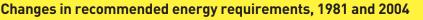
Updated parameters

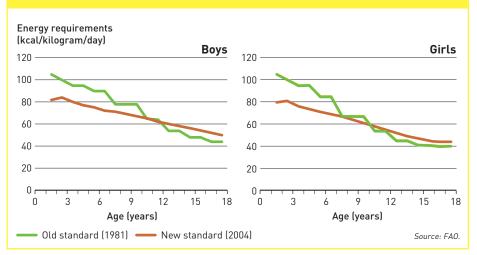
his technical annex describes the impact of a revision in two key parameters used in the FAO methodology for estimating undernourishment. The revised parameters were introduced following new population statistics from the United Nations Population Division in 2006 and new human energy requirements established by FAO, the United Nations University (UNU) and the World Health Organization (WHO) in 2004.22 FAO utilizes both parameters for deriving minimum dietary energy requirements (MDERs) on a per person basis, which are unique for each year and country in the world. The revised parameters were applied to the 1990-92 benchmark period and to all subsequent years for which FAO has produced results. As a result, undernourishment statistics and the associated progress and setbacks in terms of World Food Summit (WFS) and Millennium Development Goal (MDG) hunger reduction targets have changed over the entire reporting period. At times, this has resulted in substantial changes to the estimates presented on a country-by-country basis in Table 1 (page 48).

Minimum dietary energy requirements

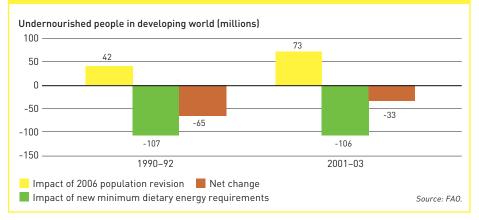
Most significant in terms of their impact on undernourishment estimates are the new standards of human energy requirements released by FAO, the UNU and WHO. Used for the first time in *The State* of Food Insecurity in the World 2008, these new standards affect the *minimum* dietary energy requirements. The MDER is a crucial factor in FAO's undernourishment methodology as it establishes a cutoff point, or threshold, to estimate the number and prevalence (percentage) of the hungry population in a country. When the threshold changes, so too may the number and percentage of people estimated to be undernourished.

Dietary energy requirements differ by gender and age. They also vary for different levels of activity. Accordingly, MDERs, the amount of energy needed for light activity and a minimum acceptable weight for attained height, vary by country and from year to year depending on the gender and age structure of the population. For an entire population, the MDER is the weighted average of the MDERs of the different genderage groups in the population. It is expressed in kilocalories (kcal) per person per day. Particularly in countries with a high prevalence of undernourishment, a large proportion of the population typically





Changes due to revised population estimates and minimum energy requirements



consumes dietary energy levels close to the cut-off point, making the MDER a highly sensitive parameter. In most countries, the new human energy requirement standards have resulted in an overall drop in both the amount of food required and the prevalence of undernourishment. The new standards have meant a drop in MDERs for children and a slight increase in those for adolescents and adults. The difference has been greatest in those countries with a relatively high proportion of children under 12 years of age. Figure A compares the old and new standards for boys and girls. On average, the new standards have resulted in a drop in MDERs of 88 kcal per person per day in the world, a decrease in food needs equivalent to almost 60 million tonnes of cereals. The effect of these new standards has been to reduce the estimated number of undernourished people in the developing world by 107 million in the 1990-92 base period and by 106 million in 2001–03 (the most recent period that can be used for

comparison), all other factors held constant (green bars in Figure B).

Revised population estimates

This edition of The State of Food Insecurity in the World uses revised population estimates produced by the United Nations Population Division in 2006. The 2006 estimates are provided for the period 1950–2005 and with projections up to 2050. The 2006 revision includes higher estimates for most countries, with the result that population estimates for developing countries have increased by some 35 million people for the 1990–92 benchmark period, while the revised population estimates are some 53 million higher than previous estimates for 2003–05.

Given that estimated country-level total dietary energy supplies to calculate undernourishment have not changed, available food is shared among more people, thus reducing the daily energy supply available per person, and increasing the prevalence of undernourishment in most countries owing to changes in the population.

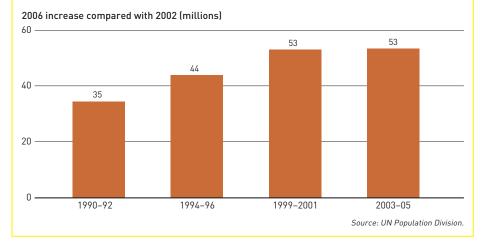
The 2006 revised population estimates also updated gender and age distributions. Most significant are the changes in long-term trends for ageing. As countries develop, population growth rates typically decline and life expectancy increases. As the proportion of adults relative to children increases, food needs rise, with a corresponding increase in undernourishment. Between 1990-92 and 2003-05, the number of undernourished people in developing countries increased by some 66 million as a result of an ageing population, all other factors held constant.

Population pyramids for China help illustrate these demographic trends. As China's adult population increased relative to the number of children between 1990-02 and 2003-05, MDERs increased by an average of 43 kcal per person per day, resulting in an increase in the number of undernourished people of 70 million. The combined effect of increases in the number of people and changes to the gender-age structure together with food redistribution available for human consumption based on the 2006 population revision is an increase in undernourishment estimates in the developing world of some 42 million people for 1990–92 and of about 73 million people for 2001-03, all other factors held constant (yellow bars in Figure B). The increase is greatest in countries with large populations and high population growth rates.

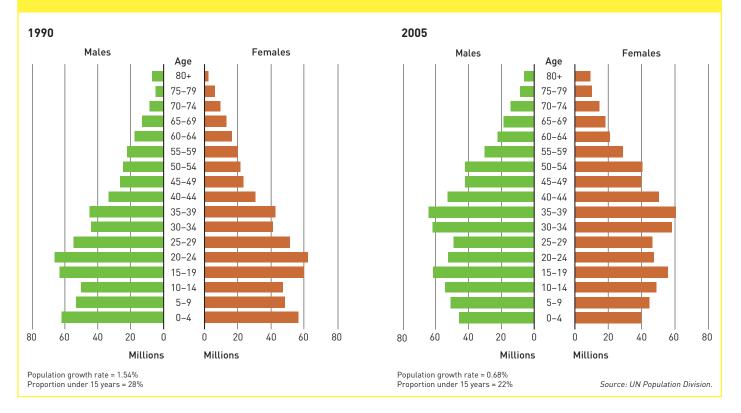
Net impact

These important changes to key parameters used in FAO's hunger estimates have led to changes in

Difference between 2002 and 2006 United Nations population estimates for developing countries







China's changing population structure

both the numbers and trends in undernourishment around the world. as discussed in the main text of this report.

The combined difference of new energy requirements and the 2006 population revisions is a decrease in FAO's estimates of undernourishment in the developing world of 65 million people in 1990-92 and of 33 million people in 2001-03 (brown bars in Figure B).

Other data changes

A number of other changes have been made to the data that affect the global undernourishment estimates. The "developing world" now includes the countries of the Commonwealth of Independent States (CIS), with the

exception of Belarus, Republic of Moldova, the Russian Federation and Ukraine (which are now included in Europe). This has had the effect of adding 10 million undernourished people in the developing world in the base period (1990–92).

Furthermore, new information obtained by FAO has resulted in major revisions to the data for China, Indonesia and Myanmar, adding a further 50 million undernourished people in the base period. The ongoing process of reviewing the food balance sheets and supply utilization accounts has also resulted in small changes to the data for many countries, with the overall result of increasing the number of undernourished in the developing world in the base period by about

5 million. The combined impact of these other changes has been an increase in the number of undernourished in the developing world of about 65 million in the base period and one of 48 million in 2001-03.

Table 1. Prevalence of undernourishment and progress towards the World Food Summit (WFS)¹ and the Millennium Development Goal (MDG)² targets in developing countries³

WORLD Region/subregion/country (undernourishment category)	Total population		nber of peo dernourish		Progress in number towards WFS target = 0.5*	WFS trend	und	roportion lernourisl tal popula	ned ation	Progress in prevalence towards MDG target = 0.5**	MDG trend	
	2003–05 (millions)	1990-92	1995–97 (millions)	2003-05	5	1990–92 to 2003–05	1990-92	1995–97 [%]		-	1990–92 to 2003–05	
WORLD	6 406.0	841.9	831.8	848.0	1.0		16	14	13	0.8	▼	
Developed countries	1 264.9	19.1	21.4	15.8	0.8	▼	-	-	-	na	na	
Developing world	5 141.0	822.8	810.4	832.2	1.0		20	18	16	0.8	▼	
ASIA AND THE PACIFIC***	3 478.6	582.4	535.0	541.9	0.9	▼	20	17	16	0.8	▼	
East Asia	1 386.1	183.5	152.0	131.8	0.7	▼	15	12	10	0.6	▼	
China [2]	1 312.4	178.0	143.7	122.7	0.7	▼	15	12	9	0.6	▼	
People's Dem. Rep. of Korea [4]	23.5	4.2	6.7	7.6	1.8		21	31	32	1.6		
Mongolia [4]	2.6	0.7	1.0	0.8	1.1		30	40	29	1.0	▼	
Republic of Korea [1]	47.7	ns	ns	ns	na	na	-	_	_	na	na	
Southeast Asia	544.5	105.6	88.6	86.9	0.8	▼	24	18	16	0.7	▼	
Cambodia [4]	13.7	3.8	4.8	3.6	0.9	▼	38	41	26	0.7	▼	
Indonesia [3]	223.2	34.5	26.7	37.1	1.1		19	13	17	0.9	▼	
Lao People's Dem. Rep. [3]	5.6	1.1	1.3	1.1	1.0	•	27	26	19	0.7	▼	
Malaysia [1]	25.2	ns	ns	ns	na	na	_	_	_	na	na	
Myanmar [3]	47.6	18.1	14.8	8.8	0.5	▼	44	34	19	0.4	▼	
Philippines [3]	82.9	13.3	12.8	13.3	1.0	•	21	18	16	0.8	▼	
Thailand [3]	62.6	15.7	12.3	10.9	0.7	▼	29	21	17	0.6	▼	
Viet Nam [3]	83.8	18.7	15.6	11.5	0.6	. ▼	28	21	14	0.5	. ▼	
South Asia	1 468.4	282.5	284.8	313.6	1.1	•	25	22	21	0.9	•	
Bangladesh [4]	150.5	41.6	51.4	40.1	1.0	- -	36	40	27	0.7	•	
India [4]	1 117.0	206.6	199.9	230.5	1.0	•	24	21	21	0.9	•	
Nepal [3]	26.6	4.0	5.3	4.0	1.0	•	24	24	15	0.7	•	
Pakistan [4]	155.4	25.7	23.7	35.0	1.4		22	18	23	1.0	•	
Sri Lanka [4]	19.0	4.6	4.4	4.0	0.9	•	27	24	23	0.8	•	
Central Asia	57.7	4.0	4.4	6.5	1.6		8	9	11	1.4		
						A	-	7			A	
Kazakhstan [1]	15.1	ns	ns	ns	na	na			-	na	na	
Kyrgyzstan [1]	5.2	0.8	0.6	ns	na	•	17	13	-	na		
Tajikistan [4]	6.5	1.8	2.4	2.2	1.2		34	42	34	1.0	•	
Turkmenistan [2]	4.8	0.3	0.4	0.3	0.8	•	9	9	6	0.6	•	
Uzbekistan [3]	26.2	1.0	1.1	3.6	3.7	-	5	5	14	3.0		
Western Asia	15.9	6.1	4.4	2.2	0.4	•	38	27	14	0.4		
Armenia [4]	3.0	1.6	1.1	0.6	0.4	•	46	34	21	0.5	•	
Azerbaijan [3]	8.3	2.0	2.1	1.0	0.5	▼	27	27	12	0.4	▼	
Georgia [3]	4.5	2.5	1.2	0.6	0.2	▼	47	24	13	0.3	▼	
LATIN AMERICA AND THE CARIBBEAN	544.2	52.6	51.8	45.2	0.9	▼	12	11	8	0.7	▼	
North and Central America	141.9	9.3	10.2	8.8	0.9	▼	8	8	6	0.8	▼	
Costa Rica [1]	4.3	ns	ns	ns	na	na	-	_	_	na	na	
El Salvador [3]	6.6	0.5	0.6	0.6	1.3		9	11	10	1.1		
Guatemala [3]	12.4	1.3	1.7	2.0	1.6		14	17	16	1.2		
Honduras [3]	6.7	1.0	0.9	0.8	0.8	▼	19	16	12	0.6	▼	
Mexico [1]	103.4	ns	4.3	ns	na	na	-	5	-	na	na	
Nicaragua [4]	5.4	2.2	1.9	1.2	0.5	V	52	40	22	0.4	V	
Panama [3]	3.2	0.4	0.6	0.5	1.2		18	20	17	0.9	▼	
The Caribbean	33.7	7.5	8.6	7.6	1.0		26	28	23	0.9	▼	
Cuba [1]	11.2	0.6	1.5	ns	na	•	5	14	-	na	•	

(continued)

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Table 1. Prevalence of undernourishment and progress towards the World Food Summit (WFS)¹ and theMillennium Development Goal (MDG)² targets in developing countries³

WORLD Region/subregion/country (undernourishment category)	Total population		nber of peo dernourish		Progress in number towards WFS target = 0.5*	WFS trend	und	roportion lernourish tal popula	ned	Progress in prevalence towards MDG target = 0.5**	MDG trend
	2003–05 (millions)	1990-92	1995–97 (millions)	2003-05		1990–92 to 2003–05	1990-92	1995–97 (%)	2003-05	5	1990–92 to 2003–05
Dominican Republic [4]	9.3	2.0	2.0	2.0	1.0	<►	27	24	21	0.8	▼
Haiti [5]	9.2	4.5	4.8	5.3	1.2		63	60	58	0.9	▼
Jamaica [2]	2.7	0.3	0.2	0.1	0.5	▼	11	7	5	0.4	▼
Trinidad and Tobago [3]	1.3	0.1	0.2	0.1	1.0	•	11	13	10	0.9	▼
South America	368.6	35.8	33.0	28.8	0.8	▼	12	10	8	0.7	▼
Argentina [1]	38.4	ns	ns	ns	na	na	_	_	-	na	na
Bolivia [4]	9.0	1.6	1.5	2.0	1.2		24	20	22	0.9	▼
Brazil [2]	184.3	15.8	15.6	11.7	0.7	▼	10	10	6	0.6	▼
Chile [1]	16.1	0.9	ns	ns	na	▼	7	_	-	na	▼
Colombia [3]	44.3	5.2	4.2	4.3	0.8	▼	15	11	10	0.7	▼
Ecuador [3]	12.9	2.5	2.0	1.9	0.8	▼	24	17	15	0.6	▼
Guyana [2]	0.7	0.1	0.1	0.0	0.3	▼	18	10	6	0.3	•
Paraguay [3]	5.8	0.7	0.5	0.7	1.0		16	11	11	0.7	▼
Peru [3]	27.0	6.1	4.9	3.9	0.6	▼	28	20	15	0.5	▼
Suriname [2]	0.4	0.0	0.0	0.0	0.7		11	8	7	0.6	
Uruquay [1]	3.3	0.2	ns	ns	na	 ▼	5	_	_	na	
Venezuela (Bolivarian Rep. of) [3]	26.3	2.1	3.1	3.2	1.6	▼	10	14	12	1.2	·
	20.0	2.1	0.1	0.2	1.0	•	10	14	12	1.2	-
NEAR EAST AND NORTH AFRICA***	420.0	19.1	29.6	33.0	1.7		6	8	8	1.3	
Near East	270.1	15.0	27.0	28.4	1.7		7	11	11	1.3	
Iran (Islamic Republic of) [1]	68.7	ns	ns	20.4 ns	na	na	-	-	-	na	na
Jordan [1]	5.4		0.2				_	5	_	na	na
Kuwait [1]	2.6	ns 0.4	0.2	ns	na	na ▼	20	5	_		 ▼
Lebanon [1]	4.0			ns	na		- 20	-	_	na	
		ns	ns	ns	na	na	_			na	na
Saudi Arabia [1]	23.0	ns	ns	ns	na	na			-	na	na
Syrian Arab Republic [1]	18.4	ns	ns	ns	na	na	-	-	-	na	na
Turkey [1]	72.0	ns	ns	ns	na	na	-	-	-	na	na
United Arab Emirates [1]	3.9	ns	ns	ns	na	na	-	-	-	na	na
Yemen [4]	20.5	3.8	5.0	6.5	1.7	A	30	31	32	1.1	
North Africa	149.9	4.0	4.3	4.6	1.2		-	-	-	na	na
Algeria [1]	32.4	ns	1.5	ns	na	na	_	5	-	na	na
Egypt [1]	71.6	ns	ns	ns	na	na	-	-	-	na	na
Libyan Arab Jamahiriya [1]	5.8	ns	ns	ns	na	na	_	-	-	na	na
Morocco [1]	30.2	1.2	1.4	ns	na	▼	5	5	-	na	•
Tunisia [1]	10.0	ns	ns	ns	na	na	-	-	_	na	na
SUB-SAHARAN AFRICA***	698.3	168.8	194.0	212.1	1.3		34	34	30	0.9	•
Central Africa	93.1	22.0	38.4	53.3	2.4		34	51	57	1.7	
Cameroon [4]	17.4	4.3	5.1	4.0	0.9	T	34	35	23	0.7	•
Central African Republic [5]	4.1	4.3	1.8	1.8	1.2	• •	47	50	43	0.7	•
Chad [5]	9.8	3.7	3.8	3.8	1.2		59	50	43 39	0.7	•
											• •
Congo [4]	3.5	1.0	1.2	0.8	0.8	•	40	43	22	0.5	
Democratic Republic of the Congo [5		11.4	26.5	43.0	3.8	A	29	57	76	2.6	
Gabon [1]	1.3	0.0	ns	ns	na	•	5	-	-	na	
East Africa	242.4	77.1	86.1	86.0	1.1		45	44	35	0.8	•
Burundi [5]	7.6	2.6	3.6	4.8	1.9		44	57	63	1.4	
Eritrea****[5]	4.4	2.1	2.1	3.0	1.4		67	64	68	1.0	A

(continued)

Table 1. Prevalence of undernourishment and progress towards the World Food Summit (WFS)¹ and the Millennium Development Goal (MDG)² targets in developing countries³

WORLD Region/subregion/country (undernourishment category)	Total population		nber of peo dernourish		Progress in number towards WFS target = 0.5*	WFS trend	und	roportion lernourisl tal popula	hed	Progress in prevalence towards MDG target = 0.5**	MDG trend	
	2003–05 (millions)	1990-92	1995–97 (millions)	2003-05		1990–92 to 2003–05	1990-92	1995–97 (%)	2003-0	5	1990–92 to 2003–05	
Ethiopia****[5]	77.0	37.4	39.3	35.2	0.9	▼	71	63	46	0.6	▼	
Kenya [4]	34.7	8.0	8.4	11.0	1.4		33	30	32	1.0	▼	
Rwanda [5]	9.1	3.2	3.3	3.6	1.2		45	56	40	0.9	▼	
Sudan [4]	36.2	8.3	7.2	7.4	0.9	▼	31	24	21	0.7	▼	
Uganda [3]	28.0	3.6	5.1	4.1	1.1		19	23	15	0.8	▼	
United Republic of Tanzania [5]	37.5	7.5	12.7	13.0	1.7		28	41	35	1.2		
Southern Africa	99.2	32.4	35.8	36.8	1.1		45	43	37	0.8	▼	
Angola [5]	15.6	7.2	7.3	7.1	1.0	▼	66	58	46	0.7	▼	
Botswana [4]	1.8	0.3	0.4	0.5	1.7		20	24	26	1.3		
Lesotho [3]	2.0	0.2	0.2	0.3	1.2		15	13	15	1.0	▲ ►	
Madagascar [5]	18.1	3.9	5.4	6.6	1.7		32	37	37	1.2		
Malawi [4]	12.9	4.3	3.7	3.8	0.9	▼	45	36	29	0.7	▼	
Mauritius [2]	1.2	0.1	0.1	0.1	1.0		7	6	6	0.9	▼	
Mozambique [5]	20.1	8.2	8.6	7.5	0.9	▼	59	52	38	0.6	▼	
Namibia [3]	2.0	0.4	0.5	0.4	0.9		29	29	19	0.7	▼	
Swaziland [3]	1.1	0.1	0.2	0.2	1.8		12	20	18	1.5		
Zambia [5]	11.3	3.3	3.9	5.1	1.5		40	41	45	1.1		
Zimbabwe [5]	13.0	4.3	5.5	5.2	1.2		40	46	40	1.0	∢ ►	
West Africa	263.7	37.3	33.8	36.0	1.0	▼	20	16	14	0.7	▼	
Benin [3]	8.2	1.5	1.7	1.6	1.1		28	26	19	0.7	▼	
Burkina Faso [3]	13.5	1.3	1.3	1.3	1.0		14	12	10	0.7	▼	
Côte d'Ivoire [3]	18.3	2.0	2.4	2.6	1.3		15	16	14	0.9	▼	
Gambia [4]	1.6	0.2	0.4	0.5	2.3		20	31	30	1.5		
Ghana [2]	22.1	5.4	3.0	1.9	0.3	▼	34	16	9	0.3	▼	
Guinea [3]	8.8	1.2	1.3	1.5	1.3		19	18	17	0.9	▼	
Liberia [5]	3.4	0.6	0.9	1.3	2.2		30	39	40	1.3		
Mali [3]	11.3	1.1	1.3	1.2	1.1		14	15	11	0.8	▼	
Mauritania [2]	2.9	0.2	0.2	0.2	1.2	▲ ►	10	8	8	0.8	▼	
Niger [4]	12.8	3.1	3.8	3.7	1.2		38	40	29	0.7	▼	
Nigeria [2]	138.0	14.7	10.8	12.5	0.8	▼	15	10	9	0.6	▼	
Senegal [4]	11.5	2.3	3.0	3.0	1.3		28	32	26	0.9	▼	
Sierra Leone [5]	5.4	1.9	1.8	2.5	1.3		45	43	47	1.0		
Togo [5]	6.1	1.8	1.8	2.3	1.2		45	39	37	0.8	▼	

Notes: Please see page 55.



Table 2. Selected food, nutrition and development indicators, classified by undernourishment category, income and region

C RT OF Region/country (kcal/day) (% kcal) 35% OR MORE UNDERNOURISHED	AP	CH	10	Pro					Urban population	Child malnutrition (most recent) Under- Stunting weight	
					tein	Fa	at	2005			
35% OR MORE UNDERNOURISHED				(% k	(cal)			(%)	(%)	(°	%)
Low income											
Latin America and the Caribbean											
Haiti 1 840 49 8 6	7	76	Н	9	L	15	L	28*	38	22	24
Sub-Saharan Africa											
Burundi 1 630 17 36 1	2	84	Н	11	R	6	L	35	10	39	53
Central African Republic 1 900 23 31 15	12	61	R	9	L	30	Н	56	38	29	38
Chad 1 980 53 8 6	6	62	R	12	R	26	R	21	25	37	41
Democratic Rep. of the Congo 1 500 20 56 8	2	80	Н	6	L	14	L	46	32	31	38
Eritrea 1 530 68 4 11	5	70	R	12	R	18	R	23	19	40	38
Ethiopia 1 810 66 14 3	5	79	Н	11	R	10	L	47	16	38	47
Liberia 2 010 40 24 20	3	68	R	7	L	25	R	66	57	26	39
Madagascar 2 010 58 20 4	7	79	Н	9	L	12	L	28	27	42	48
Mozambique 2 070 45 34 9	2	78	Н	8	L	15	L	27	34	24	41
Rwanda 1 940 16 39 4	3	82	Н	9	L	9	L	42	18	23	45
Sierra Leone 1 910 50 10 15	4	67	R	10	L	23	R	46	40	30	40
Togo 2 020 49 26 10	3	72	R	9	L	19	R	44	39	26	24
United Republic of Tanzania 2 010 53 17 7	6	76	Н	10	L	14	L	46	24	44	50
Zambia 1 890 62 14 7	5	74	R	10	L	16	R	23	35	20	50
Zimbabwe 2 040 56 2 13	6	66	R	9	L	24	R	19	35	17	29
Lower middle income	-										
Sub-Saharan Africa											
Angola 1 880 37 27 11	8	71	R	9	L	20	R	8	53	31	45
20 TO 34% UNDERNOURISHED											
Low income											
Asia and the Pacific											
Bangladesh 2 230 80 2 7	3	81	Н	9	L	11	L	20	25	48	43
Cambodia 2 160 73 3 3	9	76	Н	10	L	14	L	31	19	36	37
Dem. People's Rep. of Korea 2 150 61 7 6	7	74	R	11	R	15	L	nd	61	23	37
Pakistan 2 340 49 1 16	15	63	R	10	L	27	R	21	34	38	37
Tajikistan 2 070 66 3 9	10	66	R	11	R	23	R	24	25	17	27
Near East and North Africa											
Yemen 2 010 59 1 11	8	69	R	11	R	21	R	14*	27	46	53
Sub-Saharan Africa											
Gambia 2 140 53 1 21	6	60	R	9	L	30	Н	33	53	20	22
Kenya 2 040 50 6 8	12	69	R	11	R	20	R	27	21	20	30
Malawi 2 130 56 18 3	2	78	Н	10	L	12	L	33	17	31	45
Niger 2 140 66 2 6	5	70	R	11	R	19	R	40*	17	19	46
Senegal 2 150 62 3 15	8	65	R	10	L	25	R	17	41	17	16
Lower middle income											
Asia and the Pacific											
Armenia 2 310 52 6 7	15	69	R	12	R	19	R	21	64	3	13
India 2 360 58 2 13	6	71	R	9	L	20	R	18	29	43	48
Mongolia 2 190 45 3 9	29	56	R	13	R	31	Н	25	57	6	21
Sri Lanka 2 360 56 2 3	6	74	R	9	L	17	R	17	15	29	14

(continued)

Table 2. Selected food, nutrition and development indicators, classified by undernourishment category, income and region

UNDERNOURISHMENT CATEGORY by income group ¹	DES ² per capita			bution proups to nergy ³			(Contrib nutrie total e	ents to	D		Agriculture in total GDP	Urban population	maln	hild utrition recent)
		С	RT	0F	AP	CI	10	Pro	tein	F	at	2005		Under- weight	Stunting
Region/country	(kcal/day)		(% k	(cal)				(%)	kcal)			(%)	(%)	(%)
Latin America and the Caribl	bean														
Bolivia	2 170	41	7	10	16	66	R	10	L	24	R	14	64	8	27
Dominican Republic	2 300	29	3	18	14	61	R	9	L	30	Н	12	66	5	7
Nicaragua	2 350	53	1	9	10	70	R	10	R	20	R	19	59	10	20
Sub-Saharan Africa															
Cameroon	2 230	39	17	10	6	70	R	10	L	19	R	20	54	19	30
Congo	2 330	27	33	14	7	69	R	9	L	22	R	5	60	14	26
Sudan	2 290	49	1	6	24	60	R	13	R	27	R	34	40	41	43
Upper middle income															
Sub-Saharan Africa															
Botswana	2 200	45	7	10	12	67	R	12	R	21	R	2	57	13	23
10 TO 19% UNDERNOURISH	ED														
Low income															
Asia and the Pacific															
Lao People's Dem. Rep.	2 300	72	3	2	7	77	Н	11	R	12	L	44	20	40	42
Myanmar	2 380	60	1	10	8	68	R	11	R	21	R	57**	30	32	32
Nepal	2 430	68	4	10	5	73	R	10	L	17	R	36	15	39	49
Uzbekistan	2 440	58	2	12	18	62	R	12	R	25	R	28	37	5	15
Viet Nam	2 650	68	1	4	13	73	R	10	L	17	R	21	26	25	30
Sub-Saharan Africa															
Benin	2 290	39	32	9	4	71	R	10	L	19	R	32	40	23	38
Burkina Faso	2 620	73	1	5	5	68	R	12	R	20	R	32	18	37	35
Côte d'Ivoire	2 520	31	33	13	4	73	R	8	L	19	R	23	45	20	34
Guinea	2 540	47	14	14	3	70	R	9	L	21	R	20	33	26	35
Mali	2 570	67	2	8	10	69	R	11	R	19	R	37	30	33	38
Uganda	2 380	21	22	7	6	73	R	9	L	17	R	33	12	20	32
Lower middle income															
Asia and the Pacific															
Azerbaijan	2 530	55	6	6	14	71	R	11	R	17	R	10	51	7	13
Georgia	2 480	56	4	7	18	67	R	13	R	21	R	17	52	3	12
Indonesia	2 440	64	6	7	5	74	R	9	L	17	R	13	47	28	42
Philippines	2 470	55	3	6	13	73	R	9	L	17	R	14	62	28	30
Thailand	2 490	48	2	7	12	71	R	9	L	20	R	10	32	9	12
Latin America and the Caribl	bean														
Colombia	2 670	34	6	12	16	68	R	9	L	23	R	12	72	7	12
Ecuador	2 300	33	3	19	18	58	R	10	L	32	Н	7	62	9	23
El Salvador	2 530	50	2	8	11	69	R	11	R	20	R	11	60	10	19
Guatemala	2 270	52	1	9	8	69	R	10	L	21	R	23	47	23	49
Honduras	2 590	46	1	11	13	67	R	10	L	23	R	14	46	11	25
Paraguay	2 590	29	14	17	15	58	R	10	L	32	Н	22	58	5	14
Peru	2 450	44	14	6	11	73	R	11	R	16	R	7	72	8	24
Sub-Saharan Africa															
Lesotho	2 430	79	3	2	5	77	Н	11	R	12	L	17	19	20	38
Namibia	2 290	45	14	8	13	69	R	11	R	20	R	12	35	24	24
Swaziland	2 320	46	5	5	15	67	R	11	R	21	R	11	24	10	30



Table 2. Selected food, nutrition and development indicators, classified by undernourishment category, income and region

UNDERNOURISHMENT CATEGORY by income group ¹	DES ² per capita		of food g	ibution groups to energy ³			(Contrib nutrie total e	ents to	C		Agriculture in total GDP	Urban population	malnu	nild utrition recent)
		С	RT	OF	AP	Cł	H0	Pro	tein	F	at	2005		Under- Stuntir weight	
Region/country	(kcal/day)		(%)	kcal)				(%	kcal)			(%)	(%)	(%)
Upper middle income															
Latin America and the Caribbea	n														
Panama	2 390	43	2	12	17	65	R	11	R	23	R	8	70	8	18
Venezuela (Bolivarian Rep. of)	2 450	38	3	17	15	63	R	11	R	27	R	4***	93	5	13
High income															
Latin America and the Caribbea															
Trinidad and Tobago	2 760	36	2	13	14	65	R	10	L	25	R	1	12	6	4
5 TO 9% UNDERNOURISHED															
Low income															
Sub-Saharan Africa															
Ghana	2 690	30	40	7	4	78	Н	8	L	14	L	37	47	18	22
Mauritania	2 790	47	1	13	18	64	R	12	R	24	R	24	40	32	35
Nigeria	2 600	44	19	13	3	69	R	9	L	22	R	23	47	29	38
Lower middle income															
Asia and the Pacific															
China	2 990	51	6	7	21	61	R	12	R	27	R	13	40	7	11
Turkmenistan	2 780	60	2	9	20	64	R	13	R	23	R	20*	46	11	15
Latin America and the Caribbea	n														
Guyana	2 830	46	4	6	16	69	R	11	R	20	R	31	28	14	11
Upper middle income															
Latin America and the Caribbea															
Brazil	3 090	33	4	15	20	59	R	11	R	30	Н	6	84	6	11
Jamaica	2 810	32	6	13	17	62	R	11	R	27	R	6	53	4	3
Suriname	2 710	41	2	14	11	67	R	9	L	24	R	6	74	13	10
Sub-Saharan Africa															
Mauritius	2 880	47	1	14	14	64	R	11	R	25	R	6	42	15	10
LESS THAN 5% UNDERNOURISH	IED														
Low income															
Asia and the Pacific															
Kyrgyzstan	3 120	56	8	3	18	71	R	13	R	16	R	32	36	3	14
Lower middle income															
Near East and North Africa	0.400	E (4.2		-		_	~~~	-		10		
Algeria	3 100	56	3	11	10	69	R	11	R	20	R	8	63	4	11
Egypt	3 320	64	2	6	6	73	R	11	R	16	R	15	43	6	18
Iran (Islamic Rep. of)	3 100	56	4	8	9	71	R	11	R	18	R	10	66	11	15
Jordan	2 820	45	2	17	11	62	R	10	L	28	R	3	82	4	9
Morocco	3 190	62	2	9	6	72	R	11	R	17	R	13	58	10	18
Syrian Arab Republic	3 000 3 280	46 49	2	16 16	12	59	R R	11	R R	30 26	H	20	50	10	22 12
Tunisia	J ZOU	47	Z	10	10	63	Л	11	Л	20	R	١Z	65	4	١Z
Upper middle income Asia and the Pacific															
Kazakhstan	3 110	43	6	10	23	61	R	12	R	26	R	7	57	4	13
Malaysia	2 860	43	2	14	18	62	R	12	R	26	R	8	66	11	nd
Latin America and the Caribbea		40	Z	14	10	02	71	11	Ц	21	7٦	0	00	11	nu
	n 3 000	35	3	10	24	50	R	10	R	20	R	9	90	4	1.
Argentina	3 000	30	3	12	26	59	7٦	12	Ц	29	L(7	70	4	4

(continued)

Table 2. Selected food, nutrition and development indicators, classified by undernourishment category, income and region

UNDERNOURISHMENT CATEGORY by income group ¹	DES ² per capita			(Contrib nutrie total e	nts to	5		Agriculture in total GDP	Urban population	Child malnutrition (most recent)				
		С	RT	OF	AP	CH	10	Pro	tein	F	ət	2005		Under- Stunting	
Region/country	(kcal/day)	(% kcal)				(% kcal)						(%)	(%)	weight (%)	
Chile	2 980	39	3	13	20	60	R	11	R	29	R	4	87	1	1
Costa Rica	2 790	34	2	14	17	64	R	10	L	26	R	9	61	5	6
Cuba	3 280	41	8	6	9	76	Н	10	L	15	L	nd	76	4	5
Mexico	3 270	44	1	10	17	63	R	11	R	26	R	4	76	5	13
Uruguay	2 920	42	4	9	23	63	R	12	R	26	R	9	92	5	11
Near East and North Africa															
Lebanon	3 160	34	6	16	15	57	R	11	R	32	Н	6	86	4	11
Libyan Arab Jamahiriya	3 020	43	2	17	12	61	R	10	L	29	R	nd	85	5	15
Turkey	3 340	49	3	15	10	63	R	11	R	26	R	11	67	4	12
Sub-Saharan Africa															
Gabon	2 760	33	18	6	13	70	R	12	R	18	R	5	83	12	21
High income															
Asia and the Pacific															
Republic of Korea	3 030	44	1	13	13	64	R	11	R	25	R	3	81	nd	nd
Near East and North Africa															
Kuwait	3 070	40	1	18	18	56	R	11	R	33	Н	nd	98	10	24
Saudi Arabia	3 060	48	1	13	13	64	R	11	R	25	R	3	81	14	20
United Arab Emirates	3 040	44	1	8	19	63	R	13	R	24	R	2	77	14	17

Notes: Please see page 55.



Notes for Table 1

¹ World Food Summit goal: halve, between 1990–92 and 2015, the number of undernourished people.

² Millennium Development Goal 1, target 1C: halve, between 1990 and 2015, the proportion of people who suffer from hunger. Indicator 1.9: Proportion of population below minimum level of dietary energy consumption (undernourishment).

Latest reported period refers to 2003-05 estimates, and baseline refers to 1990-92. For countries that did not exist in the baseline period, the 1990-92 proportion of undernourished is based on 1993-95 and the number of undernourished is based on their 1990–92 population and this proportion.

Countries revise their official statistics regularly for the past as well as the latest reported period. The same holds for population data of the United Nations. Whenever this happens, FAO revises its estimates of undernourishment accordingly. Therefore, users are advised to refer to changes in estimates over time only within the same The State of Food Insecurity in the World publication and refrain from comparing data published in editions for different years.

Figures following country name refer to undernourishment categories (proportion of the population undernourished in 2003-05):

[1] < 5 percent undernourished

[2] 5-9 percent undernourished

[3] 10-19 percent undernourished

[4] 20-34 percent undernourished

 $[5] \ge 35$ percent undernourished

Notes for Table 2

¹ Countries are classified following World Bank country income groups. For operational and analytical purposes, the World Bank has classified countries according to 2007 gross national income per capita, calculated using the World Bank Atlas method. The groups are: low income - US\$935 or less; lower middle income - US\$936-3 705; upper middle income -US\$3 706-11 455; and high income - US\$11 456 or more.

² DES = dietary energy supply.

³ Main food groups: C = cereals; RT = roots and tubers; OF = oils and fats: and AP = animal products, excluding fats. Not shown: other vegetable products (pulses, nuts, oilseeds, sweeteners, fruits, vegetables and condiments). "Animal products" includes meat, offal, dairy products, eggs and fish.

⁴ Diet composition as the proportion of energy from nutrients (carbohydrates [CHO], protein and fat) in total energy available for human consumption: H = high - proportion above 75, 15 and 30 percent for carbohydrates, protein and fat, respectively; R = within recommended range; and L = low – proportion below 55, 10 and 15 percent for carbohydrates, protein and fat, respectively.

Developing countries for which there were insufficient data are not listed in the table.

Ratio current/baseline number of undernourished - ratio for WFS target = 0.5

Ratio current/baseline prevalence of undernourished - ratio for MDG ** target = 0.5

*** Although not listed separately, provisional estimates for Afghanistan and Iraq (Near East and North Africa), Papua New Guinea (Asia and the Pacific) and Somalia (East Africa) have been included in the relevant regional aggregates. Developed countries have been included in world estimates.

**** Eritrea and Ethiopia were not separate entities in 1990-92, but estimates of the number and proportion of undernourished in the former People's Democratic Republic of Ethiopia are included in regional and subregional aggregates for that period.

Key

- Proportion less than 5 percent of undernourished.
- na Not applicable.
- 0.0 Zero or less than half the unit shown.
- ns Not statistically significant.

SOURCES

Total population: United Nations, Department of Economic and Social Affairs, Population Division. 2007. World Population Prospects: The 2006 Revision. New York, USA.

Undernourishment: FAO estimates.

Unless otherwise indicated, data refer to 2003-05.

- Data refer to 2003.
- Data refer to 2000.
- *** Data refer to 2004.

Key

nd No data.

SOURCES

Dietary energy supply for human consumption, energy from food and energy-yielding nutrients: FAO.

Income group and share of agricultural value added to GDP: World Bank (World Development Indicators online database).

Share of urban population: United Nations, Department of Economic and Social Affairs, Population Division. 2008. World Urbanization Prospects: The 2007 Revision. New York, USA.

Prevalence of underweight and stunting in children less than five years old: UNICEF/WHO.