

LIVESTOCK SECTOR BRIEF

CHINA

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

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



July 2005

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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	1,272.4 million
Population density on total land	137.0 persons/sqkm
Annual growth rate (1990-2000)	0.9 %
Population in agriculture	849 million
As proportion of total population	66.7 %
Total land area	9,291,000 sqkm
Agricultural land	5,531,000 sqkm
As proportion of total land	59.5 %
Land under pasture	4,000,000 sqkm
As proportion of total land	72.3 %
Irrigated area	543,550 ha
Agricultural land per 100 people	43.5 ha
Agricultural land per 100 people in agriculture	65.1 ha
Agricultural population density on agricultural land	153.5 persons/sqkm
GDP ¹	1,208,854 million US\$
GDP annual growth rate (1990-2000)	9.3 %
GDP per capita/year ¹	944 US\$
GDP per capita annual growth rate (1990-2000)	8.3 %
Agriculture, GDP	180,049 million US\$
As proportion of total GDP	14.9 %
Livestock, GDP ¹	61,303 million US\$
As proportion of agricultural GDP	34 %
Human development Rank	94 Ranking ²
Human development index	0.745
Poverty incidence ³	
Total	4.6 %
Urban	2.0 %
Rural	4.6 %

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	981,235	1,135,026	1,253,031	1,272,403	1.5	1.0
Rural	801,610	837,530	817,818	806,902	0.4	-0.2
Urban	179,625	297,497	435,213	465,502	5.2	3.9

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	4,333,050	5,305,000	5,478,000	5,531,000	2.0	0.3
Cropped ²	993,050	1,305,000	1,478,000	1,531,000	2.8	1.3
Pastures	3,340,000	4,000,000	4,000,000	4,000,000	1.8	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

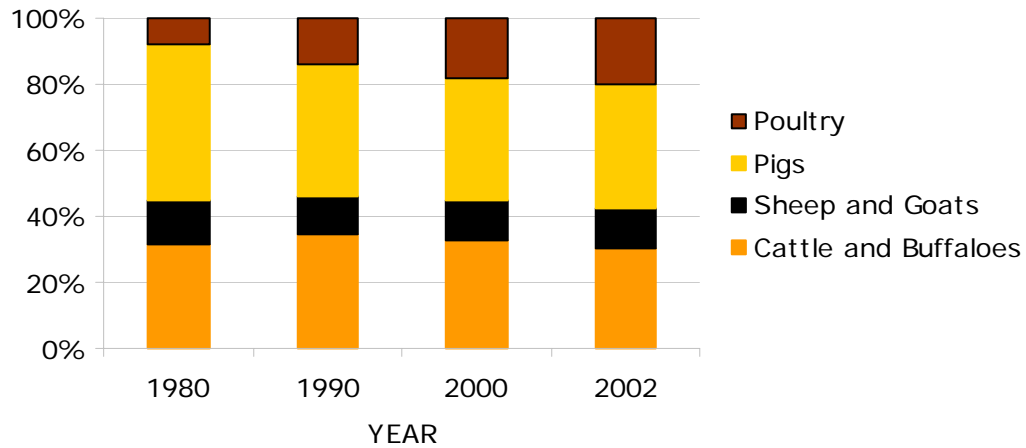
Values expressed in 1,000

Species	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Cattle and buffaloes	70,788	100,752	126,983	123,643	3.6	2.3
Sheep and goats	183,142	211,642	279,258	297,185	1.5	2.8
Pigs	319,705	352,811	430,198	457,430	1.0	2.0
Poultry	1,106,000	2,419,000	4,300,000	4,888,506	8.1	5.9
Total LUs	135,788	176,368	233,155	244,275	2.6	2.8

LU: *Livestock unit*; **conversion factors:** cattle (0.60), buffalo (0.60), sheep and goats (0.10), pigs (0.20) and poultry (0.01)

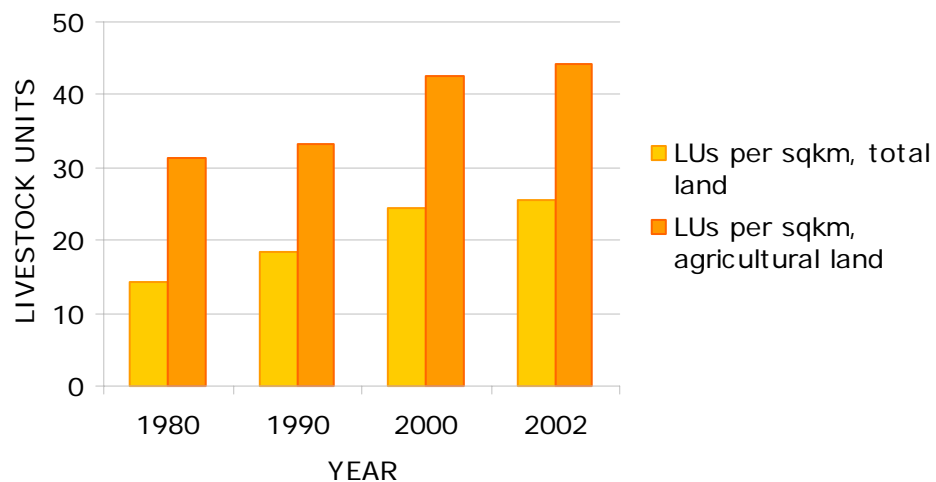
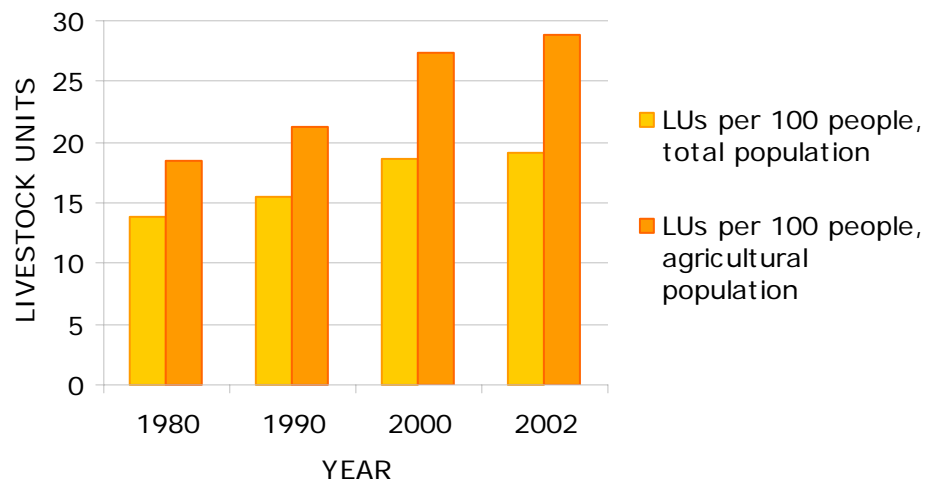
Source: FAO (2005a)

Contribution of different species to total livestock units



Source: FAO (2005a)

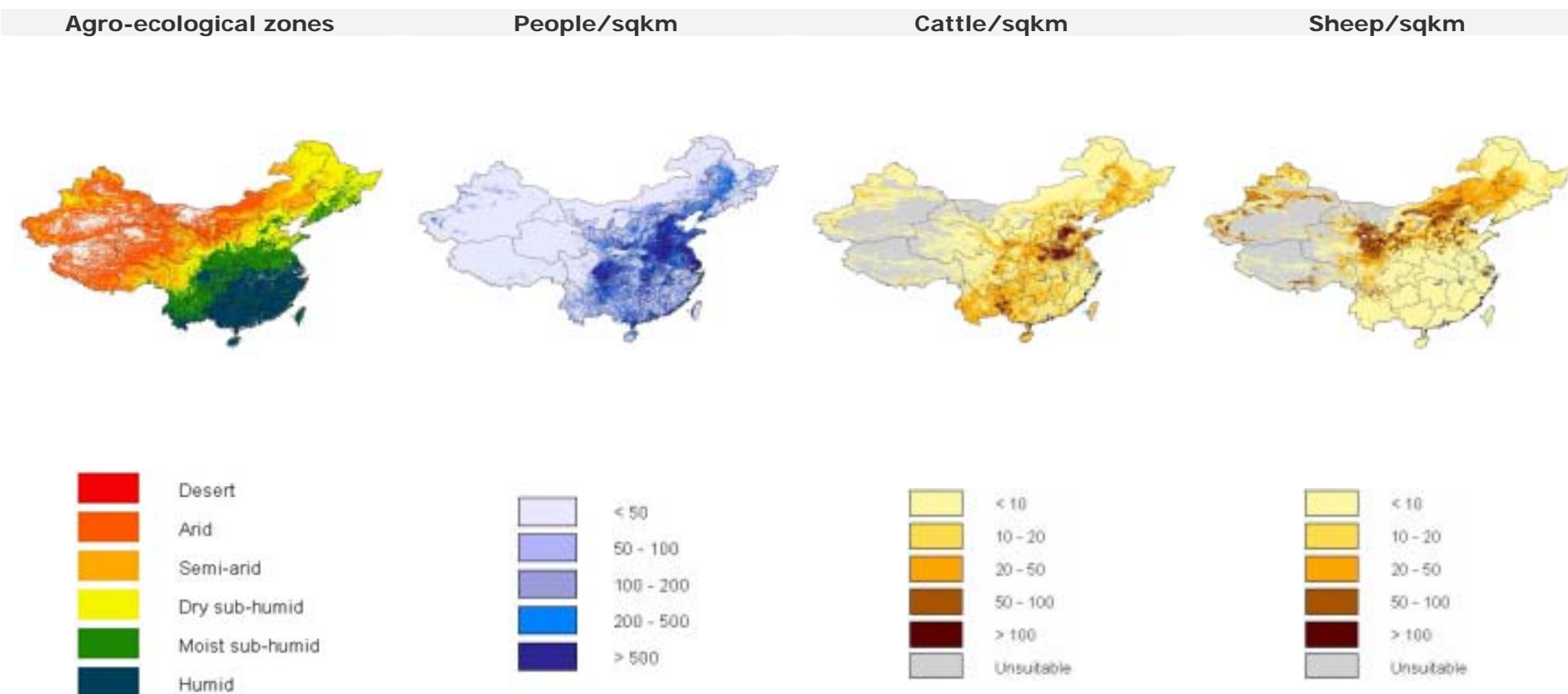
Selected indicators of livestock resources



Source: FAO (2005a)

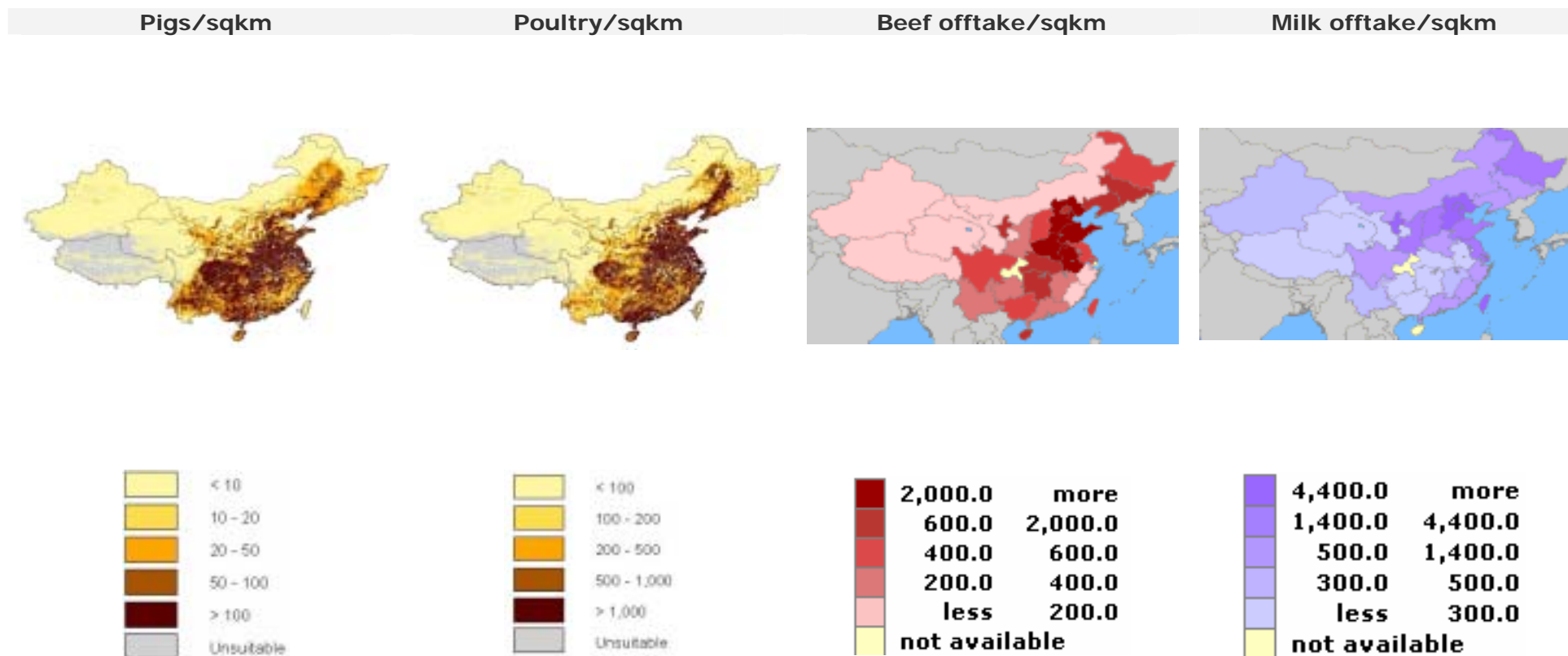
Agro-ecological zones and densities of livestock species (2000)

Density calculated on total land area¹



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

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



Source: FAO (2005b)

3. LIVESTOCK PRODUCTION

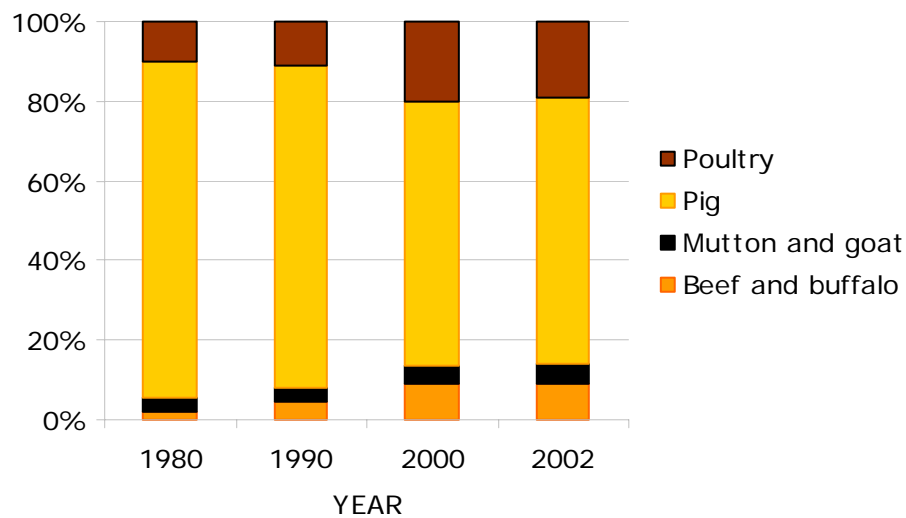
Trends in annual production of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	13,648	28,584	61,254	65,866	7.7	7.9
Beef and buffalo	300	1,256	5,328	5,846	15.4	15.5
Mutton and goat	450	1,068	2,740	3,167	9.0	9.9
Pig	11,341	22,811	40,314	43,266	7.2	5.9
Poultry	1,356	3,159	12,075	12,498	8.8	14.3
Milk, total	2,874	6,820	11,985	16,938	9.0	5.8
Eggs, total	2,800	7,946	22,433	24,627	11.0	10.9

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	94.4	142.9	137.8	136.0	4.8	9.7	34.5	39.8
Buffaloes	86.7	100.0	100.0	100.0	4.1	7.3	15.9	17.0
Sheep	10.6	12.0	14.4	14.6	23.0	40.2	76.5	84.5
Goat	10.6	11.8	12.5	12.6	23.3	44.8	70.5	73.2
Pigs	57.1	73.6	76.5	76.3	62.1	87.8	122.4	123.9
Poultry	1.1	1.3	1.5	1.5	107.2	98.2	188.0	170.4

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	1,780	1,545	1,724	2,296	1.2	3.4	4.6	5.6
Buffaloes	400	437	510	509	18.9	20.3	23.0	23.4

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	4.1	8.5	10.1	10.5	61.7	37.5	54.1	50.2

Source: FAO (2005a)

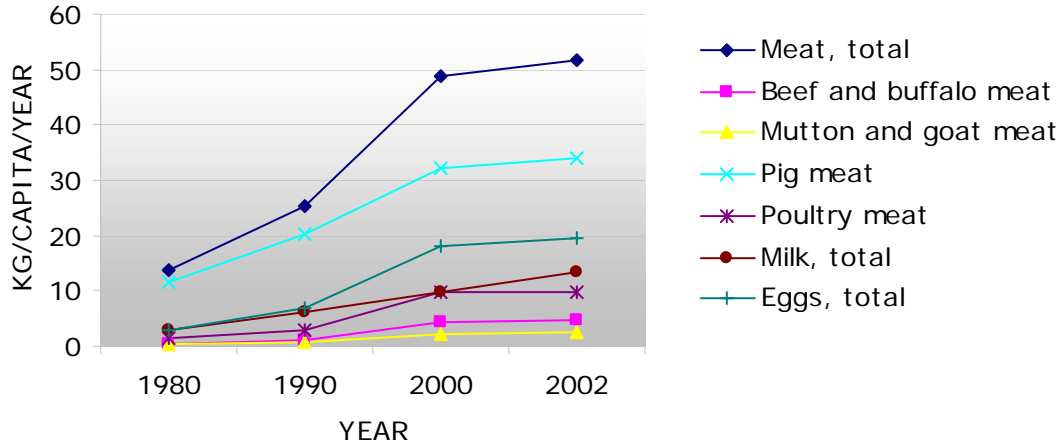
Estimated feed used for livestock production

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Maize	33,434	46,584	73,198	72,323	3.4	4.6
Barley	198	333	96	129	5.3	-11.7
Sorghum	2,000	2,000	1,450	1,400	0.0	-3.2
Millet	900	754	1,100	850	-1.8	3.8
Wheat	1,800	3,300	2,000	300	6.2	-4.9
Brans	26,721	36,255	35,456	32,372	3.1	-0.2
Rice Paddy, equivalent	2,226	5,549	2,717	794	9.6	-6.9
Roots and Tuber, dry equivalent	10,667	14,642	19,653	18,151	3.2	3.0
Pulses	1,040	1,321	2,035	2,504	2.4	4.4
Oil crops	1,665	3,799	3,466	4,148	8.6	-0.9

Source: FAO (2005a)

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



Source: FAO (2005a)

4. CONSUMPTION OF MEAT, MILK AND EGGS

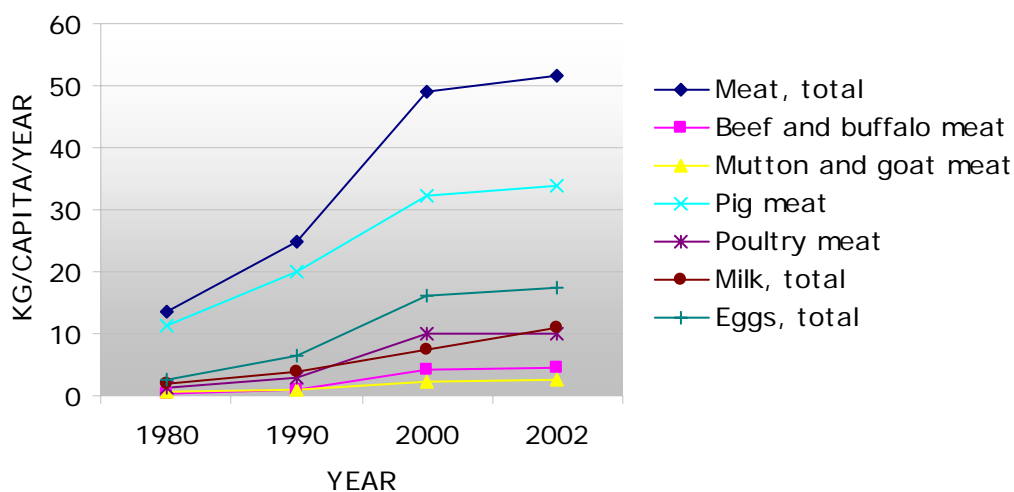
Trends in annual consumption of meat, milk and eggs

1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total	13,401	28,107	61,553	65,746	7.7	8.2
Beef and buffalo	286	1,039	5,276	5,801	13.8	17.6
Sheep and goat	448	1,065	2,754	3,197	9.1	10.0
Pig	11,212	22,572	40,365	43,147	7.2	6.0
Poultry	1,312	3,180	12,395	12,665	9.3	14.6
Milk, total	1,718	4,551	9,181	13,967	10.2	7.3
Eggs, total	2,470	7,200	20,318	22,316	11.3	10.9

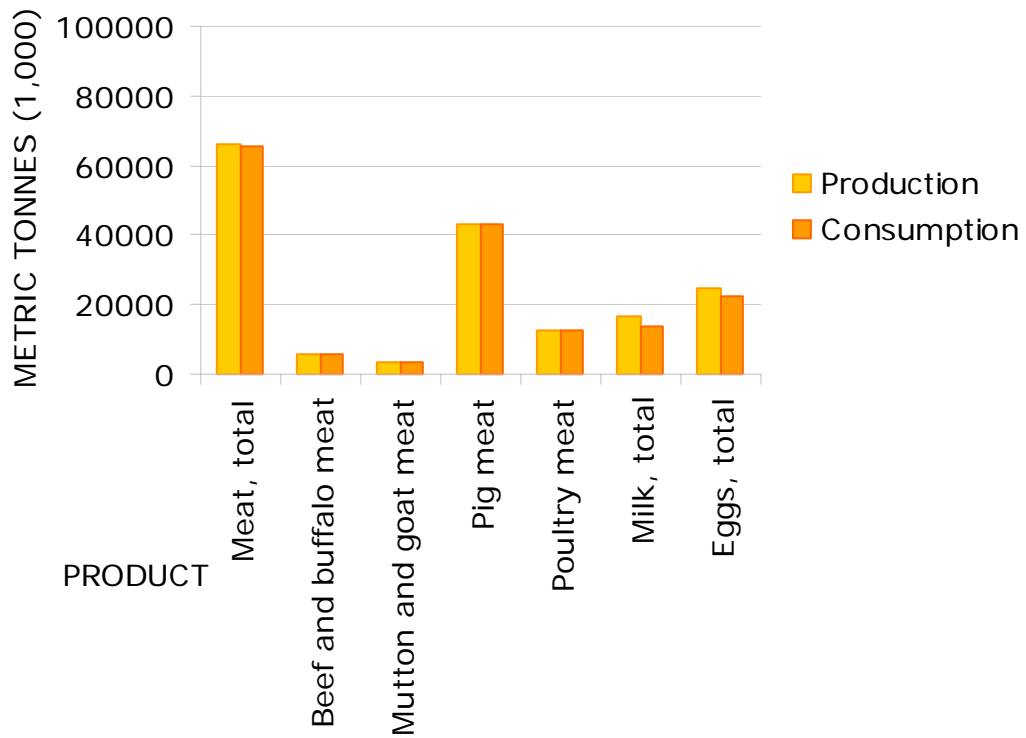
Source: FAO (2005a)

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 agriculture and livestock¹

Values in billion US\$

Product	Exports				Imports			
	1980	1990	2000	2002	1980	1990	2000	2002
Total	14.3	62.2	280.0	365.0	14.8	50.8	251.0	328.0
Agricultural	3.3	8.4	12.1	13.6	5.7	5.5	9.9	10.7
% agricultural	23.0	13.5	4.3	3.7	38.2	10.9	3.9	3.3
Livestock	0.8	1.4	1.7	1.8	0.0	0.2	1.5	1.6
% livestock	5.9	2.3	0.6	0.5	0.1	0.3	0.6	0.5

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	1.76	1.79	1.27	1.39	0.00	0.24	1.70	1.22
Beef and buffalo	2.60	14.46	0.86	0.67	0.00	0.05	0.17	0.26
Sheep and goat	0.67	0.28	0.15	0.16	0.13	0.00	0.65	1.09
Pig	1.14	1.06	0.35	0.67	0.00	0.00	0.41	0.41
Poultry	3.24	1.47	4.55	4.48	0.00	2.13	6.86	4.54
Milk, equivalent	0.23	0.41	1.33	0.91	2.70	7.41	17.03	14.01
Eggs, total	1.89	0.49	0.29	0.34	0.00	0.04	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	1.76	1.55	0.00	0.86	0.00	0.00	0.43	0.00
Beef and buffalo	2.60	14.42	0.70	8.00	0.00	0.00	0.00	0.00
Sheep and goat	0.53	0.28	0.00	0.00	0.00	0.00	0.49	0.93
Pig	1.14	1.06	0.00	1.02	0.00	0.00	0.06	0.00
Poultry	3.24	0.00	0.00	0.00	0.00	0.67	2.43	0.11
Milk, equivalent	0.00	0.00	0.00	0.00	2.32	6.79	15.29	12.90
Eggs, total	1.89	0.46	0.29	2.99	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 and buffaloes	237,400	1,800	235,600	190,373	577	189,796	64,770	581	64,189	58,280	11,432	46,848
Sheep and goats	18,000	750	17,250	27,900	1,560	26,340	15,790	2,713	13,077	5,879	4,173	1,706
Pigs	4,450,000	400	4,449,600	2,999,123	73	2,999,050	2,038,930	3,364	2,035,566	1,888,606	1,163	1,887,443
Poultry (1,000)	19,010	0	19,010	51,866	3,614	48,252	48,900	1,078	47,823	42,804	1,029	41,775
Value (1,000 US\$)												
Cattle and buffaloes	40,000	3,000	37,000	62,863	1,625	61,238	37,960	2,225	35,735	33,107	22,004	11,103
Sheep and goats	650	115	535	875	1,186	-311	443	4,242	-3,799	176	4,060	-3,884
Pigs	231,000	300	230,700	270,912	2	270,910	231,932	4,066	227,866	214,914	2,011	212,903
Poultry (1,000)	30,000	0	30,000	89,947	10,718	79,229	104,112	11,179	92,933	82,067	12,537	69,530
Total	301,650	3,415	298,235	424,597	13,531	411,066	374,447	21,712	352,735	330,264	40,612	289,652

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	240,785	600	240,185	510,267	68,477	441,790	779,261	1,043,442	-264,181	916,819	799,970	116,849
Beef and buffalo	7,800	0	7,800	181,584	522	181,062	45,860	8,797	37,063	38,996	14,988	24,008
Mutton and goat	3,000	600	2,400	3,035	51	2,984	4,156	17,783	-13,627	4,996	34,877	-29,881
Pig	128,825	0	128,825	241,054	44	241,010	139,753	165,975	-26,221	290,416	175,100	115,316
Poultry	43,910	0	43,910	46,370	67,566	-21,196	548,920	850,258	-301,338	560,307	574,513	-14,207
Other	57,250	0	-57,250	38,224	294	-38,518	40,572	629	-41,201	22,104	491	-22,595
Milk, equivalent	6,590	46,400	-39,810	28,121	337,227	-309,106	158,909	1,563,193	-1,404,284	154,807	1,956,242	-1,801,435
Eggs, total	52,800	0	52,800	38,896	2,660	36,236	65,138	156	64,982	83,886	192	83,694
Hides and skins	2,400	0	2,400	71,116	10,253	60,863	23,235	542,863	-519,628	9,132	555,202	-546,070
Value (1,000 US\$)												
Meat, total	443,300	900	442,400	783,654	51,862	731,792	1,242,898	569,077	673,822	1,361,791	556,252	805,539
Beef and buffalo	14,500	0	14,500	240,580	2,961	237,619	66,333	11,515	54,818	54,881	17,662	37,219
Mutton and goat	6,000	900	5,100	4,460	251	4,209	5,679	13,994	-8,315	7,773	27,008	-19,235
Pig	273,000	0	273,000	385,688	123	385,565	192,817	61,366	131,452	372,825	83,618	289,207
Poultry	68,000	0	68,000	86,910	47,839	39,071	884,136	480,780	403,356	868,024	426,784	441,240
Other	81,800	0	-81,800	66,016	688	-66,704	93,932	1,421	-95,353	58,288	1,180	-59,468
Milk, equivalent	2,840	11,700	-8,860	13,182	78,744	-65,562	61,204	221,247	-160,043	60,602	273,942	-213,340
Eggs, total	47,000	0	47,000	40,203	2,032	38,171	30,402	417	29,984	36,154	328	35,826
Hides and skins	52,000	0	52,000	153,355	20,835	132,520	11,488	637,771	-626,283	13,359	743,092	-729,733
Total	545,140	12,600	532,540	990,394	153,473	836,921	1,345,992	1,428,512	-82,520	1,471,906	1,573,614	-101,708

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
Avian Influenza ¹			-	-	-	-	
Bluetongue			-	-	-	.../...	
BSE ²						000	
CBPP ³	(1985)	(1985)	(1985)	(1985)		(01/1996)	(01/1996)
Classical swine fever	.../104	.../45	415,000/672	41,901/72	34,245/56	98,371/185	.../...
Foot and mouth disease	.../...	.../2	1,280/...	(05/1999)	(05/1999)	(05/1999)	
Lumpy skin disease		000	000	000		000	000
Newcastle disease	.../62	.../26	.../66	624,412/82	751,868/82	1,052,030/193	.../...
Peste des petits ruminants		000	000	000		000	000
Rift Valley fever		000	000	000		000	000
Rinderpest	(1955)	(1955)	(1955)	(1955)		(1955)	(1955)
Sheep and goat pox	.../31	.../18	3,733/39	9,920/41	.../53	39,982/102	.../...
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 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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