

SIERRA LEONE

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Livestock Information, Sector Analysis
and Policy Branch • **AGAL**



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TABLE OF CONTENTS

Preface	ii
1. General Information.....	1
Human population, land and socio-economics	1
Human population trends	2
Trends in agricultural land	2
2. Livestock Resources.....	2
Livestock populations	2
Contribution of different species to total livestock units	3
Selected indicators of livestock resources	3
Agro-ecological zones and densities of livestock species (2000)	4
3. Livestock Production	6
Trends in annual production of meat, milk and eggs	6
Composition of total meat production	6
Carcass weights and percentage slaughtered by species.....	7
Milk yields and proportion of dairy animals.....	7
Egg yields and proportion of laying birds.....	7
Estimated feed used for livestock production.....	8
Trends in annual per capita production of meat, milk and eggs.....	8
4. Consumption of Meat, Milk and Eggs	9
Trends in annual consumption of meat, milk and eggs	9
Trends in annual per capita consumption of meat, milk and eggs.....	9
Production versus consumption for meat, milk and eggs (2002)	10
5. Trade in Livestock and Livestock Products.....	11
Trade in agricultural and livestock products.....	11
Export/import 'dependency' for livestock products	11
Trade in live animals	12
Trade in livestock products	13
6. Livestock Health	14
Total number of cases/outbreaks of selected diseases reported in all susceptible species	14
7. References and Further Reading.....	15

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	4.8 million
Population density on total land	66.5 persons/sqkm
Annual growth rate (1990-2000)	1.5 %
Population in agriculture	2.9 million
As proportion of total population	61.1 %
Total land area	71,620 sqkm
Agricultural land	28,000 sqkm
As proportion of total land	39.1 %
Land under pasture	22,000 sqkm
As proportion of total land	78.6 %
Irrigated area	300 ha
Agricultural land per 100 people	59 ha
Agricultural land per 100 people in agriculture	96 ha
Agricultural population density on agricultural land	104.0 persons/sqkm
GDP ¹	862 million US\$
GDP annual growth rate (1990-2000)	-1.6 %
GDP per capita/year ¹	165 US\$
GDP per capita annual growth rate (1990-2000)	-3.8 %
Agriculture, GDP	404 million US\$
As proportion of total GDP	46.9 %
Livestock, GDP ¹	61 million US\$
As proportion of agricultural GDP	15.2 %
Human development Rank	177 Ranking ²
Human development index	0.273
Poverty incidence ³	
Total	68.0 %
Urban	53.0 %
Rural	76.0 %

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	3,239	4,054	4,415	4,764	2.3	0.9
Rural	2,460	2,838	2,796	2,983	1.4	-0.1
Urban	779	1,216	1,619	1,781	4.6	2.9

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	27,030	27,440	27,500	28,000	0.2	0.0
Cropped ²	4,990	5,400	5,500	6,000	0.8	0.2
Pastures	22,040	22,040	22,000	22,000	0.0	0.0

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

²Arable and permanent crops

Source: FAO (2005a)

2. LIVESTOCK RESOURCES

Livestock populations

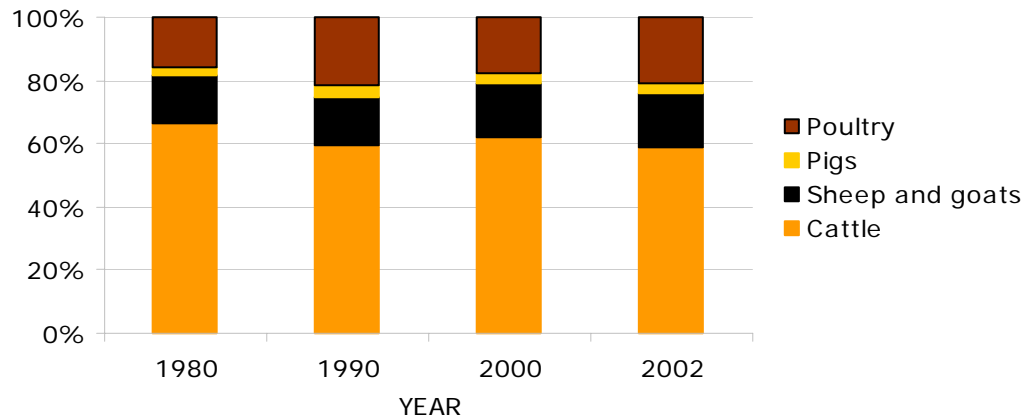
Values expressed in 1,000

Species	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Cattle	348	333	420	400	-0.4	2.3
Sheep and goats	403	420	585	590	0.4	3.4
Pigs	36	50	52	52	3.3	0.4
Poultry	4,102	6,062	6,070	7,070	4.0	0.0
Total LUs	263	279	340	340	0.6	2.0

LU: *Livestock unit*; **conversion factors:** cattle (0.50), sheep and goats (0.10), pigs (0.20) and poultry (0.01)

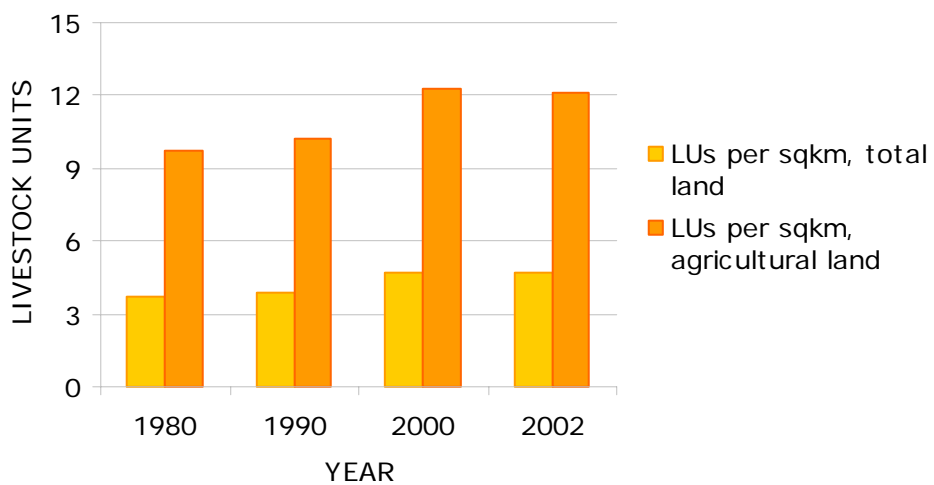
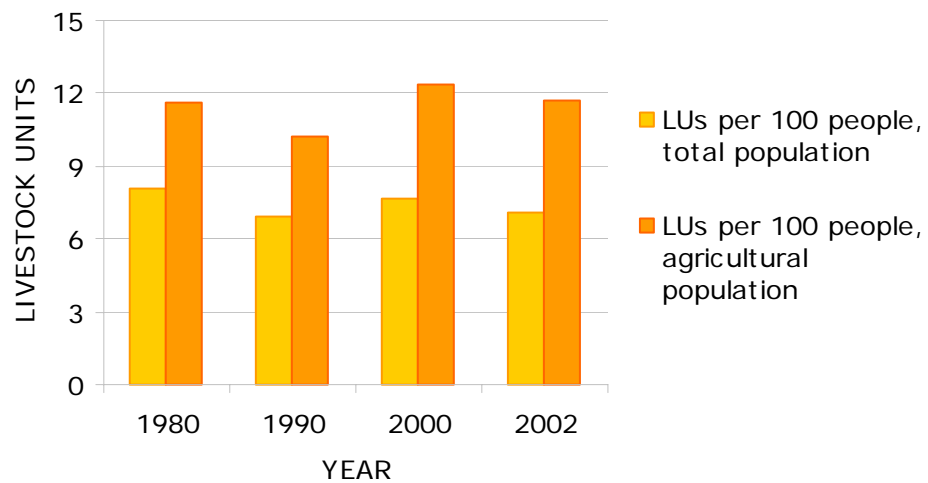
Source: FAO (2005a)

Contribution of different species to total livestock units



Source: FAO (2005a)

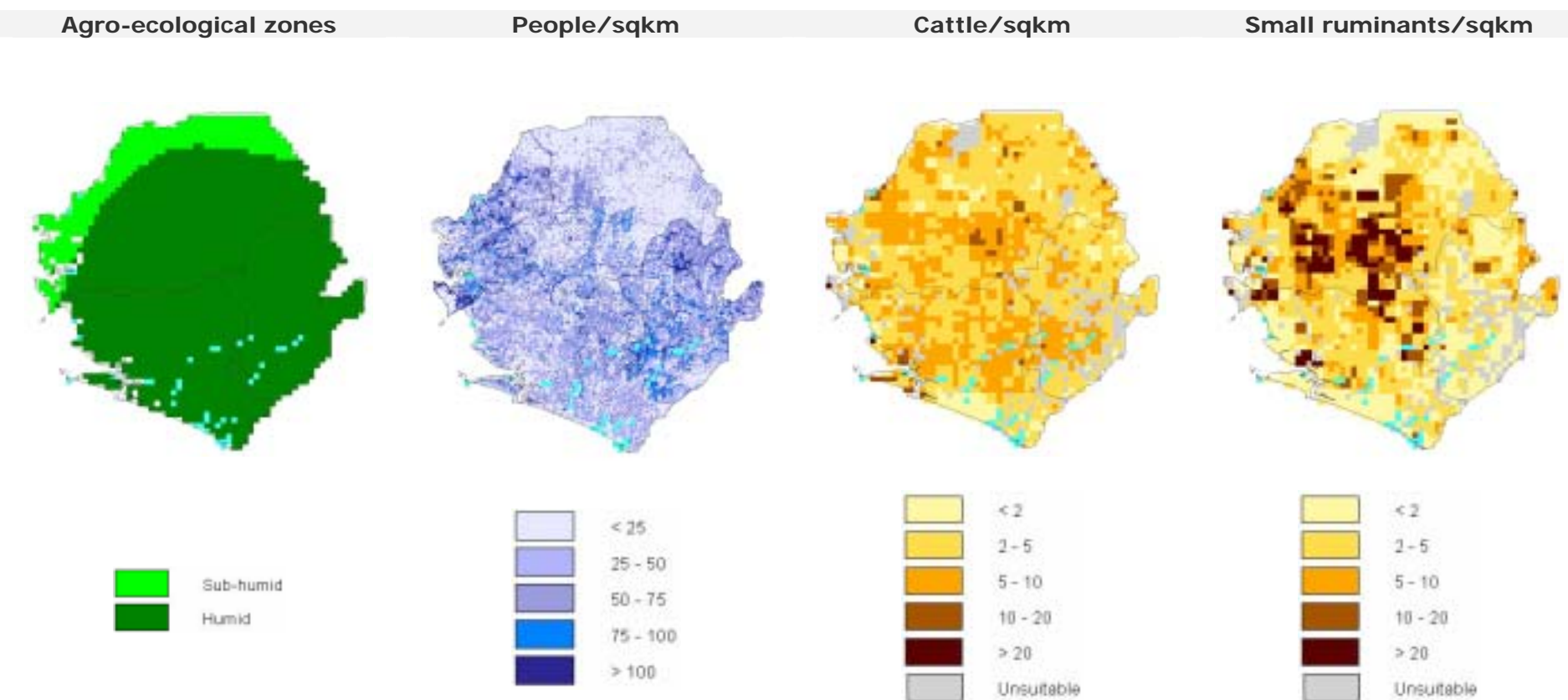
Selected indicators of livestock resources



Source: FAO (2005a)

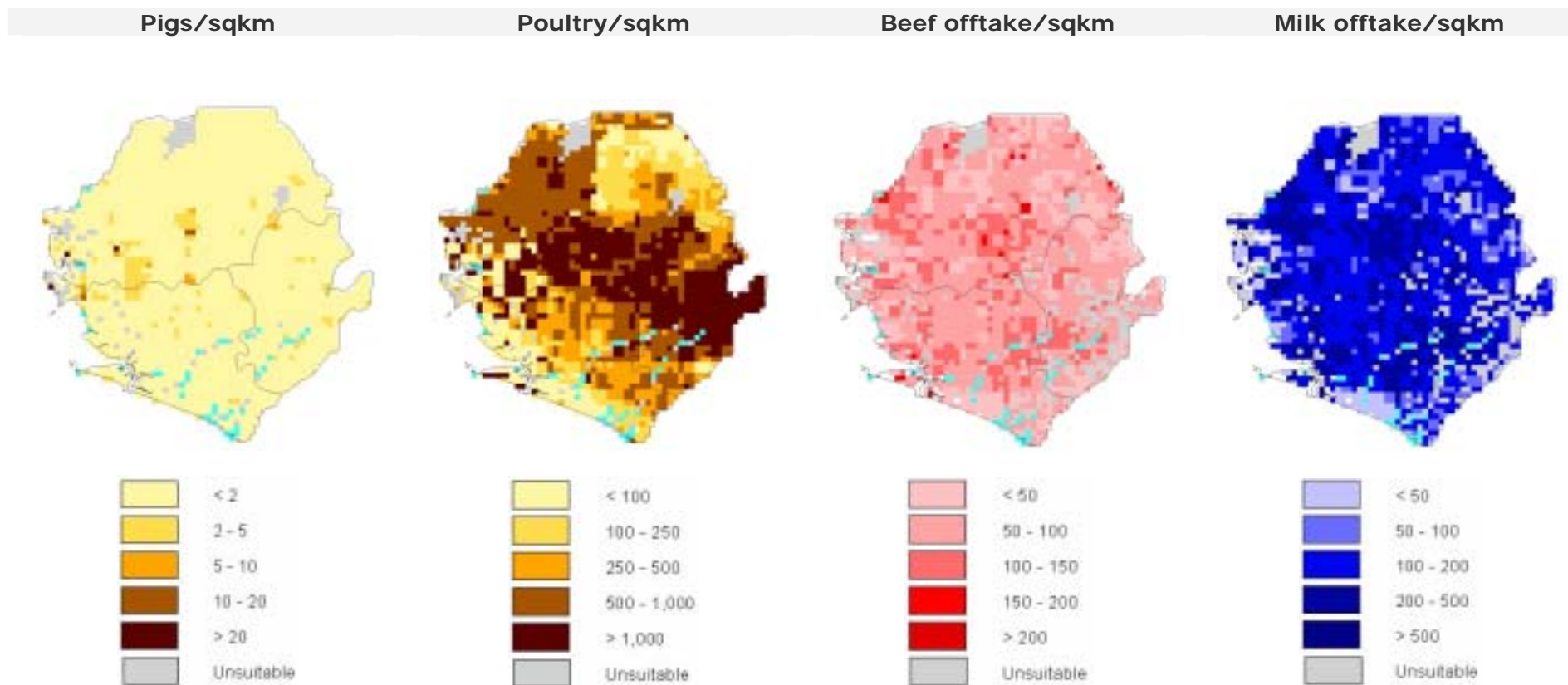
Agro-ecological zones and densities of livestock species (2000)

Density calculated on total land area¹



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

Source: FAO (2001); LandScan (2002), FAO (2005b)



Source: FAO (2005b); FAO (2003)

3. LIVESTOCK PRODUCTION

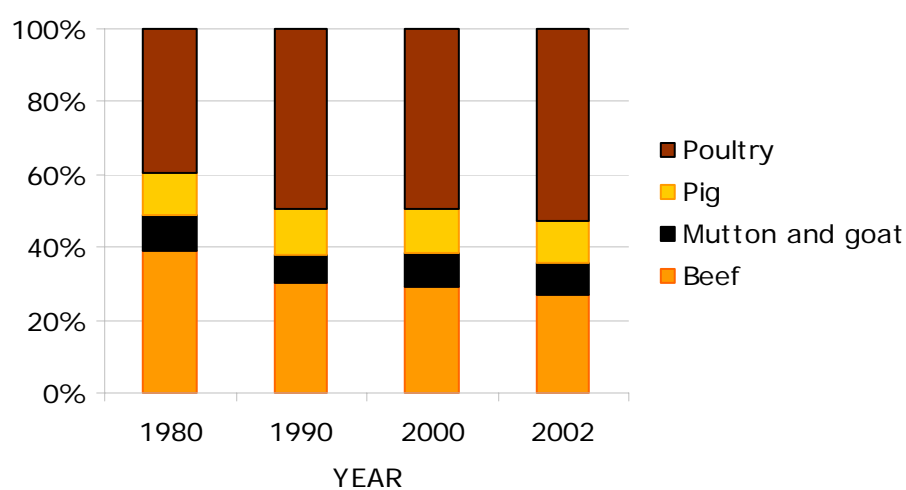
Trends in annual production of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	15.8	19.4	20.5	22.4	2.1	0.5
Beef	5.4	5.2	5.4	5.4	-0.3	0.3
Mutton and goat	1.4	1.4	1.7	1.7	-0.2	2.1
Pig	1.6	2.2	2.3	2.3	3.5	0.4
Poultry	5.5	8.6	9.1	10.5	4.7	0.5
Milk, total	18.2	17.2	21.2	21.2	-0.6	2.1
Eggs, total	4.7	6.9	8.0	8.3	4.0	1.5

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	90.0	90.0	90.0	90.0	17.2	17.4	14.3	15.0
Sheep	11.0	11.0	11.0	11.0	37.1	34.7	29.6	29.7
Goat	9.0	9.0	9.0	9.0	25.0	24.9	25.0	25.0
Pigs	58.0	58.0	58.0	58.0	75.0	76.0	76.0	76.9
Poultry	0.9	0.9	0.9	0.9	147.5	157.7	165.9	165.1

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	250	250	250	250	21.0	20.7	20.2	21.2

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	2.3	2.3	2.3	2.3	50.0	50.0	58.2	51.4

Source: FAO (2005a)

Estimated feed used for livestock production

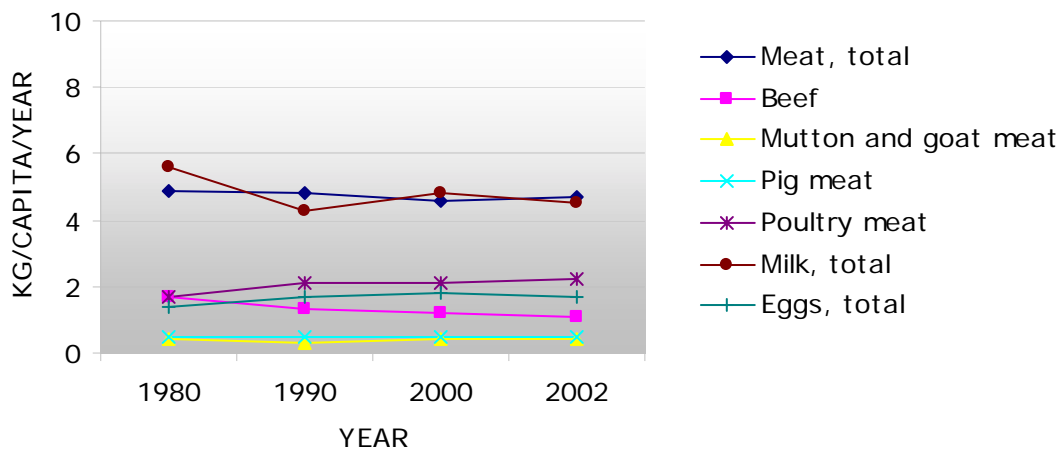
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Maize						
Barley						
Sorghum	0.6	1.1	0.8	0.9	7.3	-3.5
Millet	0.7	1.2	0.4	0.5	5.4	-10.8
Wheat						
Brans	36.8	41.4	17.4	21.1	1.2	-8.3
Rice Paddy, equivalent						
Roots and Tuber, dry equivalent						
Pulses						
Oil crops						

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

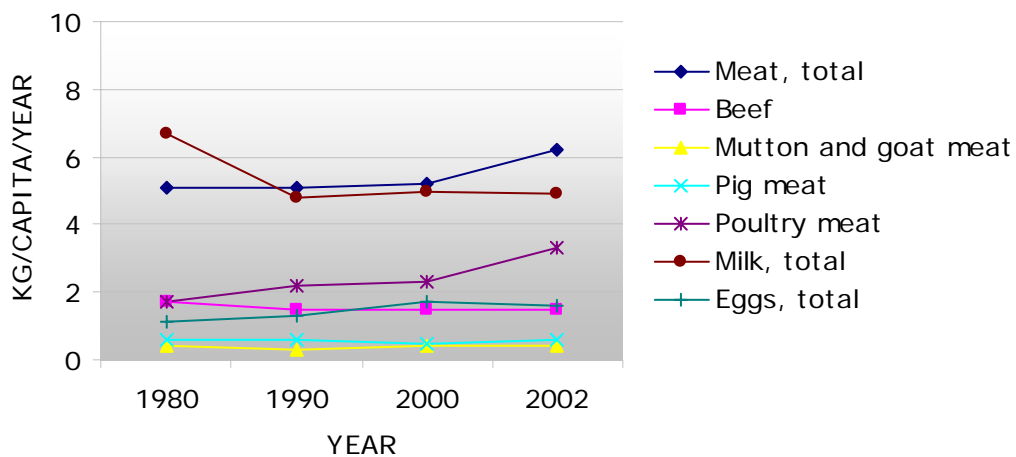
Trends in annual consumption of meat, milk and eggs

1,000 metric tonnes

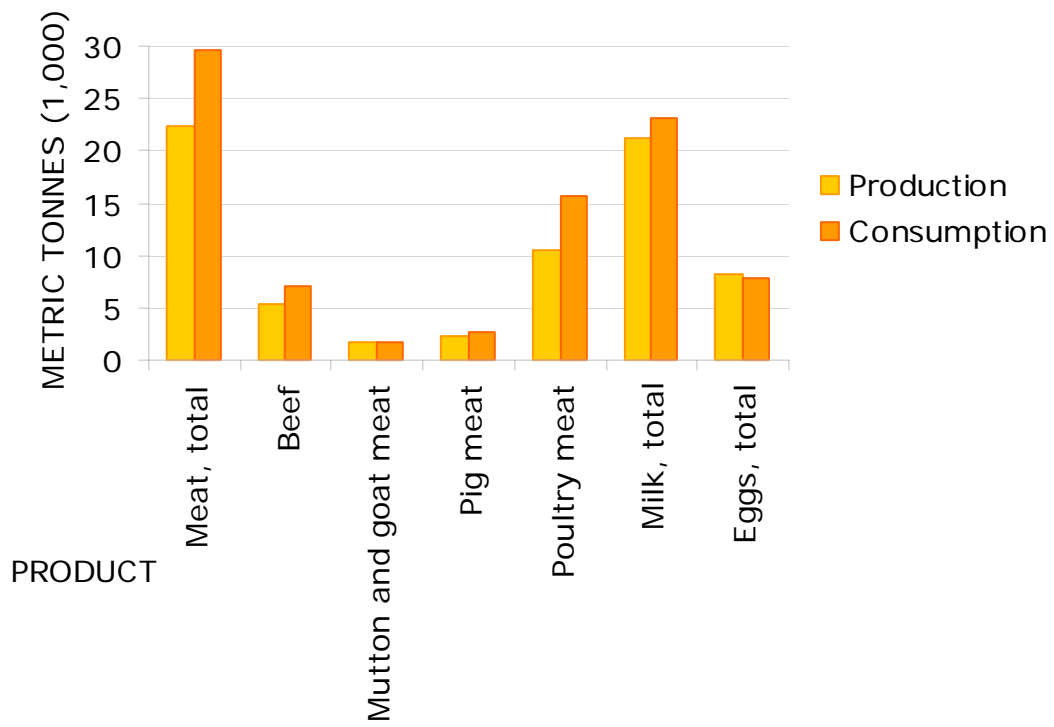
Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	16.4	20.6	22.8	29.7	2.3	1.0
Beef	5.6	5.9	6.5	7.1	0.5	1.0
Sheep and goat	1.4	1.4	1.7	1.7	-0.2	2.1
Pig	1.8	2.4	2.3	2.7	2.8	-0.5
Poultry	5.5	8.9	10.3	15.7	4.8	1.5
Milk, total	21.9	19.3	22.1	23.2	-1.2	1.4
Eggs, total	3.5	5.2	7.5	7.8	4.1	3.8

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	251.7	145.8	109.7	141.6	420.7	154.4	211.8	316.9
Agricultural	58.6	18.1	6.9	7.9	90.1	105.2	117.9	142.4
% agricultural	23.3	12.4	6.3	5.6	21.4	68.1	55.7	44.9
Livestock	0.0	0.0	0.0	0.0	19.2	23.6	16.4	27.3
% livestock	0.0	0.0	0.0	0.0	4.6	15.3	7.7	8.6

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	0.00	0.00	0.00	0.00	3.53	5.20	8.05	33.55
Beef	0.00	0.00	0.00	0.00	3.48	10.10	9.69	0.48
Sheep and goat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23
Pig	0.00	0.00	0.00	0.00	12.75	8.43	0.37	23.78
Poultry	0.00	0.00	0.00	0.00	1.21	2.82	11.57	58.29
Milk, equivalent	0.00	0.00	0.00	0.00	148.71	51.54	29.01	183.91
Eggs, total	0.00	0.00	0.00	0.00	0.00	0.77	23.84	15.32

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	3.53	5.20	8.05	33.55
Beef	0.00	0.00	0.00	0.00	3.48	10.10	9.69	0.48
Sheep and goat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pig	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Poultry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Milk, equivalent	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)

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		25,000	-25,000		25,000	-25,000		15,000	-15,000		15,000	-15,000
Sheep and goats		46,000	-46,000		40,000	-40,000		40,000	-40,000		40,000	-40,000
Pigs												
Poultry (1,000)	0	110	-110	0	70	-70	0	170	-170	0	6	-6
Value (1,000 US\$)												
Cattle		7,300	-7,300		15,000	-15,000		7,000	-7,000		7,000	-7,000
Sheep and goats		2,000	-2,000		2,500	-2,500		2,500	-2,500		2,500	-2,500
Pigs												
Poultry (1,000)	0	100	-100	0	60	-60	0	160	-160	0	4	-4
Total	0	9,400	-9,400	0	17,560	-17,560	0	9,660	-9,660	0	9,504	-9,504

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	580	-580	0	1,069	-1,069	0	1,834	-1,834	0	9,959	-9,959
Beef	0	195	-195	0	596	-596	0	632	-632	0	34	-34
Mutton and goat		0	0		0	0		0	0		21	-21
Pig		234	-234		205	-205		9	-9		649	-649
Poultry		67	-67		250	-250		1,189	-1,189		9,138	-9,138
Other	0	85	-85	0	19	-19	0	4	-4	0	116	-116
Milk, equivalent		32,502	-32,502		9,969	-9,969		6,426	-6,426		42,754	-42,754
Eggs, total		0	0		40	-40		1,800	-1,800		1,195	-1,195
Hides and skins												
Value (1,000 US\$)												
Meat, total	0	1,031	-1,031	0	1,665	-1,665	0	1,844	-1,844	0	10,051	-10,051
Beef	0	300	-300	0	1,050	-1,050	0	800	-800	0	31	-31
Mutton and goat		0	0		0	0		0	0		35	-35
Pig		490	-490		215	-215		10	-10		550	-550
Poultry		90	-90		400	-400		1,034	-1,034		9,330	-9,330
Other	0	151	-151	0	0	0	0	0	0	0	105	-105
Milk, equivalent		8,760	-8,760		4,150	-4,150		3,061	-3,061		7,015	-7,015
Eggs, total		0	0		195	-195		1,800	-1,800		718	-718
Hides and skins												
Total	0	9,791	-9,791	0	6,010	-6,010	0	6,705	-6,705	0	17,784	-17,784

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							
Avian Influenza ¹							
Bluetongue							
BSE ²							
CBPP ³							
Classical swine fever							
Foot and mouth disease							
Lumpy skin disease							
Newcastle disease							
Peste des petits ruminants							
Rift Valley fever							
Rinderpest							
Sheep and goat pox							
Swine vesicular disease							
Vesicular stomatitis							

¹ Highly pathogenic avian influenza

² Bovine spongiform encephalopathy

³ Contagious bovine pleuropneumonia

no./no. 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)

7. REFERENCES AND FURTHER READING

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