

LIVESTOCK SECTOR BRIEF

AUSTRALIA

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of the United Nations **FAO**

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and Policy Branch **AGAL**



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Data contained in this Livestock Sector Brief are taken from official sources. Official sources are no guarantee for data accuracy and the figures reported in this brief should be taken as indicative and not be used for official purposes. The Food and Agriculture Organization of the United Nations assumes no responsibility for its accuracy, completeness and coherence.

PREFACE

The Livestock Sector Briefs (LSB) are intended to provide a quick overview and an approximate outlook for the livestock sector of the respective country using figures and quantitative indicators originating from official sources. The LSBs are complemented by a synthesis of policy documents available in the public domain.

The majority of the data in the LSBs refer to the country as a whole and come from FAOSTAT, which is available on the internet (<http://faostat.external.fao.org/default.jsp>). FAO, as part of its mandate, compiles information and data on various aspects of food and agriculture from all countries. The data are analysed and interpreted to support FAO's programmes and activities and, in accordance with the basic functions of the Organization, they are disseminated to the public through publications, CD-ROM, diskettes and the Internet. The country level data are officially submitted to the Division for Statistics of FAO (ESS) by various ministries of the respective countries. For details of data collection procedures see <http://faostat.fao.org/abcdq/about.htm>. The figures submitted often display inconsistencies across ministries, for example reported meat production does not always match reported meat consumption when taking into account imports and exports. FAO tries to reconcile the figures, to the effect that FAO statistics may differ from those originally submitted.

The LSBs utilise FAOSTAT data from the following domains: human population, land use, agriculture production, food supply and agricultural and food trade. These are used to derive a standard set of indicators that can quickly be compared across the countries.

Data on the economy are from the World Bank's World Development Indicators CD-Rom, which is also available online <http://www.worldbank.org/data/> and is updated every year. Animal health data are taken from the Office International des Epizooties (OIE) HANDISTATUS II <http://www.oie.int/hs2/>. These are official data supplied by member nations.

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1. GENERAL INFORMATION

Human population, land and socio-economics

Human population	19.5 million
Population density on total land	2.5 persons/sqkm
Annual growth rate (1990-2000)	1.2 %
Population in agriculture	0.9 million
As proportion of total population	4.4 %
Total land area	7,682,300 sqkm
Agricultural land	4,470,000 sqkm
As proportion of total land	58.2 %
Land under pasture	3,984,000 sqkm
As proportion of agricultural land	89.1 %
Irrigated area	25,450 ha
Agricultural land per 100 people	2,287.10 ha
Agricultural land per 100 people in agriculture	51,676.30 ha
Agricultural population on agricultural land	0.2 persons/sqkm
GDP ¹	480,851 million US\$
GDP annual growth rate (1990-2000)	3.8 %
GDP per capita/year ¹	24,455 US\$
GDP per capita annual growth rate (1990-2000)	2.6 %
Agriculture, GDP	na million US\$
As proportion of total GDP	na %
Livestock, GDP ¹	na million US\$
As proportion of agricultural GDP	68.3 %
Human development Rank	3 Ranking ²
Human development index	0.946
Poverty incidence ³	
Total	na %
Urban	na %
Rural	na %

¹Constant 1995 US\$ ²The HDI rank is determined using HDI values to the fifth decimal point – from 177 countries, as compiled by the UNDP; ³National poverty line; na: not available

Source: World Bank (2002); UNDP (2004); FAO (2005a)

Human population trends

Values expressed in 1,000

Population segment	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Total	14,569	16,888	19,153	19,544	1.5	1.3
Rural	2,075	2,518	1,778	1,605	2.0	-3.4
Urban	12,495	14,369	17,375	17,939	1.4	1.9

Source: FAO (2005a)

Trends in agricultural¹ land

Values expressed in sqkm

Land type	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Total	4,829,260	4,644,810	4,555,000	4,470,000	-0.4	-0.2
Cropped ²	441,860	480,810	506,000	486,000	0.8	0.5
Pastures	4,387,400	4,164,000	4,049,000	3,984,000	-0.5	-0.3

¹The sum of area under arable land, permanent crops and permanent pastures

²Arable and permanent crops

Source: FAO (2005a)

2. LIVESTOCK RESOURCES

Livestock populations

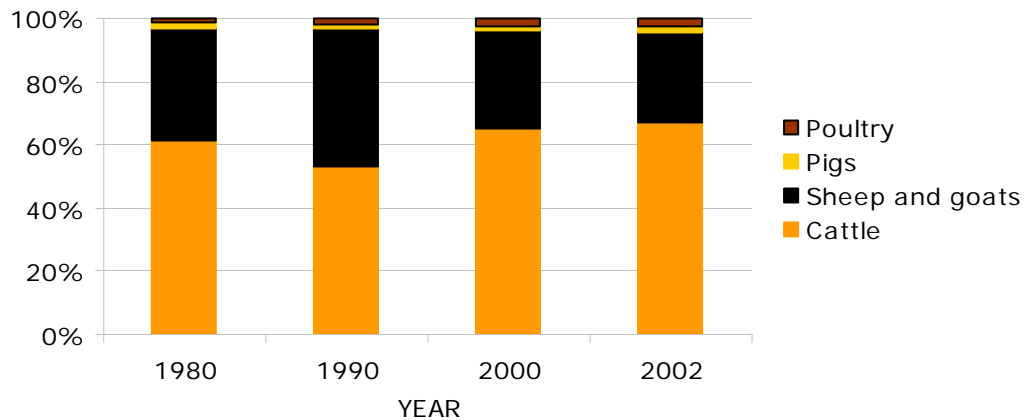
Values expressed in 1,000

Species	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Cattle	26,203	23,162	27,588	27,870	-1.2	1.8
Sheep and goats	136,166	170,857	118,812	106,600	2.3	-3.6
Pigs	2,518	2,648	2,511	2,940	0.5	-0.5
Poultry	48,037	61,472	86,805	86,942	2.5	3.5
Total LUs	38,309	39,208	38,206	37,347	0.2	-0.3

LU: *Livestock unit*; **conversion factors:** cattle (0.90), sheep and goats (0.10), pigs (0.25) and poultry (0.01)

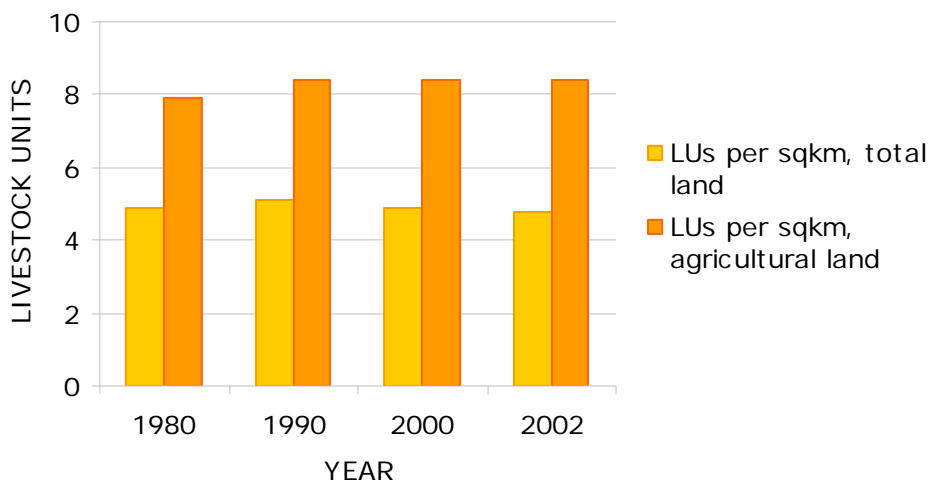
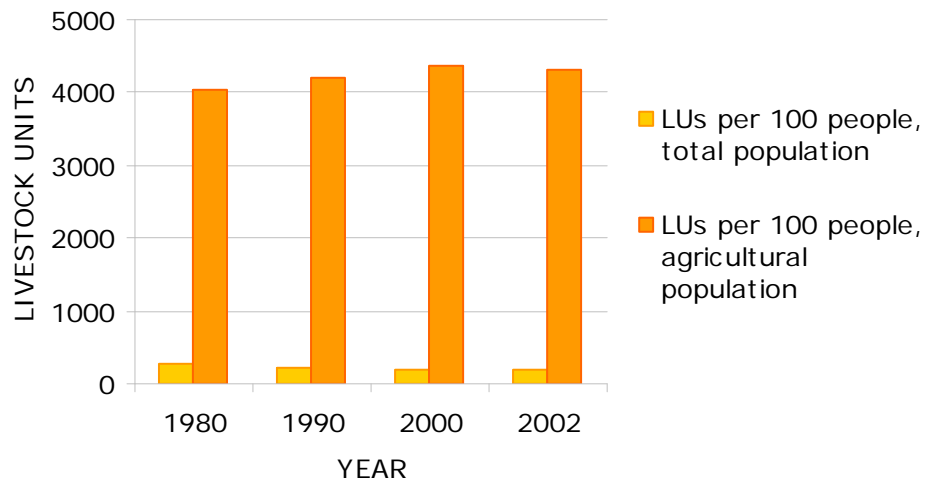
Source: FAO (2005a)

Contribution of different species to total livestock units



Source: FAO (2005a)

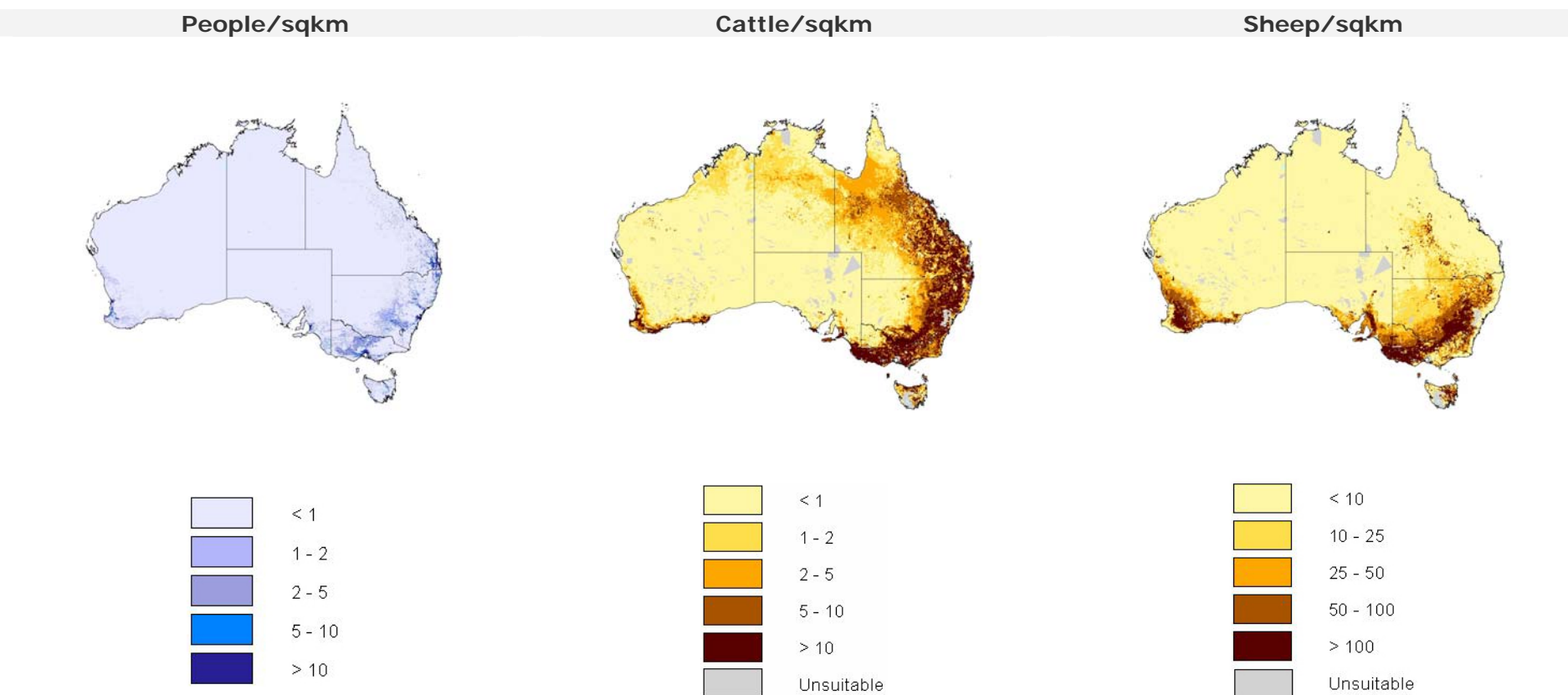
Selected indicators of livestock resources



Source: FAO (2005a)

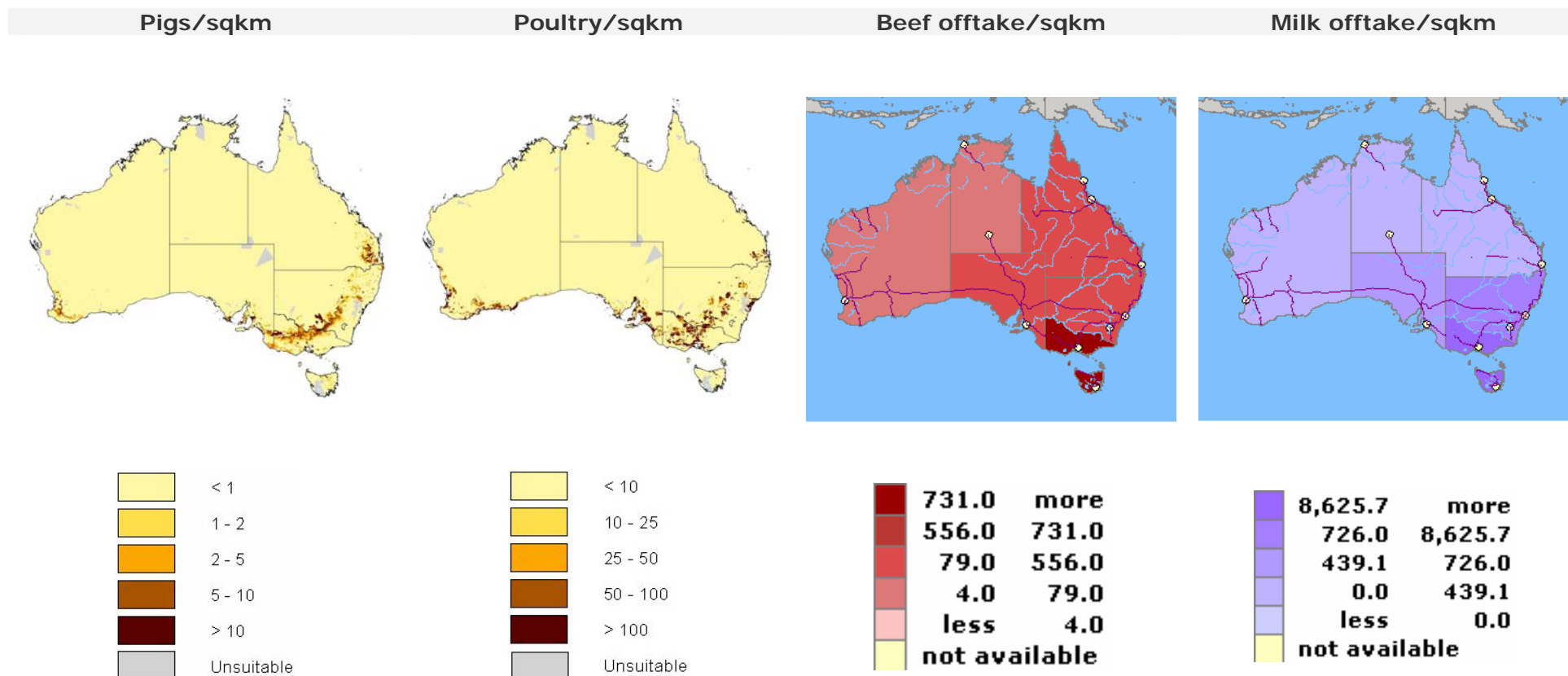
Human population and livestock densities (2000)

Density calculated on total land area¹



¹Densities for livestock populations and production is based on total land suitable for livestock production

Source: LandScan (2002), FAO (2005b)



Source: FAO (2005b)

3. LIVESTOCK PRODUCTION

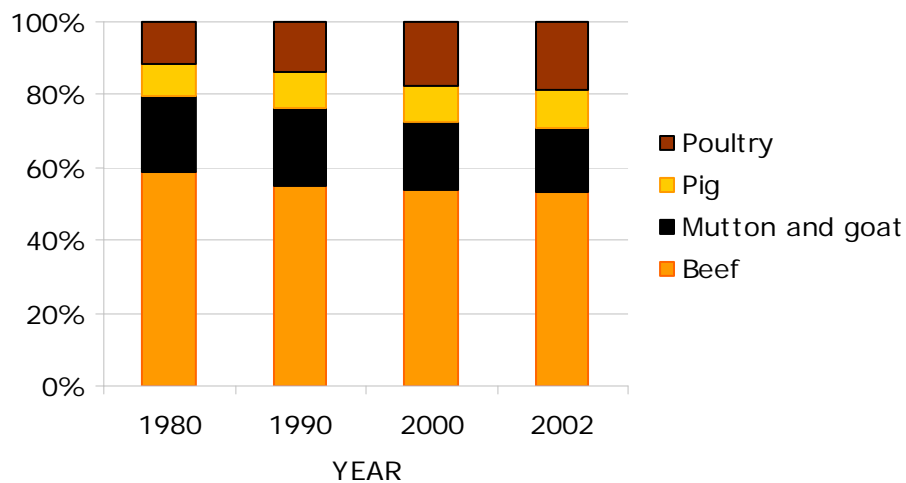
Trends in annual production of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	2,661	3,068	3,707	3,805	1.4	1.9
Beef	1,564	1,677	1,988	2,028	0.7	1.7
Mutton and goat	556	641	691	658	1.4	0.7
Pig	220	317	364	396	3.7	1.4
Poultry	313	413	643	702	2.8	4.5
Milk, total	5,565	6,456	11,183	11,620	1.5	5.6
Eggs, total	195	188	143	140	-0.3	-2.7

Source: FAO (2005a)

Composition of total meat production



Source: FAO (2005a)

Carcass weights and percentage slaughtered by species

Species/year	Carcass weight (kg/animal)				Percentage slaughtered/year			
	1980	1990	2000	2002	1980	1990	2000	2002
Cattle	176	211.2	229.8	236.2	33.9	34.3	31.4	30.8
Sheep	18.0	19.1	20.5	20.2	22.4	19.3	28.0	30.0
Goat	25.0	25.0	25.0	25.0	155.6	94.6	162.7	137.8
Pigs	56.6	64.2	72.7	73.2	154	186.7	199.7	183.8
Poultry	1.3	1.4	1.6	1.6	491.7	478.7	466.9	491.7

Source: FAO (2005a)

Milk yields and proportion of dairy animals

Species/year	Milk yield (kg/year)				Percentage milked			
	1980	1990	2000	2002	1980	1990	2000	2002
Cattle	2,978	3,907	5,151	5,473	7.1	7.1	7.9	7.6

Source: FAO (2005a)

Egg yields and proportion of laying birds

Species/year	Eggs (kg/year)				Percentage laying			
	1980	1990	2000	2002	1980	1990	2000	2002
Chicken	13.1	14.4	11.9	10.9	31.8	21.8	14.1	15.1

Source: FAO (2005a)

Estimated feed used for livestock production

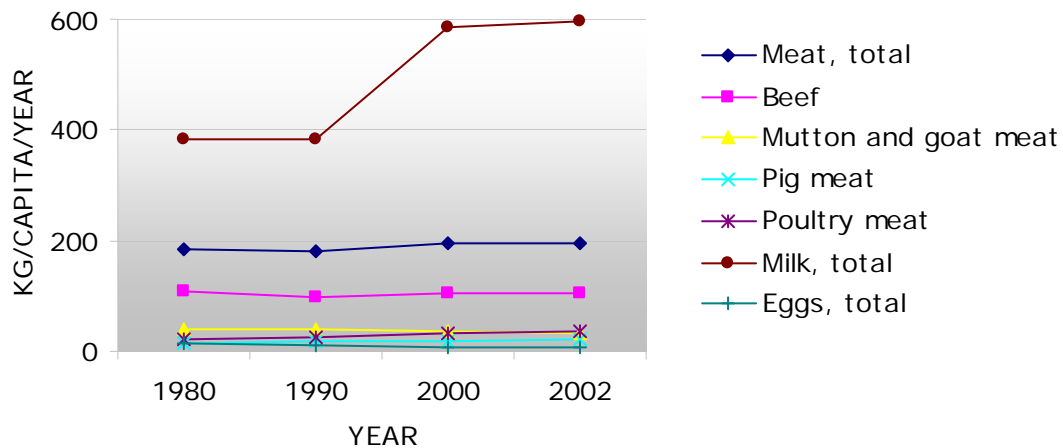
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Maize	98	127	256	293	2.6	7.3
Barley	475	885	1,982	1,048	6.4	8.4
Sorghum	335	917	1,449	1,602	10.6	4.7
Millet	13	27	32	44	7.9	1.7
Wheat	603	800	2,000	2,500	2.9	9.6
Brans	438	512	629	666	1.6	2.1
Rice Paddy, equivalent						
Roots and Tuber, dry equivalent	7	9	11	12	1.7	2.7
Pulses	85	300	182	229	13.4	-4.8
Oil crops	25	18	188	17	-3.6	26.8

Blanks represent no data

Source: FAO (2005a)

Trends in annual per capita production of meat, milk and eggs



Source: FAO (2005a)

4. CONSUMPTION OF MEAT, MILK AND EGGS

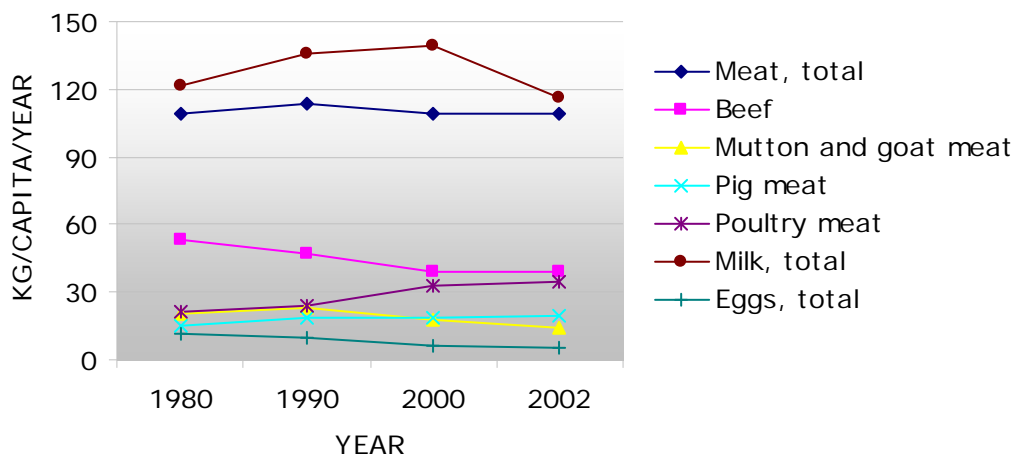
Trends in annual consumption of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	1,597	1,920	2,097	2,126	1.9	0.9
Beef	773	796	755	766	0.3	-0.5
Sheep and goat	295	391	339	285	2.8	-1.4
Pig	215	310	362	378	3.7	1.6
Poultry	305	410	624	680	3.0	4.3
Milk, total	1,778	2,296	2,665	2,267	2.6	1.5
Eggs, total	169	166	113	110	-0.2	-3.7

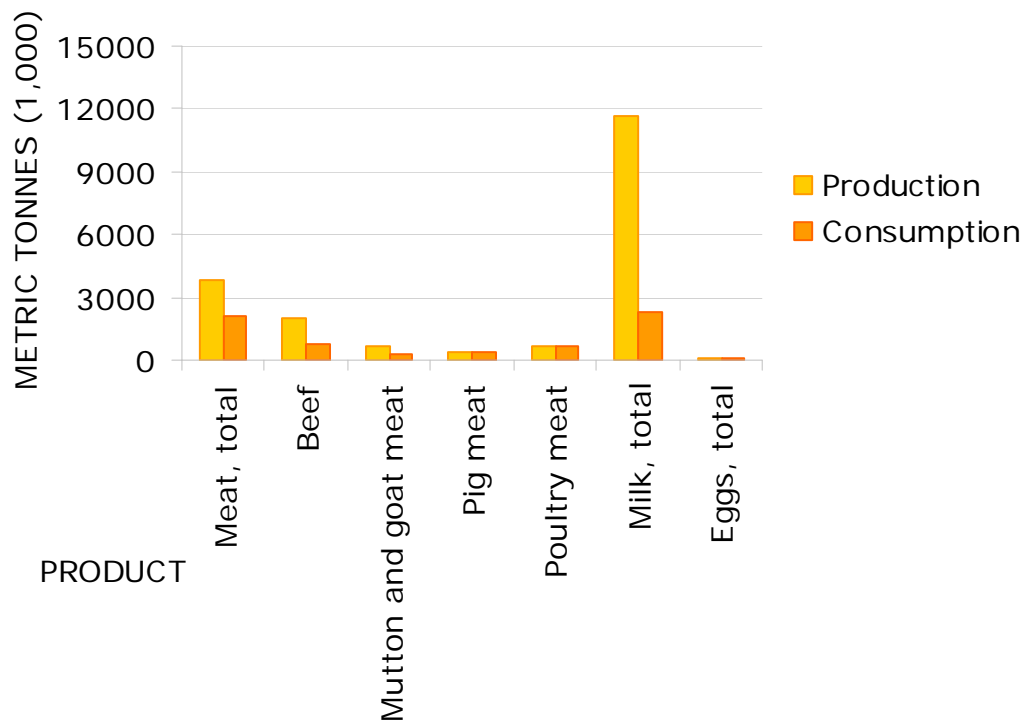
Source: FAO (2005a)

Trends in annual per capita consumption of meat, milk and eggs



Source: FAO (2005a)

Production versus consumption for meat, milk and eggs (2002)



Source: FAO (2005a)

5. TRADE IN LIVESTOCK AND LIVESTOCK PRODUCTS

Trade in agricultural and livestock¹ products

Values in million US\$

Product	Exports				Imports			
	1980	1990	2000	2002	1980	1990	2000	2002
Total	25,738	51,722	89,001	80,148	29,069	52,260	88,494	90,830
Agricultural	9,216	11,750	15,380	16,024	967	1,717	2,989	3,229
% agricultural	35.8	22.7	17.3	20.0	3.3	3.3	3.4	3.6
Livestock	2,811	3,353	5,182	5,662	78	209	319	335
% livestock	10.9	6.5	5.8	7.1	0.3	0.4	0.4	0.4

¹Total trade in goods and services expressed in current US\$. Source: World Bank (2002) Agricultural trade refers to all agricultural products, while livestock trade refers to trade in livestock products and live animals. Source: FAO (2005b)

Export/import 'dependency' for livestock products

Product	Exports as percentage of production				Imports as percentage of consumption			
	1980	1990	2000	2002	1980	1990	2000	2002
Meat, total	37.12	34.31	43.13	43.15	0.29	0.31	2.14	2.58
Beef	49.41	51.59	60.77	60.95	0.27	0.48	0.67	0.56
Sheep and goat	34.20	25.86	44.99	44.79	0.00	0.09	0.14	0.18
Pig	1.94	2.40	11.25	16.57	0.27	0.29	10.62	12.81
Poultry	2.34	0.83	3.17	3.45	0.06	0.09	0.06	0.19
Milk, equivalent	25.25	30.69	49.89	52.65	4.26	5.72	12.65	13.59
Eggs, total	0.48	0.09	0.09	0.07	0.00	0.00	0.06	0.06

Source: FAO (2005a)

Product	Net exports as percentage of production				Net imports as percentage of consumption			
	1980	1990	2000	2002	1980	1990	2000	2002
Meat, total	36.94	34.12	41.92	59.65	0.00	0.00	0.00	0.00
Beef	49.27	51.37	60.52	78.73	0.00	0.00	0.00	0.00
Sheep and goat	34.20	25.81	44.92	52.94	0.00	0.00	0.00	0.00
Pig	1.68	2.12	0.70	7.83	0.00	0.00	0.00	0.00
Poultry	2.28	0.74	3.12	7.33	0.00	0.00	0.00	0.00
Milk, equivalent	23.89	28.66	46.88	104.40	0.00	0.00	0.00	0.00
Eggs, total	0.48	0.09	0.05	0.01	0.00	0.00	0.00	0.00

Source: FAO (2005a)

Trade in live animals

Species	1980			1990			2000			2002		
	Export	Import	Net trade	Export	Import	Net trade	Export	Import	Net trade	Export	Import	Net trade
Quantities (count)												
Cattle	61,719	566	61,153	102,067	1,548	100,519	895,982	4	895,978	972,340	39	972,301
Sheep and goats	6,162,549	7,565	6,154,984	4,426,562	26	4,426,536	5,472,709	0	5,472,709	6,249,926	0	6,249,926
Pigs	1,509	7	1,502	5,732	5	5,727	373	0	373	2,419	0	2,419
Poultry (1,000)	711		711	534		534	301		301	74		74
Value (1,000 US\$)												
Cattle	24,827	1,039	23,788	41,173	3,753	37,420	279,900	26	279,874	331,865	368	331,497
Sheep and goats	192,975	720	192,255	88,924	30	88,894	125,292	0	125,292	228,641	0	228,641
Pigs	136	6	130	1,730	1	1,729	258	0	258	806	0	806
Poultry (1,000)	832	0	832	1,581	0	1,581	486	0	486	79	0	79
Total	218,770	1,765	217,005	133,408	3,784	129,624	405,937	26	405,911	561,391	368	561,023

Net trade: Exports less Imports

Blanks represent no data

Source: FAO (2005a)

Trade in livestock products

Product	1980			1990			2000			2002		
	Export	Import	Net trade	Export	Import	Net trade	Export	Import	Net trade	Export	Import	Net trade
Quantities (metric tonnes)												
Meat, total	987,483	4,643	982,841	1,052,819	5,885	1,046,935	1,598,930	44,837	1,554,093	1,641,796	54,765	1,587,031
Beef	772,899	2,117	770,782	865,086	3,798	861,287	1,208,058	5,024	1,203,034	1,236,017	4,315	1,231,702
Mutton and goat	189,986	9	189,977	165,773	347	165,426	310,692	464	310,228	294,601	501	294,100
Pig	4,267	588	3,679	7,614	885	6,729	40,982	38,424	2,558	65,553	48,351	17,202
Poultry	7,321	193	7,128	3,408	360	3,048	20,416	364	20,052	24,227	1,311	22,916
Other	12,178	1,736	10,442	10,486	461	10,025	18,363	434	17,929	21,035	211	20,824
Milk, equivalent	1,405,224	75,743	1,329,481	1,981,308	131,249	1,850,059	5,579,544	337,123	5,242,421	6,118,080	308,126	5,809,954
Eggs, total	930	0	930	170	3	167	129	63	66	96	69	27
Hides and skins	213,107	14	213,093	267,803	1,481	266,322	279,057	1,002	278,055	228,485	1,626	226,859
Value (1,000 US\$)												
Meat, total	1,840,210	9,988	1,830,222	2,147,363	15,987	2,131,376	2,760,359	98,955	2,661,404	3,105,748	123,535	2,982,213
Beef	1,523,247	4,720	1,518,527	1,849,722	10,463	1,839,259	2,111,438	9,320	2,102,118	2,273,788	7,053	2,266,735
Mutton and goat	266,725	17	266,708	245,854	679	245,175	501,998	695	501,302	616,243	874	615,369
Pig	12,647	1,565	11,082	27,099	2,254	24,845	99,313	87,119	12,194	158,896	112,685	46,211
Poultry	11,842	252	11,590	4,259	1,085	3,174	14,089	1,012	13,077	13,221	2,235	10,986
Other	25,749	3,434	22,315	20,429	1,506	18,923	33,522	810	32,712	43,600	688	42,912
Milk, equivalent	316,776	37,071	279,705	575,670	82,006	493,664	1,612,347	157,070	1,455,277	1,578,749	158,443	1,420,306
Eggs, total	868	0	868	602	6	596	715	529	186	513	665	-152
Hides and skins	420,463	2,898	417,565	478,650	9,576	469,074	348,851	1,501	347,350	358,791	2,201	356,590
Total	2,578,317	49,957	2,528,360	3,202,285	107,575	3,094,710	4,722,271	258,055	4,464,216	5,043,801	284,844	4,758,957

Net trade: Exports less Imports

Blanks represent no data

Source: FAO (2005a)

6. LIVESTOCK HEALTH

Total number of cases/outbreaks of selected diseases reported in all susceptible species

Disease	1997	1998	1999	2000	2001	2002	2003
African swine fever	000	000	000	000	000	000	000
Avian Influenza ¹	.../1	(11/1997)	(11/1997)	(11/1997)	(11/1997)	(11/1997)	(11/1997)
Bluetongue					3/1		.../...
BSE ²	000	000	000	000	000	000	000
CBPP ³	(1967)	(1967)	(1967)	(1967)	(1967)	(1967)	(1967)
Classical swine fever	(1962)	(1962)	(1962)	(1962)	(1962)	(1962)	(1962)
Foot and mouth disease	(1871)	(1871)	(1871)	(1871)	(1871)	(1871)	(1871)
Lumpy skin disease	000	000	000	000	000	000	000
Newcastle disease	(1932)	.../3	.../10		(02/2000)	10,000/4	(11/2002)
Peste des petits ruminants	000	000	000	000	000	000	000
Rift Valley fever	000	000	000	000	000	000	000
Rinderpest	(1923)	(1923)	(1923)	(1923)	(1923)	(1923)	(1923)
Sheep and goat pox	000	000	000	000	000	000	000
Swine vesicular disease	000	000	000	000	000	000	000
Vesicular stomatitis	000	000	000	000	000	000	000

¹ Highly pathogenic avian influenza

² Bovine spongiform encephalopathy

³ Contagious bovine pleuropneumonia

no/ no number of cases/outbreaks, ... no information available, - disease not reported, 000 disease never reported; (month/year) date of the last reported occurrence of the disease in previous years

Source: OIE (2004)

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