Table 8.1 Hunger risk classification in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification (%)	Area of Residence						
	Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Number (n)	299	1060	287	1089	1347	1388	2735
Food secure	23	41	21	11	36	14	25
At risk of hunger	29	23	18	23	22	24	23
Experience hunger	48	37	61	66	42	62	52

* Significant difference between urban and rural groups, $p < 0.01$, Chi-square test
** Significant difference between 4 types of residence, $p < 0.01$, Chi-square test

Table 8.2 Hunger risk classification in children aged 1 – 9 years nationally and by age: South Africa 1999

Hunger risk classification (%)	Age groups			
	1 - 3 Years	4 - 6 Years	7 - 9 Years	RSA
Number (n)	1251	1034	450	2735
Food secure	24	25	26	25
At risk of hunger	22.5	22	27	23
Experience hunger	53	53	47	52

* No significant difference among age groups, Chi-square test used

Table 8.3 Hunger risk classification in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification (%)	Province									
	EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Number (n)	398	209	409	525	150	144	332	226	342	2735
Food secure	4.3	45.5	36.7	26.7	21.3	13.2	19.3	13.3	39.8	25.0
At risk of hunger	12.6	16.8	21.5	25.9	26.0	23.6	26.2	25.2	29.0	22.9
Experience hunger	83.2	37.8	41.8	47.4	52.7	63.2	54.5	61.5	31.3	52.2

* Significant difference between provinces, $p < 0.01$, Chi-square test

Table 8.4 Hunger risk classification as related to anthropometric status of children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		277 (66; 80; 131)	956 (388; 220; 357)	268 (53; 48; 167)	960 (107;212; 641)	1233 (441; 268; 524)	1237 (173; 292; 772)	2735 (683; 625; 1427)
H/A	**Food secure**	-0.9* (1.4) [a]	-0.3** (1.4) [a]	-1.0 (1.3)	-1.2 (1.4)	-0.4** (1.4) [a]	-1.1 (1.4)	-0.6** (1.5) [a]
	At risk of hunger	-1.6 (1.4) [b]	-0.8 (1.4) [b]	-0.8 (1.4)	-1.0 (1.6)	-0.8 (1.4) [b]	-1.1 (1.6)	-1.0 (1.5) [b]
	Experience hunger	-1.2 (1.5) [a][b]	-1.0 (1.5) [b]	-0.9 (1.4)	-1.1 (1.5)	-1.0 (1.5) [b]	-1.1 (1.5)	-1.1 (1.5) [b]
W/A	**Food secure**	-0.7 (1.2)	0.0** (1.3) [a]	-0.2 (1.4)	-0.8 (1.1)	-0.1** (1.3) [a]	-0.7 (1.1)	-0.2** (1.3) [a]
	At risk of hunger	-1.0 (1.3)	-0.4 (1.3) [b]	-0.6 (1.1)	-0.7 (1.3)	-0.4 (1.2) [b]	-0.8 (1.3)	-0.6 (1.3) [b]
	Experience hunger	-1.1 (1.1)	-0.7 (1.3) [c]	-0.5 (1.2)	-0.7 (1.1)	-0.6 (1.3) [b]	-0.8 (1.1)	-0.7 (1.2) [b]
W/H	**Food secure**	-0.2 (1.0)	0.3** (1.3) [a]	0.6 (1.7) [a]	0.0 (1.1)	0.3** (1.4) [a]	-0.1 (1.1)	0.2** (1.3) [a]
	At risk of hunger	0.0 (1.4)	0.2 (1.3) [a][b]	0.0 (1.1) [b]	-0.1 (1.3)	0.2 (1.3) [a][b]	0.0 (1.3)	0.047 (1.3) [a}[b]
	Experience hunger	-0.4 (1.1)	0.0 (1.3) [b]	0.1 (1.1) [a][b]	0.0 (1.2)	0.0 (1.2) [b]	-0.1 (1.2)	-0.036 (1.2) [b]

H/A = Height-for-Age; W/A = Weight-for-Age; W/H = Weight-for-Height

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.5 Hunger risk classification as related to anthropometric status in children aged 1 – 9 years by age group: South Africa 1999

Hunger risk classification		Age group [Mean (sd)]			
		Age 1 - 3 years	Age 4 - 6 years	Age 7 - 9 years	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		1139 (278; 251; 610)	922 (229; 202; 491)	409 (107; 107; 195)	2735 (683; 625; 1427)
H/A	**Food secure**	-0.7** (1.6) [a]	-0.6** (1.4) [a]	-0.4** (1.2) [a]	-0.6** (1.5) [a]
	At risk of hunger	-1.0 (1.6) [b]	-1.0 (1.6) [b]	-0.9 (1.0) [b]	-1.0 (1.5) [b]
	Experience hunger	-1.2 (1.6) [b]	-1.0 (1.4) [b]	-0.9 (1.3) [b]	-1.1 (1.5) [b]
W/A	**Food secure**	-0.4** (1.3) [a]	-0.2** (1.4) [a]	-0.1** (1.3) [a]	-0.2** (1.3) [a]
	At risk of hunger	-0.6 (1.5) [a][b]	-0.5 (1.2) [b]	-0.7 (0.9) [b]	-0.6 (1.3) [b]
	Experience hunger	-0.7 (1.3) [b]	-0.7 (1.1) [b]	-0.8 (1.0) [b]	-0.7 (1.2) [b]
W/H	**Food secure**	0.2 (1.3)	0.2* (1.3) [a]	0.2* (1.4) [a]	0.2** (1.3) [a]
	At risk of hunger	0.1 (1.4)	0.1 (1.3) [a][b]	-0.1 (1.1) [a][b]	0.047 (1.3) [a}[b]
	Experience hunger	0.0 (1.2)	-0.1 (1.2) [b]	-0.2 (1.2) [a]	-0.036 (1.2) [b]

H/A = Height-for-Age; W/A = Weight-for-Age; W/H = Weight-for-Height

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.6 Hunger risk classification as related to anthropometric status in children aged 1 – 9 years by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		355 (16;41;298)	203 (94; 33;76)	391 (146; 83;162)	442 (111;115;216)	129 (28; 35; 66)	124 (11; 31; 82)	295 (55;80;160)	221 (29;55;137)	310 (124; 87; 99)	2735 (683; 625; 1427)
H/A	**Food secure**	-0.5 (1.5)	-1.1 (1.3)	-0.6* (1.6)	-0.5* (1.4)	-0.6 (1.5)	-0.8 (1.3)	-0.9 (1.6)	-0.8 (1.5)	-0.1** (1.2) [a]	-0.6** (1.5) [a]
	At risk of hunger	-0.9 (1.4)	-1.6 (1.6)	-0.7 (1.3)	-0.7 (1.6)	-0.6 (1.8)	-1.3 (1.8)	-1.2 (1.5)	-1.3 (1.4)	-0.9 (1.4) [b]	-1.0 (1.5) [b]
	Experience hunger	-1.0 (1.5)	-1.5 (1.5)	-1.0 (1.5)	-0.9 (1.5)	-1.2 (1.8)	-1.2 (1.7)	-1.0 (1.3)	-1.2 (1.3)	-0.9 (1.2) [b]	-1.1 (1.5) [b]
W/A	**Food secure**	0.1 (1.2)	-0.7 (1.2)	-0.1* (1.4) [a]	-0.1** (1.2) [a]	-0.1 (1.3)	-1.0 (1.8)	-0.7 (1.1)	-1.1 (1.3)	0.2** (1.3) [a]	-0.2** (1.3) [a]
	At risk of hunger	-0.4 (1.2)	-1.0 (1.4)	-0.4 (1.2) [a][b]	-0.3 (1.2) [a][b]	-0.3 (1.5)	-0.8 (1.6)	-0.9 (1.1)	-1.0 (1.1)	-0.6 (1.3) [b]	-0.6 (1.3) [b]
	Experience hunger	-0.4 (1.2)	-0.9 (1.1)	-0.6 (1.2)[b]	-0.6 (1.1) [b]	-0.2 (1.4)	-1.2 (1.2)	-1.0 (1.0)	-1.1 (1.0)	-0.8 (1.2) [b]	-0.7 (1.2) [b]
W/H	**Food secure**	0.7 (1.0)	0.0 (1.3)	0.4 (1.4)	0.3* (1.2)	0.5 (1.5)	-0.5 (1.4)	-0.1 (1.2)	-0.9 (1.2) [b]	0.4** (1.2) [a]	0.2** (1.3) [a]
	At risk of hunger	0.2 (0.9)	0.1 (1.2)	0.1 (1.2)	0.3 (1.4)	0.2 (1.8)	0.0 (1.8)	-0.2 (1.3)	-0.3 (0.9)[a]	0.0 (1.2) [b]	0.047 (1.3) [a][b]
	Experience hunger	0.3 (1.2)	0.0 (1.3)	0.1 (1.1)	0.0 (1.2)	0.7 (1.3)	-0.5 (1.2)	-0.5 (1.2)	-0.5 (0.9) [a][b]	-0.2 (1.1) [b]	-0.036 (1.2) [b]

H/A = Height-for-Age; W/A = Weight-for-Age; W/H = Weight-for-Height; *Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01; [a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.7 Hunger risk classification as related to the intake of energy and selected micronutrients in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		295 (69; 86;140)	1046 (425;235;386)	285 (59; 53;173)	1081 (123;243;715)	1331 (484;288;559)	1376 (192;329;855)	2707 (676;617;1414)
Energy (kJ)	**Food secure**	4543** (2318) [a]	5681** (2493) [a]	5058** (2146) [a]	4835** (2155)	5605** (2460) [a]	4730** (2213) [a]	5356** (2423) [a]
	At risk of hunger	4770 (2078) [a][b]	5295 (2175) [a]	5335 (1872) [a][b]	5084 (2264)	5302 (2119) [a]	5002 (2218) [a][b]	5142 (2176) [a]
	Experience hunger	3841 (1817) [b]	4632 (2294) [b]	4357 (1939) [b]	4577 (2219)	4548 (2193) [b]	4456 (2174) [b]	4492 (2181) [b]
Vit.C (mg)	**Food secure**	46.3 (102) [a]	54.0** (80.0) [a]	51.6 (199)	24.6 (39.5)	53.7** (101) [a]	32.4 (69.6)	47.6** (94.0) [a]
	At risk of hunger	28.8 (39.6) [a][b]	36.7 (82.5) [b]	34.2 (56.2)	42.5 (347)	36.3 (78.2) [b]	38.9 (298)	37.7 (224) [a][b]
	Experience hunger	22.1 (36.8) [b]	31.0 (74.5) [b]	28.8 (48.0)	24.5 (72.7)	30.3 (67.4) [b]	24.1 (68.1)	26.6 (67.9) [b]
Vit.A (RE)	**Food secure**	296** (482)	629** (1203)	266* (262)	266 (390)	584** (1138)	277* (425)	497** (998) [a]
	At risk of hunger	366 (676)	503 (1396)	381 (585)	356 (1551)	481 (1286)	359 (1376)	415 (1335) [a][b]
	Experience hunger	253 (652)	532 (1398)	337 (832)	288 (484)	471 (1352)	282 (515)	357 (888) [b]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01; [a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.8 Hunger risk classification as related to the intake of selected micronutrients in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		295 (69; 86;140)	1046 (425;235;386)	285 (59; 53;173)	1081 (123;243;715)	1331 (484;288;559)	1376 (192;329;855)	2707 (676;617;1414)
Iron (mg)	**Food secure**	4.5* (2.9)	7.3** (3.9) [a]	5.3** (2.8)	5.8 (3.5)	7.0** (3.9) [a]	5.4 (3.4)	6.5** (3.8) [a]
	At risk of hunger	4.6 (2.6)	6.2 (4.2) [b]	5.4 (2.7)	5.2 (3.8)	6.0 (4.0) [b]	5.8 (5.4)	5.9 (4.8) [b]
	Experience hunger	3.9 (2.8)	4.8 (3.7) [c]	4.7 (4.6)	5.8 (4.8)	4.8 (4.0) [c]	5.5 (4.6)	5.2 (4.4) [c]
Zinc (mg)	**Food secure**	4.6** (2.9)	6.2** (3.5) [a]	5.3** (3.2)	5.1** (3.0) [a]	6.1** (3.5) [a]	4.9** (2.9) [a]	5.7** (3.4) [a]
	At risk of hunger	4.7 (2.9)	5.6 (3.0) [a]	5.1 (2.8)	5.2 (3.8) [a]	5.5 (3.0) [b]	5.0 (3.5) [a]	5.3 (3.3) [b]
	Experience hunger	3.7 (2.4)	4.6 (3.1) [b]	4.3 (3.0)	4.1 (2.7) [b]	4.5 (3.1) [c]	4.1 (2.6) [b]	4.2 (2.8) [c]
Ca^{++} (mg)	**Food secure**	330** (288) [a]	439** (329) [a]	336* (378)	276 (227)	426** (337) [a]	296** (251)	389** (320) [a]
	At risk of hunger	249 (163) [a][b]	355 (294) [b]	344 (243)	321 (334)	353 (285) [b]	303 (300)	326 (294) [b]
	Experience hunger	224 (232) [b]	267 (236) [c]	273 (279)	282 (313)	269 (250) [c]	273 (302)	271 (282) [c]

Ca^{++}Calcium; *Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01;[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.9 Hunger risk classification as related to the intake of energy and selected micronutrients in children aged 1 – 9 years nationally and by age group: South Africa 1999

Hunger risk classification		Age group [Mean (sd)]			
		Age 1 - 3 years	Age 4 - 6 years	Age 7 - 9 years	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		1238 (297;279;662)	1027 (262;221;544)	442 (117;117;208)	2707 (676;617;1414)
Energy (kJ)	**Food secure**	4354** (1888) [a]	5989** (2485) [a]	6485** (2534) [a]	5356** (2423) [a]
	At risk of hunger	4472 (1889) [a]	5624 (2267) [a]	5830 (2202) [a][b]	5142 (2176) [a]
	Experience hunger	3983 (1950) [b]	4813 (2231) [b]	5278 (2357) [b]	4492 (2181) [b]
Vit.C (mg)	**Food secure**	48.3 (112) [a]	45.4 (73.0) [a]	51.0 (85.1)	47.6** (94.0) [a]
	At risk of hunger	30.9 (71.7) [b]	26.1 (42.4) [b]	75.8 (499)	37.7 (224) [a][b]
	Experience hunger	22.5 (47.4) [b]	29.8 (80.8) [b]	31.3 (83.7)	26.6 (67.9) [b]
Vit.A (RE)	**Food secure**	418** (861)	569** (1142)	536** (971)	497** (998) [a]
	At risk of hunger	338 (483)	436 (1573)	562 (2042)	415 (1335) [a][b]
	Experience hunger	327 (703)	366 (1029)	430 (1006)	357 (888) [b]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01
[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.10 Hunger risk classification as related to the intake of selected micronutrients in children aged 1 – 9 years nationally and by age group: South Africa 1999

Hunger risk classification		Age group [Mean (sd)]			
		Age 1 - 3 years	Age 4 - 6 years	Age 7 - 9 years	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		1238 (297;279;662)	1027 (262;221;544)	442 (117;117;208)	2707 (676;617;1414)
Iron (mg)	**Food secure**	5.3 (3.1) [a]	7.3 (4.0) [a]	7.9 (4.2) [a]	6.5** (3.8) [a]
	At risk of hunger	4.8 (3.3) [a][b]	6.7 (4.9) [a]	7.0 (6.6) [a][b]	5.9 (4.8) [b]
	Experience hunger	4.5 (4.1) [b]	5.8 (4.4) [b]	6.2 (4.9) [b]	5.2 (4.4) [c]
Zinc (mg)	**Food secure**	4.7** (2.5) [a]	6.3** (3.5) [a]	6.9** (4.1) [a]	5.7** (3.4) [a]
	At risk of hunger	4.5 (2.7) [a]	6.0 (3.3) [a]	5.8 (4.0) [b]	5.3 (3.3) [b]
	Experience hunger	3.8 (2.5) [b]	4.5 (2.9) [b]	5.0 (3.4) [b]	4.2 (2.8) [c]
Ca^{++} (mg)	**Food secure**	375 (349) [a]	393 (297) [a]	416 (292) [a]	389** (320) [a]
	At risk of hunger	340 (312) [a][b]	336 (288) [b]	273 (255) [b]	326 (294) [b]
	Experience hunger	287 (315) [b]	249 (236) [c]	278 (281) [b]	271 (282) [c]

Ca^{++} = Calcium

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.11 Hunger risk classification as related to the intake of energy and selected micronutrients in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		392 (17;47;328)	206 (93;35;78)	407 (150;87;170)	524 (140;136;248)	148 (31;39;78)	140 (19;32;89)	326 (62;86;178)	222 (28;56;138)	342 (136;99;107)	2707 (676;617; 1414)
Energy (kJ)	**Food secure**	6821** (3019) [a]	4115** (1915)[a][b]	4711** (1954) [a]	5672 (2054)	5264** (1762) [a]	4217 (3086)	4999* (2680) [a]	5529* (3274) [a]	6716** (2422) [a]	5356** (2423) [a]
	At risk of hunger	5511 (2082) [a][b]	4670 (2019) [a]	4534 (1780) [a]	5646 (2138)	4870 (2436) [a][b]	4310 (2004)	4401 (2054) [a][b]	5152 (2518) [a][b]	5992 (2024) [b]	5142 (2176) [a]
	Experience hunger	4974 (2363) [b]	3363 (2217) [b]	3790 (1351) [b]	5331 (2266)	3930 (1917) [b]	3649 (2151)	4000 (1820) [b]	4336 (2055) [b]	5144 (2113) [c]	4492 (2181) [b]
Vit.C (mg)	**Food secure**	41.4** (32.8) [a]	22.9 (47.0)	50.9** (86.1) [a]	52.4 (141)	35.5 (80.1)	45.2 (118)	31.0** (40.9) [a]	29.5 (71.7)	71.1** (86.3) [a]	47.6** (94.0) [a]
	At risk of hunger	23.6 (49.1) [a][b]	13.9 (18.6)	25.5 (42.1) [b]	75.9 (471)	21.3 (43.4)	21.2 (33.0)	15.3 (26.0) [b]	30.4 (38.9)	46.3 (48.2) [b]	37.7 (224) [a][b]
	Experience hunger	20.3 (30.9) [b]	17.3 (24.5)	21.1 (36.0) [b]	40.7 (107)	21.9 (62.7)	29.1 (96.4)	14.7 (35.1) [b]	36.9 (102)	36.5 (45.2) [b]	26.6 (67.9) [b]
Vit.A (RE)	**Food secure**	794** (1186) [a]	466* (1161)	507** (1054)	295** (282)	229 (252)	781* (1681) [a]	529 (1230)	377* (723)	710** (1131)	497** (998) [a]
	At risk of hunger	229 (237) [b]	205 (197)	243 (330)	436 (1873)	943 (3397)	196 [b] (199)	384 (805)	247 (508)	687 (871)	415 (1335) [a][b]
	Experience hunger	310 (752) [b]	233 (541)	462 (1612)	311 (525)	285 (755)	278 (778) [a][b]	490 (623)	321 (930)	473 (990)	357 (888) [b]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01;[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.12 Hunger risk classification as related to the intake of selected micronutrients in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		392 (17;47;328)	206 (93;35;78)	407 (150;87;170)	524 (140;136;248)	148 (31;39;78)	140 (19;32;89)	326 (62;86;178)	222 (28;56;138)	342 (136;99;107)	2707 (676;617; 1414)
Iron (mg)	**Food secure**	8.4** (3.9) [a]	4.5** (3.4) [a]	6.0** (3.3) [a]	6.6* (3.6)	6.3 (4.0)	4.2 (3.2)	7.3 (4.4)	6.0** (3.4)	8.4** (3.7) [a]	6.5** (3.8) [a]
	At risk of hunger	5.1 (3.1) [b]	4.0 (2.8) [a][b]	5.0 (2.7) [a][b]	5.8 (4.0)	5.1 (3.5)	4.3 (2.6)	8.7 (9.1)	5.5 (3.5)	6.7 (3.4) [b]	5.9 (4.8) [b]
	Experience hunger	4.5 (3.1) [b]	3.1 (2.6) [b]	4.4 (4.2) [b]	6.1 (4.4)	5.1 (3.4)	3.5 (3.0)	8.5 (6.7)	4.4 (3.5)	5.4 (3.3) [c]	5.2 (4.4) [c]
Zinc (mg)	**Food secure**	7.7** (3.7) [a]	4.2** (2.6) [a]	4.8** (2.7) [a]	5.9** (2.6) [a]	5.2** (2.2) [a]	4.9 (4.1)	6.0** (4.0) [a]	5.0* (2.8)	7.5** (4.1) [a]	5.7** (3.4) [a]
	At risk of hunger	4.5 (2.5) [b]	4.0 (2.5) [a][b]	4.7 (2.5) [a]	5.6 (2.8) [a][b]	4.9 (3.1) [a][b]	4.4 (3.4)	5.9 (4.9) [a][b]	5.2 (3.2)	6.2 (3.1) [b]	5.3 (3.3) [b]
	Experience hunger	4.0 (2.4) [b]	3.1 (2.3) [b]	3.9 (2.1) [b]	5.0 (3.3) [b]	3.8 (2.0) [b]	3.9 (3.5)	4.4 (3.0) [b]	4.1 (2.8)	5.1 (3.1) [b]	4.2 (2.8) [c]
Ca^{++} (mg)	**Food secure**	534** (211) [a]	313** (230)	338** (277) [a]	392** (348) [a][b]	258 (212)	221 (171)	247 (220)	255 (154)	622** (368) [a]	389** (320) [a]
	At risk of hunger	343 (317) [a][b]	292 (244)	250 (174) [b]	416 (345) [a]	265 (266)	222 (177)	267 (328)	268 (219)	413 (307) [b]	326 (294) [b]
	Experience hunger	319 (373) [b]	212 (237)	237 (208) [b]	314 (326) [b]	193 (148)	175 (179)	269 (235)	228 (196)	317 (243) [b]	271 (282) [c]

Ca^{++}= Calcium; *Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01; [a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Table 8.13 Hunger risk classification as related to food procurement in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		289 (68;84;137)	1017 (416;227;374)	274 (57;50;167)	1077 (119;245;714)	1291 (473;277;541)	1366 (186;329;851)	2657 (659;606;1392)
Items in proc.	**Food secure**	34.1 (24.0)	53.9** (28.3) [a]	34.6 (15.2)	29.0* (15.8) [a]	51.6** (27.8) [a]	30.8** (19.3) [a]	45.8** (27.3) [a]
	At risk of hunger	34.1 (17.3)	46.6 (22.3) [b]	36.6 (16.4)	28.0 (12.7) [a][b]	44.8 (21.7) [b]	29.5 (14.2) [a]	36.5 (19.6) [b]
	Experience hunger	29.2 (17.5)	34.5 (18.2) [c]	32.4 (14.9)	25.5 (13.0) [b]	33.9 (17.2) [c]	26.1 (13.9) [b]	29.1 (15.7) [c]
Anim. in proc.	**Food secure**	7.6 (5.2)	12.4** (6.8) [a]	7.9 (3.9)	6.4** (3.9) [a]	11.8** (3.7) [a]	6.8** (4.5) [a]	10.4** (6.5) [a]
	At risk of hunger	7.4 (4.0)	10.6 (5.6) [b]	8.4 (3.9)	6.1 (3.2) [a]	10.2 (5.4) [b]	6.5 (3.4) [a]	8.2 (4.8) [b]
	Experience hunger	6.5 (4.1)	7.7 (4.6) [c]	7.3 (3.7)	5.3 (3.2) [b]	7.6 (4.3) [c]	5.5 (3.4) [b]	6.3 (3.9) [c]
Dairy in proc.	**Food secure**	2.1** (1.8) [a]	3.5** (2.3) [a]	2.2* (1.4)	1.7** (1.4) [a]	3.4** (2.3) [a]	1.8** (1.6) [a]	2.9** (2.2) [a]
	At risk of hunger	1.7 (1.1) [a][b]	2.8 (1.9) [b]	2.3 (1.5)	1.5 (1.1) [a][b]	2.7 (1.8) [b]	1.6 (1.1) [b]	2.1 (1.6) [b]
	Experience hunger	1.3 (1.1) [b]	1.9 (1.4) [c]	1.8 (1.4)	1.3 (1.0) [b]	1.8 (1.4) [c]	1.3 (1.0) [c]	1.5 (1.2) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

Proc. = Procurement; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.14 Hunger risk classification as related to procurement in children aged 1 – 9 years by age group: South Africa 1999

Hunger risk classification		Age group [Mean (sd)]			
		Age 1 - 3 years	Age 4 - 6 years	Age 7 - 9 years	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		1213 (289; 275; 649)	1006 (257; 214; 535)	438 (113; 117; 208)	2657 (659;606;1392)
Items in proc	**Food secure**	42.9** (26.0) [a]	46.9** (28.6) [a]	50.5** (26.9) [a]	45.8** (27.3) [a]
	At risk of hunger	35.8 (20.0) [b]	37.3 (18.9) [b]	37.0 (19.9) [b]	36.5 (19.6) [b]
	Experience hunger	28.8 (16.2) [c]	29.2 (15.1) [c]	29.9 (15.7) [c]	29.1 (15.7) [c]
Anim. in proc.	**Food secure**	9.7** (6.0) [a]	10.7** (7.0) [a]	11.5** (6.4) [a]	10.4** (6.5) [a]
	At risk of hunger	8.1 (4.9) [b]	8.3 (4.7) [b]	8.2 (4.6) [b]	8.2 (4.8) [b]
	Experience hunger	6.2 (4.0) [c]	6.3 (3.8) [c]	6.5 (3.9) [c]	6.3 (3.9) [c]
Dairy in proc.	**Food secure**	2.8** (2.0) [a]	3.0** (2.4) [a]	3.2** (2.2) [a]	2.9** (2.2) [a]
	At risk of hunger	2.1 (1.6) [b]	2.0 (1.6) [b]	1.9 (1.6) [b]	2.1 (1.6) [b]
	Experience hunger	1.5 (1.2) [c]	1.5 (1.2) [c]	1.5 (1.2) [b]	1.5 (1.2) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01
[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; Proc. = Procurement; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.15 Hunger risk classification as related to procurement in children aged 1 – 9 years by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		395 (16;50;329)	206 (94;34;78)	352 (134;71;147)	521 (138;137;246)	147 (30; 39; 78)	144 (19; 34;91)	330 (63;87;180)	220 (29;55;136)	342 (136;99;107)	2657 (659;606; 1392)
Items in proc.	Food secure	17.3* (23.9) [a]	17.8** (8.9) [a]	50.1** (23.9) [a]	44.3** (18.9) [a]	39.9** (21.0) [a]	24.1** (9.4) [a]	23.1** (14.9) [a]	40.7** (12.7) [a]	78.0** (20.3) [a]	45.8** (27.3) [a]
	At risk of hunger	36.6 (11.6) [b]	14.4 (5.5) [a][b]	35.7 (16.1) [b]	38.3 (12.4) [b]	27.3 (15.4) [b]	31.0 (10.8) [b]	19.1 (11.0) [a]	36.9 (11.3) [a]	63.0 (19.6) [b]	36.5 (19.6) [b]
	Experience hunger	34.0 (10.8) [b]	13.6 (6.3) [b]	30.6 (12.8) [b]	32.6 (13.0) [c]	16.9 (10.3) [c]	19.9 (10.3) [b]	14.4 (10.1) [b]	30.4 (8.2) [b]	55.5 (16.8) [c]	29.1 (15.7) [c]
Anim. in proc.	Food secure	11.3** (6.0) [a]	3.8** (2.3) [a]	12.0** (5.9) [a]	9.6** (4.7) [a]	9.0** (5.2) [a]	4.5** (2.4) [a]	5.8** (4.2) [a]	9.6** (3.5) [a]	17.7** (4.8) [a]	10.4** (6.5) [a]
	At risk of hunger	8.2 (3.6) [b]	3.1 (1.4) [a][b]	8.6 (4.2) [b]	8.1 (3.1) [b]	6.2 (3.4) [b]	6.6 (3.0) [b]	4.7 (3.4) [a]	8.1 (2.8) [b]	14.2 (5.3) [b]	8.2 (4.8) [b]
	Experience hunger	7.4 (3.2) [b]	2.7 (1.6) [b]	7.2 (3.4) [b]	6.5 (3.2) [c]	3.9 (2.8) [c]	4.4 (1.0) [b]	3.2 (2.8) [b]	6.5 (2.3) [c]	12.4 (4.4) [c]	6.3 (3.9) [c]
Dairy in proc.	Food secure	3.3** (1.8) [a]	1.0** (0.5) [a]	3.1** (2.0) [a]	3.1** (1.8) [a]	2.2** (1.8) [a]	0.8 (0.6)	1.7** (1.6) [a]	2.2** (1.2) [a]	5.1** (2.1) [a]	2.9** (2.2) [a]
	At risk of hunger	2.5 (1.5) [b]	1.0 (0.3) [a][b]	2.2 (1.4) [b]	2.4 (1.2) [b]	1.4 (1.1) [b]	1.1 (1.0)	0.9 (1.0) [b]	1.6 (1.0) [b]	3.6 (1.9) [b]	2.1 (1.6) [b]
	Experience hunger	2.1 (1.2) [b]	0.8 (0.5) [a]	1.4 (1.1) [c]	1.6 (1.1) [c]	0.8 (0.8) [b]	0.8 (0.7)	0.6 (0.7) [b]	1.3 (0.7) [b]	3.1 (1.6) [b]	1.5 (1.2) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01;[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test,; p<0.05 ; Proc. = Procurement; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.16 Hunger risk classification as related to the HH inventory in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		182 (53; 52; 77)	413 (122; 79; 212)	138 (31; 24; 83)	913 (97; 208; 608)	551 (153;103;295)	1095 (150;260;685)	1646 (303;363;980)
Items in inv.	**Food secure**	9.6 (7.4)	13.8** (13.8) [a]	10.2 (7.3)	12.3** (8.9) [a]	13.1** (12.8) [a]	11.3** (8.5) [a]	12.2** (10.9) [a]
	At risk of hunger	10.4 (7.8)	12.1 (9.0) [a][b]	8.5 (6.1)	9.3 (5.8) [b]	11.3 (8.5) [a]	9.5 (6.3) [b]	10.0 (7.0) [b]
	Experience hunger	8.0 (6.0)	9.1 (7.4) [b]	8.0 (6.0)	6.5 (4.6) [c]	8.8 (7.1) [b]	6.7 (4.8) [c]	7.3 (5.7) [c]
Anim. in inv.	**Food secure**	1.3 (1.7)	2.9** (3.7) [a]	1.4 (1.8)	2.1** (2.3) [a]	2.6** (3.4) [a]	1.8** (2.1) [a]	2.2** (2.9) [a]
	At risk of hunger	1.5 (1.8)	2.2 (2.6) [a]	1.3 (1.8)	1.3 (1.6) [b]	2.0 (2.4) [a]	1.3 (1.7) [b]	1.5 (1.9) [b]
	Experience hunger	0.9 (1.4)	1.2 (1.6) [b]	0.8 (1.1)	0.6 (1.0) [c]	1.1 (1.5) [b]	0.6 (1.1) [c]	0.8 (1.2) [c]
Dairy in inv.	**Food secure**	0.4 (0.6)	1.0** (1.3) [a]	0.6* (0.8)	0.7** (0.9) [a]	0.9** (1.2) [a]	0.6** (0.8) [a]	0.8** (1.1) [a]
	At risk of hunger	0.5 (0.6)	0.8 (1.2) [a]	0.7 (1.0)	0.5 (0.7) [b]	0.8 (1.1) [a]	0.5 (0.7) [a]	0.6 (0.9) [b]
	Experience hunger	0.4 (0.6)	0.3 (0.6) [b]	0.3 (0.5)	0.3 (0.5) [c]	0.3 (0.6) [b]	0.3 (0.5) [b]	0.3 (0.5) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; Inv. = Inventory; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.17 Hunger risk classification as related to the HH inventory in children aged 1 – 9 years nationally and by age: South Africa 1999

Hunger risk classification		Age group [Mean (sd)]			
		Age 1 - 3 years	Age 4 - 6 years	Age 7 - 9 years	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		1631 (126; 162; 428)	654 (128; 132; 394)	276 (49; 69; 158)	1646 (303;363;980)
Items in inv.	**Food secure**	11.3** (10.8) [a]	12.7** (10.7) [a]	13.2** (12.0) [a]	12.2** (10.9) [a]
	At risk of hunger	9.4 (5.9) [b]	11.4 (8.5) [a]	8.8 (5.9) [b]	10.0 (7.0) [b]
	Experience hunger	7.3 (5.4) [c]	7.1 (5.7) [b]	7.9 (6.1) [b]	7.3 (5.7) [c]
Anim. in inv.	**Food secure**	1.9** (2.5) [a]	2.2** (3.0) [a]	2.8** (3.4) [a]	2.2** (2.9) [a]
	At risk of hunger	1.3 (1.6) [b]	1.9 (2.4) [a]	1.1 (1.6) [b]	1.5 (1.9) [b]
	Experience hunger	0.7 (1.2) [c]	0.7 (1.3) [b]	0.8 (1.3) [b]	0.8 (1.2) [c]
Dairy in inv.	**Food secure**	0.7** (0.9) [a]	0.8** (1.2) [a]	0.9** (1.1) [a]	0.8** (1.1) [a]
	At risk of hunger	0.6 (0.8) [a]	0.7 (1.0) [a]	0.4 (0.7) [b]	0.6 (0.9) [b]
	Experience hunger	0.3 (0.5) [b]	0.3 (0.5) [b]	0.3 (0.6) [b]	0.3 (0.5) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01
[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; Inv. = Inventory; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.18 Hunger risk classification as related to the HH inventory in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		330 (10;35;285)	178 (84;27;67)	148 (38;31;79)	300 (50;82;168)	135 (25;34;76)	62 (9; 14; 39)	318 (61;87;170)	110 (12;24;74)	65 (14;29;22)	1646 (303;363;980)
Items in inv.	Food secure	12.8* (8.5)	6.4** (6.9) [a]	10.0* (10.5)	17.2** (9.3) [a]	17.1** (14.9) [a]	10.4* (2.3)	13.8** (9.8) [a]	10.0** (7.3) [a]	21.9 (19.6)	12.2** (10.9) [a]
	At risk of hunger	11.5 (5.6)	3.9 (2.4) [b]	10.6 (6.2)	10.3 (6.1) [b]	10.2 (5.8) [b]	9.1 (4.3)	9.0 (6.1) [b]	9.0 (6.3) [a][b]	16.8 (12.7)	10.0 (7.0) [b]
	Experience hunger	9.2 (6.8)	3.2 (2.1) [b]	7.3 (4.8)	7.4 (5.2) [c]	6.4 (5.2) [b]	6.9 (4.1)	6.2 (4.3) [c]	5.6 (4.2) [b]	13.7 (7.2)	7.3 (5.7) [c]
Anim. in inv.	Food secure	1.7* (1.8) [a]	1.0 (2.1)	1.5** (3.1) [a][b]	2.7** (2.4) [a]	4.0** (4.1) [a]	0.9 (0.8)	3.3** (2.8) [a]	1.3* (1.8)	3.4 (4.0)	2.2** (2.9) [a]
	At risk of hunger	0.9 (1.2) [a][b]	0.6 (0.7)	2.1 (1.9) [a]	1.4 (1.6) [b]	2.2 (1.8) [b]	0.9 (1.4)	1.5 (1.9) [b]	1.4 (2.0)	2.4 (3.6)	1.5 (1.9) [b]
	Experience hunger	0.7 (1.2) [b]	0.4 (0.7)	0.9 (1.1) [b]	0.6 (1.2) [c]	1.2 (1.6) [b]	0.6 (0.8)	0.9 (1.4) [b]	0.4 (0.8)	1.5 (1.6)	0.8 (1.2) [c]
Dairy in inv.	Food secure	1.0* (1.1) [a]	0.4 (0.6)	0.6** (1.1) [a][b]	0.9** (1.0) [a]	0.9 (1.2) [a]	0.4 (0.5)	1.1** (1.3) [a]	0.3 (0.7)	1.1 (1.7)	0.8** (1.1) [a]
	At risk of hunger	0.5 (0.8) [b]	0.3 (0.5)	0.9 (1.0) [a]	0.7 (0.8) [a]	0.6 (0.6) [a][b]	0.3 (0.6)	0.5 (0.7) [b]	0.5 (0.9)	0.8 (1.5)	0.6 (0.9) [b]
	Experience hunger	0.3 (0.6) [b]	0.3 (0.5)	0.2 (0.5) [b]	0.3 (0.6) [b]	0.4 (0.6) [b]	0.3 (0.4)	0.3 (0.5) [b]	0.2 (0.4)	0.5 (0.6)	0.3 (0.5) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01
[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; Inv. = Inventory; Anim. = Foods of animal origin; Dairy = Dairy products

Table 8.19 Hunger risk classification as related to the type of dwelling and maternal education in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n1); risk of hunger (n2); experience (n3)]		292 (69;87;136)	1050 (426;239;385)	282 (59; 51; 172)	1074 (122;242;710)	1332 (485;290;557)	1366 (191;329;846)	2698 (676;619;1403)
Type of dwelling$	**Food secure**	1.2** (0.6) [b]	1.2** (0.6) [b]	1.8** (1.0) [b]	1.3** (0.6) [b]	1.2** (0.7) [a]	1.3** (0.6) [b]	1.3** (0.7) [a]
	At risk of hunger	1.5 (1.0) [b]	1.3 (0.7) [b][a]	2.2 (1.3) [a]	1.5 (0.7) [a]	1.4 (0.9) [b]	1.5 (0.8) [a]	1.5 (0.9) [b]
	Experience hunger	1.9 (1.4) [a]	1.4 (0.8) [a]	2.6 (1.0) [a]	1.6 (0.7) [a]	1.7 (1.0) [c]	1.6 (0.9) [a]	1.7 (0.9) [c]
Total n [food secure (n1); risk of hunger (n2); experience (n3)]		279 (67;84;128)	974 (398;217;359)	254 (49; 48;158)	964 (111;217;636)	1228 (447;264;517)	1243 (178;301;764)	2471 (625;565;1281)
Educ.& Level of mother	**Food secure**	2.7* (1.1) [a]	3.8** (1.0) [a]	2.9** (1.1) [a][b]	3.1** (1.1) [a]	3.7** (1.0) [a]	3.0** (1.1) [a]	3.5** (1.1) [a]
	At risk of hunger	2.3 (0.8) [b]	3.5 (0.9) [b]	3.2 (1.1) [a]	2.9 (1.0) [a]	3.5 (1.0) [b]	2.7 (1.0) [b]	3.1 (1.1) [b]
	Experience hunger	2.2 (0.9) [b]	2.9 (1.1) [c]	2.6 (0.9) [b]	2.5 (1.1) [b]	2.8 (1.0) [c]	2.4 (1.0) [c]	2.6 (1.1) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01; [a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; $Type of dwelling: 1 = rick/concrete; 2 = Traditional mud; 3 = Tin; 4 = Plank/wood; 5 = Other. The mean and standard deviation presented in this table is the mean of categories 1 to 5. A lower mean indicates a more formal dwelling &Educ. = Education level of mother: 1 = None; 2 = Primary school; 3 = Std 6-8; 4 = Std 9-10; 5 = Tertiary. The mean and standard deviation presented in this table is the mean of categories 1 to 5. The higher the mean, the higher the level of education of the mother

Table 8.20 Hunger risk classification as related to the type of dwelling and maternal education in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		390 (17;50;323)	209 (95;35;79)	406 (148;88;170)	517 (139;135;243)	145 (31;38;76)	137 (18;34;85)	328 (63;84;181)	226 (30;57;139)	340 (135;98;107)	2698 (676;619;1403)
Type of dwelling[$]	**Food secure**	1.5 (1.1)	1.5** (0.8) [b]	1.5** (0.9) [b]	1.2** (0.4) [b]	1.0 (0.2)	1.1** (0.5) [b]	1.1** (0.3) [b]	1.4 (0.8)	1.0** (0.3) [b]	1.3** (0.7) [a]
	At risk of hunger	1.6 (0.8)	1.7 (1.0) [b][a]	1.9 (1.0) [a]	1.5 (0.9) [a]	1.1 (0.4)	1.2 (0.8) [b][a]	1.2 (0.5) [b][a]	1.5 (0.8)	1.3 (0.9) [b]	1.5 (0.9) [b]
	Experience hunger	1.7 (0.8)	1.9 (0.9) [a]	2.1 (1.0) [a]	1.7 (0.9) [a]	1.2 (0.5)	1.9 (1.5) [a]	1.3 (0.5) [a]	1.4 (0.7)	1.9 (1.2) [a]	1.7 (0.9) [c]
Total n [food secure (n); risk of hunger (n); experience (n)]		351 (16;47;288)	194 (88;32;74)	386 (144;83;159)	410 (110;102;198)	142 (29;38;75)	121 (15;30;76)	316 (61;81;174)	217 (29;55;133)	334 (133;97;104)	2471 (625;565;1281)
Educ.[&] **Level of mother**	**Food secure**	3.6** (1.0) [a]	2.8* (1.0)	3.6** (1.0) [a]	3.4** (1.2) [a]	3.4* (1.2) [a]	3.1** (0.9) [a]	3.7** (1.2) [a]	3.3* (1.0) [a]	3.9** (1.0) [a]	3.5** (1.1) [a]
	At risk of hunger	3.2 (0.9) [a][b]	1.8 (1.1)	3.2 (1.1) [b]	3.0 (1.0) [b]	3.1 (1.1) [a][b]	2.7 (1.3) [a][b]	3.2 (1.1) [b]	2.9 (1.0) [a][b]	3.2 (1.0) [b]	3.1 (1.1) [b]
	Experience hunger	2.7 (1.1) [b]	2.4 (1.0)	2.8 (0.9) [c]	2.5 (1.1) [c]	2.7 (1.2) [b]	2.2 (1.0) [b]	2.6 (1.2) [c]	2.7 (1.0) [b]	2.7 (0.9) [c]	2.6 (1.1) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

$Type of dwelling: 1 = Brick/concrete; 2 = Traditional mud; 3 = Tin; 4 = Plank/wood; 5 = Other. The mean and standard deviation presented in this table is the mean of categories 1 to 5. A lower mean indicates a more formal dwelling

&Educ. = Education level of mother: 1 = None; 2 = Primary school; 3 = Std 6-8; 4 = Std 9-10; 5 = Tertiary. The mean and standard deviation presented in this table is the mean of categories 1 to 5. The higher the mean, the higher the level of education of the mother

Table 8.21 Hunger risk classification as related to HH income and money spent on food in children aged 1 – 9 years nationally and by area of residence: South Africa 1999

Hunger risk classification		Area of Residence [Mean (sd)]						
		Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n [food secure (n1); risk of hunger (n2); experience (n3)]		259 (60;76;123)	932 (374;217;341)	243 (50; 43;150)	929 (101;199;629)	1175 (424;260;491)	1188 (161;275;752)	2363 (585;535;1243)
House-hold income[$]	**Food secure**	3.2 (1.2)	4.2** (1.3) [a]	3.3** (0.8) [a]	3.2** (1.0) [a]	4.1** (1.3) [a]	3.2** (1.1) [a]	3.8** (1.3) [a]
	At risk of hunger	2.9 (0.8)	3.4 (1.1) [b]	2.8 (1.1) [b]	2.8 (1.0) [b]	3.3 (1.1) [b]	2.8 (0.9) [b]	3.1 (1.1) [b]
	Experience hunger	2.8 (0.9)	2.7 (1.0) [c]	2.4 (0.9) [b]	2.4 (0.8) [c]	2.6 (1.0) [c]	2.5 (0.8) [c]	2.5 (0.9) [c]
Total n [food secure (n1); risk of hunger (n2); experience (n3)]		238 (60;67;111)	872 (358;202;312)	233 (51; 41;141)	825 (81;186;558)	1105 (409;243;453)	1063 (141;253;669)	2168 (550;496;1122)
Money spent on food[&]	**Food secure**	3.5** (2.1) [a]	4.9** (2.5) [a]	3.2* (1.9)	2.9** (2.1)	4.7** (2.5) [a]	3.2** (2.1) [a]	4.3** (2.5) [a]
	At risk of hunger	3.1 (2.0) [a][b]	3.8 (2.4) [b]	2.9 (1.8)	2.4 (1.9)	3.7 (2.3) [b]	2.6 (2.0) [b]	3.1 (2.2) [b]
	Experience hunger	2.5 (1.6) [b]	2.9 (1.9) [c]	2.6 (1.9)	2.4 (2.1)	2.8 (1.9) [c]	2.4 (2.0) [b]	2.6 (2.0) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01

[a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05

$Household income (per month): 1 = None; 2 = R100-R500; 3 = R500-R1000; 4 = R1000-R3000; 5 = R3000-R5000; 6 = Over R5000. The mean and standard deviation presented in this table is the mean of categories 1 to 6. The higher the mean, the higher the monthly income

&Money spent on food (per week): 1 = R0-R50; 2 = R50-R100; 3 = R100-R150; 4 = R150-R200; 5 = R200-R250; 6 = R250-R300; 7 = R300-R350; 8 = R350-R400; 9 = Over R400. The mean and standard deviation presented in this table is the mean of categories 1 to 9. The higher the mean, the higher the amount of money spent on food

Table 8.22 Hunger risk classification as related to HH income and money spent on food in children aged 1 – 9 years nationally and by province: South Africa 1999

Hunger risk classification		Province [Mean (sd)]									
		EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n [food secure (n); risk of hunger (n); experience (n)]		349 (15;43;291)	182 (88;24;70)	337 (125;73;139)	445 (114;112;219)	130 (25;34;71)	128 (17;32;79)	267 (51;73;143)	207 (25;51;131)	318 (125;93;100)	2363 (585;535;1243)
House-hold income$	**Food secure**	3.6** (1.1) [a]	2.7** (0.8) [a]	3.9** (1.4) [a]	3.7** (1.1) [a]	4.2** (1.1) [a]	3.4 (1.1)	3.8** (1.2) [a]	3.0** (0.7) [a]	4.8** (1.1) [a]	3.8** (1.3) [a]
	At risk of hunger	2.8 (1.1) [b]	2.3 (0.6) [b]	3.1 (1.0) [b]	2.7 (0.9) [b]	3.4 (1.0) [b]	2.8 (1.1)	3.2 (1.2) [b]	2.8 (0.8) [a][b]	3.8 (0.9) [b]	3.1 (1.1) [b]
	Experience hunger	2.3 (0.8) [c]	2.2 (0.6) [b]	2.6 (1.0) [c]	2.4 (0.8) [c]	2.7 (1.0) [c]	2.9 (0.8)	2.7 (1.0) [c]	2.5 (0.7) [b]	3.1 (0.9) [c]	2.5 (0.9) [c]
Total n [food secure (n); risk of hunger (n); experience (n)]		328 (14;43;271	166 (83;21;62)	329 (125;72;132)	416 (106;110;200)	126 (26;36;64)	101 (15;25;61)	222 (38;59;125)	152 (14;36;102)	328 (129;94;105)	2168 (550;496;1122)
Money spent on food&	**Food secure**	5.7* (3.3) [a]	3.7** (2.0) [a]	4.2** (2.4) [a]	3.8** (2.1) [a]	4.0** (2.1) [a]	3.1 (2.8)	1.9 (1.5)	3.3 (2.7)	6.2** (2.2) [a]	4.3** (2.5) [a]
	At risk of hunger	4.3 (2.9) [a][b]	2.4 (1.7) [b]	3.4 (2.3) [b]	2.5 (1.6) [b]	3.3 (2.4) [a]	2.9 (2.4)	1.8 (1.4)	2.6 (2.1)	4.4 (1.9) [b]	3.1 (2.2) [b]
	Experience hunger	3.5 (2.6)[b]	2.5 (1.3) [b]	2.4 (1.5) [c]	1.9 (1.5) [c]	2.0 (1.6) [b]	2.7 (2.0)	1.6 (1.3)	2.3 (1.4)	3.3 (1.8) [c]	2.6 (2.0) [c]

*Kruskal-Wallis test for three samples; significant for P<0.05; **Kruskal-Wallis test for three samples, significant for P<0.01; [a]; [b] and [c]: different symbols indicate which means (comparing the three risk groups) are significantly different, Bonferroni multiple comparison test, p<0.05; $Household income (per month): 1 = None; 2 = R100-R500; 3 = R500-R1000; 4 = R1000-R3000; 5 = R3000-R5000; 6 = Over R5000. The mean and standard deviation presented in this table is the mean of categories 1 to 6. The higher the mean, the higher the monthly income & Money spent on food (per week): 1 = R0-R50; 2 = R50-R100; 3 = R100-R150; 4 = R150-R200; 5 = R200-R250; 6 = R250-R300; 7 = R300-R350; 8 = R350-R400; 9 = Over R400. The mean and standard deviation presented in this table is the mean of categories 1 to 9. The higher the mean, the higher the amount of money spent on food