LIVESTOCK SECTOR BRIEF

KAZAKHSTAN

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/abcdq/about.htmx. 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.

For any feedback and comment, please contact:

Gianluca Franceschini
Livestock Information, Sector Analysis and Policy Branch
Animal Production and Health Division
Food and Agricultural Organisation
Viale delle Terme di Caracalla
00100 Rome, Italy

Tel: 00 39 06 57054463
Fax: 00 39 06 57055749
Email: Gianluca.Franceschini@fao.org

1. GENERAL INFORMATION

Human population, land and socio-economics

Human population	15.5	million
Population density on total land	5.7	persons/sqkm
Annual growth rate (1990-2000)	-0.9	%
Population in agriculture	2.9	million
As proportion of total population	18.8	%
Total land area	2,699,700	sqkm
Agricultural land	2,067,690	sqkm
As proportion of total land	76.6	%
Land under pasture	1,850,980	sqkm
As proportion of agricultural land	89.5	%
Irrigated area	23,500	ha
Agricultural land per 100 people	1,336.70	ha
Agricultural land per 100 people in agriculture	7,110.40	ha
Agricultural population on agricultural land	1.4	persons/sqkm
GDP[1]	28,707	million US$
GDP annual growth rate (1990-2000)	0.3	%
GDP per capita/year[1]	1,930	US$
GDP per capita annual growth rate (1990-2000)	1.3	%
Agriculture, GDP	2,736	million US$
As proportion of total GDP	9.5	%
Livestock, GDP[1]	1,275	million US$
As proportion of agricultural GDP	46.6	%
Human development Rank	78	Ranking[2]
Human development index	0.766	
Poverty incidence [3]		
Total	34.6	%
Urban	30.0	%
Rural	39.0	%

[1]Constant 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			15,640	15,469		
Rural			6,906	6,931		
Urban			8,733	8,537		

Blanks represent no data

Source: FAO (2005a)

Trends in agricultural[1] land

Values expressed in sqkm

Land type	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Total			2,067,690	2,067,690		
Cropped[2]			216,710	216,710		
Pastures			1,850,980	1,850,980		

Blanks represent no data

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

[2]Arable and permanent crops

Source: FAO (2005a)

2. LIVESTOCK RESOURCES

Livestock populations

Values expressed in 1,000

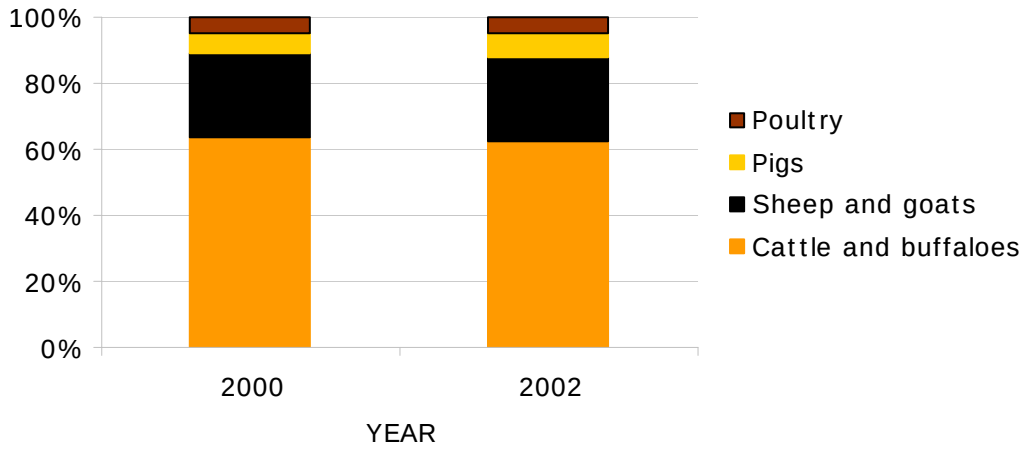
Species	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Cattle and buffaloes			4,007	4,302		
Sheep and goats			9,657	10,479		
Pigs			984	1,124		
Poultry			18,022	21,130		
Total LUs			3,797	4,123		

Blanks represent no data

LU: *Livestock unit*; **conversion factors:** cattle (0.60), buffalo (0.70), sheep and goats (0.10), pigs (0.25) and poultry (0.01)

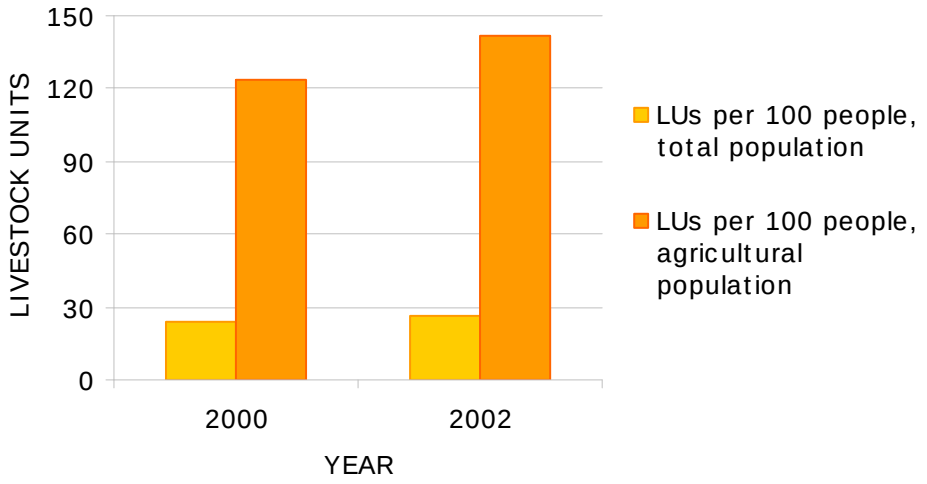
Source: FAO (2005a)

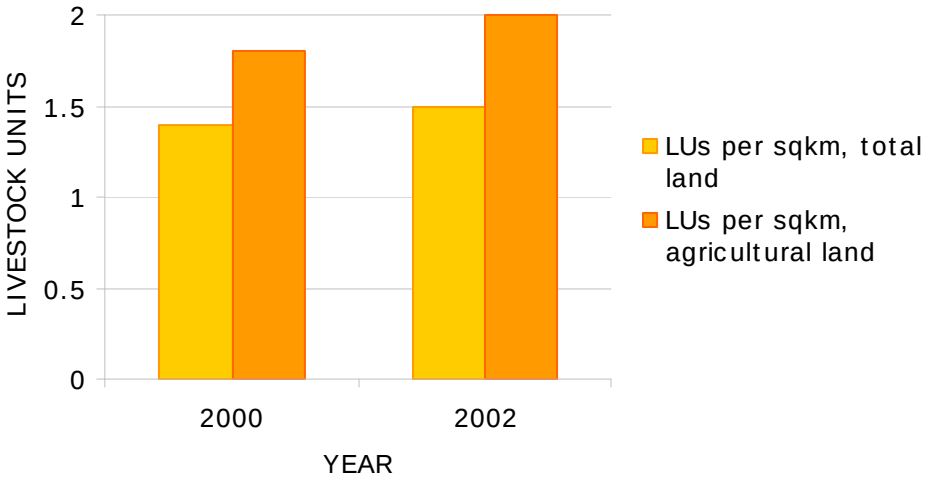
Contribution of different species to total livestock units



Source: FAO (2005a)

Selected indicators of livestock resources



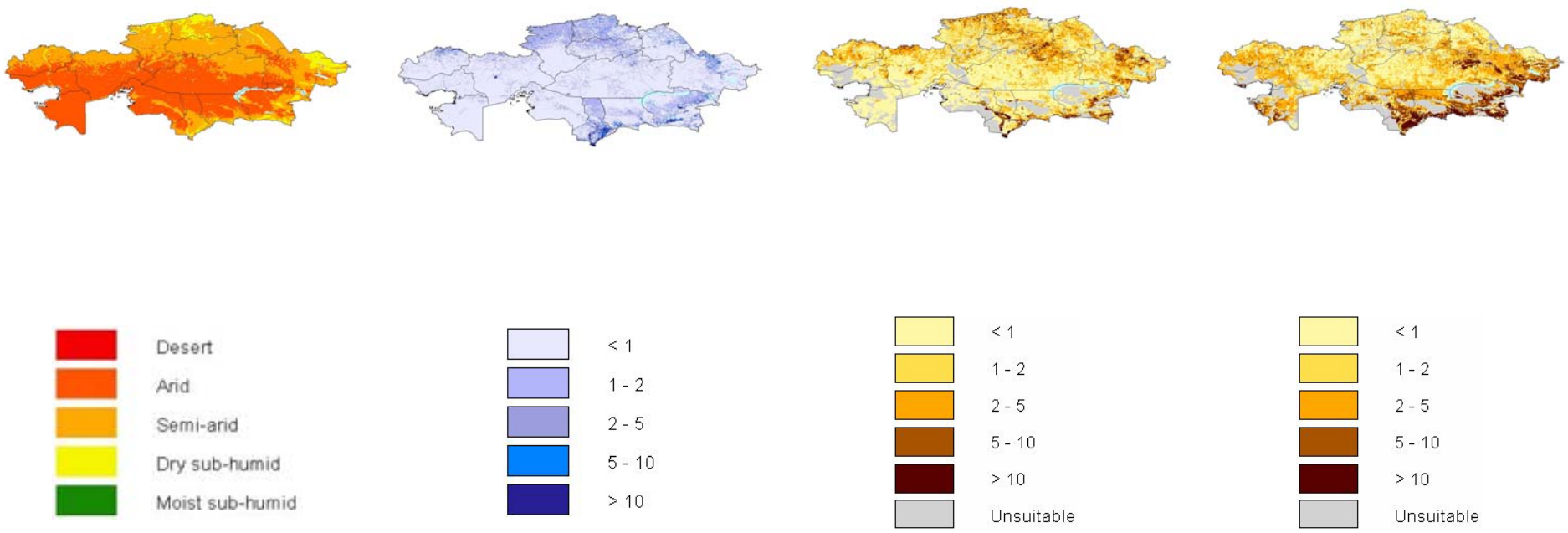


Source: FAO (2005a)

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

Density calculated on total land area[1]

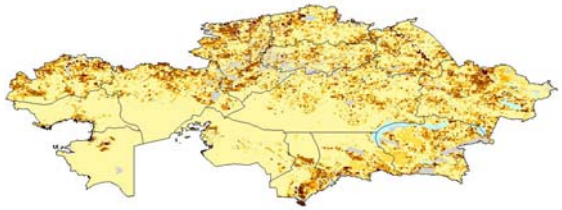
Agro-ecological zones	People / sqkm	Cattle / sqkm	Sheep / sqkm

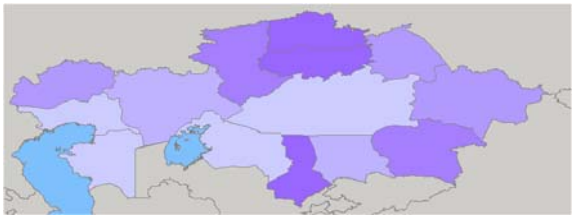


[1]Densities for livestock populations and production is based on total land suitable for livestock production

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

Pigs / sqkm	Poultry / sqkm	Milk offtake / sqkm





< 1
1 - 2
2 - 3
3 - 4
> 4
Unsuitable

< 5
5 - 10
10 - 20
20 - 50
> 50
Unsuitable

2,900.0 more
2,200.0 2,900.0
1,300.0 2,200.0
400.0 1,300.0
less 400.0
not available

Source: FAO (2005b)

3. LIVESTOCK PRODUCTION

Trends in annual production of meat, milk and eggs

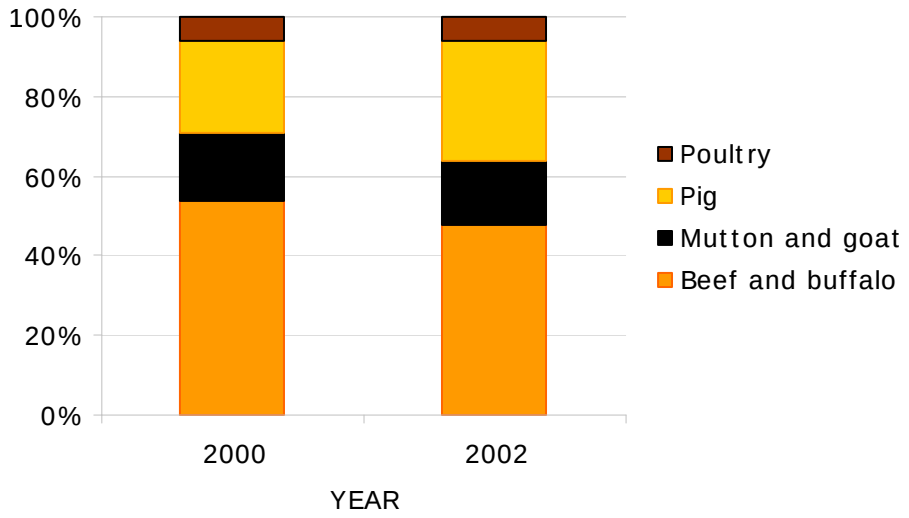
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total			622.6	672.6		
Beef and buffalo			306.3	297.1		
Mutton and goat			95.1	101.1		
Pig			133.4	186.9		
Poultry			33.3	36.1		
Milk, total			3,730.20	4,109.80		
Eggs, total			94.8	117.9		

Blanks represent no data

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			167.3	156.2			45.8	44.3
Buffaloes								
Sheep			18.5	18.1			56.5	56.3
Goat			14	14.5			29.9	39.3
Pigs			63	71.5			215.3	232.5
Poultry			1.2	1.3			160.2	129.1

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			1,969	2,044			46.8	46.3
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			9.5	10.5			55.1	52.9

Blanks represent no data

Source: FAO (2005a)

Estimated feed used for livestock production

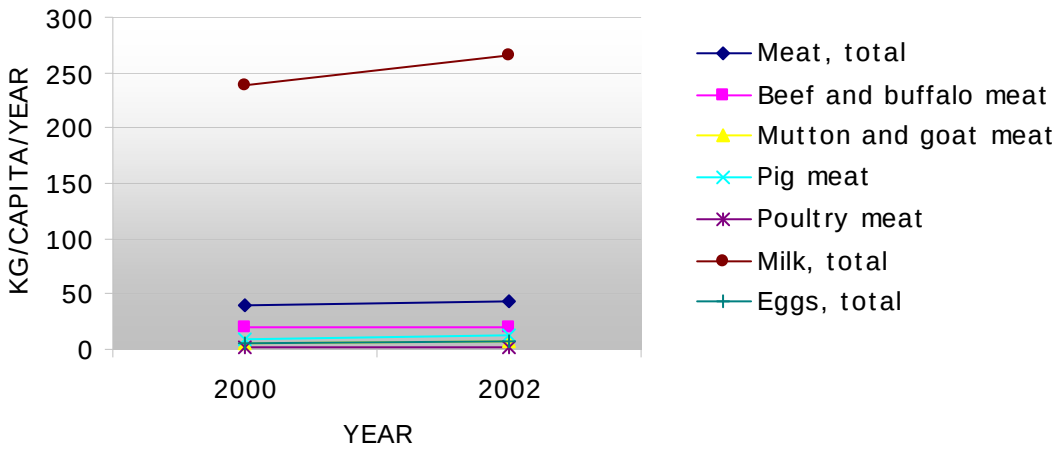
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Maize			120.0	110.0		
Barley			1,200.0	1,374.0		
Sorghum			0.1	0.3		
Millet			48.0	26.0		
Wheat			1,142.8	1,300.0		
Brans			476.6	577.9		
Rice Paddy, equivalent			1.6	1.5		
Roots and Tuber, dry equivalent			19.5	43.3		
Pulses			21.0	23.2		
Oil crops			35.6	56.1		

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

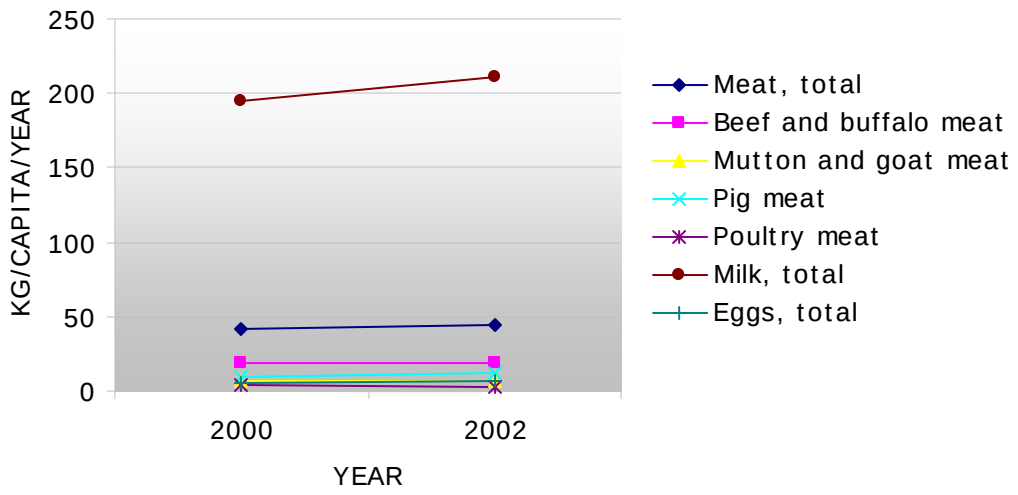
1,000 metric tonnes

Product	Year				Annual growth rate (%)	
	1980	1990	2000	2002	1980-1990	1990-2000
Meat, total			641.9	679.8		
Beef and buffalo			289.9	287.2		
Sheep and goat			95.3	101.6		
Pig			144.5	197.2		
Poultry			53.5	42.8		
Milk, total			3,048.4	3,255.1		
Eggs, total			93.1	111.1		

Blanks represent no data

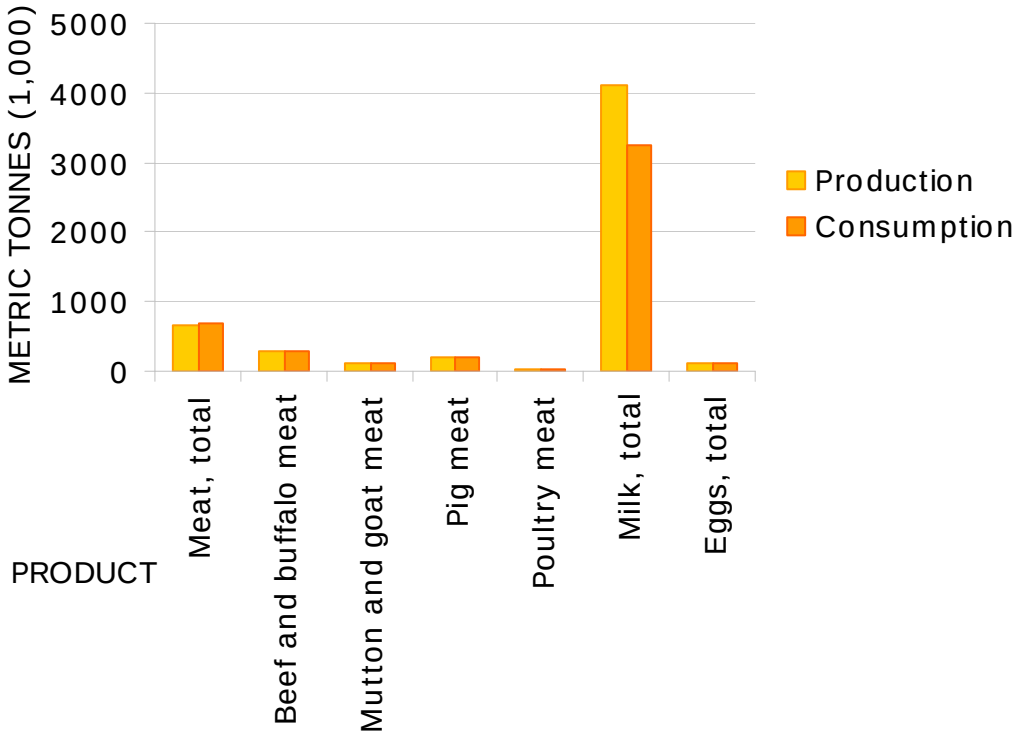
Source: FAO (2005a)

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 livestock[1] products

Values in million US$

Product	Exports				Imports			
	1980	1990	2000	2002	1980	1990	2000	2002
Total			10,420.5	11,623.8			8,852.3	11,403.8
Agricultural			703.7	564.0			445.3	510.4
% agricultural			6.8	4.9			5.0	4.5
Livestock			24.1	18.2			68.1	69.7
% livestock			0.2	0.2			0.8	0.6

Blanks represent no data

[1]Total 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			0.19	0.21			5.03	8.90
Beef and buffalo			0.17	0.23			1.53	1.55
Sheep and goat			0.01	0.05			0.20	0.52
Pig			0.41	0.35			4.89	3.55
Poultry			0.17	0.10			38.04	112.62
Milk, equivalent			0.06	0.18			5.26	4.58
Eggs, total			0.07	0.09			6.88	3.07

Blanks represent no data

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			4.85	8.69
Beef and buffalo			0.00	0.00			1.35	1.31
Sheep and goat			0.00	0.00			0.19	0.47
Pig			0.00	0.00			4.51	3.22
Poultry			0.00	0.00			37.93	112.54
Milk, equivalent			0.00	0.00			5.19	4.35
Eggs, total			0.00	0.00			6.81	2.98

Blanks represent no data

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							75	234	-159	5	737	-732
Sheep and goats							1,000	1,265	-265	156	550	-394
Pigs							100	1,115	-1,015	78	394	-316
Poultry (1,000)							0	343	-343	55	529	-474
Value (1,000 US$)												
Cattle and buffaloes							19	86	-67	1	632	-631
Sheep and goats							31	7	24	3	9	-6
Pigs							3	60	-57	7	55	-48
Poultry (1,000)							0	442	-442	9	990	-981
Total							53	595	-542	20	1,686	-1,666

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							1,162	32,266	-31,104	1,041	60,476	-59,435
Beef and buffalo							509	4,432	-3,923	695	4,456	-3,761
Mutton and goat							10	193	-183	50	531	-481
Pig							553	7,070	-6,517	258	6,997	-6,739
Poultry							54	19,919	-19,865	30	48,058	-48,028
Other							33	137	-104	3	168	-165
Milk, equivalent							2,079	160,421	-158,342	7,193	148,931	-141,738
Eggs, total							63	6,407	-6,344	101	3,407	-3,306
Hides and skins							51,008	91	50,917	23,074	699	22,375
Value (1,000 US$)												
Meat, total							1,265	26,084	-24,819	1,138	32,100	-30,962
Beef and buffalo							658	4,792	-4,134	732	3,276	-2,544
Mutton and goat							12	546	-534	41	415	-374
Pig							508	9,785	-9,277	336	8,103	-7,767
Poultry							64	10,503	-10,439	22	20,000	-19,978
Other							16	162	-146	4	175	-171
Milk, equivalent							304	37,912	-37,608	1,387	34,603	-33,216
Eggs, total							43	3,877	-3,834	74	2,518	-2,444
Hides and skins							22,530	186	22,344	15,223	521	14,702
Total							24,135	67,763	-43,628	17,819	69,611	-51,792

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	(03/1996)	.../...	.../4	328/27	167/2	(2001)	(06/2001)
Lumpy skin disease	-		-		-	-	-
Newcastle disease	-		-		-	-	-
Peste des petits ruminants	-		-		-	-	-
Rift Valley fever	-		-		-	-	-
Rinderpest	-		-		-	-	-
Sheep and goat pox	170/1		-		-	2/1	(01/2002)
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)

7. REFERENCES AND FURTHER READING

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