

LIVESTOCK SECTOR BRIEF

LAO PDR

Food and Agriculture Organization
of the United Nations **FAO**

Livestock Information, Sector Analysis
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/abcdg/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.

Other data used in the LSB are elaborated from FAO Projections used for the FAO publication 'World agriculture towards 2002/2030'. 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	5.5 million
Population density on total land	24 persons/sqkm
Annual growth rate (1990-2000)	2.4 %
Population in agriculture	4.2 million
As proportion of total population	76.1 %
Total land area	230,800 sqkm
Agricultural land	18,790 sqkm
As proportion of total land	8.1 %
Land under pasture	8,780 sqkm
As proportion of total land	46.7 %
Irrigated area	1,750 ha
Agricultural land per 100 people	34 ha
Agricultural land per 100 people in agriculture	45 ha
Agricultural population density on agricultural land	224 persons/sqkm
GDP ¹	2,640 million US\$
GDP annual growth rate (1990-2000)	6.3 %
GDP per capita/year ¹	477 US\$
GDP per capita annual growth rate (1990-2000)	3.7 %
Agriculture, GDP	na million US\$
As proportion of total GDP	na %
Livestock, GDP ¹	na million US\$
As proportion of agricultural GDP	14.3 %
Human development Rank	135 Ranking ²
Human development index	0.534
Poverty incidence ³	
Total	38.6 %
Urban	26.9 %
Rural	41.0 %

¹Constant 1995 US\$ ² The HDI rank is determined using HDI values to the fifth decimal point – from 177 countries, as compiled by the UNDP; ³ National 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	3,205	4,132	5,279	5,529	2.6	2.5
Rural	2,809	3,495	4,261	4,414	2.2	2.0
Urban	397	638	1,018	1,115	4.9	4.8

Source: FAO (2005a)

Trends in agricultural land

Values expressed in sqkm

Land type	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Agricultural, total	16,060	16,600	18,360	18,790	0.3	1.0
Cropped ¹	8,060	8,600	9,580	10,010	0.7	1.1
Pastures	8,000	8,000	8,780	8,780	0.0	0.9

¹Arable and permanent crops

Source: FAO (2005a)

2. LIVESTOCK RESOURCES

Livestock populations

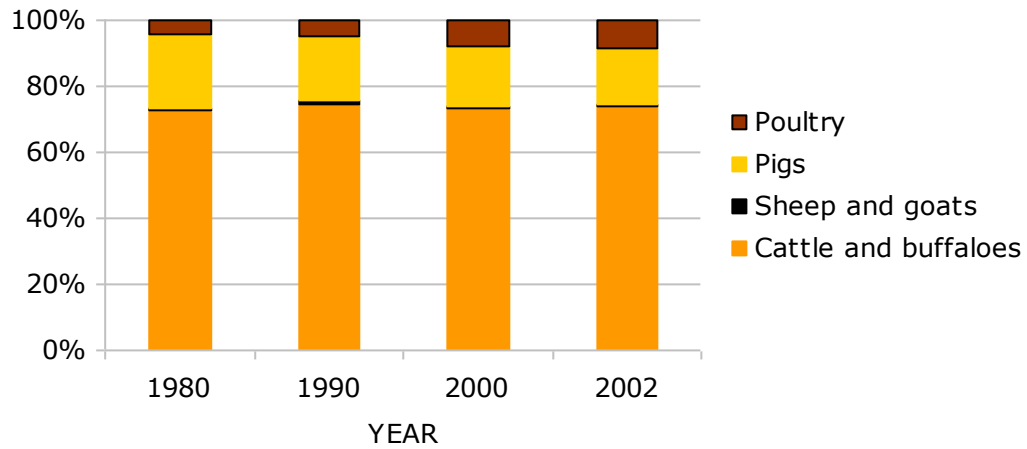
Values expressed in 1,000

Species	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Cattle and buffaloes	1,309	1,914	2,128	2,297	3.9	1.1
Sheep and goats	49	139	121	128	11.1	-1.4
Pigs	1,111	1,372	1,425	1,416	2.1	0.4
Poultry	4,884	8,301	14,885	17,069	5.4	6.0
Total LUs	1,226	1,737	1,952	2,085	3.6	1.2

LU: Livestock unit; **conversion factors:** cattle (0.65), buffaloes (0.70), sheep (0.10), goats (0.10), pigs (0.25), poultry (0.01)

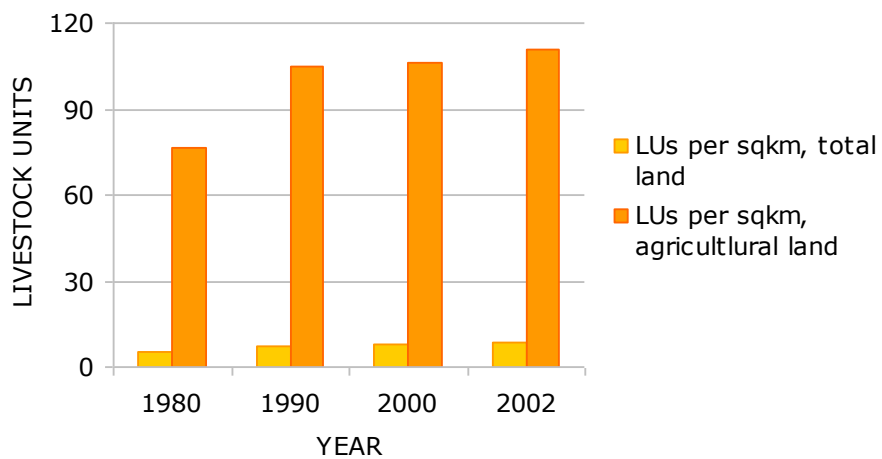
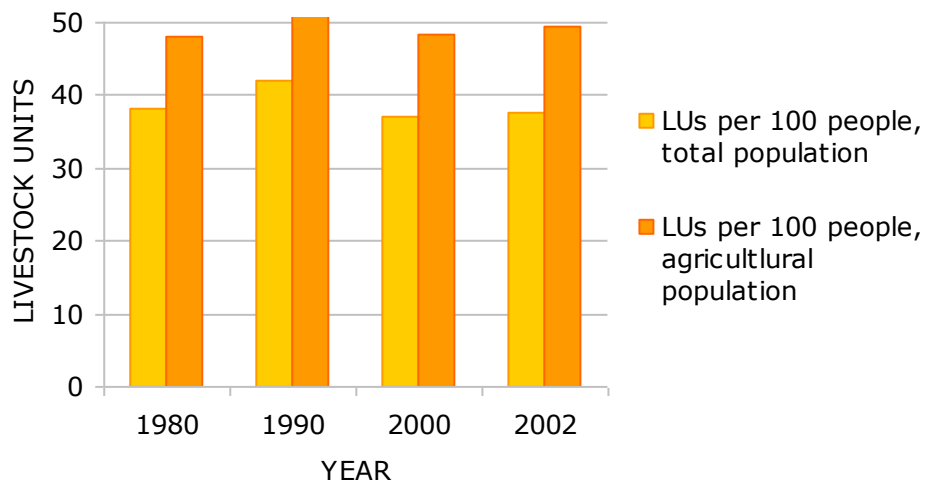
Source: FAO (2005a)

Contribution of different species to total livestock units



Source: FAO (2005a)

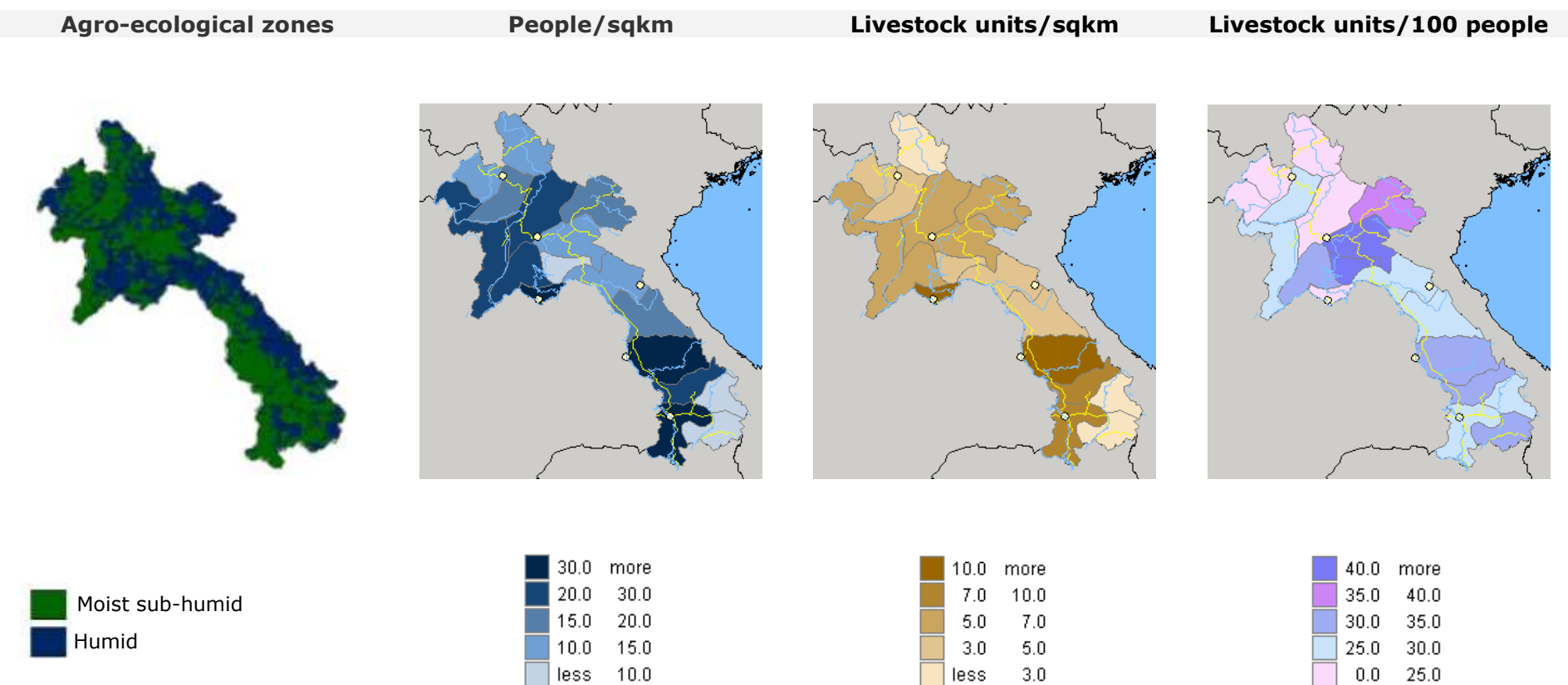
Selected indicators of livestock resources



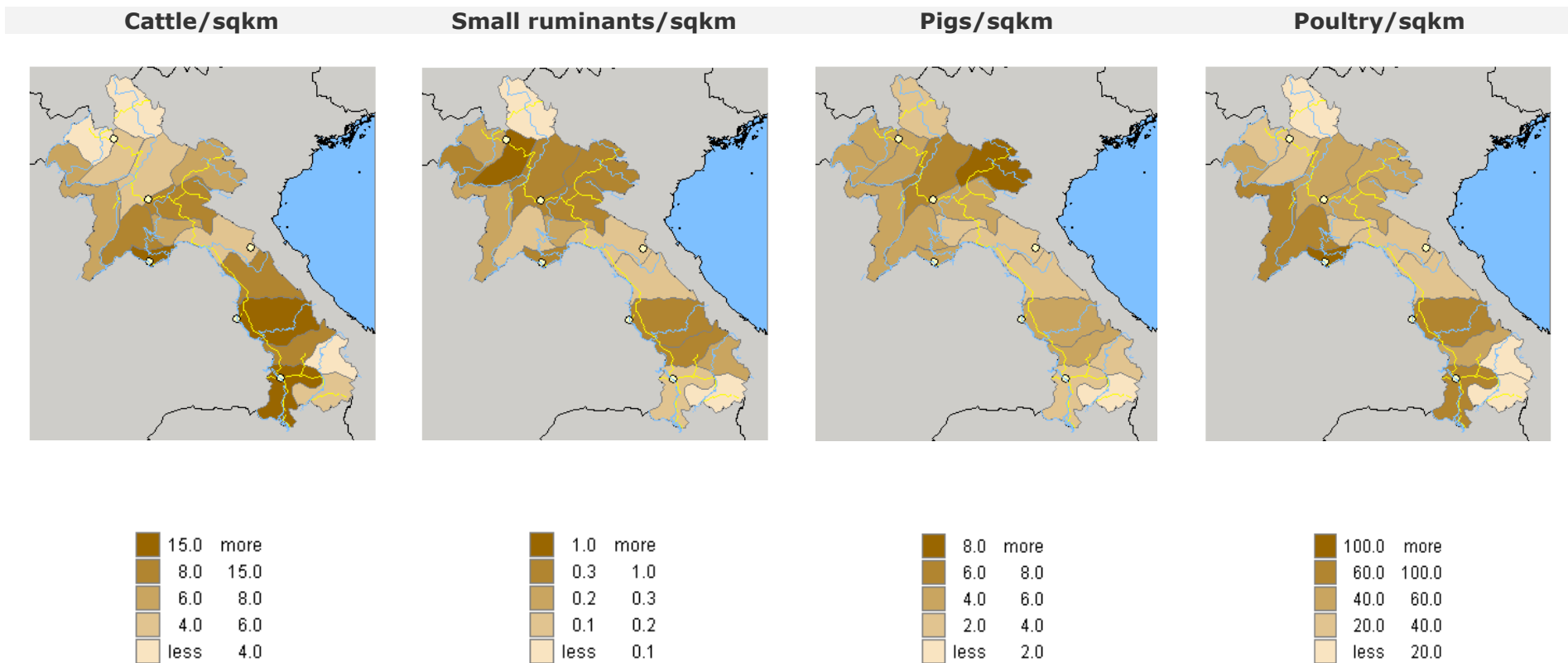
Source: FAO (2005a)

Agro-ecological zones and densities of livestock species (2000)

Density calculated on total land area¹



Source: FAO (2001); LandScan (2002), FAO (2003)



Source: FAO (2005b)

3. LIVESTOCK PRODUCTION

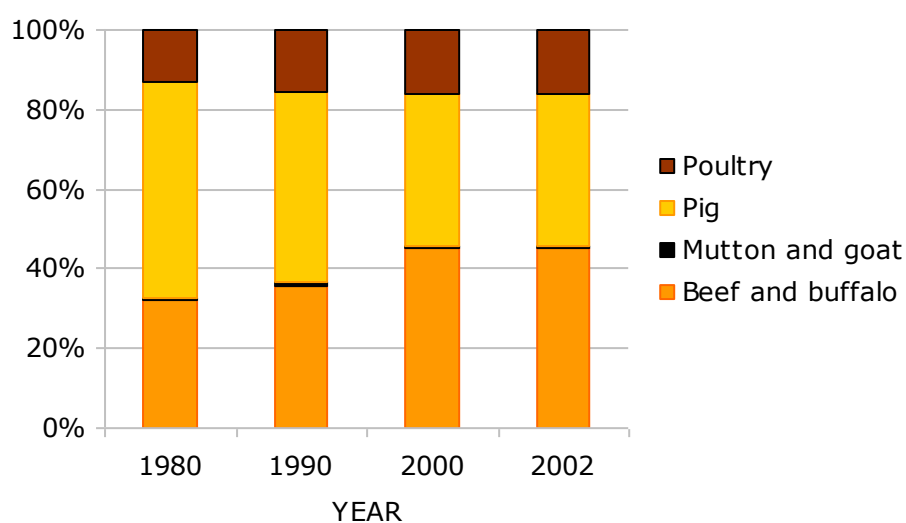
Trends in annual production of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	30.7	43.9	73	82.9	3.6	5.2
Beef and buffalo	9.9	15.7	33	37.6	4.7	7.7
Mutton and goat	0.1	0.3	0.4	0.5	12.2	2.6
Pig	16.6	20.9	27.6	31.6	2.3	2.9
Poultry	4.1	6.9	11.9	13.3	5.5	5.6
Milk, total	3.2	4.7	6	6	3.9	2.5
Eggs, total	4.3	4.3	10.3	12.9	0.1	9.0

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	83	83	110.2	127.3	7.5	10.7	13.5	13.1
Buffaloes	110	110	110	110	7.5	7.0	14.7	14.5
Sheep								
Goat	14	14	14	14	15.4	17.0	25.3	27.5
Pigs	20	20	26.4	24.8	74.7	76.0	73.5	89.7
Poultry	0.8	0.8	1	0.8	98.9	99.5	82.9	96.9

Blanks represent no data

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	200	200	200	200	3.6	2.8	2.7	2.5
Buffaloes								

Blanks represent no data

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	5.2	5.2	5.6	5.5	16.7	9.8	13.7	15.1

Source: FAO (2005a)

Estimated feed used for livestock production

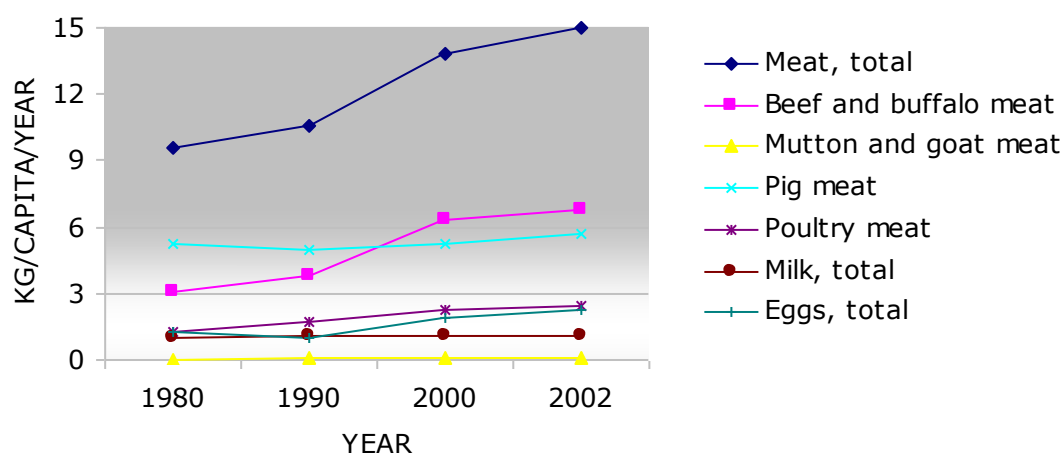
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Maize	0.8	5	12	14	19.4	9.1
Barley						
Sorghum						
Millet						
Wheat						
Brans	83.6	122.6	178.5	196.5	3.9	3.8
Rice Paddy, equivalent	52.7	75.4	110.1	120.8	3.7	3.9
Roots and Tuber, dry equivalent	4.1	4.6	5.8	4.7	1.0	2.4
Pulses						
Oil crops	0	0	0	0		

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

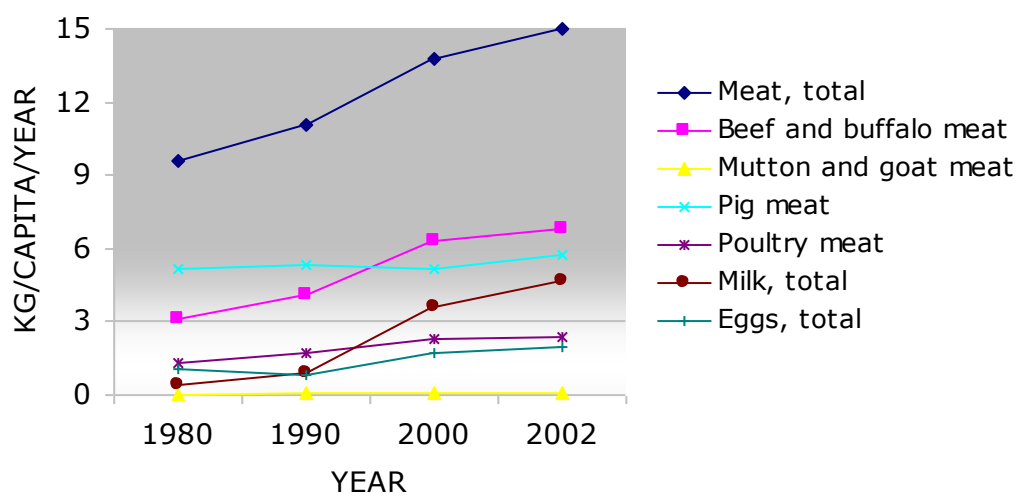
Trends in annual consumption of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	30.7	45.9	73	82.9	4.1	4.7
Beef and buffalo	9.9	16.8	33	37.6	5.4	7.0
Sheep and goat	0.1	0.3	0.4	0.5	12.2	2.6
Pig	16.6	21.9	27.6	31.6	2.8	2.4
Poultry	4.1	6.9	11.9	13.3	5.5	5.6
Milk, total	1.4	3.6	19	25.7	9.6	18.1
Eggs, total	3.7	3.5	8.9	11.1	-0.5	9.9

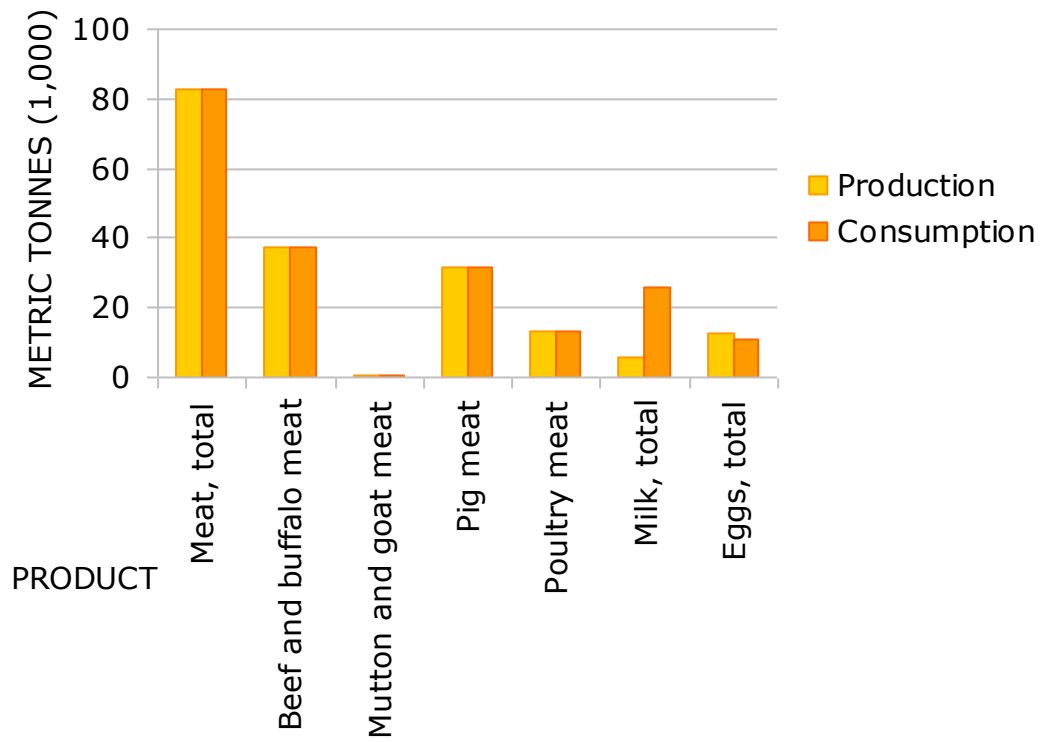
Source: FAO (2005a)

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



Source: FAO (2005a)

Projected production versus consumption for meat, milk and eggs (2002)



Source: FAO (2005a)

5. TRADE IN LIVESTOCK AND LIVESTOCK PRODUCTS

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 and buffaloes	0	0	0	70,000	0	70,000	54,500	44	54,456	35,275	1	35,274
Sheep and goats		0	0		0	0		0	0		0	0
Pigs		0	0		0	0		351	-351		2,021	-2,021
Poultry (1,000)		0	0		0	0		82	-82		189	-189
Value (1,000 US\$)												
Cattle and buffaloes	0	0	0	22,000	0	22,000	12,000	16	11,984	4,476	0	4,476
Sheep and goats		0	0		0	0		0	0		0	0
Pigs		0	0		0	0		49	-49		321	-321
Poultry (1,000)		0	0		0	0		184	-184		305	-305
Total	0	0	0	22,000	0	22,000	12,000	249	11,751	4,476	626	3,850

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	0	0	0	0	1,080	-1,080	5	8	-3	5	26	-21
Beef and buffalo		0	0		1,040	-1,040		0	0		0	0
Mutton and goat		0	0		0	0		0	0		0	0
Pig	0	0	0	0	0	0	5	0	5	5	18	-13
Poultry		0	0		0	0		8	-8		8	-8
Other	0	0	0	0	40	-40	0	0	0	0	0	0
Milk, total		9,120	-9,120		10,592	-10,592		13,715	-13,715		21,694	-21,694
Eggs, total		0	0		0	0		0	0		0	0
Hides and skins	0	0	0	0	0	0	441	0	441	18	0	18
Value (1,000 US\$)												
Meat, total	0	0	0	0	1,100	-1,100	5	5	0	5	44	-39
Beef and buffalo		0	0		1,100	-1,100		0	0		0	0
Mutton and goat		0	0		0	0		0	0		0	0
Pig	0	0	0	0	0	0	5	0	5	5	39	-34
Poultry		0	0		0	0		5	-5		5	-5
Other	0	0	0	0	0	0	0	0	0	0	0	0
Milk, total	0	1,700	-1,700	0	2,060	-2,060	0	4,556	-4,556	30	9,039	-9,009
Eggs, total		0	0		0	0		0	0		0	0
Hides and skins	0	0	0	0	0	0	276	0	276	19	0	19
Total	0	1,700	-1,700	0	3,160	-3,160	281	4,561	-4,280	54	9,083	-9,029

Net trade: Exports less Imports

Blanks represent no data

Source: FAO (2005a)

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	0.00	0.00	0.01	0.01	0.00	2.35	0.01	0.03
Beef and buffalo	0.00	0.00	0.00	0.00	0.00	6.20	0.00	0.00
Sheep and goat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pig	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.06
Poultry	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06
Milk, total	0.00	0.00	0.00	0.00	633.33	294.16	72.35	84.34
Eggs, total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	0.00	0.00	0.00	0.00	0.00	2.35	0.00	0.03
Beef and buffalo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sheep and goat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pig	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.04
Poultry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Milk, total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eggs, total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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							
Avian Influenza ¹	.../...		.../...	(1999)	(1999)	(1999)	
Bluetongue	000		-	-	-	-	
BSE ²							
CBPP ³	000		-	-	-	-	
Classical swine fever	.../...	.../...	.../...	.../...	368/14	250/6	
Foot and mouth disease	.../...	.../7	.../...	200/...	3,100/...	728/...	9,457/...
Lumpy skin disease							
Newcastle disease	.../...	.../...	.../...	.../...	(2000)	.../...	
Peste des petits ruminants	000		-	-	-	-	
Rift Valley fever							
Rinderpest	(1966)		-	-	-	-	
Sheep and goat pox	000		-	-	-		
Swine vesicular disease							
Vesicular stomatitis							

¹ Highly pathogenic avian influenza

² Bovine spongiform encephalopathy

³ Contagious bovine pleuropneumonia

</< number of cases/outbreaks, ... no information, < 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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