b>Yes</b>	-1.0 (1.4)	-1.7* (1.6)	-0.9 (1.5)	-0.8 (1.5)	-1.3* (1.8)	-1.6** (1.6)	-1.0 (1.3)	-1.2 (1.2)	-1.0** (1.2)	-1.0** (1.5)	-1.1 (1.5)	-1.1** (1.5)
	<b>No</b>	-0.8 (1.6)	-1.2 (1.3)	-0.8 (1.4)	-0.7 (1.5)	-0.7 (1.7)	-0.7 (1.8)	-1.1 (1.5)	-0.9 (1.5)	-0.4 (1.3)	-0.6 (1.4)	-1.1 (1.5)	-0.8 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4 (1.2)	-1.0 (1.2)	-0.5 (1.2)	-0.5* (1.0)	-0.3 (1.5)	-1.4* (1.1)	-1.0 (1.0)	-1.1 (1.0)	-0.8** (1.3)	-0.6** (1.3)	-0.8 (1.1)	-0.7** (1.2)
	<b>No</b>	-0.2 (1.2)	-0.8 (1.2)	-0.4 (1.2)	-0.3 (1.2)	-0.2 (1.3)	-0.7 (1.6)	-0.8 (1.2)	-0.9 (1.2)	-0.2 (1.3)	-0.3 (1.3)	-0.7 (1.2)	-0.4 (1.3)
<b>W/H</b>	<b>Yes</b>	0.3 (1.2)	0.1 (1.3)	0.1 (1.2)	0.0* (1.2)	0.7 (1.6)	-0.5 (1.1)	-0.4 (1.2)	-0.5 (0.9)	-0.3** (1.0)	0.0* (1.3)	-0.1 (1.2)	0.0** (1.2)
	<b>No</b>	0.4 (1.2)	0.0 (1.3)	0.2 (1.3)	0.3 (1.4)	0.5 (1.3)	-0.3 (1.6)	-0.1 (1.3)	-0.4 (1.1)	0.2 (1.2)	0.2 (1.4)	0.0 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.56 The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1b): Does the household ever run out of money to buy food (5 or more days in the past 30 days)]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		405 (274; 131)	208 (75; 133)	391 (172; 219)	522 (207; 315)	142 (78; 64)	147 (77; 70)	314 (167; 147)	224 (137; 87)	304 (86; 218)	1288 (486; 802)	1369 (787; 582)	2657 (1273;1384)
<b>Energy (kJ)</b>	<b>Yes</b>	4839** (2354)	3274** (1985)	3926** (1540)	5285* (2241)	4192 (1958)	3741 (1969)	4057* (1975)	4424* (2026)	5102** (1812)	4435** (1987)	4476** (2213)	4460** (2129)
	<b>No</b>	5629 (2328)	4286 (2068)	4433 (1778)	5654 (2136)	4677 (2422)	4019 (2484)	4501 (1898)	5158 (2876)	6344 (2379)	5425 (2450)	4781 (2075)	5154 (2321)
<b>Zinc (mg)</b>	<b>Yes</b>	3.9** (2.4)	3.0** (2.2)	3.9* (2.1)	4.8** (3.0)	4.3 (2.3)	3.9 (3.0)	4.7* (3.8)	4.0** (2.6)	5.0** (2.8)	4.3** (2.7)	4.2** (2.8)	4.2** (2.8)
	<b>No</b>	5.0 (3.0)	4.1 (2.6)	4.5 (2.5)	5.8 (3.0)	4.5 (2.7)	4.3 (3.9)	5.3 (3.4)	5.2 (3.2)	6.8 (3.7)	5.7 (3.4)	4.7 (2.9)	5.3 (3.2)
<b>Vit.A (RE)</b>	<b>Yes</b>	240** (415)	235* (543)	463* (1601)	296* (501)	431 (1423)	349 (1000)	535** (789)	200 (443)	415** (508)	405** (1138)	306 (647)	343** (869)
	<b>No</b>	540 (1213)	385 (985)	318 (654)	369 (1264)	469 (2329)	403 (992)	352 (539)	441 (1113)	642 (944)	541 (1187)	278 (956)	430 (1104)
<b>Iron (mg)</b>	<b>Yes</b>	4.4** (3.1)	3.2** (2.8)	4.5** (4.2)	5.8* (4.0)	5.1 (3.2)	3.5 (2.7)	9.3* (8.1)	4.3** (3.1)	5.1** (3.1)	4.6** (3.9)	5.6 (5.1)	5.3** (4.7)
	<b>No</b>	5.3 (3.4)	4.3 (3.1)	5.4 (3.1)	6.4 (4.1)	5.1 (3.7)	4.0 (3.1)	7.3 (5.5)	6.0 (4.3)	7.5 (3.6)	6.4 (4.0)	5.4 (4.0)	6.0 (4.0)
<b>Vit.C (mg)</b>	<b>Yes</b>	18.9** (29.5)	14.9 (22.9)	23.5* (43.3)	55.9 (377)	13.9 (17.5)	24.8 (86.6)	13.7 (34.2)	33.8 (83.0)	39.8* (46.6)	27.4** (54.6)	27.8* (197)	27.7** (159)
	<b>No</b>	33.2 (55.8)	21.4 (41.1)	36.0 (68.8)	51.4 (143)	36.4 (82.6)	33.5 (88.4)	20.1 (34.3)	32.4 (90.3)	59.6 (75.5)	45.8 (97.0)	30.9 (80.5)	39.5 (90.7)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	304** (369)	246* (279)	235* (206)	320** (343)	223 (183)	184 (155)	287* (231)	220* (178)	305** (234)	263** (243)	275* (299)	270** (279)
	<b>No</b>	394 (349)	284 (210)	283 (223)	386 (333)	216 (194)	212 (201)	245 (291)	281 (218)	521 (372)	379 (319)	295 (288)	344 (309)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.57** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1b): Does the household ever run out of money to buy food (5 or more days in the past 30 days)]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		408 (276; 132)	208 (74; 134)	338 (145; 193)	519 (207; 312)	141 (78; 63)	151 (77; 74)	317 (169; 148)	222 (138; 84)	304 (86; 218)	1248 (466; 782)	1360 (784; 576)	2608 (1250;1358)
<b>Items In Proc</b>	<b>Yes</b>	33.2** (10.4)	13.5** (6.4)	30.4** (13.2)	32.7** (11.8)	17.2** (10.4)	21.2* (10.5)	15.2** (10.4)	31.1** (9.5)	51.8** (17.0)	33.5** (16.7)	25.5** (12.9)	28.5** (14.9)
	<b>No</b>	39.1 (14.6)	16.9 (8.2)	40.9 (18.4)	39.9 (16.7)	27.9 (15.4)	25.1 (11.6)	19.7 (12.0)	37.9 (11.7)	69.7 (19.7)	45.3 (24.0)	29.9 (16.2)	38.8 (22.4)
<b>Anim. In Proc</b>	<b>Yes</b>	7.2** (3.1)	2.8* (1.6)	7.2** (3.6)	6.7** (3.1)	3.8** (2.7)	4.8 (2.7)	3.4** (3.0)	6.6** (2.5)	11.4** (4.8)	7.5** (4.3)	5.4** (3.2)	6.2** (3.8)
	<b>No</b>	8.8 (4.1)	3.5 (2.1)	9.8 (4.7)	8.4 (4.2)	6.6 (3.6)	5.2 (3.0)	4.9 (3.4)	8.7 (3.3)	15.9 (4.9)	10.4 (5.9)	6.5 (3.8)	8.7 (5.4)
<b>Dairy In Proc</b>	<b>Yes</b>	2.0** (1.2)	0.8** (0.4)	1.4** (1.1)	1.7** (1.1)	0.8** (0.9)	0.8 (0.7)	0.7** (0.8)	1.3** (0.7)	2.8** (1.8)	1.8** (1.4)	1.3** (1.0)	1.5** (1.2)
	<b>No</b>	2.6 (1.4)	1.0 (0.5)	2.4 (1.5)	2.5 (1.6)	1.3 (1.2)	1.0 (0.9)	1.1 (1.2)	1.8 (1.2)	4.4 (2.1)	2.9 (2.0)	1.6 (1.3)	2.3 (1.8)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.58** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 1b): Does the household ever run out of money to buy food (5 or more days in the past 30 days)]

Para-Meter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		342 (242; 100)	180 (64; 116)	148 (76; 72)	300 (141; 159)	132 (75; 57)	64 (31; 33)	306 (161; 145)	112 (77; 35)	52 (19; 33)	548 (251; 297)	1088 (635; 453)	1636 (886; 750)
<b>Items In Inv.</b>	<b>Yes</b>	8.6** (6.4)	3.1** (1.9)	7.4* (5.2)	6.9** (5.0)	6.6** (4.6)	6.3** (3.5)	6.5** (4.4)	6.3 (4.6)	12.4 (4.9)	8.3** (6.6)	6.6** (4.6)	7.1** (5.3)
	<b>No</b>	12.3 (7.2)	5.7 (6.2)	9.1 (5.2)	12.3 (7.8)	10.5 (7.7)	9.2 (4.3)	9.7 (7.3)	7.9 (6.5)	19.3 (16.6)	11.3 (9.7)	9.6 (6.8)	10.3 (8.1)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.6** (1.1)	0.4* (0.6)	1.0 (1.2)	0.6** (1.1)	1.1** (1.5)	0.5* (0.8)	0.9** (1.4)	0.6 (1.0)	0.9* (1.0)	1.0** (1.5)	0.6** (1.0)	0.7** (1.2)
	<b>No</b>	1.2 (1.5)	0.9 (1.8)	1.3 (1.6)	1.6 (2.0)	2.4 (2.2)	1.0 (1.1)	2.0 (2.3)	1.0 (1.8)	2.9 (4.0)	1.9 (2.5)	1.3 (1.8)	1.6 (2.1)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3* (0.5)	0.2** (0.4)	0.3 (0.5)	0.4** (0.6)	0.4 (0.6)	0.2 (0.4)	0.3** (0.5)	0.3 (0.5)	0.5 (0.6)	0.3** (0.6)	0.3** (0.5)	0.3** (0.5)
	<b>No</b>	0.6 (0.8)	0.4 (0.6)	0.5 (0.8)	0.6 (0.8)	0.5 (0.7)	0.4 (0.5)	0.6 (1.0)	0.3 (0.8)	1.0 (1.7)	0.7 (1.1)	0.5 (0.7)	0.6 (0.9)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.59** The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [Yes (n); No (n)]		362 (329; 33)	202 (92; 110)	395 (214; 181)	445 (301; 144)	136 (84; 52)	130 (97; 33)	300 (203; 97)	220 (136; 84)	317 (153; 164)	1249 (669; 580)	1258 (940; 318)	2507 (1609; 898)
<b>H/A</b>	<b>Yes</b>	-1.0 (1.4)	-1.5 (1.5)	-1.0** (1.5)	-0.8 (1.5)	-1.0 (1.8)	-1.3 (1.8)	-0.1 (1.4)	-1.1 (1.4)	-0.9** (1.3)	-1.0** (1.4)	-1.1 (1.5)	-1.0** (1.5)
	<b>No</b>	-0.7 (1.7)	-1.2 (1.3)	-0.6 (1.6)	-0.6 (1.6)	-0.9 (1.7)	-0.9 (1.6)	-1.0 (1.5)	-1.1 (1.3)	-0.2 (1.2)	-0.5 (1.5)	-1.2 (1.4)	-0.7 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4 (1.2)	-1.0 (1.1)	-0.5** (1.2)	-0.5** (1.1)	-0.3 (1.3)	-1.1 (1.2)	-1.0* (1.0)	-1.0 (1.1)	-0.7** (1.3)	-0.6** (1.2)	-0.7 (1.1)	-0.7** (1.2)
	<b>No</b>	-0.1 (1.3)	-0.7 (1.2)	-0.2 (1.3)	-0.1 (1.2)	-0.2 (1.5)	-1.0 (1.7)	-0.7 (1.2)	-1.1 (1.0)	0.0 (1.3)	-0.1 (1.3)	-0.8 (1.2)	-0.4 (1.3)
<b>W/H</b>	<b>Yes</b>	0.3 (1.2)	0.0 (1.3)	0.1 (1.2)	0.1* (1.3)	0.5 (1.4)	-0.3 (1.3)	-0.5* (1.2)	-0.4 (0.9)	-0.2** (1.2)	0.1** (1.3)	-0.1 (1.3)	0.0** (1.3)
	<b>No</b>	0.6 (1.0)	0.0 (1.3)	0.3 (1.4)	0.3 (1.3)	0.6 (1.6)	-0.5 (1.5)	-0.1 (1.3)	-0.6 (1.0)	0.3 (1.2)	0.3 (1.4)	-0.1 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

**Table 8.60** The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		408 (367; 41)	208 (97; 111)	413 (226; 187)	531 (347; 184)	156 (99; 57)	149 (106; 43)	335 (223; 112)	225 (140; 85)	350 (170; 180)	1365 (724; 641)	1410 (1051;359)	2775 (1775;1000)
<b>Energy (kJ)</b>	<b>Yes</b>	5026* (2341)	3648* (2259)	3959** (1505)	5431 (2251)	4325 (2279)	3698 (2011)	4173 (1907)	4350* (2000)	5445** (2098)	4756** (2205)	4587 (2186)	4656** (2195)
	<b>No</b>	5957 (2710)	4159 (1311)	4713 (1911)	5633 (2010)	4764 (1944)	4286 (2674)	4583 (2370)	5242 (2841)	6583 (2380)	5504 (2419)	4722 (2188)	5223 (2367)
<b>Zinc (mg)</b>	<b>Yes</b>	4.0** (2.4)	3.2** (2.4)	4.0** (2.3)	5.2** (3.3)	4.3 (2.4)	3.9 (3.1)	4.7* (3.6)	4.1** (2.7)	5.5** (3.1)	4.7** (3.1)	4.3** (2.8)	4.5** (2.9)
	<b>No</b>	6.2 (3.5)	4.2 (2.6)	4.9 (2.6)	5.7 (2.5)	4.7 (2.5)	4.6 (4.2)	5.7 (4.2)	5.1 (3.2)	7.3 (3.9)	5.9 (3.4)	4.9 (3.2)	5.5 (3.4)
<b>Vit.A (RE)</b>	<b>Yes</b>	303** (715)	221* (488)	407** (1412)	364* (1239)	450 (1973)	266 (716)	488 (725)	283 (755)	535** (835)	481** (1302)	300 (825)	374** (1050)
	<b>No</b>	595 (1163)	427 (1070)	459 (955)	294 (361)	424 (1448)	479 (1170)	426 (954)	348 (897)	716 (1146)	554 (1107)	300 (693)	463 (986)
<b>Iron (mg)</b>	<b>Yes</b>	4.5** (3.1)	3.3** (2.8)	4.6** (4.0)	6.2 (4.4)	5.4 (3.6)	3.6 (2.9)	8.5 (7.0)	4.4** (3.2)	5.9** (3.4)	5.2** (4.1)	5.5 (4.6)	5.4** (4.4)
	<b>No</b>	6.6 (4.0)	4.4 (3.2)	6.0 (3.3)	6.2 (3.4)	5.3 (3.6)	4.2 (2.9)	8.0 (7.1)	5.7 (3.8)	7.9 (3.7)	6.7 (3.8)	5.7 (4.8)	6.3 (4.2)
<b>Vit.C (mg)</b>	<b>Yes</b>	20.3** (29.7)	16.8 (23.2)	22.4** (39.3)	38.8 (106)	25.5 (66.6)	19.8 (53.2)	15.9 (34.7)	36.4 (100)	39.7** (43.2)	30.9** (67.8)	24.1 (62.8)	26.8** (65.0)
	<b>No</b>	51.6 (87.2)	21.1 (43.9)	45.7 (78.9)	78.5 (415)	26.7 (60.2)	49.2 (137)	21.9 (33.7)	30.5 (53.6)	65.4 (80.7)	50.2 (97.3)	43.8 (290)	47.9 (190)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	320** (367)	236** (251)	243** (206)	351* (342)	222 (197)	184 (166)	272 (229)	235 (199)	352** (248)	296** (260)	283 (303)	288** (286)
	<b>No</b>	466 (332)	301 (222)	319 (259)	379 (328)	236 (205)	229 (208)	250 (305)	256 (194)	584 (392)	402 (336)	285 (269)	360 (319)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.61** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		411 (370; 41)	208 (97; 111)	357 (193; 164)	528 (346; 182)	156 (99; 57)	153 (110; 43)	339 (225; 114)	223 (139; 84)	350 (170; 180)	1324 (702; 622)	1401 (1047; 354)	2725 (1749; 976)
<b>Items In Proc</b>	<b>Yes</b>	34.2* (10.9)	13.6** (5.9)	31.8** (14.2)	34.5** (13.4)	19.7** (13.4)	21.9* (11.1)	16.0* (10.9)	31.0** (9.6)	58.1** (18.2)	36.7** (19.3)	27.1 (14.1)	31.0** (17.1)
	<b>No</b>	42.1 (19.6)	17.4 (8.6)	47.0 (23.3)	42.2 (17.5)	32.5 (18.5)	26.7 (10.9)	19.9 (13.1)	38.0 (10.3)	74.7 (21.2)	49.3 (26.6)	29.0 (17.2)	42.0 (25.5)
<b>Anim. In Proc</b>	<b>Yes</b>	7.4** (3.2)	2.7** (1.5)	7.6** (2.9)	7.1** (3.4)	4.5** (3.3)	4.8 (2.8)	3.7* (3.1)	6.6** (2.6)	13.0** (4.9)	8.3** (4.8)	5.8* (3.5)	6.8** (4.3)
	<b>No</b>	9.7 (5.2)	3.7 (2.2)	11.2 (5.8)	9.0 (4.4)	7.4 (4.4)	5.5 (3.0)	4.9 (3.8)	8.4 (2.9)	16.9 (5.1)	11.2 (6.4)	6.4 (4.0)	9.5 (6.1)
<b>Dairy In Proc</b>	<b>Yes</b>	2.1** (1.2)	0.8** (0.5)	1.6** (1.2)	1.8** (1.2)	0.9** (0.9)	0.9 (0.7)	0.7** (0.9)	1.3** (0.7)	3.2** (1.8)	2.1** (1.6)	1.4* (1.1)	1.6** (1.3)
	<b>No</b>	3.0 (1.7)	1.0 (0.5)	2.9 (1.9)	2.9 (1.7)	1.8 (1.5)	1.0 (1.0)	1.2 (1.4)	1.8 (1.1)	4.9 (2.1)	3.2 (2.2)	1.6 (1.4)	2.6 (2.1)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples significant for  $P < 0.01$

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.62** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		343 (316; 27)	180 (86; 94)	149 (97; 52)	304 (234; 70)	144 (94; 50)	64 (44; 20)	327 (216; 111)	111 (72; 39)	66 (42; 24)	550 (345; 215)	1128 (856; 272)	1688 (1201; 487)
<b>Items In Inv.</b>	<b>Yes</b>	9.4 (6.7)	3.2** (2.2)	8.0 (5.3)	7.9** (5.3)	7.0** (5.5)	6.8** (3.9)	7.0** (5.1)	6.1* (4.9)	15.7 (11.2)	9.2** (7.5)	7.3** (5.4)	7.9** (6.1)
	<b>No</b>	12.1 (7.5)	6.2 (6.6)	10.0 (9.5)	15.9 (9.0)	13.3 (11.8)	10.0 (3.9)	11.2 (8.5)	8.2 (5.9)	18.5 (16.2)	12.4 (11.5)	10.1 (7.4)	11.1 (9.5)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.7 (1.2)	0.5* (0.7)	1.2 (1.3)	0.8** (1.3)	1.3** (1.7)	0.5* (0.8)	1.0** (1.6)	0.6* (1.2)	2.1 (3.1)	1.2** (1.8)	0.8** (1.3)	0.9** (1.4)
	<b>No</b>	1.3 (1.6)	1.0 (2.0)	1.6 (2.9)	2.4 (2.4)	3.0 (3.4)	1.2 (1.2)	2.4 (2.6)	1.0 (1.5)	2.6 (3.4)	2.4 (3.1)	1.5 (1.9)	1.9 (2.6)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3* (0.6)	0.3 (0.5)	0.4 (0.6)	0.4** (0.6)	0.4 (0.6)	0.2 (0.4)	0.3** (0.6)	0.3 (0.6)	0.7 (1.3)	0.4** (0.8)	0.3** (0.6)	0.4** (0.6)
	<b>No</b>	0.7 (1.0)	0.4 (0.6)	0.6 (1.0)	0.9 (1.0)	0.7 (1.0)	0.4 (0.6)	0.8 (1.1)	0.3 (0.6)	0.9 (1.4)	0.8 (1.2)	0.5 (0.7)	0.6 (1.0)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire



**Table 8.63 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2a): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal in the past 5 days?]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		357 (284; 73)	201 (75; 126)	382 (177; 205)	435 (237; 198)	115 (65; 50)	126 (79; 47)	261 (146; 115)	221 (120; 101)	274 (132; 142)	1174 (546; 628)	1198 (769; 429)	2372 (1315; 1057)
<b>H/A</b>	<b>Yes</b>	-1.0* (1.4)	-1.6 (1.6)	-0.9 (1.5)	-0.8 (1.4)	-1.0 (1.8)	-1.3 (1.8)	-1.1 (1.3)	-1.2 (1.3)	-1.1** (1.2)	-1.0** (1.5)	-1.1 (1.5)	-1.1** (1.5)
	<b>No</b>	-0.7 (1.6)	-1.2 (1.3)	-0.9 (1.4)	-0.6 (1.6)	-1.1 (1.8)	-1.1 (1.7)	-1.1 (1.5)	-1.0 (1.4)	-0.2 (1.3)	-0.6 (1.5)	-1.1 (1.5)	-0.8 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4* (1.1)	-1.0 (1.1)	-0.5 (1.3)	-0.5** (1.1)	-0.1 (1.6)	-1.1 (1.2)	-1.1** (1.0)	-1.1 (1.0)	-0.8** (1.3)	-0.6** (1.3)	-0.8 (1.1)	-0.7** (1.2)
	<b>No</b>	-0.1 (1.3)	-0.8 (1.2)	-0.4 (1.2)	-0.2 (1.2)	-0.3 (1.2)	-1.0 (1.6)	-0.8 (1.2)	-1.0 (1.2)	0 (1.2)	-0.3 (1.3)	-0.7 (1.2)	-0.4 (1.3)
<b>W/H</b>	<b>Yes</b>	0.3 (1.2)	0.0 (1.4)	0.1 (1.2)	0.0** (1.2)	0.7 (1.6)	-0.3 (1.3)	-0.6** (1.2)	-0.4 (0.9)	-0.1* (1.1)	0.1* (1.3)	-0.1 (1.3)	0.0* (1.3)
	<b>No</b>	0.5 (1.3)	0.0 (1.2)	0.2 (1.3)	0.3 (1.3)	0.6 (1.3)	-0.4 (1.4)	-0.1 (1.2)	-0.5 (1.0)	0.2 (1.2)	0.2 (1.3)	0.0 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.64** The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2a): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal in the past 5 days?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		402 (313; 89)	207 (80; 127)	400 (187; 213)	521 (269; 252)	133 (77; 56)	146 (88; 58)	289 (162; 127)	225 (123; 102)	304 (145; 159)	1285 (590; 695)	1342 (854; 488)	2627 (1444; 1183)
<b>Energy (kJ)</b>	<b>Yes</b>	4879** (2301)	3260** (1827)	3981* (1507)	5330* (2206)	4169 (2170)	3405* (1673)	4187 (1959)	4359* (2043)	5274** (1914)	4624** (2086)	4494* (2152)	4547** (2126)
	<b>No</b>	5766 (2543)	4338 (2154)	4447 (1832)	5702 (2143)	4856 (2321)	4477 (2778)	4153 (1979)	5055 (2546)	6515 (2392)	5373 (2434)	4763 (2192)	5121 (2356)
<b>Zinc (mg)</b>	<b>Yes</b>	3.9** (2.4)	3.0** (2.1)	4.0* (2.1)	5.0** (3.0)	4.3 (2.5)	3.5 (2.5)	4.7 (3.4)	4.1* (2.7)	5.4** (3.0)	4.6** (2.9)	4.1** (2.7)	4.3** (2.8)
	<b>No</b>	5.2 (3.1)	4.2 (2.7)	4.6 (2.7)	5.8 (3.0)	4.7 (2.6)	4.9 (4.4)	4.9 (3.5)	5.0 (3.0)	7.0 (3.9)	5.7 (3.4)	4.8 (3.0)	5.3 (3.3)
<b>Vit.A (RE)</b>	<b>Yes</b>	246** (418)	234* (531)	452** (1547)	308** (508)	525 (2231)	176 (318)	474 (621)	275 (747)	553** (898)	459** (1319)	280 (495)	353** (929)
	<b>No</b>	652 (1462)	393 (1006)	373 (876)	377 (1390)	409 (1463)	540 (1304)	338 (509)	318 (819)	596 (812)	513 (1028)	308 (1147)	428 (1083)
<b>Iron (mg)</b>	<b>Yes</b>	4.3** (3.0)	3.1** (2.4)	4.6** (4.2)	6.0 (4.0)	5.4 (3.6)	3.2* (2.5)	8.3 (6.5)	4.4* (3.1)	5.7** (3.4)	4.9** (3.8)	5.4 (4.3)	5.2** (4.2)
	<b>No</b>	6.0 (3.6)	4.4 (3.3)	5.5 (3.2)	6.4 (4.2)	5.0 (3.5)	4.5 (3.3)	7.3 (6.3)	5.6 (4.1)	7.7 (3.6)	6.4 (4.1)	5.4 (4.2)	6.0 (4.2)
<b>Vit.C (mg)</b>	<b>Yes</b>	19.3** (29.0)	14.9 (22.2)	23.3* (42.0)	36.7 (93.9)	17.2 (32.4)	19.2 (54.6)	15.1 (26.6)	35.4 (105)	40.4** (48.9)	29.1** (63.1)	23.4 (58.4)	25.7** (60.4)
	<b>No</b>	38.1 (65.0)	21.7 (42.1)	36.7 (70.0)	71.1 (363)	33.8 (83.1)	43.2 (121)	19.7 (41.8)	31.3 (53.7)	64.0 (80.5)	46.6 (97.3)	40.5 (254)	44.1 (179)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	306** (366)	228** (238)	240* (214)	327** (337)	228 (201)	168 (141)	265 (231)	236 (181)	349** (257)	284** (254)	274* (302)	278** (283)
	<b>No</b>	391 (308)	297 (235)	284 (220)	394 (338)	223 (187)	226 (216)	243 (293)	254 (214)	550 (376)	375 (318)	289 (274)	340 (303)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.65** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2a): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal in the past 5 days?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		405 (315; 90)	207 (80; 127)	345 (162; 183)	518 (268; 250)	132 (77; 55)	150 (91; 59)	292 (164; 128)	223 (122; 101)	304 (145; 159)	1243 (575; 668)	1333 (849; 484)	2576 (1424; 1152)
<b>Items In Proc</b>	<b>Yes</b>	33.6** (10.4)	13.8* (6.2)	30.9** (13.2)	34.0** (13.5)	18.1** (11.9)	21.9 (10.3)	16.0 (11.3)	30.0** (10.3)	55.8** (17.5)	36.1** (18.7)	26.9 (13.6)	30.6** (16.5)
	<b>No</b>	40.2 (16.5)	16.8 (8.4)	41.4 (18.7)	40.2 (16.5)	27.5 (15.4)	24.9 (12.3)	17.9 (12.2)	38.1 (10.1)	72.9 (20.0)	45.2 (24.4)	28.7 (16.3)	38.3 (22.9)
<b>Anim. In Proc</b>	<b>Yes</b>	7.3** (3.2)	2.8** (1.6)	7.3** (3.5)	7.0** (3.5)	4.2** (3.0)	4.8 (2.6)	3.7 (3.2)	6.4** (2.8)	12.4** (4.7)	8.1** (4.6)	5.7* (3.4)	6.7** (4.1)
	<b>No</b>	9.1 (4.5)	3.6 (2.2)	9.9 (4.9)	8.5 (4.1)	6.3 (3.9)	5.1 (3.2)	4.5 (3.6)	8.5 (2.9)	16.7 (4.9)	10.4 (6.0)	6.2 (3.8)	8.6 (5.6)
<b>Dairy In Proc</b>	<b>Yes</b>	2.1** (1.1)	0.8** (0.5)	1.5** (1.1)	1.8** (1.2)	0.8** (0.9)	0.9 (0.7)	0.7** (0.8)	1.4** (0.9)	3.0** (1.7)	2.0** (1.5)	1.3** (1.1)	1.6** (1.3)
	<b>No</b>	2.7 (1.7)	1.0 (0.5)	2.4 (1.6)	2.6 (1.6)	1.4 (1.2)	0.9 (0.9)	1.2 (1.3)	1.7 (1.0)	4.8 (2.1)	2.8 (2.1)	1.6 (1.3)	2.3 (1.9)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.66** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2a): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal in the past 5 days?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		340 (272; 68)	179 (71; 108)	148 (77; 71)	301 (186; 115)	123 (74; 49)	64 (38; 26)	280 (156; 124)	112 (61; 51)	55 (35; 20)	539 (285; 254)	1063 (685; 378)	1502 (970; 632)
<b>Items In Inv.</b>	<b>Yes</b>	8.8** (6.4)	3.3** (2.2)	8.1 (5.6)	7.5** (5.1)	6.7** (5.0)	7.1 (3.9)	6.8** (5.3)	5.9 (4.4)	12.9* (6.1)	8.8** (6.7)	7.0** (5.0)	7.5** (5.6)
	<b>No</b>	13.2 (7.5)	5.8 (6.3)	8.3 (5.0)	13.3 (8.3)	11.0 (8.0)	8.9 (4.3)	9.7 (7.4)	7.8 (6.1)	23.1 (19.7)	11.3 (10.2)	9.5 (7.0)	10.3 (8.4)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.6** (1.1)	0.5 (0.6)	1.3 (1.5)	0.7** (1.2)	1.2** (1.7)	0.5 (0.8)	1.0** (1.5)	0.5 (0.8)	1.3* (1.4)	1.1** (1.6)	0.6** (1.1)	0.8** (1.3)
	<b>No</b>	1.4 (1.7)	0.9 (1.9)	1.0 (1.3)	1.8 (2.1)	2.4 (2.2)	1.0 (1.2)	2.1 (2.4)	1.0 (1.7)	3.8 (4.8)	1.9 (2.6)	1.4 (1.8)	1.6 (2.2)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3* (0.6)	0.3 (0.6)	0.4 (0.7)	0.4** (0.6)	0.4 (0.6)	0.2 (0.4)	0.3** (0.5)	0.3 (0.5)	0.5* (0.6)	0.4** (0.6)	0.3** (0.5)	0.3** (0.6)
	<b>No</b>	0.6 (0.8)	0.4 (0.6)	0.4 (0.7)	0.7 (0.9)	0.5 (0.7)	0.4 (0.6)	0.7 (1.0)	0.3 (0.7)	1.4 (2.1)	0.7 (1.1)	0.5 (0.7)	0.6 (0.9)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.67 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2b): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal 5 or more times in the past 30 days?]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b>		358	202	370	435	119	127	273	221	268	1165	1208	2373
<b>[Yes (n); No (n)]</b>		(249; 109)	(76; 126)	(154; 216)	(183; 252)	(66; 53)	(73; 54)	(159; 114)	(119; 102)	(84; 184)	(450; 715)	(713; 495)	(1163; 1210)
<b>H/A</b>	<b>Yes</b>	-1.1* (1.5)	-1.5 (1.6)	-0.9 (1.5)	-0.9 (1.5)	-1.1 (1.7)	-1.5 (1.6)	-1.0 (1.4)	-1.2 (1.2)	-1.1** (1.3)	-1.0** (1.4)	-1.1 (1.5)	-1.1** (1.5)
	<b>No</b>	-0.7 (1.4)	-1.3 (1.3)	-0.9 (1.4)	-0.7 (1.5)	-0.9 (1.8)	-0.9 (1.9)	-1.2 (1.5)	-1.0 (1.4)	-0.4 (1.3)	-0.6 (1.5)	-1.1 (1.5)	-0.8 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4 (1.2)	-1.0 (1.1)	-0.5 (1.2)	-0.5* (1.1)	-0.2 (1.6)	-1.2 (1.1)	-1.0 (1.1)	-1.1 (1.0)	-0.9** (1.4)	-0.6** (1.3)	-0.8 (1.2)	-0.7** (1.2)
	<b>No</b>	-0.2 (1.1)	-0.8 (1.2)	-0.4 (1.2)	-0.3 (1.2)	-0.2 (1.2)	-0.9 (1.6)	-0.8 (1.2)	-1.0 (1.2)	-0.1 (1.3)	-0.3 (1.3)	-0.7 (1.2)	-0.5 (1.3)
<b>W/H</b>	<b>Yes</b>	0.4 (1.2)	0.0 (1.4)	0.1 (1.1)	0.0 (1.2)	0.7 (1.6)	-0.4 (1.3)	-0.5* (1.2)	-0.4 (0.9)	-0.2** (1.1)	0.1* (1.3)	-0.1 (1.2)	0.0** (1.3)
	<b>No</b>	0.4 (1.2)	0.0 (1.2)	0.2 (1.3)	0.2 (1.3)	0.5 (1.2)	-0.4 (1.5)	-0.1 (1.3)	-0.5 (1.0)	0.2 (1.2)	0.2 (1.3)	0.0 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

**Table 8.68** The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2b): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal 5 or more times in the past 30 days?]

Para- Meter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [ Yes (n); No (n) ]</b>		403 (278; 125)	208 (81; 127)	388 (164; 224)	521 (206; 315)	136 (78; 58)	146 (82; 64)	301 (173; 128)	225 (122; 103)	295 (92; 203)	1274 (486; 788)	1349 (790; 559)	2623 (1276; 1347)
<b>Energy (kJ)</b>	<b>Yes</b>	4930* (2383)	3290** (1980)	3871** (1429)	5205** (2195)	4168 (1916)	3665 (1983)	4145 (1924)	4335* (1989)	5100** (1944)	4428** (2057)	4472** (2158)	4455** (2119)
	<b>No</b>	5497 (2370)	4323 (2068)	4492 (1845)	5710 (2153)	4841 (2524)	4080 (2482)	4421 (2005)	5078 (2583)	6323 (2366)	5396 (2395)	4836 (2170)	5164 (2320)
<b>Zinc (mg)</b>	<b>Yes</b>	3.9** (2.4)	3.1** (2.3)	3.9** (2.1)	4.7** (2.8)	4.2 (2.4)	3.8 (2.9)	4.7 (3.7)	4.1* (2.7)	5.0** (2.9)	4.3** (2.8)	4.1** (2.8)	4.2** (2.8)
	<b>No</b>	5.0 (3.0)	4.2 (2.5)	4.6 (2.6)	5.9 (3.1)	4.7 (2.7)	4.5 (4.1)	5.4 (3.8)	5.0 (3.1)	6.8 (3.7)	5.7 (3.4)	4.8 (3.0)	5.3 (3.3)
<b>Vit.A (RE)</b>	<b>Yes</b>	236** (402)	245 (530)	466** (1644)	309* (532)	530 (2225)	356 (1005)	489* (619)	219 (481)	419** (508)	443** (1386)	292 (532)	350** (955)
	<b>No</b>	569 (1240)	386 (1006)	341 (658)	363 (1257)	367 (1419)	394 (993)	350 (515)	385 (1023)	645 (970)	516 (1000)	297 (1065)	425 (1033)
<b>Iron (mg)</b>	<b>Yes</b>	4.4** (3.1)	3.2** (2.9)	4.4** (4.2)	5.7** (3.9)	5.1 (3.4)	3.5 (2.8)	9.2 (7.8)	4.4* (3.2)	5.2** (2.9)	4.6** (3.8)	5.6 (5.0)	5.2** (4.6)
	<b>No</b>	5.4 (3.4)	4.3 (3.1)	5.5 (3.2)	6.5 (4.2)	5.2 (3.7)	4.2 (3.0)	7.5 (6.2)	5.5 (4.0)	7.5 (3.8)	6.4 (4.0)	5.5 (4.2)	6.0 (4.1)
<b>Vit.C (mg)</b>	<b>Yes</b>	18.4** (28.8)	14.6 (21.7)	21.3** (41.9)	28.5 (36.7)	17.3 (21.2)	18.9 (29.8)	15.2 (36.8)	30.2 (84.0)	41.8 (49.0)	24.8** (39.5)	21.1** (44.4)	22.5** (42.6)
	<b>No</b>	33.0 (55.3)	21.9 (42.2)	38.1 (68.7)	69.5 (334)	34.7 (86.3)	43.2 (128)	18.2 (28.1)	37.5 (87.5)	57.1 (73.7)	46.7 (100.8)	41.3 (242)	44.5 (174)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	314** (389)	245* (270)	238* (211)	314** (343)	233 (184)	195 (166)	281 (230)	221* (177)	325** (291)	273** (259)	276** (307)	275** (290)
	<b>No</b>	373 (295)	287 (214)	284 (221)	389 (332)	218 (201)	205 (198)	253 (300)	272 (215)	515 (362)	374 (312)	296 (276)	341 (300)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.69** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2b): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal 5 or more times in the past 30 days?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		406 (280;126)	208 (81; 127)	336 (143; 193)	518 (207; 311)	165 (78; 57)	150 (83; 67)	304 (175; 129)	223 (123; 100)	295 (92; 203)	1234 (474; 760)	1341 (788; 553)	2575 (1262;1313)
<b>Items In Proc</b>	<b>Yes</b>	32.8** (10.5)	13.6** (6.2)	30.2** (13.0)	32.8** (11.8)	16.5** (9.2)	21.2* (10.6)	15.8* (10.7)	31.0** (10.8)	54.0** (17.1)	33.0** (17.3)	25.8** (13.2)	28.5** (15.3)
	<b>No</b>	39.9 (14.4)	17.0 (8.3)	41.1 (18.6)	39.7 (16.7)	29.6 (16.0)	25.3 (11.8)	18.9 (12.0)	37.0 (10.4)	69.1 (20.2)	45.4 (23.6)	29.9 (15.9)	38.9 (22.1)
<b>Anim. In Proc</b>	<b>Yes</b>	7.2** (3.1)	2.8** (1.6)	7.2** (3.4)	6.7** (3.1)	3.8** (2.5)	4.7 (2.7)	3.5** (3.0)	6.7** (2.9)	11.9** (4.8)	7.4** (4.3)	5.5** (3.3)	6.2** (3.8)
	<b>No</b>	8.9 (4.1)	3.5 (2.2)	9.8 (4.8)	8.4 (4.2)	6.8 (3.9)	5.3 (3.1)	4.8 (3.6)	8.2 (3.0)	15.8 (4.9)	10.4 (5.8)	6.5 (3.8)	8.7 (5.4)
<b>Dairy In Proc</b>	<b>Yes</b>	2.0** (1.1)	0.8** (0.5)	1.4** (1.1)	1.6** (1.1)	0.8** (0.9)	0.8 (0.7)	0.7** (0.8)	1.4* (0.9)	2.9** (1.8)	1.8** (1.4)	1.3** (1.0)	1.5** (1.2)
	<b>No</b>	2.7 (1.5)	1.0 (0.5)	2.4 (1.6)	2.5 (1.6)	1.4 (1.2)	1.0 (0.9)	1.1 (1.3)	1.7 (1.0)	4.3 (2.1)	2.8 (2.0)	1.6 (1.3)	2.3 (1.8)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.70** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 2b): Do you ever rely on a limited number of foods to feed your children because you are running out of money to buy food for a meal 5 or more times in the past 30 days?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		342 (242; 100)	180 (71; 109)	148 (74; 74)	301 (147; 154)	126 (75; 51)	64 (36; 28)	294 (169; 125)	112 (59; 53)	52 (23; 29)	545 (253; 292)	1074 (643; 431)	1619 (896; 723)
<b>Items In Inv.</b>	<b>Yes</b>	8.5** (6.2)	3.2** (2.0)	7.5* (5.6)	6.8** (4.9)	6.6** (4.7)	6.8* (4.1)	6.5** (4.5)	6.1 (4.8)	11.6** (5.1)	8.1** (6.5)	6.6** (4.7)	7.0** (5.3)
	<b>No</b>	12.7 (7.3)	5.8 (6.3)	8.9 (4.9)	12.5 (7.8)	11.0 (7.8)	9.2 (3.8)	10.4 (7.5)	7.5 (5.8)	20.9 (17.1)	11.5 (9.7)	9.8 (6.9)	10.5 (8.2)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.6** (1.1)	0.4* (0.6)	1.1 (1.3)	0.6** (1.0)	1.2** (1.6)	0.5 (0.7)	0.9** (1.4)	0.5 (0.9)	0.9** (1.1)	0.9** (1.4)	0.7** (1.1)	0.7** (1.2)
	<b>No</b>	1.2 (1.5)	0.9 (1.9)	1.2 (1.5)	1.7 (2.0)	2.4 (2.2)	1.0 (1.2)	2.2 (2.4)	0.9 (1.7)	3.3 (4.1)	2.0 (2.5)	1.3 (1.8)	1.6 (2.1)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3* (0.6)	0.3* (0.5)	0.3 (0.6)	0.3** (0.5)	0.4 (0.6)	0.2 (0.4)	0.3** (0.5)	0.3 (0.5)	0.4 (0.7)	0.3** (0.6)	0.3** (0.5)	0.3** (0.5)
	<b>No</b>	0.5 (0.8)	0.4 (0.5)	0.5 (0.8)	0.7 (0.9)	0.5 (0.7)	0.4 (0.6)	0.7 (1.0)	0.3 (0.7)	1.1 (1.8)	0.7 (1.1)	0.5 (0.7)	0.6 (0.9)

\*Wilcoxon test for two samples; significant for  $P < 0.05$

\*\*Wilcoxon test for two samples; significant for  $P < 0.01$

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire



**Table 8.71 The anthropometric status in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 3): Do you ever cut the size of meals or skip any because there is not enough food in the house?]**

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b>		363	202	392	445	135	128	304	219	318	1245	1261	2506
[Yes (n); No (n)]		(297; 66)	(73; 129)	(171; 221)	(249; 196)	(68; 67)	(81; 47)	(173; 131)	(122; 97)	(131; 187)	(563; 682)	(802; 459)	(1365; 1141)
<b>H/A</b>	<b>Yes</b>	-1.0 (1.4)	-1.5 (1.6)	-0.9 (1.5)	-0.9 (1.5)	-1.2 (1.8)	-1.2 (1.8)	-1.1 (1.3)	-1.2 (1.3)	-0.9** (1.2)	-0.9** (1.5)	-1.1 (1.5)	-1.0** (1.5)
	<b>No</b>	-0.7 (1.4)	-1.3 (1.3)	-0.7 (1.5)	-0.7 (1.5)	-0.7 (1.6)	-1.1 (1.6)	-1.1 (1.5)	-1.1 (1.4)	-0.3 (1.3)	-0.6 (1.4)	-1.1 (1.5)	-0.8 (1.5)
<b>W/A</b>	<b>Yes</b>	-0.4** (1.2)	-0.9 (1.1)	-0.5* (1.3)	-0.5* (1.1)	-0.3 (1.4)	-1.1 (1.3)	-1.0* (1.0)	1.2 (1.0)	-0.7** (1.2)	-0.6** (1.2)	-0.8 (1.2)	-0.7** (1.2)
	<b>No</b>	0.0 (1.1)	-0.8 (1.2)	-0.3 (1.3)	-0.2 (1.2)	-0.2 (1.3)	-0.9 (1.5)	-0.8 (1.1)	-1.0 (1.1)	0.0 (1.4)	-0.2 (1.3)	-0.7 (1.2)	-0.4 (1.3)
<b>W/H</b>	<b>Yes</b>	0.3* (1.2)	0.0 (1.4)	0.1 (1.2)	0.1 (1.2)	0.7 (1.3)	-0.5 (1.2)	-0.5* (1.2)	-0.5 (0.9)	-0.2** (1.1)	0.0** (1.2)	-0.1 (1.2)	0.0** (0.2)
	<b>No</b>	0.6 (1.1)	0.0 (1.2)	0.3 (1.3)	0.3 (1.3)	0.4 (1.5)	-0.2 (1.6)	-0.1 (1.3)	-0.5 (1.0)	0.2 (1.3)	0.3 (1.4)	-0.1 (1.2)	0.1 (1.3)

H/A = Height-for-Age

W/A = Weight-for-Age

W/H = Weight-for-Height

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.72** The dietary intake of selected nutrients as obtained by the 24-H-R Questionnaire in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 3): Do you ever cut the size of meals or skip any because there is not enough food in the house?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n [Yes (n); No (n)]</b>		409 (332; 77)	208 (76; 132)	410 (183; 227)	531 (280; 251)	155 (81; 74)	147 (87; 60)	339 (193; 146)	224 (124; 100)	350 (144; 206)	1361 (607; 754)	1412 (893; 519)	2773 (1500; 1273)
<b>Energy (kJ)</b>	<b>Yes</b>	4921** (2353)	3314** (2182)	3916** (1373)	5364* (2276)	4019** (2098)	3757 (2153)	3963** (1821)	4289* (1831)	5346** (2118)	4676** (2189)	4462** (2161)	4549** (2174)
	<b>No</b>	5886 (2411)	4270 (1961)	4597 (1931)	5653 (2040)	5005 (2149)	4126 (2354)	4801 (2292)	5203 (2865)	6513 (2328)	5460 (2394)	4900 (2197)	5232 (2331)
<b>Zinc (mg)</b>	<b>Yes</b>	4.0** (2.5)	2.9** (2.1)	3.9** (2.1)	5.1** (3.3)	3.9** (2.0)	4.1 (3.5)	4.5** (3.4)	4.0** (2.8)	5.5** (3.2)	4.6** (3.1)	4.1** (2.8)	4.3** (2.9)
	<b>No</b>	5.3 (3.1)	4.2 (2.6)	4.8 (2.7)	5.7 (2.6)	5.2 (2.8)	4.2 (3.4)	5.8 (4.2)	5.1 (2.9)	7.1 (3.8)	5.8 (3.3)	4.9 (3.1)	5.4 (3.3)
<b>Vit.A (RE)</b>	<b>Yes</b>	291** (732)	162** (251)	441** (1552)	395* (1379)	286 (743)	310 (802)	514* (765)	256 (741)	548** (995)	477** (1227)	303 (865)	374** (1030)
	<b>No</b>	518 (925)	428 (1044)	422 (892)	277 (302)	613 (2485)	375 (983)	399 (851)	374 (892)	684 (1018)	549 (1207)	294 (651)	445 (1025)
<b>Iron (mg)</b>	<b>Yes</b>	4.4** (3.1)	2.9** (2.4)	4.5** (4.1)	6.1 (4.2)	5.0 (3.5)	3.8 (3.0)	8.6 (7.1)	4.3** (3.2)	5.9** (3.5)	5.0** (3.9)	5.6* (4.8)	5.3** (4.4)
	<b>No</b>	5.9 (3.5)	4.4 (3.3)	5.7 (3.2)	6.3 (3.9)	5.8 (3.6)	3.8 (2.7)	7.9 (6.8)	5.7 (3.7)	7.7 (3.6)	6.6 (4.0)	5.6 (4.4)	6.2 (4.2)
<b>Vit.C (mg)</b>	<b>Yes</b>	19.3** (26.0)	16.9 (24.5)	21.1** (35.6)	57.9 (337)	24.0 (67.6)	29.8 (97.4)	15.1 (35.0)	35.7 (86.4)	38.7** (43.7)	33.0** (77.4)	28.2 (188)	30.1** (153)
	<b>No</b>	41.6 (73.8)	20.4 (40.9)	42.8 (75.3)	46.6 (126)	28.3 (61.0)	27.9 (70.8)	22.6 (36.8)	32.6 (85.7)	63.2 (77.2)	46.1 (88.2)	30.6 (75.3)	39.8 (83.5)
<b>Ca<sup>++</sup> (mg)</b>	<b>Yes</b>	317** (374)	213** (238)	241** (206)	335** (330)	206 (164)	180 (177)	268 (223)	226 (190)	356** (316)	284** (272)	280* (302)	282** (290)
	<b>No</b>	410 (318)	303 (232)	305 (249)	390 (344)	249 (231)	226 (180)	263 (295)	264 (206)	550 (351)	394 (316)	291 (282)	352 (306)

Ca<sup>++</sup> = Calcium

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

**Table 8.73** The number of items procured and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 3): Do you ever cut the size of meals or skip any because there is not enough food in the house?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		412 (333; 79)	208 (76; 132)	354 (158; 196)	528 (279; 249)	155 (81; 74)	151 (89; 62)	343 (195; 148)	222 (122; 100)	350 (144; 206)	1320 (587; 733)	1403 (890; 513)	2723 (1477;1246)
<b>Items In Proc</b>	<b>Yes</b>	33.8** (10.8)	13.5** (6.0)	30.3** (13.0)	33.4** (12.9)	17.6** (10.2)	20.8** (11.1)	14.7** (10.2)	30.2** (9.1)	58.5** (18.3)	35.9** (19.1)	26.5** (14.1)	30.2** (16.9)
	<b>No</b>	39.6 (16.4)	16.9 (8.3)	45.9 (22.4)	41.5 (16.7)	31.8 (19.1)	27.2 (10.2)	21.0 (12.8)	37.4 (10.5)	72.3 (21.7)	48.2 (25.8)	29.6 (16.0)	40.5 (24.1)
<b>Anim. In Proc</b>	<b>Yes</b>	7.4** (3.2)	2.8* (1.6)	7.2** (3.5)	6.8** (3.2)	4.1** (2.7)	4.6* (2.8)	3.3** (2.9)	6.4** (2.5)	13.0** (4.9)	8.1** (4.7)	5.6** (3.4)	6.6** (4.2)
	<b>No</b>	8.9 (4.5)	3.5 (2.1)	10.9 (5.6)	8.8 (4.2)	7.2 (4.5)	5.7 (2.8)	5.2 (3.7)	8.4 (2.9)	16.4 (5.3)	11.0 (6.3)	6.5 (3.8)	9.1 (5.8)
<b>Dairy In Proc</b>	<b>Yes</b>	2.1** (1.2)	0.8** (0.5)	1.5** (1.1)	1.7** (1.1)	0.9** (0.8)	0.8 (0.7)	0.6** (0.8)	1.4** (0.7)	3.2** (1.8)	2.0** (1.5)	1.3** (1.0)	1.6** (1.3)
	<b>No</b>	2.7 (1.6)	1.0 (0.5)	2.8 (1.9)	2.8 (1.6)	1.6 (1.5)	1.0 (0.9)	1.3 (1.3)	1.7 (1.0)	4.6 (2.2)	3.0 (2.1)	1.6 (1.3)	2.5 (2.0)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

Proc. = Procurement

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire

**Table 8.74** The number of items in the HH inventory and items indicated in the table as obtained from the FPHIQ in relation to the interviewee's response (Yes/No) to the Hunger Scale Questionnaire: South Africa 1999 [(Question 3): Do you ever cut the size of meals or skip any because there is not enough food in the house?]

Parameter	Hunger scale Yes/No	Province [Mean (sd)]									Urban/Rural [Mean (sd)]		RSA [Mean (sd)]
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	Urban	Rural	
<b>Total n</b> [ Yes (n); No (n) ]		345 (288; 57)	180 (66; 114)	148 (76; 72)	304 (192; 112)	143 (79; 64)	63 (40; 23)	331 (186; 146)	111 (64; 47)	66 (33; 33)	562 (299; 263)	1129 (724; 405)	1691 (1023;668)
<b>Items In Inv.</b>	<b>Yes</b>	9.1** (6.7)	3.1** (2.1)	7.6* (5.4)	7.9** (5.3)	6.5** (5.1)	6.8** (4.0)	6.4** (4.6)	5.6** (4.2)	14.0 (8.5)	9.0** (7.1)	6.9** (5.1)	7.5** (5.8)
	<b>No</b>	12.5 (6.7)	5.7 (6.2)	9.8 (8.4)	13.3 (8.7)	12.6 (10.9)	9.9 (3.5)	10.9 (8.0)	8.5 (6.2)	19.5 (16.2)	12.1 (11.3)	10.0 (7.1)	10.8 (9.0)
<b>Anim. In Inv.</b>	<b>Yes</b>	0.7* (1.2)	0.4** (0.7)	1.1 (1.4)	0.8** (1.3)	1.2** (1.6)	0.6 (0.8)	0.9** (1.5)	0.4* (0.8)	1.8 (2.1)	1.1** (1.6)	0.7** (1.2)	0.8** (1.3)
	<b>No</b>	1.2 (1.5)	0.9 (1.8)	1.5 (2.5)	1.9 (2.1)	2.8 (3.1)	1.0 (1.2)	2.2 (2.5)	1.1 (1.7)	2.8 (3.9)	2.2 (3.1)	1.4 (1.8)	1.7 (2.4)
<b>Dairy In Inv.</b>	<b>Yes</b>	0.3 (0.6)	0.2* (0.5)	0.3* (0.6)	0.4** (0.7)	0.4* (0.6)	0.2 (0.4)	0.3** (0.5)	0.2 (0.4)	0.5 (0.6)	0.4** (0.6)	0.3** (0.5)	0.3** (0.6)
	<b>No</b>	0.6 (0.8)	0.4 (0.5)	0.6 (1.0)	0.7 (0.9)	0.7 (0.9)	0.4 (0.6)	0.7 (1.0)	0.4 (0.8)	1.1 (1.7)	0.8 (1.2)	0.5 (0.7)	0.6 (0.9)

\*Wilcoxon test for two samples; significant for P<0.05

\*\*Wilcoxon test for two samples; significant for P<0.01

Inv. = Household inventory

Anim. = Foods of animal origin

Dairy = Dairy products

FPHIQ = Food Procurement and Household Inventory Questionnaire