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

Hunger risk	Area of Residence										
classification (%)	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

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

Hunger risk classification (%)		Age gr	oups	
	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

^{**} Significant difference between 4 types of residence, p < 0.01, Chi-square test

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

Hunger risk	Province									
classification (%)	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

Hunge				Area of I	Residence	[Mean (sd)]		
classif	ication	Com/rcial	Formal	Informal	Tribal	Urban	Rural	RSA
		Farms	Urban	Urban				
Total	n	277	956	268	960	1233	1237	2735
	ecure (n); risk of (n); experience (n)]	(66; 80; 131)	(388; 220; 357)	(53; 48; 167)	(107;212; 641)	(441; 268; 524)	(173; 292; 772)	(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

Hunge	er risk classification		Age group	[Mean (sd)]	
		Age 1 - 3	Age 4 - 6	Age 7 - 9	RSA
		years	years	years	
Total	n	1139	922	409	2735
	ecure (n); risk of hunger erience (n)]	(278; 251; 610)	(229; 202; 491)	(107; 107; 195)	(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

Hunge					Pro	vince [M	ean (sd)]				
classi	fication	EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total i		355	203	391	442	129	124	295	221	310	2735
	secure (n);	(40:44:200)	(04, 00,70)	(4.40, 00,400)	(444.445.046)	(20, 25, 66)	(44. 24. 02)	(55.00.400)	(20.55.427)	(404: 07: 00)	(000, 005,
	hunger (n);	(16;41;298)	(94; 33;76)	(146, 83, 162)	(111;115;216)	(28, 35, 66)	(11; 31; 82)	(55,80,160)	(29,55,137)	(124; 87; 99)	(683; 625; 1427)
	ence (n)]				-						,
H/A	Food secure	-0.5	-1.1	-0.6*	-0.5*	-0.6	-0.8	-0.9	-0.8	-0.1**	-0.6**
		(1.5)	(1.3)	(1.6)	(1.4)	(1.5)	(1.3)	(1.6)	(1.5)	(1.2) [a]	(1.5) [a]
	At risk of	-0.9	-1.6	-0.7	-0.7	-0.6	-1.3	-1.2	-1.3	-0.9	-1.0
	hunger	(1.4)	(1.6)	(1.3)	(1.6)	(1.8)	(1.8)	(1.5)	(1.4)	(1.4) [b]	(1.5) [b]
	Experience	-1.0	-1.5	-1.0	-0.9	-1.2	-1.2	-1.0	-1.2	-0.9	-1.1
	hunger	(1.5)	(1.5)	(1.5)	(1.5)	(1.8)	(1.7)	(1.3)	(1.3)	(1.2) [b]	(1.5) [b]
W/A	Food secure	0.1	-0.7	-0.1*	-0.1**	-0.1	-1.0	-0.7	-1.1	0.2**	-0.2**
		(1.2)	(1.2)	(1.4) [a]	(1.2) [a]	(1.3)	(1.8)	(1.1)	(1.3)	(1.3) [a]	(1.3) [a]
	At risk of	-0.4	-1.0	-0.4	-0.3	-0.3	-0.8	-0.9	-1.0	-0.6	-0.6
	hunger	(1.2)	(1.4)	(1.2) [a][b]	(1.2) [a][b]	(1.5)	(1.6)	(1.1)	(1.1)	(1.3) [b]	(1.3) [b]
	Experience	-0.4	-0.9	-0.6	-0.6	-0.2	-1.2	-1.0	-1.1	-0.8	-0.7
	hunger	(1.2)	(1.1)	(1.2)[b]	(1.1) [b]	(1.4)	(1.2)	(1.0)	(1.0)	(1.2) [b]	(1.2) [b]
W/H	Food secure	0.7	0.0	0.4	0.3*	0.5	-0.5	-0.1	-0.9	0.4**	0.2**
		(1.0)	(1.3)	(1.4)	(1.2)	(1.5)	(1.4)	(1.2)	(1.2) [b]	(1.2) [a]	(1.3) [a]
	At risk of	0.2	0.1	0.1	0.3	0.2	0.0	-0.2	-0.3	0.0	0.047
	hunger	(0.9)	(1.2)	(1.2)	(1.4)	(1.8)	(1.8)	(1.3)	(0.9)[a]	(1.2) [b]	(1.3) [a][b]
	Experience	0.3	0.0	0.1	0.0	0.7	-0.5	-0.5	-0.5	-0.2	-0.036
	hunger	(1.2)	(1.3)	(1.1)	(1.2)	(1.3)	(1.2)	(1.2)	(0.9) [a][b]	(1.1) [b]	(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 r				Area of I	Residence	[Mean (sd)]		
classific	ation	Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total n		295	1046	285	1081	1331	1376	2707
	re (n); risk of ; experience (n)]	(69; 86;140)	(425;235;386)	(59; 53;173)	(123;243;715)	(484;288;559)	(192;329;855)	(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]
(1.0)	At risk of hunger Experience	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]
(***3)	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

Hunge				Area of I	Residence	[Mean (sd)]		
classifi	cation	Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
Total r		295	1046	285	1081	1331	1376	2707
	cure (n); risk of n); experience (n)]	(69; 86;140)	(425;235;386)	(59; 53;173)	(123;243;715)	(484;288;559)	(192;329;855)	(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]
(9)	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]
(9)	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	Age 4 - 6	Age 7 - 9	RSA
		years	years	years	
Total n		1238	1027	442	2707
	ure (n); risk of hunger ience (n)]	(297;279;662)	(262;221;544)	(117;117;208)	(676;617;1414)
Energy	Food secure	4354** (1888) [a]	5989** (2485) [a]	6485** (2534) [a]	5356** (2423) [a]
Total n [food secure (n); experien Energy (kJ) Vit.C (mg) F Vit.A (RE)	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 (ma)	Food secure	48.3 (112) [a]	45.4 (73.0) [a]	51.0 (85.1)	47.6** (94.0) [a]
(9)	At risk of hunger	30.9 (71.7) [b]	26.1 (42.4) [b]	75.8 (499)	37.7 (224) [a][b]
(mg)	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	Age 4 - 6	Age 7 - 9	RSA
		years	years	years	
Total r	1	1238	1027	442	2707
	cure (n); risk of hunger erience (n)]	(297;279;662)	(262;221;544)	(117;117;208)	(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]
(9)	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]
(9)	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]
(9)	At risk of hunger	340 (312) [a][b]	336 (288) [b]	273 (255) [b]	326 (294) [b]
0-** 0-	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 r			•		Pro	vince [N	lean (so	d)]			
classific	ation	EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n		392	206	407	524	148	140	326	222	342	2707
_	re (n); risk of ; experience	(17;47;328)	(93;35;78)	(150;87;170)	(140;136;248)	(31;39;78)	(19;32;89)	(62;86;178)	(28;56;138)	(136;99;107)	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 ı				-	Pro	vince [N	lean (so	d)]			
classific	ation	EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n	<i>(</i>)	392	206	407	524	148	140	326	222	342	2707
	re (n); risk of ; experience	(17;47;328)	(93;35;78)	(150;87;170)	(140;136;248)	(31;39;78)	(19;32;89)	(62;86;178)	(28;56;138)	(136;99;107)	(676;617; 1414)
lron (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				Area of	Residence	[Mean (sd)]		
classific	cation	Com/rcial Farms	Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
	Total n [food secure (n); risk of hunger (n); experience (n)]		1017 (416;227;374)			1291 (473;277;541)	1366 (186;329;851)	2657 (659;606;1392)
Items in proc.	Food secure At risk of hunger	(68;84;137) 34.1 (24.0) 34.1 (17.3)	53.9** (28.3) [a] 46.6 (22.3) [b]	34.6 (15.2) 36.6 (16.4)	29.0* (15.8) [a] 28.0 (12.7) [a][b]	51.6** (27.8) [a] 44.8 (21.7) [b]	30.8** (19.3) [a] 29.5 (14.2) [a]	45.8** (27.3) [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	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]
proc.	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	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]
proc.	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	Age 4 - 6	Age 7 - 9	RSA
		years	years	years	
Total n		1213	1006	438	2657
[food section] [food section]	ure (n); risk of hunger ience (n)]	(289; 275; 649)	(257; 214; 535)	(113; 117; 208)	(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]
6.00	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	Food secure	9.7** (6.0) [a]	10.7** (7.0) [a]	11.5** (6.4) [a]	10.4** (6.5) [a]
proc.	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	Food secure	2.8** (2.0) [a]	3.0** (2.4) [a]	3.2** (2.2) [a]	2.9** (2.2) [a]
proc.	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				Pr	ovince [l	Mean (s	d)]			
classific	ation	EC	FS	G/TENG	KZN	M/GA	NC `	, NP	NW	WC	RSA
Total n		395	206	352	521	147	144	330	220	342	2657
[food sec of hunge	cure (n); risk r (n);	(16;50;329)	(94;34;78)	(134;71;147)	(138;137;246)	(30; 39; 78)	(19; 34;91)	(63;87;180)	(29;55;136)	(136;99;107)	(659;606; 1392)
experience (n)]											,
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]
proo.	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]
*16	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)]		
classific			Formal Urban	Informal Urban	Tribal	Urban	Rural	RSA
	Total n [food secure (n); risk of hunger (n); experience (n)]		413 (122; 79; 212)	138 913 (31; 24; 83) (97; 208; 608) (153		551 (153;103;295)	1095 (150;260;685)	1646 (303;363;980)
Items in inv.	Food secure At risk of	9.6 (7.4) 10.4	13.8** (13.8) [a] 12.1	10.2 (7.3) 8.5	12.3** (8.9) [a] 9.3	13.1** (12.8) [a] 11.3	11.3** (8.5) [a] 9.5	12.2** (10.9) [a] 10.0
	hunger Experience hunger	(7.8) 8.0 (6.0)	(9.0) [a][b] 9.1 (7.4) [b]	(6.1) 8.0 (6.0)	(5.8) [b] 6.5 (4.6) [c]	(8.5) [a] 8.8 (7.1) [b]	(6.3) [b] 6.7 (4.8) [c]	(7.0) [b] 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	Age 4 - 6	Age 7 - 9	RSA
		years	years	years	
Total n		1631	654	276	1646
	ure (n); risk of hunger ience (n)]	(126; 162; 428)	(128; 132; 394)	(49; 69; 158)	(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 r	risk				Pr	ovince [l	Mean (s	d)]			
classific	ation	EC	FS	G/TENG	KZN	M/GA	NC `	NP	NW	WC	RSA
Total n		330	178	148	300	135	62	318	110	65	1646
[food sec	ure (n); risk										
of hunger	r (n);	(10;35;285)	(84;27;67)	(38;31;79)	(50;82;168)	(25;34;76)	(9; 14; 39)	(61;87;170)	(12;24;74)	(14;29;22)	(303;363;980)
experience											
Items in	Food secure	12.8*	6.4**	10.0*	17.2**	17.1**	10.4*	13.8**	10.0**	21.9	12.2**
inv.		(8.5)	(6.9) [a]	(10.5)	(9.3) [a]	(14.9) [a]	(2.3)	(9.8) [a]	(7.3) [a]	(19.6)	(10.9) [a]
	At risk of	11.5	3.9	10.6	10.3	10.2	9.1	9.0	9.0	16.8	10.0
	hunger	(5.6)	(2.4) [b]	(6.2)	(6.1) [b]	(5.8) [b]	(4.3)	(6.1) [b]	(6.3) [a][b]	(12.7)	(7.0) [b]
	Experience	9.2	3.2	7.3	7.4	6.4	6.9	6.2	5.6	13.7	7.3
	hunger	(6.8)	(2.1) [b]	(4.8)	(5.2) [c]	(5.2) [b]	(4.1)	(4.3) [c]	(4.2) [b]	(7.2)	(5.7) [c]
Anim.	Food secure	1.7*	1.0	1.5**	2.7**	4.0**	0.9	3.3**	1.3*	3.4	2.2**
in inv.		(1.8) [a]	(2.1)	(3.1) [a][b]	(2.4) [a]	(4.1) [a]	(8.0)	(2.8) [a]	(1.8)	(4.0)	(2.9) [a]
	At risk of	0.9	0.6	2.1	1.4	2.2	0.9	1.5	1.4	2.4	1.5
	hunger	(1.2) [a][b]	(0.7)	(1.9) [a]	(1.6) [b]	(1.8) [b]	(1.4)	(1.9) [b]	(2.0)	(3.6)	(1.9) [b]
	Experience	0.7	0.4	0.9	0.6	1.2	0.6	0.9	0.4	1.5	0.8
	hunger	(1.2) [b]	(0.7)	(1.1) [b]	(1.2) [c]	(1.6) [b]	(8.0)	(1.4) [b]	(8.0)	(1.6)	(1.2) [c]
Dairy in	Food secure	1.0*	0.4	0.6**	0.9**	0.9	0.4	1.1**	0.3	1.1	0.8**
inv.		(1.1) [a]	(0.6)	(1.1) [a][b]	(1.0) [a]	(1.2) [a]	(0.5)	(1.3) [a]	(0.7)	(1.7)	(1.1) [a]
	At risk of	0.5	0.3	0.9	0.7	0.6	0.3	0.5	0.5	0.8	0.6
	hunger	(0.8) [b]	(0.5)	(1.0) [a]	(0.8) [a]	(0.6) [a][b]	(0.6)	(0.7) [b]	(0.9)	(1.5)	(0.9) [b]
	Experience	0.3	0.3	0.2	0.3	0.4	0.3	0.3	0.2	0.5	0.3
	hunger	(0.6) [b]	(0.5)	(0.5) [b]	(0.6) [b]	(0.6) [b]	(0.4)	(0.5) [b]	(0.4)	(0.6)	(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 ris				Area of	Residence	[Mean (sd)]		
classificat	classification		Formal	Informal	Tribal	Urban	Rural	RSA
		Farms	Urban	Urban				
Total n		292	1050	282	1074	1332	1366	2698
	e (n1); risk of experience (n3)]	(69;87;136)	(426;239;385)	(59; 51; 172)	(122;242;710)	(485;290;557)	(191;329;846)	(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]
awoning	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]
	e (n1); risk of 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	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]
mother	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 i	risk				Pr	ovince [Mean (s	id)]			
classific	classification		FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n	uro (n), rick of	390	209	406	517	145	137	328	226	340	2698
hunger (n)	ure (n); risk of <u>);</u> experience (n)]	(17;50;323)	(95;35;79)	(148;88;170)	(139;135;243)	(31;38;76)	(18;34;85)	(63;84;181)	(30;57;139)	(135;98;107)	(676;619;1403)
Type of dwel-	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]
ling ^{\$}	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 secund number (n)	ure (n); risk of); 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	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]
of mother	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

[&]amp;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 ris			•	Area of	Residence	[Mean (sd)]		
classificat	ion	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	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]
income ^{\$}	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]
	e (n1); risk of 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 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]
food ^{&}	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 r					Pr	ovince [Mean (s	sd)]			
classifica	ation	EC	FS	G/TENG	KZN	M/GA	NC	NP	NW	WC	RSA
Total n		349	182	337	445	130	128	267	207	318	2363
[food secu hunger (n)	[food secure (n); risk of hunger (n); experience (n)]		(88;24;70)	(125;73;139)	(114;112;219)	(25;34;71)	(17;32;79)	(51;73;143)	(25;51;131)	(125;93;100)	(585;535;1243)
House- hold	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]
income ^{\$}	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		328	166	329	416	126	101	222	152	328	2168
[food secu hunger (n)	re (n); risk of ; experience (n)]	(14;43;271	(83;21;62)	(125;72;132)	(106;110;200)	(26;36;64)	(15;25;61)	(38;59;125)	(14;36;102)	(129;94;105)	(550;496;1122)
Money spent	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]
on food ^{&}	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