



NATIONAL STATISTICS OFFICE
OF MONGOLIA

INDICATORS FOR FOOD SECURITY STATISTICS 2018

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ACRONYMS

EEO	Economic entity, organization
UNFAO	Food and Agriculture Organization of the United Nations
GAC	General Administration of Customs
GDP	Gross domestic production
GoM	Government of Mongolia
GASI	Government agency for specialized inspection
HACCPs	Hazard analysis and critical control points system
HSES	Household Socio - Economic Survey
MASM	Mongolian agency for standardization and metrology
MoFALI	Ministry of Food, Agriculture and Light Industry
MoH	Ministry of Health
NSO	National statistics office
NSC	National Security Council
NBEA	National bureau of economic analysis

FOREWORD

National Security Concept, the Food Law and the Food Safety Law of Mongolia instituted new legal environment along with providing security of food and understandings of food safety are reflected conspicuously within the concept and the laws.

According to the updated guideline approved by the NSO chairman decree No. A/12 of 2015, the establishment of integrated statistical system and assessment of national food security with greater accuracy will be expected to provide statistical data crucial for designing and planning of government policies and interventions in public health, food and agriculture sectors, effectively.

The authors of this publication sincerely hope that this guideline will be major source of inspiration and information in the future, for designing and planning government interventions, including assessment of food security, availability, accessibility, consumption and sustainability in Mongolia.

Indicators for food security and supply in this guideline are grouped into four areas: food availability; food accessibility; dietary energy and nutrients and food safety.

ONE. STATISTICAL INDICATORS FOR FOOD AVAILABILITY

The indicators for food supply are measured by the comparison of the national annual food reserve and annual food consumption for standard population

16 commodity foods, listed by Nutrition Research Center of MoH, are used for the estimation of the food supply statistics. The list includes: meat and meat products, milk and dairy products, flour and flour products, all types of grains, sugar and sweeteners, potatoes, vegetables, pulses, fruits and berries, eggs and vegetable oil.

1. Standard population

By the end of 2018, the number of mongolian resident population was at 3186.3 thousand which had been increased by 54.6 thousand people or 1.7% and the standard population was at 2577.2 thousand which had been increased by 36.5 thousand people or 1.4%.

TABLE 1. POPULATION

	2015	2016	2017	2018	Increase	
	thousand people				difference	%
Number of resident population	2 990.2	3 063.6	3 131.8	3 186.3	54.6	101.7
Number of standard population*	2 418.5	2 488.3	2 540.7	2 577.2	36.5	101.4

* estimation by NSO

Note: Conversion multipliers for standard person was revised by Minister of Health approved on 23th of February 2017 Annex 1 of decree No. A/74

2. Annual food demand for standard population. Based on national food demand of 16 food groups in 2018, the national demand for food estimated at 178.7 thousand tonnes of meat and meat products, 150.5 thousand tonnes of milk, 169.3 thousand tonnes of dairy products, 94.1 thousand tonnes of flour, 169.3 thousand tonnes of flour products, 47.0 thousand tonnes of rice, 31.0 thousand tonnes of sugar and sweeteners, 112.9 thousand tonnes of potatoes, 244.6 thousand tonnes of vegetables, 37.6 thousand tonnes of pulses, 188.1 thousand tonnes of fruits and berries, 18.8 thousand tonnes of eggs, 21.6 thousand tonnes of vegetable oil and 9.4 thousand tonnes of butter (Table 2).

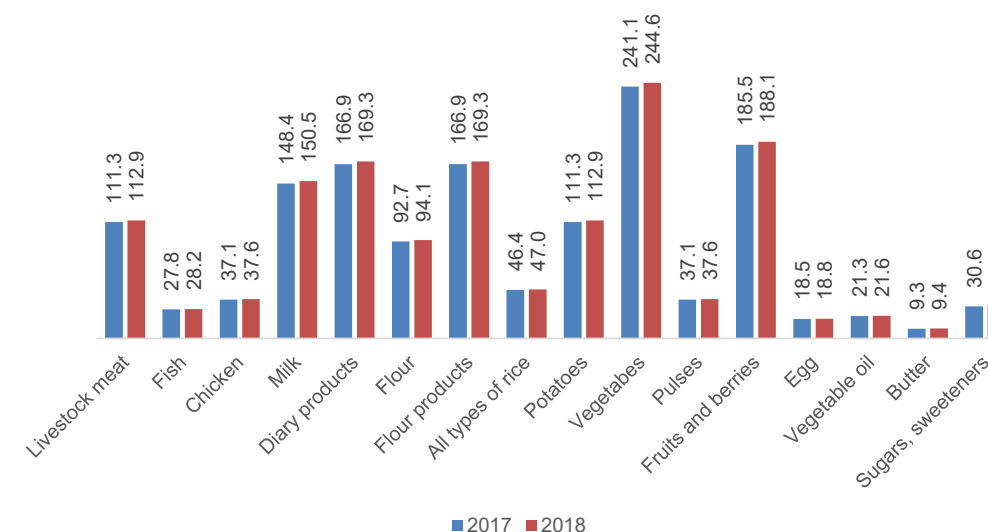
Annual food demand for standard population was increased by 0.1-3.5 thousand tonnes compared to previous year. The biggest increase was recorded in demand for vegetables, meats, fruits, dairy products, flour products by 2.1-3.5 thousand tonnes.

Table 2. ANNUAL FOOD DEMAND FOR STANDARD POPULATION

Food categories	Annual food consumption of standard person* kilogramm	Annual food demand of standard population thousand tonnes			
		2015	2016	2017	2018
Meat and meat products	69.4	171.8	172.6	176.2	178.7
Livestock meat	43.8	108.5	109.0	111.3	112.9
Fish	11.0	27.1	27.2	27.8	28.2
Poultry	14.6	36.2	36.3	37.1	37.6
Milk	58.4	144.6	145.3	148.4	150.5
Dairy products	65.7	162.7	163.5	166.9	169.3
Flour and flour products	102.2	253.1	254.3	259.7	263.4
Flour	36.5	90.4	90.8	92.7	94.1
Flour products	65.7	162.7	163.5	166.9	169.3
All types of grains	18.3	45.2	45.4	46.4	47.0
Potatoes	43.8	108.5	109.0	111.3	112.9
Vegetables	94.9	235.0	236.1	241.1	244.6
Pulses	14.6	36.2	36.3	37.1	37.6
Fruits and berries	73.0	180.8	181.6	185.5	188.1
Eggs	7.3	18.1	18.2	18.5	18.8
Vegetable oil	8.4	20.8	20.9	21.3	21.6
Butter	3.7	9.0	9.1	9.3	9.4
Sugars, sweeteners	12.0	29.8	30.0	30.6	31.0

Source: MoH

Figure 1. Annual food demand for standard population



3. Production. In 2018, total of 812.5 thousand tonnes of milk, 475.4 thousand tonnes of meat and meat products, 239.4 thousand tonnes of flour and flour products, 168.9 thousand tonnes of potatoes, 100.7 thousand tonnes of vegetables, 1.8 thousand tonnes of fruits and berries, 7.6 thousand tonnes of eggs, 0.4 thousand tonnes of vegetable oil and 0.1 thousand tonnes of butter were produced domestically.

Table 3. TOTAL PRODUCTION

Food categories	2017		2018*	
	Total production	Export	Total production	Export
	tonnes			
Meat and meat products	379 760.5	29 320.4	475 399.7	40 852.5
Livestock meat	378 583.7	29 320.4	475 024.4	40 843.2
Fish	138.0	-	25.0	9.3
Poultry	1 038.8	-	350.3	-
Milk	870 186.3	1 360.0	812 517.5	1 980.0
Dairy products	45 697.5	2 256.2	88 893.7	989.5
Flour and flour products	209 143.2	240.3	239 387.5	91.3
Flour	172 870.7	135.8	198 846.0	4.0
Flour products	36 272.5	104.5	40 541.5	87.3
All types of grains	-	-	-	-
Potatoes	121 800.0	619.6	168 882.6	0.0
Vegetables	81 518.6	581.4	100 704.8	26.9
Pulses	0.0	-	71.7	-
Fruits and berries	1 445.2	65.9	1 800.6	91.7
Eggs	4 990.0	-	7 595.7	-
Vegetable oil	2 331.7	16.7	358.5	124.1
Butter	143.6	0.1	142.0	0.4
Sugars, sweeteners	101 286.4	416.7	108 896.4	199.3

Source: NSO, GAC
* Preliminary estimation

4. Consumption. In 2018, total of 810.5 thousand tonnes of milk, 449.3 thousand tonnes of meat and meat products, 263.7 thousand tonnes of flour and flour products, 188.2 thousand tonnes of vegetables, 171.8 thousand tonnes of potatoes were supplied nationally.

Table 4. CONSUMPTION, by physical amount, thousand tonnes

Food categories	Consumption		Domestic production		Net Import	
	2017	2018*	2017	2018*	2017	2018*
Meat and meat products	362.5	449.3	350.4	434.5	12.0	14.7
Livestock meat	350.4	435.4	349.3	434.2	1.1	1.3
Fish	1.7	1.9	0.1	0.0	1.5	1.8
Poultry	10.4	12.0	1.0	0.4	9.4	11.6
Milk	868.9	810.5	868.8	810.5	0.1	-
Dairy Products	88.1	133.6	43.4	87.9	44.6	45.7
Flour, flour products	230.4	263.7	208.9	239.3	21.4	24.4
Flour	174.1	200.2	172.7	198.8	1.3	1.4
Flour products	56.3	63.5	36.2	40.5	20.1	23.1
All types of grains	36.9	47.9	-	-	36.9	47.9
Potatoes	121.6	171.8	121.2	168.9	0.4	2.9
Vegetables	158.2	188.2	80.9	100.7	77.2	87.5
Pulses	0.0	0.1	-	0.1	0.0	0.0
Fruits and berries	42.3	51.4	1.4	1.7	40.9	49.7
Eggs	11.6	15.1	5.0	7.6	6.6	7.5
Vegetable oil	14.8	13.7	2.3	0.2	12.5	13.5
Butter, 72%	0.6	0.5	0.1	0.1	0.4	0.3
Sugars, sweeteners	164.0	186.9	100.9	108.7	63.1	78.2

Source: NSO, GAC

* Preliminary estimation

5. Level of food supply. Sugars, sweeteners, meat and meat products, potatoes, dairy products, all types of grains, eggs, flour, flour products, vegetables, fruits and berries, pulses supply increased by 0.2-66.3 percentage points each compared to previous year, milks, vegetable oils, butter supply declined by 1.0-47.1 percentage points.

Table 5. FOOD SUPPLY LEVEL

Food categories	Annual food demand for standard population		Consumption		Supply level	
	2017	2018	2017	2018	2017	2018
	thousand tonnes				percentage	
Meat and meat products	176.2	178.7	362.5	449.3	205.7	251.4
Livestock meat	111.3	112.9	350.4	435.4	314.9	385.8
Fish	27.8	28.2	1.7	1.9	6.0	6.6
Poultry	37.1	37.6	10.4	12.0	28.1	31.9
Milk	148.4	150.5	868.9	810.5	585.6	538.5
Dairy Products	166.9	169.3	88.1	133.6	52.8	78.9
Flour, flour products	259.7	263.4	230.4	263.7	88.7	100.1
Flour	92.7	94.1	174.1	200.2	187.7	212.8

Food categories	Annual food demand for standard population		Consumption		Supply level	
	2017	2018	2017	2018	2017	2018
	thousand tonnes			percentage		
Flour products	166.9	169.3	56.3	63.5	33.7	37.5
All types of grains	46.4	47.0	36.9	47.9	79.6	101.8
Potatoes	111.3	112.9	121.6	171.8	109.3	152.2
Vegetables	241.1	244.6	158.2	188.2	65.6	76.9
Pulses	37.1	37.6	0.0	0.1	0.0	0.2
Fruits and berries	185.5	188.1	42.3	51.4	22.8	27.3
Eggs	18.5	18.8	11.6	15.1	62.4	80.1
Vegetable oil	21.3	21.6	14.8	13.7	69.4	63.3
Butter, 72%	9.3	9.4	0.6	0.5	6.0	5.0
Sugars, sweeteners	30.6	31.0	164.0	186.9	535.9	602.2

In 2018, the domestic production was enough to satisfy 96.7% of standard population's annual demand for meat and meat products, 98.3% of potatoes, 99.3% of flour and flour products, 53.5% of vegetables demands.

Table 6. FOOD SUPPLY LEVEL, by sources, 2018

Food categories	Consumption	Supply			
		Domestic production	Import	Domestic production	Import
	thousand tonnes			percentage	
Meat and meat products	449.3	434.5	14.7	96.7	3.3
Livestock meat	435.4	434.2	1.3	99.7	0.3
Fish	1.9	0.0	1.8	0.8	99.2
Poultry	12.0	0.4	11.6	2.9	97.1
Milk	810.5	810.5	-	100.0	-
Dairy Products	133.6	87.9	45.7	65.8	34.2
Flour and flour products	263.7	239.3	24.4	90.7	9.3
Flour	200.2	198.8	1.4	99.3	0.7
Flour products	63.5	40.5	23.1	63.7	36.3
All types of grains	47.9	-	47.9	-	100.0
Potatoes	171.8	168.9	2.9	98.3	1.7
Vegetables	188.2	100.7	87.5	53.5	46.5
Pulses	0.1	0.1	0.0	93.5	6.5
Fruits and berries	51.4	1.7	49.7	3.3	96.7
Eggs	15.1	7.6	7.5	50.4	49.6
Vegetable oil	13.7	0.2	13.5	1.7	98.3
Butter, 72%	0.5	0.1	0.3	30.2	69.8
Sugars, sweeteners	186.9	108.7	78.2	58.1	41.9

TWO. STATISTICAL INDICATORS FOR FOOD ACCESSIBILITY

Household food supply was estimated by food accessibility at household level. Household food accessibility was measured at urban and rural levels in cold and warm seasons.

1. Actual food intake for standard person

The results from socio-economic survey of households showed that the actual consumption of meat and meat products, milk and dairy products, flour, rice, vegetable oil at rural level in warm seasons was higher than the national average, while urban consumption of flour products, sugar and sweeteners, potatoes, vegetables, fruits, eggs and butter was above national average.

Table 7. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS, 2018

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	315.0	268.2	405.5
Livestock meat	309.9	261.0	404.4
Fish	0.6	0.6	0.4
Poultry	4.5	6.5	0.7
Milk	173.4	141.1	235.9
Dairy Products	199.6	118.9	355.4
Flour	182.6	123.7	296.3
Flour products	178.5	213.9	110.0
All types of grains	64.0	62.6	66.6
Potatoes	92.1	97.6	81.4
Vegetables	75.9	86.9	54.7
Pulses	0.2	0.3	0.0
Fruits and berries	31.4	35.3	23.9
Eggs	11.1	15.5	2.5
Vegetable oil	17.3	13.5	24.6
Butter, 72%	7.3	9.3	3.3
Sugars, sweeteners	66.0	67.9	62.4

Source: Household Socio-Economic Survey, NSO

The results from households socio-economic survey showed that the actual consumption of milk and dairy products, flour, meat and meat products, vegetable oil and rice at rural level in cold seasons, was higher than the national average, while urban consumption of flour products, vegetables, potatoes, fruits and berries, eggs, sugars and sweetener and butter, was above national average during said period.

Figure 2. National average consumption of main food products, grams, 2018

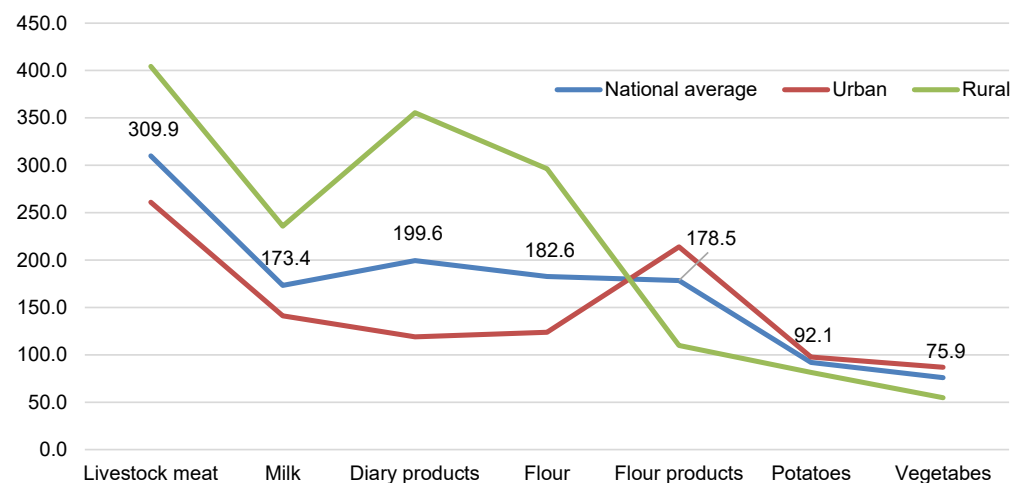


Table 8. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS DURING COLD SEASONS, 2018

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	316.2	272.7	400.1
Livestock meat	311.3	265.7	399.1
Fish	0.5	0.7	0.2
Poultry	4.4	6.2	0.8
Milk	162.5	136.6	212.3
Dairy Products	186.2	116.2	321.2
Flour	182.8	125.2	293.8
Flour products	174.6	209.9	106.6
All types of grains	63.5	62.3	66.0
Potatoes	92.9	98.4	82.2
Vegetables	76.1	86.7	55.7
Pulses	0.2	0.3	0.0
Fruits and berries	32.5	37.9	22.1
Eggs	10.7	15.1	2.4
Vegetable oil	17.3	13.4	24.8
Butter, 72%	7.3	9.4	3.1
Sugars, sweeteners	70.0	71.5	67.0

Source: Household Socio-Economic Survey, NSO

The results from households socio-economic survey showed that the actual consumption of milk and dairy products, flour, meat and meat products, vegetable oil, and rice at rural level in warm seasons, was higher than the national average, while urban consumption of flour products, vegetables, potatoes, eggs, sugars and sweeteners, fruits and berries and butter was above national average during said period.

Table 9. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS DURING WARM SEASONS, 2018

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	313.3	261.7	413.3
Livestock meat	307.9	254.3	411.9
Fish	0.6	0.5	0.8
Poultry	4.8	6.9	0.6
Milk	189.0	147.4	269.6
Dairy Products	218.6	122.8	404.2
Flour	182.2	121.6	299.8
Flour products	184.0	219.6	114.9
All types of grains	64.7	63.2	67.5
Potatoes	91.0	96.5	80.3
Vegetables	75.6	87.1	53.3
Pulses	0.1	0.2	0.0
Fruits and berries	29.8	31.5	26.5
Eggs	11.5	16.0	2.7
Vegetable oil	17.2	13.6	24.3
Butter, 72%	7.2	9.1	3.5
Sugars, sweeteners	60.4	62.7	56.0

Source: Household Socio-Economic Survey, NSO

2. Food accessibility at household level

Household's accessibility to meat and meat products, milk and dairy products, flour, all types of grains, sugars and sweeteners is satisfactory, while accessibility to other foods remain unsatisfactory. The diets of people remain heavily dominated by meat and meat products, milk and flour.

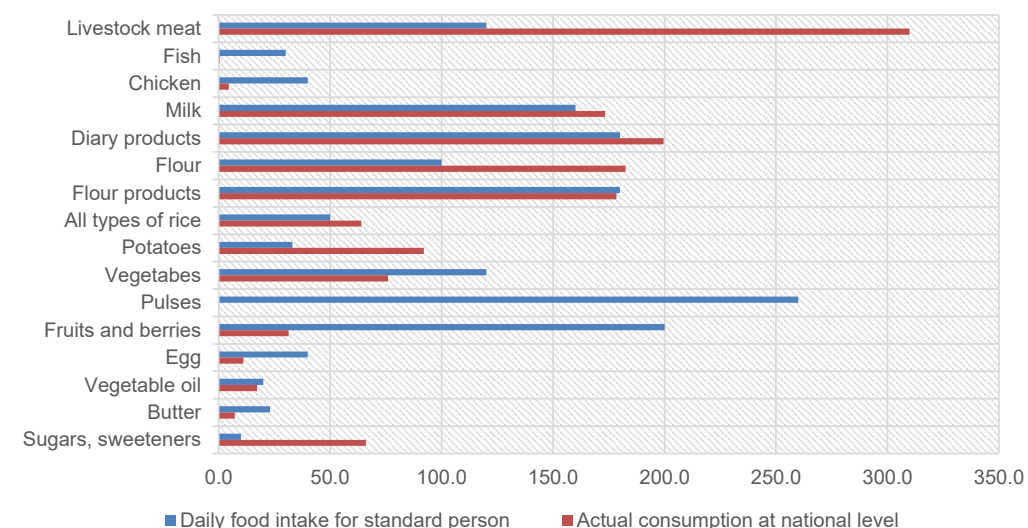
Table 10. FOOD ACCESSIBILITY, 2018

Food categories	Daily food intake for standard person grams	National average			Accessibility		
		National average	warm seasons	cold seasons	National average	warm seasons	cold seasons
Meat and meat products	190.0	315.0	313.3	316.2	165.8	164.9	166.4
Livestock meat	120.0	309.9	307.9	311.3	258.3	256.6	259.4
Fish	30.0	0.6	0.6	0.5	1.9	2.0	1.8
Poultry	40.0	4.5	4.8	4.4	11.3	11.9	10.9
Milk	160.0	173.4	189.0	162.5	108.4	118.1	101.5
Dairy Products	180.0	199.6	218.6	186.2	110.9	121.4	103.5
Flour	100.0	182.6	182.2	182.8	182.6	182.2	182.8
Flour products	180.0	178.5	184.0	174.6	99.2	102.2	97.0
All types of grains	50.0	64.0	64.7	63.5	128.0	129.3	127.1
Potatoes	33.0	92.1	91.0	92.9	279.0	275.6	281.4
Vegetables	120.0	75.9	75.6	76.1	63.3	63.0	63.4
Pulses	260.0	0.2	0.1	0.2	0.1	0.1	0.1
Fruits and berries	200.0	31.4	29.8	32.5	15.7	14.9	16.3
Eggs	40.0	11.1	11.5	10.7	27.6	28.7	26.9
Vegetable oil	20.0	17.3	17.2	17.3	86.4	86.2	86.5
Butter, 72%	23.0	7.3	7.2	7.3	31.5	31.4	31.6
Sugars, sweeteners	10.0	66.0	60.4	70.0	660.1	603.8	699.6

Source: Household Socio-Economic Survey, NSO

Meat and meat products, milk and dairy products, flour are still dominant in the daily food intake for standard person compared to national average, while fruits and berries and vegetables intake are insufficient.

Figure 3. Daily food intake for standard person, actual consumption at national average, grams, 2018



THREE. DIETARY ENERGY AND NUTRIENTS

The daily intake of calories per standard person was estimated in urban and rural areas with seasonal variability. Average national intake was also calculated.

1. In warm seasons

The national average of daily dietary calories intake per standard person in warm seasons was 3067.6 kilocalorie, protein 136.1 grams, fat 69.4 grams, and carbohydrates 476.7 grams, which is 3.5-51.2 percent higher than the recommended daily calories intake value for standard person.

Table 11. DAILY INTAKE OF DIETARY CALORIES PER STANDARD PERSON DURING WARM SEASONS, IN URBAN AND RURAL AREAS, AND NATIONAL AVERAGE

	Recommended calorie intake for standard person	National average		Urban		Rural	
		2017	2018	2017	2018	2017	2018
Calorie, kilocalorie	2 400	3 065.9	3 067.6	2 777.5	2 836.8	3 684.3	3 515.4
Protein, grams	90	136.1	136.1	114.1	116.8	183.6	173.4
Fat, grams	67	70.4	69.4	53.9	54.5	105.4	98.2
Carbohydrates, grams	360	474.1	476.7	459.8	470.3	505.1	489.0

Source: Household Socio-Economic Survey, NSO

The actual daily intake of dietary energy and nutrients for standard person exceeds the reference daily intake of energy and nutrients, as revealed by survey.

However, energy and nutrients intake varies widely from urban centers to rural areas. Intake of dietary calories, protein and fat in warm seasons is low among urban population, while calories, protein, fat and carbohydrates intake among rural population exceed the norms.

2. In cold seasons

The national average of daily dietary calories intake per standard person in cold seasons was 2978.7 kilocalorie, protein 132.5 grams, fat 66.3 grams, carbohydrates 464.9 grams, which is 24.1-47.2 percent higher than the recommended daily energy intake value for standard person.

Table 12. DAILY INTAKE OF DIETARY CALORIES PER STANDARD PERSON DURING COLD SEASONS, IN URBAN AND RURAL AREAS, AND NATIONAL AVERAGE

	Recommended calorie intake for standard person	National average		Urban		Rural	
		2017	2018	2017	2018	2017	2018
Calorie, kilocalorie	2 400	3 098.6	2 978.7	2 978.0	2 813.9	3 346.8	3 296.2
Protein, grams	90	136.1	132.5	123.3	117.2	162.4	161.9
Fat, grams	67	70.1	66.3	60.1	54.7	90.2	88.6
Carbohydrates, grams	360	452.7	464.9	448.0	463.9	462.5	466.8

Source: Household Socio-Economic Survey, NSO

Intake of dietary calories, protein, fat and carbohydrates in cold seasons exceeds among rural population, while fat intake among urban population is lower than the norms.

FOUR. INDICATORS FOR FOOD SAFETY STATISTICS

1. The level of food contamination, inspected by the accredited food testing laboratories

In all inspection laboratories of General Agency for Specialized Inspection in 2018, 98828 samples were tested by 282754 criteria of chemical toxicity, hygiene, bacteriology and quarantine, of which, 4547 samples were not met MNS requirement and the level of pollution was 4.6%.

2. Confiscated, returned, removed from shelf and disposed off foods from domestic production, during the inspection

Confiscated, returned, removed from shelf and disposed off foods during inspection by GASI are shown in Table below.

Table 13. DOMESTIC FOOD PRODUCTS THAT WERE CONFISCATED, RETURNED, REMOVED AND DISPOSED

Description	Meas.unit	2016	2017	2018
Confiscated foods	kilograms	654.9	5 572.5	425.3
	liter	544.5	1 574.0	489.8
	piece	82 670	42 010	20 082
Returned foods	kilograms	313.5	781.7	1443.4
	liter	115.0	214.0	440.3
	piece	5 391	12 573	3 659
Foods removed from shelf	kilograms	238.3	611.7	3 013
	liter	6.4	64.0	84.0
	piece	12 869	6 030	36 151
Disposed off foods	kilograms	2 229.7	8 396.6	12 989.4
	liter	648.5	1 546.1	523.3
	piece	82 530	39 552	67 755

Source: GASl

3. Number of EEOs and individuals whose activities were inspected, suspended, and restored

In total, 6188 EEOs, 4744 individuals were inspected by GASl, and business activities of 51 EEOs and 32 individuals were suspended who have been found guilty of violating the laws, standards and norms. The business activities of 19 EEOs and 29 individuals were restored.

Table 14. NUMBER OF EEOs AND INDIVIDUALS WHOSE ACTIVITIES WERE INSPECTED, SUSPENDED AND RESTORED

Description	2016		2017		2018	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	4 785	3 072	5 290	4 850	6 188	4 744
Activities suspended	119	44	81	49	51	32
Activities restored	58	30	45	19	19	29

Source: GASl

Number of violations revealed and corrected during inspection

Total of 30.6 thousand cases of violation were identified during GASl inspection, of which 21.8 thousand violations or 71.1% were eradicated.

Table 15. NUMBER OF VIOLATIONS REPORTED AND ERADICATED

Description of violations	Number of violation reported	Number of violation eradicated
Total	30 646	21 780
Violations of norms and standards for building and facilities	2 932	1 613
Violations of norms and standards for workplace, equipment and machinery operation	2 710	1 643
Violations of technological norms and standards	2 906	2 082
Violations of norms and standards for hygiene and sanitary	2 955	2 093
Violations of norms and standards for raw material preparation, quality and safety of final food products	4 949	4 010
Violations of norms and standards for storage and transportation	4 391	2 554
Violations of norms and standards for packaging and labeling	3 676	3 031
Violations of rules and norms for internal control	6 127	4 754

Source: GASl

Violations of internal control 20.0%, norms and standards for raw material and quality and safety of final products 16.1%, storage and transportation 14.3%, norms for packaging and labeling 12.0%, hygiene and sanitary 9.6%, norms and standards for building and facilities 9.6%, norms and standards for workplace, equipment and machinery operation 8.8% of total violations reported. Violation eradication rate was 55.0-82.5%.

4. Number of accredited food testing laboratories:

As of 2018, there were 95 units of accredited food testing laboratories which are operational.

5. National, regional, foreign country's standards and technical regulations in Mongolia.

In Mongolia, following technical regulations are effective in food sector, as of 2018.

1. Technical regulation for production of alcoholic beverages adopted by Mongolian government resolution No. 159, dated April 30, 2008.

2. Technical regulation for production and sales of milk and dairy products adopted by Mongolian government resolution No. 304, dated October 26, 2011.
3. Technical regulation for production and sales of cakes adopted by Mongolian government resolution No. 305, dated October 26, 2011.
4. Technical regulation for import of alcoholic beverages adopted by Ministry of industry of resolution No. 64, dated April 12, 2016.

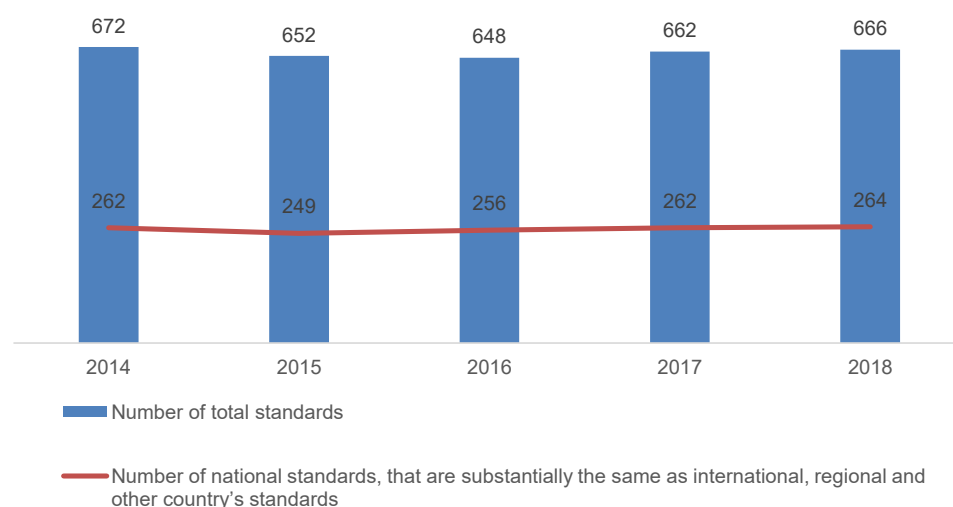
Table 16. NUMBER OF FOOD RELATED NATIONAL STANDARDS

Description	2014	2015	2016	2017	2018
Number of total standards	672	652	648	662	666
Number of national standards, that are substantially the same as international, regional and other country's standards	262	249	256	262	264
Equivalent standards	410	403	392	400	402

Source: Agency for Standardization and metrology

There are 666 national standards effective in Mongolia, of which 264 or 39.6% are substantially the same as international, regional and other country's standards, while 402 or 60.4% are equivalent standards.

Figure 4. Food related national standards which are substantially the same as international, regional and other country's standards



6. Number of EEOs and food products holding Certificate of conformity

There are 115 EEOs in food sector, that hold Certificate of conformity, which is 38 EEOs less or 24.8% lower than in 2017.

Table 17. NUMBER OF EEO AND FOOD PRODUCTS TYPES THAT HOLD CERTIFICATE OF CONFORMITY

Description	2015		2016		2017		2018	
	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products
Total	302	215	165	755	153	668	115	458
Certificate of conformity for import products	86	36	115	335	97	301	55	85
Certificate of conformity for products from domestic production	207	165	42	400	49	319	53	325
"MNS mark" certificate	9	14	8	20	7	48	7	48

Source: MASM

There are 458 products that hold certificate of conformity, of which 18.6% hold certificate of conformity for imports, 71.0% hold certificate of conformity for domestic products, and 10.5% holds MNS mark.

7. Number of factories introduced international quality control system

There are 16 EEOs that hold MNS ISO 9001:2010 certificate for quality management standard, by the decision of internationally recognized certification body.

8. Number of factories that introduced good manufacturing practices and hazards analysis and critical control points system

There are totally 11 EEOs, who became certified to GMP /5 EEOs/ and HACCPs /6 EEOs/ by designated authority, in Mongolia.

Table 18. NUMBER OF FACTORIES THAT INTRODUCED GOOD MANUFACTURING PRACTICES, HAZARD ANALYSIS AND CRITICAL CONTROL POINT SYSTEM

Description	2015	2016	2017	2018
Total number of factories	4	5	7	11
Factories that introduced food safety management system ISO22000 standard	3	3	3	5
EEOs that introduced HACCPs	1	2	4	6
Introduced good manufacturing practices	-	-	-	-

Source: Agency for Standardization and metrology

9. Number of factories producing fortified foods, by production types

There are 8 factories that fortify and pack 788.3 tonnes of salt with iodine, annually.

10. Number of population having secure access to safe drinking water

There are 1922.2 thousand people or 72.6% of Mongolian population have secure access to safe drinking water, as shown by the results of population and housing census 2010.

11. Alcohols and alcoholic beverages producing factories

There are 8 alcohol producing factories, 35 vodka producing, 8 wine producing and 17 beer producing factories in Mongolia. As instructed in No.15 meeting protocol of Government of Mongolia of 2018, licenses of 12 enterprises to produce alcoholic drink have suspended by No.132 Order of State Secretary of Ministry of Food, Agriculture and Light Industry of 2018 and 11 special licenses were suspended in 2017.

12. Amount of alcohols and alcoholic beverages per capita

Amount of vodka, wine and beer per capita is 9.6 liter, 1.0 liter and 31.1 liter, respectively, as of 2018.

Table 19. AMOUNT OF ALCOHOLIC BEVERAGES PER CAPITA

	2014	2015	2016	2017	2018
	liters				
Vodka	8.3	7.1	8.1	8.3	9.6
Wine	0.9	0.7	0.7	0.9	1.0
Beer	29.8	29.7	30.2	28.4	31.1

Source: NSO

Amount of vodka, wine and beer per adult person aged 15 and above is 13.9 liter, 1.5 liter, 44.9 liter respectively, as of 2018.

Table 20. AMOUNT OF ALCOHOLIC BEVERAGES PER ADULT AGED 15 AND ABOVE

	2014	2015	2016	2017	2018
	liters				
Vodka	11.9	10.1	11.4	11.7	13.9
Wine	1.2	1.1	0.9	1.2	1.5
Beer	42.4	42.1	42.3	40.2	44.9

Source: NSO

13. Number of foodborne disease outbreak, number of affected, hospitalized and dead people

Foodborne disease outbreak means an incident in which more than two persons experience same illness resulting from ingestion of common food. In 2018, 20 incidents of foodborne disease outbreaks were reported affecting 624 people in total, of which 263 persons or 42.1% of affected people were hospitalized. No case of mortality was reported.

Table 21. NUMBER OF FOODBORNE DISEASE OUTBREAKS, AFFECTED, HOSPITALIZED AND DEAD PEOPLE

Description	2014	2015	2016	2017	2018
Outbreak of foodborne illness	11	6	12	5	20
Number of affected people	548	311	382	118	624
Number of patients hospitalized	244	33	127	98	263
Mortality case	-	-	-	-	-

Source: Ministry of Health

Food poisoning from chemicals is not included in number of people affected from outbreak and infected by foodborne diseases.

Figure 5. Number of people affected foodborne disease outbreaks

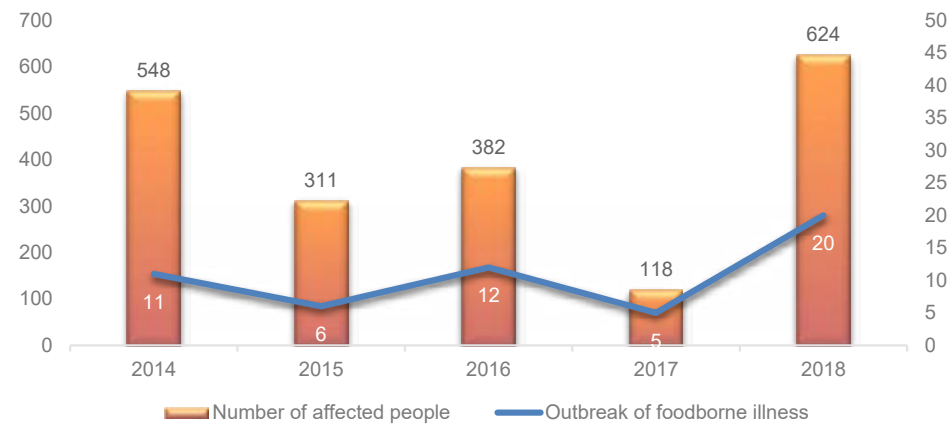


Table 22. MORBIDITY CASES RELATED TO BACTERIAL FOOD POISONING

Description	2014	2015	2016	2017	2018
Number of people affected	548	482	430	133	554
Urban	235	375	386	89	328
Rural	313	107	44	44	226

Source: Ministry of Health

ANNEXES

Annex 1

Table 1. Conversion multipliers for standard person, 2018

Age group	Gender	Line number	Conversion multipliers
A	B	C	1
Up to 1 year	M	1	0.34
	F	2	0.31
1-3 years	M	3	0.44
	F	4	0.41
4-6 years	M	5	0.61
	F	6	0.55
7-10 years	M	7	0.76
	F	8	0.69
11-14 years	M	9	1.04
	F	10	0.90
15-18 years	M	11	1.13
	F	12	0.95
19-29 years	M	13	1.00
	F	14	0.83
30-59 years	M	15	0.99
	F	16	0.77
60 and above	M	17	0.80
	F	18	0.70

Table 2. Reference daily, annual intake of foods for standard person, in physical value

Types of food	Line number	Daily intake of food for standard person, kg	Annual intake of food for standard person, kg
A	B	1	2
Meats of livestock	1	0.120	43.8
Fish	2	0.030	11.0
Poultry	3	0.040	14.6
Milk	4	0.160	58.4
Dairy products	5	0.180	65.7
Flour	6	0.100	36.5
Flour products	7	0.180	65.7
All types of grains	8	0.050	18.3
Sugar and sweeteners	9	0.033	12.0
Potatoes	10	0.120	43.8
Vegetables	11	0.260	94.9
Fruits and berries	12	0.200	73.0
Pulses	13	0.040	14.6
Eggs	14	0.020	7.3
Vegetable oil	15	0.023	8.4
Butter	16	0.010	3.7

By Minister of Health
approved on 23th of February 2017
Annex 1 of decree No. A/74

Table 3. Reference intake of energy for standard person

	A	B	Daily intake of calories for standard person, kcal*	Nutrients (gr)						
				Protein	Origin:		Fat	Origin:		Carbohydrates
					Animal	Plant		Animal	Plant	
Meat	1	180	2	3	4	5	6	7	8	
Fish	2	60	19	5		12	12			
Poultry	3	63	8	8		3	4			
Milk	2	95	5	5		5	3		8	
Dairy products	3	102	5	5		6	5		7	
Flour	4	357	13		13	1	1	1	74	
Flour products	5	575	14		14	2	2	2	125	
All types of grains	6	140	4		4	0	0	0	31	
Potatoes	7	108	2		2	0	0	0	24	
Vegetables	8	85	3		3	0	0	0	18	
Pulses	9	119	8		8	1	1	1	20	
Fruits	10	82	1		1	0	0	0	20	
Eggs	11	32	3	3	0	2	2	2	0	
Vegetable oil	12	207				23		23		
Butter	13	66				7	7			
Sugars	14	128				0			33	
Total		2400	90	45	45	67	37	30	360	

RATIO OF UNIT PRODUCT INTO MAIN FOOD PRODUCT

Table 4. Ratio of carcass meat to meat and meat products

No	Types of meat Ratio	Conversion multiplier
1.1	Livestock meat	1.0
1.2	Pork, poultry and fish	1.0
1.3	Wildlife meat	1.0
1.4	Boiled sausage	1.1
1.5	Boiled and smoked sausage	1.4
1.6	Raw smoked sausage	2.6
1.7	Offal	1.4
1.8	Canned meat	1.3
1.9	Dried meat	5.7
1.10	Canned fish	1.57

Table 5. Ratio of liquid milk to milk and dairy products

No	Types of dairy products	Conversion multiplier
2.1. Industrially processed milk and dairy products		
2.1.1.	Drinking milk	1.0
2.1.2	Powdered milk (fat 25%)	8.6
2.1.3	Condensed milk	2.7
2.1.4	Clabber products*(clabber, kephyr, yogurt, etc)	1.0
2.1.5	Curds (fat 9%)	6.7
2.1.6	Milk cream and sour cream (fat 25%)	7.8
2.1.7	Cheese	8.8
2.1.8	Butter (fat 72%)	22.5
2.1.9	Dried curds	10.0
2.2. Traditionally processed milk and dairy products		
2.2.1	Fermented products (clabber, koumiss, camel milk)	1.0
2.2.2	Clarified butter	25.0
2.2.3	Clotted milk	16.7
2.2.4	Curds cheese	13.0

Note:* -fat content in raw and processed products is 1:1.

Table 6. Ratio of flour to flour products

No	Types of flour products	Conversion multiplier
3.1	Wheat flour	1.0
3.2	Rye flour	1.0
3.3	Flour of other grains	1.0
3.4	All types of breads	0.74
3.5	Boiled flour products	0.65
3.6	Steam boiled flour products	0.60
3.7	Biscuits	0.60
3.8	Wafer	0.25
3.9	Cakes	0.15
3.10	Pastas	1.0

Table 7. Ratio of unit product to all types of grains

No	Types of rice	Conversion multiplier
4.1	Rice	1.0
4.2	Buckwheat	1.0
4.3	Millet	1.0
4.4	Other types of rice	1.0

Table 8. Ratio of sugar to sugar products and sweeteners

No	Types of products	Conversion multiplier
5.1	Refined sugar	1.0
5.2	Cube sugar	1.0
5.3	Candy	0.96
5.4	Chocolate, sweets, zephyr	0.46
5.5	Fruit jam, syrup	0.46
5.6	Carbonated, non-carbonated soda drinks	0.47

Table 9. Ratio of fresh potato to potato and potato products

No	Types of products	Conversion multiplier
6.1	Fresh potato	1.0
6.2	French fries	2.0
6.3	Chips	4.0
6.4	Instant mashed potato (reconstitutable by adding water)	8.5
6.5	Starch and glass noodle	10.0

Table 10. Ratio of fresh vegetable to vegetables

No	Types of products	Conversion multiplier
7.1	Root and tubers (carrot, winter radish, radish, beetroot, turnip, mustard, parsnip, leek root, root mustard)	1.0
7.2	Bulb vegetables (onion, chlot, spring onion, salad onion, garlic, etc)	1.0
7.3	Seed bearing vegetables (tomato, eggplant, capsicum, cucumber, pumpkin, sweet melon, watermelon)	1.0
7.4	Leafy greens (lettuce, Chinese cabbage, spinach, salad greens, chives, celery, etc)	1.0
7.5	Flowering plants (cauliflower, broccoli, artichoke, etc)	1.0
7.6	Leaf vegetables (cabbage, salads, broccoli, round salads)	1.0
7.7	Herbs and spices (dill, coriander, celery, leek)	1.0
7.8	Pickled vegetables	1.3
7.9	Deep-frozen vegetables	1.3
7.10	Dried vegetables, mushroom	9.0
7.11	Ketchup	2.48
7.12	Tomato juice	1.64
7.13	Mushroom	1.0
7.14	Pickled mushroom	1.25

Table 11. Ratio of fresh fruit to fruits

No	Types of products	Conversion multiplier
8.1	Seed bearing fruits (apple, pear, hawthorn, ashberry, serviceberry fruit, banana, chaenomeles fruit, Caucasian persimmon, etc)	1.0
8.2	Stone fruits (cherry, prunus fruit, peach, apricot, plum, poppy, etc)	1.0
8.3	Natural (wild) and cultivated berries (sea buckthorn, strawberry, black currant, etc)	1.0
8.4	Citrus (orange, mandarin, lemon etc)	1.0
8.5	Other fruits	1.0
8.6	Dried fruits and berries	3.23-5.0
8.7	Pickled fruits and berries	0.85
8.8	Fruit juice and nectar	0.7
8.9	Compote	0.68

Table 12. Ratio of unit product to pulses

No	Types of products	Conversion multiplier
9.1	Peas, bean, soybean	1.0
9.2	Tofu	0.6
9.3	Pickled beans and peas	1.3

Table 13. Ratio of fresh egg to egg and egg products

No	Types of products	Conversion multiplier
10.1	Fresh chicken egg	1.0
10.2	Eggs of other fowls	1.0
10.3	Dry eggs	24.84

Table 14. Ratio of unit product to vegetable oil

No	Types of products	Conversion multiplier
11.1	Vegetable oil	1.0
11.2	Butter	1.0
11.3	Grease fat	1.0
11.4	Margarine	0.8
11.5	Clarified butter	1.2

STATISTICAL INDICATORS FOR FOOD SECURITY

Table 1. Resident population

Age group	Gender	2007	2008	2009	2010	2011	2012
Total		2 555 209	2 588 214	2 623 483	2 653 828	2 704 526	2 760 605
Up to 1 year	Total	51 669	57 661	62 507	53 759	62 504	64 347
	M	26 216	29 393	31 637	27 219	32 040	32 541
	F	25 453	28 268	30 870	26 540	30 464	31 806
1-3 years	Total	130 824	139 748	148 644	166 562	170 470	178 007
	M	66 172	70 953	76 009	84 396	86 516	90 312
	F	64 652	68 795	72 635	82 166	83 954	87 695
4-6 years	Total	138 613	133 494	129 498	130 942	138 952	156 056
	M	69 789	67 388	65 791	66 220	70 205	78 950
	F	68 824	66 106	63 707	64 722	68 747	77 106
7-10 years	Total	195 778	191 232	186 157	179 909	176 358	176 166
	M	98 942	96 302	94 545	91 098	89 251	89 224
	F	96 836	94 930	91 612	88 811	87 107	86 942
11-14 years	Total	212 204	205 027	196 084	190 865	188 530	188 934
	M	106 794	103 526	99 894	96 426	95 312	95 234
	F	105 410	101 501	96 190	94 439	93 218	93 700
15-18 years	Total	240 965	228 717	216 086	205 959	197 774	196 079
	M	119 651	114 799	108 640	102 995	98 882	98 115
	F	121 314	113 918	107 446	102 964	98 892	97 964
19-29 years	Total	542 138	564 372	589 034	604 059	608 868	603 485
	M	262 790	274 400	286 164	292 701	296 604	295 234
	F	279 348	289 972	302 870	311 358	312 264	308 251
30-59 years	Total	888 022	910 815	939 746	966 667	1 001 666	1 031 950
	M	425 988	436 783	450 250	460 293	477 532	492 777
	F	462 034	474 032	489 496	506 374	524 134	539 173
60 and above	Total	154 996	157 148	155 727	155 106	159 404	165 581
	F	68 526	69 128	68 865	67 108	68 426	71 112
	M	86 470	88 020	86 862	87 998	90 978	94 469

Continuation of Table 1.

Age group	Gender	2013	2014	2015	2016	2017	2018
Total		2 823 137	2 937 927	2 990 242	3 063 568	3 131 750	3 186 347
Up to 1 year	Total	69 757	73 263	79 447	68 579	68 140	76 421
	M	35 448	37 591	40 670	35 263	35 096	39 233
	F	34 309	35 672	38 777	33 316	33 044	37 188
1-3 years	Total	181 438	205 676	235 421	236 941	233 615	231 450
	M	92 485	104 767	120 442	121 279	119 403	118 955
	F	88 953	100 909	114 979	115 662	114 212	112 495
4-6 years	Total	175 149	184 188	202 631	206 094	221 571	234 984
	M	88 506	93 603	103 517	104 959	112 881	120 218
	F	86 643	90 585	99 114	101 135	108 690	114 766
7-10 years	Total	177 989	184 834	207 924	230 219	247 414	264 552
	M	90 164	93 400	106 275	117 428	125 896	135 187
	F	87 825	91 434	101 649	112 791	121 518	129 365
11-14 years	Total	186 675	177 189	173 622	171 767	175 746	187 841
	M	94 194	89 590	88 326	87 632	89 523	95 682
	F	92 481	87 599	85 296	84 135	86 223	92 159
15-18 years	Total	193 973	189 521	188 319	187 109	184 634	177 622
	M	96 976	94 908	95 786	94 570	93 224	90 301
	F	96 997	94 613	92 533	92 539	91 410	87 321
19-29 years	Total	605 737	622 767	605 061	602 542	590 962	566 945
	M	297 043	308 533	303 574	301 493	295 328	284 698
	F	308 694	314 234	301 487	301 049	295 634	282 247
30-59 years	Total	1 062 675	1 118 926	1 117 306	1 167 922	1 205 018	1 228 813
	M	508 495	538 601	541 875	561 827	581 036	597 430
	F	554 180	580 325	575 431	606 095	623 982	631 383
60 and above	Total	169 744	181 563	180 511	192 395	204 650	217 719
	F	72 577	77 060	74 492	79 299	84 472	89 281
	M	97 167	104 503	106 019	113 096	120 178	128 438

Table 2. Standard population

Age group	Gender	Conversion multiplier	2007	2008	2009	2010	2011
Up to 1 year	F	0.38	9 672	10 742	11 731	10 085	11 576
	M	0.38	9 962	11 169	12 022	10 343	12 175
1-3 years	F	0.48	31 033	33 022	34 865	39 440	40 298
	M	0.50	33 086	35 477	38 005	42 198	43 258
4-6 years	F	0.64	44 047	42 308	40 772	41 422	43 998
	M	0.68	47 457	45 824	44 738	45 030	47 739
7-10 years	F	0.72	69 722	68 350	65 961	63 944	62 717
	M	0.87	86 080	83 783	82 254	79 255	77 648
11-14 years	F	0.74	78 003	75 111	71 181	69 885	68 981
	M	0.96	102 522	99 385	95 898	92 569	91 500
15-18 years	F	0.87	105 543	99 109	93 478	89 579	86 036
	M	1.05	125 634	120 539	114 072	108 145	103 826
19-24 years	F	0.82	133 768	139 701	146 061	148 299	146 090
	M	1.04	159 529	168 813	175 885	178 852	177 822
25-50 years	F	0.78	391 650	400 042	413 546	427 330	437 728
	M	0.99	461 683	471 429	486 490	497 814	513 475
51 and above	F	0.72	117 075	121 524	123 061	127 454	135 379
	M	0.81	111 428	114 858	117 252	117 682	123 863
Total			2 117 893	2 141 183	2 167 270	2 189 325	2 224 112

Continuation of Table 2.

Age group	Gender	Conversion multiplier	2012	2013	2014	2015
Up to 1 year	F	0.38	12 086	13 037	13 555	14 735
	M	0.38	12 366	13 470	14 285	15 455
1-3 years	F	0.48	43 350	42 697	48 436	55 190
	M	0.50	43 848	46 243	52 384	60 221
4-6 years	F	0.64	49 348	55 452	57 974	63 433
	M	0.68	53 686	60 184	63 650	70 392
7-10 years	F	0.72	62 598	63 234	65 832	73 187
	M	0.87	77 625	78 443	81 258	92 459
11-14 years	F	0.74	69 338	68 436	64 823	63 119
	M	0.96	91 425	90 426	86 006	84 793
15-18 years	F	0.87	85 229	84 387	82 313	80 504
	M	1.05	103 021	101 825	99 653	100 575
19-24 years	F	0.82	140 783	136 663	133 085	124 559
	M	1.04	171 352	168 075	167 036	159 688
25-50 years	F	0.78	445 882	456 080	477 365	466 960
	M	0.99	528 345	542 053	576 910	578 087
51 and above	F	0.72	142 965	150 236	161 824	167 306
	M	0.81	130 150	136 871	146 484	147 800
Total			2 263 396	2 307 812	2 392 877	2 418 462

Continuation of Table 2.

Age group	Gender	Conversion multiplier	2016	2017	2018
Up to 1 year	M	0.34	11 989	11 933	13 339
	F	0.31	10 328	10 244	11 528
1-3 years	M	0.44	53 363	52 537	52 340
	F	0.41	47 421	46 827	46 123
4-6 years	M	0.61	64 025	68 857	73 333
	F	0.55	55 624	59 780	63 121
7-10 years	M	0.76	89 245	95 681	102 742
	F	0.69	77 826	83 847	89 262
11-14 years	M	1.04	91 137	93 104	99 509
	F	0.90	75 722	77 601	82 943
15-18 years	M	1.13	106 864	105 343	102 040
	F	0.95	87 912	86 840	82 955
19-29 years	M	1.00	301 493	295 328	284 698
	F	0.83	249 871	245 376	234 265
30-59 years	M	0.99	556 209	575 226	591 456
	F	0.77	466 693	480 466	486 165
60 and above	M	0.80	63 439	67 578	71 425
	F	0.70	79 167	84 125	89 907
Total			2 488 329	2 540 691	2 577 151

Note: Conversion multipliers for standard person was revised by Minister of Health approved on 23th of February 2017 Annex 1 of decree No. A/74

Table 3. Annual food consumption of standard population

	2007	2008	2009	2010	2011	2012
	thousand tonnes					
Meat and meat products	160.2	170.9	172.8	176.2	172.7	179.1
Milk	160.2	170.9	172.8	176.2	172.7	179.1
Clabber, curds	226.6	241.7	244.3	249.2	244.1	253.1
Flour	91.6	97.7	98.7	100.7	98.7	102.3
Flour products	201.5	214.9	217.2	221.5	217.1	225.0
All types of grains	71.4	76.2	77.0	78.5	77.0	79.9
Sugar, sweeteners	21.1	22.5	22.7	23.2	22.7	23.5
Potatoes	128.2	136.7	138.2	140.9	138.1	143.2
Vegetables	183.1	195.3	197.5	201.4	197.3	204.6
Fruits	164.8	175.8	177.7	181.2	177.6	184.1
Pulses	82.4	87.9	88.9	90.6	88.9	92.2
Eggs	17.4	18.6	18.8	19.1	18.7	19.3
Vegetable oil	22.9	24.4	24.7	25.2	24.6	25.5

Continuation of Table 3.

	2013	2014	2015	2016	2017	2018
	Thousand tonnes					
Meat and meat products	171.3	165.9	171.8	172.6	176.2	178.7
Milk	128.6	139.7	144.6	145.3	148.4	150.5
Clabber, curds	171.3	157.2	162.7	163.5	166.9	169.3
Flour	85.7	87.3	90.4	90.8	92.7	94.1
Flour products	188.5	157.2	162.7	163.5	166.9	169.3
All types of grains	66.9	43.7	45.2	45.4	46.4	47.0
Sugar, sweeteners	19.7	28.8	29.8	30.0	30.6	31.0
Potatoes	119.9	104.8	108.5	109.0	111.3	112.9
Vegetables	171.3	227.1	235.0	236.1	241.1	244.6
Fruits	154.2	174.7	180.8	181.6	185.5	188.1
Pulses	77.2	34.9	36.2	36.3	37.1	37.6
Eggs	16.2	17.5	18.1	18.2	18.5	18.8
Vegetable oil	21.4	20.1	20.8	20.9	21.3	21.6

Source: Nutrition Research Center of MoH

Table 4. National average for daily dietary calories intake for standard person during cold seasons in rural and urban areas

	2007	2008	2009	2010	2013	2014	2015	2016	2017	2018
	National average									
Calories, kilocalorie	2 260.6	2 188.7	2 377.9	2 319.4	2 298.3	2 800.7	2 722.8	2 599.8	2 921.7	2 978.7
Protein, grams	97.5	94.1	105.4	102.2	102.2	123.6	121.6	115.9	130.8	132.5
Fat, grams	59.9	58.8	66.2	64.4	67.1	87.5	87.1	81.2	66.1	66.3
Carbohydrates, grams	331.5	319.4	338.6	331.3	319.5	376.3	359.8	348.5	452.7	464.9
	Urban									
Calories, kilocalorie	2 193.2	2 065.9	2 160.8	2 126.2	2 084.5	2 637.5	2 530.6	2 399.1	2 746.4	2 813.9
Protein, grams	88.4	83.8	88.2	86.7	88.4	112.0	110.3	103.8	116.0	117.2
Fat, grams	56.3	51.8	55.7	55.6	58.2	78.3	77.5	71.8	54.8	54.7
Carbohydrates, grams	331.3	314.3	324.7	317.8	299.6	367.4	344.2	331.1	448.0	463.9
	Rural									
Calories, kilocalorie	2 375.0	2 326.8	2 648.4	2 560.2	2 565.6	3 084.8	3 089.9	3 012.9	3 278.3	3 296.2
Protein, grams	109.7	107	126.8	121.4	119.5	143.8	143.0	140.8	161.3	161.9
Fat, grams	65.5	67.6	79.3	75.4	78.2	103.5	105.5	100.5	88.7	88.6
Carbohydrates, grams	335.8	321.8	355.9	348.2	344.5	391.7	389.5	384.2	462.5	466.8

Source: NSO, Household Socio-Economic Survey

Table 5. National average for daily dietary calories intake for standard person during warm seasons in rural and urban areas

	2007	2008	2009	2010	2013	2014	2015	2016	2017	2018
National average										
Calories, kilocalorie	2 683.0	2 437.1	2 565.5	2 482.8	2 519.7	2 989.5	2 911.4	2 709.2	3 065.9	3 067.6
Protein, grams	110.9	106.5	115.7	109.4	113.1	130.3	126.9	117.8	136.1	136.1
Fat, grams	75.8	69.3	76.5	71.9	77.4	94.1	94.7	84.2	70.4	69.4
Carbohydrates, grams	387.9	345.7	352.5	348.4	341.3	401.7	384.1	366.9	474.1	476.7
Urban										
Calories, kilocalorie	2 281.9	2 100.7	2 156.2	2 114.3	2 154.2	2 652.1	2 544.1	2 397.1	2 777.5	2 836.8
Protein, grams	89.3	84.4	88	84.1	90.1	108.1	106.1	99.0	114.1	116.8
Fat, grams	58.5	53.1	56.8	55.2	60.6	77.2	77.9	69.8	53.9	54.5
Carbohydrates, grams	347.1	319.1	321.3	318.3	310.0	377.4	350.7	339.9	459.8	470.3
Rural										
Calories, kilocalorie	3 137.2	2 839.2	3 078.1	2 941.1	2 975.7	3 569.5	3 552.4	3 372.5	3 684.3	3 515.4
Protein, grams	136.6	132	150.3	140.9	141.7	168.5	163.1	157.9	183.6	173.4
Fat, grams	97.5	89.8	101.1	92.5	98.3	123.1	124.1	114.9	105.4	98.2
Carbohydrates, grams	425.6	373.7	391.5	385.7	380.4	443.5	442.2	424.2	505.1	489.0

Source: NSO, Household Socio-Economic Survey

Table 6. Indicators for alimentary products standardization

Description	Source	2007	2008	2009	2010	2011	2012
Number of accredited food testing laboratories	MASM	47	58	65	-	-	-
Number of food related national standards	MASM	603	615	650	665	672	668
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	277	295	310	305	289	298
Number of food related national technical regulations	MASM	1	2	2	2	2	4
Number of food products holding Certificate of conformity	MASM	475	510	536	-	-	-
Factories that introduced food safety management system ISO9000 standard	MASM	-	-	5	-	-	-
Factories that introduced food safety management system ISO22000 standard and EEOs that introduced HACCPs	MASM	-	-	2	-	-	-
Number of factories producing fortified foods	MoFALI	-	-	-	-	-	-
Alcohols and alcoholic beverages producing factories	MoFALI	-	97	86	84	83	83

Continuation of Table 6.

Description	Source	2013	2014	2015	2016	2017	2018
Number of accredited food testing laboratories	MASM	-	65	65	87	91	95
Number of food related national standards	MASM	653	672	652	648	662	666
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	259	262	249	256	262	264
Number of food related national technical regulations	MASM	4	4	4	4	4	4
Number of food products holding Certificate of conformity	MASM	-	240	215	755	668	458
Factories that introduced food safety management system ISO9000 standard	MASM	-	2	3	3	3	5
Factories that introduced food safety management system ISO22000 standard and EEOs that introduced HACCPs	MASM	-	1	1	2	4	6
Number of factories producing fortified foods	MFALI	-	15	15	5	5	8
Alcohols and alcoholic beverages producing factories	MFALI	70	87	87	87	83	68

Table 7. Domestic food products that were confiscated, returned, removed and disposed

Description	Meas.unit	2014	2015	2016	2017	2018
Confiscated foods	kilograms	2 408.9	3 766.8	654.9	5 572.5	425.3
	liter	104.7	2 911.0	544.5	1 574.0	489.8
	piece	7 324	19 537	82 670	42 010	20 082
Returned foods	kilograms	1768.0	1 511.0	313.5	781.7	1 443.4
	piece	31	46 250	5 391	12 573	3 659
Foods removed from shelf	kilograms	181	462	238.3	611.7	3 012.7
	liter	-	336.0	6.4	64.0	84.0
	piece	120	3 248	12 869	6 030	36 151
Disposed off foods	kilograms	2 982.2	4 088.9	2 229.7	8 396.6	12 989.4
	liter	1 061.3	1 586.0	648.5	1 546.1	523.3
	piece	4 364	18 527	82 530	39 552	67 755

Source: GASI

Table 8. Number of EEOs and individuals whose activities were inspected, suspended and restored

Description	2014		2015		2016		2017		2018	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	4 317	2 481	6 897	24 950	4 785	3 072	5 290	4 850	6 188	4 744
Activities suspended	68	26	68	66	119	44	81	49	51	32
Activities restored	63	14	49	32	58	30	45	19	19	29

Source: GASI

Table 9. Number of violations reported and eradicated

Descriptions of violations	2014		2015		2016	
	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated
Total	34 452	18 585	29 869	23 617	27 488	21 518
Violations of norms and standards for building and facilities	8 824	3 085	5 980	4 604	4 992	3 430
Violations of norms and standards for workplace, equipment and machinery operation	4 100	2 810	3 322	2 753	3 237	2 360
Violations of technological norms and standards	3 135	2 147	2 966	2 373	2 516	1 984
Violations of norms and standards for hygiene and sanitary	4 945	3 437	5 703	4 420	5 018	4 722
Violations of norms and standards for raw material preparation, quality and safety of final food products	3 270	2 764	2 951	2 466	2 898	2 226
Violations of norms and standards for storage and transportation	6 618	1 869	3 957	2 985	3 623	2 707
Violations of norms and standards for packaging and labeling	1 493	1 318	1 839	1 541	1 984	1 702
Violations of rules and norms for internal control	2 066	1 155	3 151	2 475	3 220	2 387

Source: GAS/

Continuation of Table 9.

Descriptions of violations	2017		2018	
	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated
Total	28 028	19 904	30 646	21 780
Violations of norms and standards for building and facilities	3 256	1 632	2 932	1 613
Violations of norms and standards for workplace, equipment and machinery operation	2 895	2 167	2 710	1 643
Violations of technological norms and standards	2 836	2 048	2 906	2 082
Violations of norms and standards for hygiene and sanitary	5 436	4 177	2 955	2 093
Violations of norms and standards for raw material preparation, quality and safety of final food products	3 118	2 318	4 949	4 010
Violations of norms and standards for storage and transportation	3 576	2 429	4 391	2 554
Violations of norms and standards for packaging and labeling	3 039	2 372	3 676	3 031
Violations of rules and norms for internal control	3 872	2 761	6 127	4 754

Source: GAS/

Table 10. Number of food factories and EEOs, by type

№	Description	2008	2009	2010	2011	2012
1	Meat and meat products production, preservation	132	127	152	198	244
2	Fish production, preservation	4	4	4	3	3
3	Fruits and vegetables cultivation, preservation	14	16	19	36	37
4	Animal and vegetable oil production	2	1	1	3	3
5	Milk and dairy products production	85	96	112	163	184
6	Wheat, rye flour and grains production	32	31	35	42	52
7	Starchy food production	-	-	1	3	4
8	Bread, biscuits and fine pastry production	193	220	261	311	332
9	Cacao, chocolate and sweets production	1	1	2	6	4
10	Pastas and noodle production	4	4	5	13	17
11	Pickled and on-hand ready food production	16	13	15	14	16
12	Other types of foods not included above	39	42	64	73	89
13	Alcohol production	86	85	76	67	69
14	Wine production	5	5	5	8	7
15	Beer production	6	5	3	8	7
16	Soft drinks, spring water and regular water production	57	56	49	65	65

Continuation of Table 10.

№	Description	2013	2014	2015	2016	2017	2018
1	Meat and meat products production, preservation	228	267	266	273	330	401
2	Fish production, preservation	3	4	4	4	4	3
3	Fruits and vegetables cultivation, preservation	39	31	43	43	45	45
4	Animal and vegetable oil production	1	2	3	6	6	7
5	Milk and dairy products production	182	236	242	243	275	302
6	Wheat, rye flour and grains production	40	61	60	55	60	61
7	Starchy food production	9	12	7	5	5	6
8	Bread, biscuits and fine pastry production	330	392	415	449	504	526
9	Cacao, chocolate and sweets production	4	5	6	7	7	9
10	Pastas and noodle production	12	21	34	34	35	36
11	Pickled and on-hand ready food production	21	35	44	53	70	86
12	Other types of foods not included above	83	85	80	91	106	119
13	Alcohol production	56	45	36	31	32	28
14	Wine production	7	6	6	6	6	5
15	Beer production	7	8	8	9	9	8
16	Soft drinks, spring water and regular water production	59	64	70	72	84	99

Source: NSO

Table 11. Number of EEOs conduct food business

No	Description	2008	2009	2010	2011	2012
1	Wholesale on a fee or contract basis	7 449	7 013	11 558	5 994	8 500
2	Foods, drinks and tobacco wholesale	111	120	135	254	291
3	Retail sale stores not specialized in selling foods, drinks and tobacco	791	808	846	446	669
4	Retail sale of food specialized stores	3 674	3 687	3 820	5 158	5 572
5	Retail sale of drink specialized stores	-	-	-	3	3

Continuation of Table 11.

No	Description	2013	2014	2015	2016	2017	2018
1	Wholesale on a fee or contract basis	8 970	9 376	9 814	11 639	13 174	15 451
2	Foods, drinks and tobacco wholesale	354	403	455	508	557	621
3	Retail sale stores not specialized in selling foods, drinks and tobacco	822	945	1 137	1 266	1 345	1 406
4	Retail sale of food specialized stores	5 589	5 298	5 446	5 943	6 316	6 644
5	Retail sale of drink specialized stores	7	11	21	23	25	25

Table 12. Number of food production EEOs

No	Description	2013	2014	2015	2016	2017	2018
1	Restaurant and food service	885	985	947	1 134	1 201	1 268
2	Special ordered food service	31	22	24	32	41	56
3	Other food-serving activities	569	472	414	381	423	431
4	Beverage serving activities	33	62	85	114	131	136

Table 13. Health indicators related to food service

No	Description	2011	2012	2013	2014	2015	2016	2017	2018
1	Number of people affected food poisoning	278	719	238	548	482	430	133	544
	Urban	147	633	121	235	375	386	89	328
	Rural	131	86	117	313	107	44	44	226
2	Number of people affected other types of food related disease	-	-	-	-	-	-	-	-
3	5 years or above aged children weigh under confirmed rate of weight	9 508	10 074	5 111	5 536	6 190	6 312	6 304	8 439

Table 14. Number of heads of livestock, by types

Description	2007	2008	2009	2010	2011	2012
Total	40 263.8	43 288.4	44 023.9	32 769.5	36 335.8	40 920.9
Horse	2 239.5	2 186.9	2 221.3	1 960.3	2 112.9	2 330.4
Cattle	2 425.8	2 503.4	2 599.3	2 176.0	2 339.7	2 584.6
Camel	260.6	266.4	277.1	269.6	280.1	305.8
Sheep	16 990.1	18 362.3	19 274.7	14 480.4	15 668.5	18 141.4
Goat	18 347.8	19 969.4	19 651.5	13 883.2	15 934.6	17 558.7

Continuation of Table 14.

Description	2013	2014	2015	2016	2017	2018
	Thousand heads					
Total	45 144.3	51 982.6	55 979.8	61 549.2	66 219.0	66 460.2
Horse	2 619.4	2 995.8	3 295.3	3 635.5	3 939.8	3 940.1
Cattle	2 909.5	3 413.9	3 780.4	4 080.9	4 388.5	4 380.9
Camel	321.5	349.3	368.0	401.3	434.1	459.7
Sheep	20 066.4	23 214.8	24 943.1	27 856.6	30 109.9	30 554.8
Goat	19 227.6	22 008.9	23 592.9	25 574.9	27 346.7	27 124.7

Table 15. Number of dams in livestock, by types

Description	2007	2008	2009	2010	2011	2012
	Thousand heads					
Total	16 784.8	18 531.3	19 005.3	15 533.8	15 693.0	17 748.9
Horse	632.8	631.5	649.6	593.0	641.6	700.9
Cattle	931.8	971.6	1 023.9	901.9	965.6	1 046.0
Camel	80.9	85.2	89.7	90.7	96.2	105.1
Sheep	7 490.9	8 253.5	8 672.8	7 097.5	7 117.5	8 257.1
Goat	7 648.6	8 589.6	8 569.5	6 850.7	6 872.1	7 639.7

Continuation of Table 15.

Description	2013	2014	2015	2016	2017	2018
	Thousand heads					
Total	19 436.7	22 248.6	23 863.8	26 477.2	28 242.3	29 777.8
Horse	784.7	895.5	990.0	1 113.5	1 226.6	1 291.6
Cattle	1 151.0	1 333.4	1 458.1	1 587.8	1 707.8	1 755.3
Camel	112.0	120.2	127.8	139.4	151.0	161.0
Sheep	9 094.9	10 478.0	11 205.4	12 578.6	13 519.7	14 223.4
Goat	8 294.3	9 421.6	10 082.4	11 057.8	11 637.2	12 346.6

Table 16. Number of animals for food consumption purpose, by types

Description	2007	2008	2009	2010	2011	2012
	Thousand heads					
Total	7 012.5	8 285.3	11 299.0	8 373.7	8 283.2	8 365.0
Horse	402.3	459.5	516.0	383.3	446.3	469.9
Cattle	281.6	312.5	323.5	205.3	208.9	238.3
Camel	25.7	32.1	26.6	26.9	29.4	25.2
Sheep	3 562.2	4 076.7	4 955.5	4 326.3	4 415.8	3 679.6
Goat	2 740.7	3 404.4	5 477.4	3 431.9	3 182.8	3 952.0

Continuation of Table 16.

Description	2013	2014	2015	2016	2017	2018
	Thousand heads					
Total	10 205.0	10 006.4	14 556.7	12 700.0	14 105.8	16 526.7
Horse	445.6	238.8	395.6	335.7	463.4	597.0
Cattle	225.7	435.7	728.0	721.3	802.7	1 002.2
Camel	31.7	29.8	36.4	30.1	33.4	45.3
Sheep	5 015.3	4 995.5	7 301.9	6 254.3	7 091.8	8 729.1
Goat	4 486.6	4 306.5	6 094.7	5 358.6	5 714.5	6 153.0

Table 17. Meat production, tonnes

Description	2007	2008	2009	2010	2011	2012
	tonnes					
Total	400 152.8	467 848.7	570 817.7	424 703.1	440 926.4	464 218.1
Horse	71 469.9	79 349.2	71 163.8	46 094.7	50 948.9	62 164.4
Cattle	93 520.6	108 374.2	117 130.5	90 305.1	109 531.4	119 407.5
Camel	10 937.2	13 668.6	11 479.5	11 482.8	12 304.9	10 592.8
Sheep	133 663.6	154 041.2	190 089.8	162 380.2	163 332.0	140 082.7
Goat	89 891.6	111 745.5	180 409.9	114 000.9	103 868.7	131 013.2
Pigs	554.6	554.6	477.9	362.1	646.6	671.0
Fowls/Poultry	115.3	115.3	66.4	77.5	293.9	286.5

Continuation of Table 17.

Description	2013	2014	2015	2016	2017	2018
	tonnes					
Total	527 607.1	514 153.9	787 904.8	707 912.7	757 133.0	901 000.7
Horse	58 565.6	59 069.8	101 284.6	83 467.9	93 429.7	114 385.4
Cattle	112 872.7	109 752.6	186 503.6	184 766.3	195 358.9	253 182.3
Camel	13 436.5	12 710.4	16 323.7	18 660.7	14 243.3	19 378.7
Sheep	192 529.1	190 205.9	280 304.7	242 025.8	263 866.9	318 137.9
Goat	149 147.9	140 809.0	200 827.6	178 843.9	187 937.8	194 472.8
Pigs	878.4	1 272.2	1 005.1	128.3	812.4	943.3
Fowls/Poultry	177.0	334.0	1 655.5	19.8	1 484.0	500.4

Table 18. Milk production, thousand liters

Description	2007	2008	2009	2010	2011	2012
	Thousand liters					
Total	465 640.1	457 418.4	493 747.7	338 441.7	458 581.9	510 972.7
Mare	51 550.2	45 521.2	50 090.1	32 053.3	50 888.2	56 727.6
Cow	307 840.0	303 542.6	325 525.9	242 812.3	298 794.9	338 604.6
Female camel	3 775.4	4 442.2	4 374.9	4 004.5	4 601.2	5 754.9
Ewe	32 855.9	33 881.7	37 069.5	22 383.2	33 430.8	35 940.5
Female goat	69 618.6	70 030.7	76 687.2	37 188.4	70 866.7	73 945.1

Continuation of Table 18.

Description	2013	2014	2015	2016	2017	2018
	Thousand liters					
Total	575 221.0	765 376.4	874 426.9	891 513.2	919 496.7	902 400.7
Mare	65 475.4	74 961.8	85 143.5	86 173.5	94 302.7	83 909.4
Cow	380 830.3	440 371.2	512 442.1	522 387.9	539 926.4	553 344.1
Female camel	5 363.5	9 346.7	9 042.9	10 225.8	10 392.5	11 483.0
Ewe	41 226.2	84 745.1	95 160.7	99 082.7	99 668.4	103 827.1
Female goat	82 325.7	155 951.6	172 637.7	173 643.3	175 206.7	149 837.2

Table 19. Agricultural grassland size

Description	2007	2008	2009	2010	2011	2012
	Thousand ha					
Agricultural land	115 992.8	115 824.7	115 586.0	115 525.9	115 490.8	115 399.9
Pastures	111 679.8	111 485.2	111 227.3	111 255.6	111 181.4	111 032.5
Meadows	1 823.0	1 823.2	1 825.0	1 714.9	53 370.2	1 712.3
Arable land	704.5	835.7	906.0	932.4	964.4	1 031.1
Fallow land	472.5	363.3	312.1	306.6	330.4	292.0

Continuation of Table 19.

Description	2013	2014	2015	2016	2017	2018
	Thousand ha					
Agricultural land	115 361.4	115 008.6	114 982.8	114 931.1	114 843.6	114 933.1
Pastures	111 026.2	110 646.8	110 613.6	110 490.0	110 429.3	110 522.4
Meadows	1 712.3	1 717.6	1 717.7	1 742.4	1 710.2	1 710.2
Arable land	986.8	1 012.8	1 028.2	1 067.7	1 086.8	1 083.3
Fallow land	305.0	305.0	305.0	260.6	241.0	241.0

Table 20. Cropland, by types of plant

Description	2007	2008	2009	2010	2011	2012
	Thousand ha					
Total	202.7	192.5	282.2	315.3	345.9	379.8
Grain seed	121.8	154.0	252.4	259.2	299.9	306.2
Wheat	116.7	150.0	248.9	250.2	291.4	297.3
Potato	11.5	12.3	13.5	13.8	15.4	16.8
Vegetables	6.1	6.4	6.5	7.0	7.8	7.9
Fodder plants	4.9	5.5	3.3	11.1	10.9	13.8
Technical plants	58.4	14.3	6.2	23.3	10.9	33.2
Others	-	-	0.2	0.8	1.0	1.9

Continuation of Table 20.

Description	2013	2014	2015	2016	2017	2018
	Thousand ha					
Total	415.4	444.4	527.7	508.3	527.0	511.8
Grain seed	293.3	315.0	390.7	377.8	390.9	366.8
Wheat	275.6	291.2	361.2	355.1	365.7	342.4
Potato	15.5	13.2	12.8	15.0	15.1	12.9
Vegetables	8.3	8.7	7.7	9.1	8.4	8.9
Fodder plants	14.4	17.0	23.8	29.9	26.4	46.3
Technical plants	83.9	86.7	84.5	66.2	81.0	71.9
Others	1.0	3.8	8.2	9.9	5.3	4.9

Table 21. Harvesting, by types of plant

Description	2007	2008	2009	2010	2011	2012
	Thousand tonnes					
Grain seed	114.8	212.9	391.7	355.1	446.1	479.4
Wheat	109.6	209.8	388.1	345.5	435.9	465.3
Potato	114.4	134.8	151.2	168.0	201.6	245.9
Vegetables	76.4	78.6	78.0	82.3	99.0	98.9
Fodder plants	14.1	19.9	10.4	34.8	40.4	46.2
Technical plants	17.2	6.6	3.6	11.1	6.1	20.9
Others	933.1	1 030.9	912.3	1 137.3	1 195.2	1 175.1

Continuation of Table 21.

Description	2013	2014	2015	2016	2017	2018
	Thousand tonnes					
Grain seed	387.0	518.8	216.3	483.5	238.1	453.8
Wheat	368.4	488.3	203.9	467.1	231.4	436.1
Potato	191.6	161.5	163.8	165.3	121.8	168.9
Vegetables	101.8	104.8	72.3	94.4	82.1	100.7
Fodder plants	42.6	44.3	49.2	53.4	47.9	123.8
Technical plants	41.7	52.1	23.1	21.5	13.9	23.9
Others	1 169.3	1 178.7	1 028.7	1 275.4	1 008.1	1 229.4

Table 22. The harvest of ha, by types of plant

Description	2007	2008	2009	2010	2011	2012
	centner					
Grain seed	9.4	13.8	15.5	13.7	14.9	15.7
Potato	99.8	109.6	111.8	121.6	131.1	146.2

Continuation of Table 22.

Description	2013	2014	2015	2016	2017	2018
	centner					
Grain seed	13.2	16.5	5.5	12.8	6.1	12.4
Potato	123.6	122.3	127.5	110.0	80.4	130.7

Table 23. Demand of flour and required grain seeds and harvesting for standard population

	2007	2008	2009	2010	2011	2012
Annual consumption of flour for standard population, tonnes	91 600	97 700	98 700	100 700	98 674	102 293
Required grain seeds, tonnes	130 857	139 571	141 000	143 857	140 963	146 132
Required arability, ha	139 210	101 139	90 968	105 005	94 606	93 078
Grain harvested, tonnes	114 778	212 894	391 659	355 061	446 051	479 349
Supplies, percentage	87.7	152.5	277.8	246.8	316.4	328.0
Sown area, ha	121 777	153 951	252 390	259 197	299 927	306 235

Continuation of Table 23.

	2013	2014	2015	2016	2017	2018
Annual consumption of flour for standard population, tonnes	104 305	87 300	90 400	90 823	92 735	94 066
Required grain seeds, tonnes	149 007	124 714	129 143	131 571	134 000	134 380
Required arability, ha	112 884	75 732	233 298	102 819	219 992	108 609
Grain harvested, tonnes	387 043	518 793	216 268	483 453	238 102	453 849
Supplies, percentage	259.7	416.0	167.5	367.4	177.7	337.7
Sown area, ha	293 262	315 033	390 690	377 802	390 860	366 809

Table 24. Crops

Description	2007	2008	2009	2010	2011	2012
	tonnes					
Grain	114 778.2	212 894.1	391 658.6	355 060.9	446 050.5	479 348.8
Wheat	109 559.8	209 829.9	388 121.9	345 457.6	435 889.2	465 293.9
Barley	3 908.4	1 394.3	1 844.2	4 319.6	4 362.9	5 925.1
Oat	1 020.4	1 177.7	1 511.5	4 349.0	4 339.2	5 933.6
Others	289.6	492.2	181.1	934.7	1 459.2	2 196.2
Potatoes	114 439.9	134 772.7	151 211.0	167 955.8	201 638.9	245 935.0
Vegetables	76 430.5	78 552.5	77 976.1	82 266.4	98 973.9	98 917.6
Cabbages	20 563.3	18 087.2	19 034.0	17 855.8	20 896.8	20 247.7
Turnips	16 379.3	16 627.2	19 316.1	22 022.2	24 431.8	23 816.9
Carrots	22 536.4	23 454.9	22 541.6	24 430.4	29 466.1	32 754.8
Onions	3 354.1	4 029.2	3 884.2	5 427.8	5 479.2	5 528.1
Garlics	309.1	433.0	200.4	412.0	609.5	678.9
Cucumbers	2 881.2	2 845.4	3 075.0	3 351.6	4 373.9	3 668.4
Tomatoes	2 420.6	2 805.3	1 432.1	1 565.6	2 350.1	2 100.5
Watermelons	5 343.3	6 513.0	4 942.1	3 875.9	7 471.0	6 432.2
Others	2 643.2	3 757.4	3 550.5	3 325.2	3 895.5	3 690.2

Continuation of Table 24.

Description	2013	2014	2015	2016	2017	2018
	tonnes					
Grain	387 043.3	518 793.0	216 267.8	483 453.4	238 101.9	453 849.2
Wheat	368 379.1	488 293.6	203 899.2	467 052.8	231 364.4	436 114.9
Barley	4 407.4	8 472.7	2 442.9	6 483.1	1 693.6	2 354.9
Oat	10 109.8	18 757.6	3 290.3	7 886.2	3 494.7	9 971.6
Others	4 147.0	3 269.0	6 635.4	2 031.3	1 549.2	5 407.9
Potatoes	191 619.2	161 488.5	163 766.9	165 329.5	121 808.5	168 882.6
Vegetables	101 750.1	104 791.9	72 347.6	94 447.2	82 102.0	100 731.7
Cabbages	20 622.8	18 691.2	15 440.2	16 680.1	15 214.3	18 790.0
Turnips	22 358.0	23 911.5	17 645.4	21 222.6	16 581.6	24 139.4
Carrots	34 530.9	34 715.6	18 490.1	31 022.0	21 681.4	26 315.7
Onions	9 317.0	9 435.9	6 693.4	9 985.3	12 129.5	14 095.3
Garlics	976.0	1 001.9	657.4	658.7	447.1	543.0
Cucumbers	4 340.9	4 716.4	3 839.3	3 734.1	3 922.3	3 761.4
Tomatoes	2 497.9	2 393.2	1 870.8	2 228.9	2 017.6	1 922.3
Watermelons	5 382.8	5 304.6	5 612.6	6 606.5	8 121.7	8 799.5
Others	1 723.8	4 621.6	2 098.4	2 309.0	1 353.9	2 365.0

Table 25. Agriculture, value added (% of GDP)

Description	2007	2008	2009	2010	2011	2012
Agriculture	18.4	19.2	17.9	11.6	10.2	11.2
Crop	2.4	3.6	4.4	1.3	0.6	0.8
Livestock	16.0	15.6	13.5	10.0	9.4	10.2
Other agriculture	-	-	-	0.3	0.2	0.2

Continuation of Table 25.

Description	2013	2014	2015	2016	2017	2018
Agriculture	13.4	13.3	13.3	11.5	10.1	10.7
Crop	1.2	1.1	0.9	1.0	0.7	1.0
Livestock	12.1	12.0	12.1	10.3	9.3	9.5
Other agriculture	0.2	0.2	0.2	0.2	0.1	0.1

Table 26. Manufacture of major industrial products, as the end of the years

Main products		Meas.unit	2007		2008	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	2 143.5	3 089.4	4 274.2	8 140.8
	Mutton	tonnes	1 567.1	2 824.5	3 300.3	6 783.5
	Horse meat	tonnes	2 966.0	3 752.6	3 402.8	4 880.5
	Chevon	tonnes	93.4	126.5	1 031.9	1 540.7
	Camel	tonnes	0.4	0.5	0.6	0.8
	Pork	tonnes	13.6	27.3	1.9	13.5
Meat products	Ham	tonnes	1 322.6	3 699.6	1 696.0	6 143.6
	Smoked, cooked and other processed meats	tonnes	1.7	8.4	10.2	51.8
	Offal	tonnes	85.9	60.1	499.0	507.7
	Intestines	thous.loops	644.3	876.2	641.1	1 105.1
	Canned meat	tonnes	139.3	317.6	538.9	1 798.6
Milk	Drinking milk	thous.liters	5 401.0	3 715.8	7 270.8	7 454.2
Dairy products	Milk cream	tonnes	0.3	0.6	204.0	84.5
	Clabber	thous.liters	2 739.9	2 069.8	4 693.0	4 961.7
	Camel milk	thous.liters	1.5	1.7	2.5	3.2
	Dried curds	tonnes	0.0	0.0	17.1	48.5
	Butter	tonnes	60.4	189.4	94.8	467.5
	Thick butter	tonnes	0.0	0.0	0.0	0.3
	Clotted milk, sour cream	tonnes	28.7	46.9	79.4	202.8
	Clarified butter	tonnes	0.0	0.1	1.3	9.1
	Fine butter	tonnes	0.0	0.0	0.0	0.0
	Cheese	tonnes	3.2	14.0	4.6	17.4
	Curds	tonnes	50.7	126.8	98.6	309.1
	Casein	tonnes	0.0	0.0	0.2	0.5
	Ice-creams	thousand	6 450.7	761.7	7 172.1	1 062.5
	Milk protein	kilograms	60.4	189.4	94.8	467.5
Flour	Wheat flour, high grade	tonnes	22 392.5	12 192.5	18 931.7	14 953.1
	Wheat flour, first grade	tonnes	35 581.3	15 948.0	34 440.9	23 189.9
	Wheat flour, second grade	tonnes	12 284.2	4 185.0	8 366.7	4 396.7
	Animal fodder	tonnes	22 301.5	3 836.4	26 266.3	7 620.3
Flour products	Bread	tonnes	17 890.1	9 798.8	23 424.0	21 509.5
	Fine pastries	tonnes	11 266.5	15 015.6	11 316.0	19 291.5
	Traditional pastries	tonnes	536.1	807.1	491.1	1 114.1
	Cake	tonnes	271.8	982.4	445.9	2 288.9
	Cookies/Biscuits	tonnes	366.8	693.0	431.6	1 130.1
	Noodles/ Pastas	tonnes	1 361.4	1 797.7	2 287.6	3 835.1
Alcoholic drinks	Alcohol	thous.liters	5 721.5	8 656.3	8 080.9	16 312.7
	Vodka	thous.liters	12 258.3	38 269.0	15 297.3	55 723.5
	Wine	thous.liters	327.5	637.2	196.6	531.3
	Beers	thous.liters	18 377.7	17 414.1	19 891.0	28 679.9

Continuation of Table 26.

Main products		Meas.unit	2009		2010	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	9 222.3	15 932.4	5 604.9	13 197.0
	Mutton	tonnes	1 852.1	3 176.8	2 810.4	5 955.3
	Horse meat	tonnes	6 585.3	11 826.5	2 337.1	4 023.4
	Chevon	tonnes	613.3	763.0	991.7	1 578.4
	Camel	tonnes	1.8	1.9	1.6	2.4
	Pork	tonnes	14.6	153.3	10.8	113.0
Meat products	Ham	tonnes	1 596.6	6 408.1	1 705.7	7 338.8
	Smoked, cooked and other processed meats	tonnes	52.1	262.6	25.7	95.7
	Offal	tonnes	520.9	682.9	73.9	76.1
	Intestines	thous.loops	1 057.1	1 597.2	1 288.5	3 241.8
	Canned meat	tonnes	343.3	1 399.6	178.4	641.5
Milk	Drinking milk	thous.liters	10 223.3	12 241.9	17 164.9	21 400.7
Dairy products	Milk cream	tonnes	0.7	3.0	0.9	4.0
	Clabber	thous.liters	4 087.9	4 947.6	6 013.4	9 797.7
	Camel milk	thous.liters	5.1	7.1	5.1	13.7
	Dried curds	tonnes	34.2	78.4	17.0	61.8
	Butter	tonnes	155.7	817.2	49.9	358.4
	Thick butter	tonnes	-	-	-	-
	Clotted milk, sour cream	tonnes	56.8	157.6	21.4	90.1
	Clarified butter	tonnes	0.9	5.8	2.0	13.1
	Fine butter	tonnes	597.9	1 106.2	657.5	1 283.2
	Cheese	tonnes	2.2	18.5	1.2	11.8
	Curds	tonnes	141.0	717.5	113.6	640.6
	Casein	tonnes	0.5	1.3	-	-
	Ice-creams	thousand	15 149.4	2 397.8	25 110.3	3 749.6
	Milk protein	kilograms	155.7	817.2	7.3	12.5
Flour	Wheat flour, high grade	tonnes	21 732.5	13 555.6	33 476.3	18 400.1
	Wheat flour, first grade	tonnes	72 401.3	38 760.5	97 348.1	46 149.2
	Wheat flour, second grade	tonnes	10 865.6	4 761.6	12 315.7	4 204.8
	Animal fodder	tonnes	39 293.4	8 352.2	65 768.8	13 157.3
Flour products	Bread	tonnes	21 396.5	21 129.3	19 388.0	19 816.4
	Fine pastries	tonnes	11 305.9	22 727.3	11 062.7	23 749.7
	Traditional pastries	tonnes	515.5	1 186.4	547.5	1 402.3
	Cake	tonnes	387.7	2 238.3	384.6	2 319.6
	Cookies/Biscuits	tonnes	244.7	803.6	347.6	1 064.1
	Noodles/ Pastas	tonnes	4 476.7	6 938.2	2 055.7	2 353.2
Alcoholic drinks	Alcohol	thous.liters	7 592.4	19 071.8	8 440.1	21 974.9
	Vodka	thous.liters	17 300.9	71 469.9	20 249.8	74 352.3
	Wine	thous.liters	108.7	352.1	146.9	464.5
	Beers	thous.liters	32 445.1	47 308.8	44 878.5	67 334.4

Continuation of Table 26.

Main products		Meas.unit	2011		2012	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	4 424.3	14 559.3	3 311.7	15 431.0
	Mutton	tonnes	5 167.5	16 641.2	4 721.3	20 745.7
	Horse meat	tonnes	2 592.3	6 844.1	845.4	3 329.3
	Chevon	tonnes	1 850.7	4 868.2	4 280.1	14 843.2
	Camel	tonnes	0.4	0.6	0.4	0.6
	Pork	tonnes	19.0	233.5	21.5	294.1
Meat products	Ham	tonnes	2 161.7	10 530.2	2 192.2	15 527.2
	Smoked, cooked and other processed meats	tonnes	25.6	124.5	60.0	334.6
	Offal	tonnes	19.2	15.2	40.4	55.5
	Intestines	thous.loops	1 250.8	4 321.4	941.9	3 890.1
	Canned meat	tonnes	114.6	302.6	130.0	367.6
Milk	Drinking milk	thous.liters	20 635.7	25 773.2	24 847.3	31 737.1
Dairy products	Milk cream	tonnes	4.2	18.6	3.4	19.9
	Clabber	thous.liters	8 737.3	12 992.3	7 706.8	13 668.8
	Camel milk	thous.liters	7.8	19.3	8.1	20.7
	Dried curds	tonnes	15.2	72.0	19.1	95.5
	Butter	tonnes	66.9	494.1	102.6	733.8
	Thick butter	tonnes	-	-	1 479.8	3 308.5
	Clotted milk, sour cream	tonnes	38.8	193.0	1.8	6.6
	Clarified butter	tonnes	1.0	8.0	2.8	28.0
	Fine butter	tonnes	967.9	1 781.5	-	-
	Cheese	tonnes	6.0	60.1	11.1	106.6
	Curds	tonnes	64.4	473.4	318.8	1 896.2
	Casein	tonnes	-	-	-	-
	Ice-creams	thousand	23 506.3	3 529.9	32 065.9	5 247.9
	Milk protein	kilograms	6.9	16.1	11.4	31.3
Flour	Wheat flour, high grade	tonnes	21 605.6	11 335.7	32 747.8	17 163.1
	Wheat flour, first grade	tonnes	69 079.8	37 521.0	67 486.5	34 078.1
	Wheat flour, second grade	tonnes	10 761.2	3 862.8	14 584.5	5 296.5
	Animal fodder	tonnes	34 149.5	5 875.5	38 193.8	6 574.0
Flour products	Bread	tonnes	21 184.0	22 141.4	22 498.4	26 297.7
	Fine pastries	tonnes	10 924.5	24 063.5	11 503.0	28 848.0
	Traditional pastries	tonnes	494.9	1 558.5	594.6	2 041.6
	Cake	tonnes	601.1	3 675.4	820.4	5 647.0
	Cookies/Biscuits	tonnes	410.4	1 289.9	646.9	1 893.3
	Noodles/ Pastas	tonnes	2 231.8	2 116.2	3 191.7	1 742.1
Alcoholic drinks	Alcohol	thous.liters	10 030.6	27 047.6	10 761.3	29 265.5
	Vodka	thous.liters	25 470.6	91 454.8	26 801.8	100 747.6
	Wine	thous.liters	122.8	394.8	79.8	314.3
	Beers	thous.liters	57 133.6	84 053.0	65 124.6	97 863.1

Continuation of Table 26.

Main products		Meas.unit	2013		2014	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	7 373.7	39 694.1	5 496.4	30 065.5
	Mutton	tonnes	6 416.6	33 987.4	5 412.7	27 825.9
	Horse meat	tonnes	2 354.6	10 500.0	2 237.5	10 165.3
	Chevon	tonnes	3 614.1	15 581.7	3 636.7	15 652.7
	Camel	tonnes	-	-	-	-
	Pork	tonnes	13.4	189.5	316.5	2 179.9
Meat products	Ham	tonnes	2 260.8	17 161.4	3 337.7	25 227.6
	Smoked, cooked and other processed meats	tonnes	63.0	403.7	25.8	121.0
	Offal	tonnes	270.2	597.5	306.7	367.9
	Intestines	thous.loops	696.1	2 491.2	407.3	1 023.4
	Canned meat	tonnes	231.2	674.5	250.5	820.9
Milk	Drinking milk	thous.liters	26 330.3	35 312.7	28 003.3	45 866.4
Dairy products	Milk cream	tonnes	15.2	101.2	4.2	30.6
	Clabber	thous.liters	8 645.9	16 872.3	6 960.9	15 418.9
	Camel milk	thous.liters	3.2	8.5	4.2	13.1
	Dried curds	tonnes	115.2	1 168.6	144.9	1 552.9
	Butter	tonnes	148.0	1 062.2	130.6	1 135.1
	Thick butter	tonnes	1 023.6	2 245.1	1 311.6	2 983.2
	Clotted milk, sour cream	tonnes	2.5	12.0	3.5	10.6
	Clarified butter	tonnes	2.1	20.8	-	-
	Fine butter	tonnes	0.1	0.8	-	-
	Cheese	tonnes	13.2	156.5	1.9	27.0
	Curds	tonnes	123.5	683.7	105.0	798.7
	Casein	tonnes	-	-	0.0	0.1
	Ice-creams	thousand	18 634.2	3 752.8	27 255.4	5 666.4
	Milk protein	kilograms	49.7	117.0	-	-
Flour	Wheat flour, high grade	tonnes	45 789.1	30 334.3	45 217.6	41 231.8
	Wheat flour, first grade	tonnes	169 204.0	81 555.7	157 815.6	101 116.2
	Wheat flour, second grade	tonnes	31 519.1	11 580.4	25 181.2	10 929.5
	Animal fodder	tonnes	82 359.1	14 057.2	67 807.9	19 058.3
	Flour products	Bread	tonnes	21 689.7	27 240.0	25 801.5
Fine pastries		tonnes	15 727.9	40 095.1	16 271.6	45 075.6
Traditional pastries		tonnes	866.5	3 238.9	466.9	1 624.7
Cake		tonnes	833.6	6 177.4	979.6	7 651.9
Cookies/Biscuits		tonnes	487.4	1 502.6	470.3	1 408.5
Noodles/ Pastas		tonnes	1 512.2	2 261.9	2 730.8	2 739.0
Alcoholic drinks		Alcohol	thous.liters	9 950.4	29 503.3	9 126.0
	Vodka	thous.liters	24 762.8	103 927.8	24 181.4	130 304.4
	Wine	thous.liters	78.3	316.5	76.7	347.3
	Beers	thous.liters	63 775.3	91 764.9	67 740.7	107 179.9

Continuation of Table 26.

Main products		Meas.unit	2015		2016	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	2 859.5	13 573.0	1 553.5	7 712.1
	Mutton	tonnes	3 243.2	13 777.5	1 493.1	6 448.6
	Horse meat	tonnes	3 731.4	13 775.7	4 688.0	16 919.1
	Chevon	tonnes	2 765.4	10 604.9	1 215.3	3 588.7
	Camel	tonnes	-	-	-	-
	Pork	tonnes	485.8	1 909.0	747.8	2 783.9
Meat products	Ham	tonnes	3 361.0	27 053.2	4 628.3	37 546.5
	Smoked, cooked and other processed meats	tonnes	20.4	102.4	9.3	75.9
	Offal	tonnes	218.9	287.3	176.5	196.8
	Intestines	thous.loops	625.6	1 500.7	878.2	4 933.1
	Canned meat	tonnes	81.8	662.0	158.0	1 275.9
Milk	Drinking milk	thous.liters	26 947.7	54 080.8	29 512.9	66 588.1
Dairy products	Milk cream	tonnes	3.8	19.1	3.1	25.0
	Clabber	thous.liters	7 015.3	15 477.3	7 863.5	22 849.5
	Camel milk	thous.liters	8.8	29.4	9.0	34.4
	Dried curds	tonnes	169.8	1 737.1	152.9	1 816.6
	Butter	tonnes	126.7	1 384.8	157.4	1 700.3
	Thick butter	tonnes	1 309.9	3 834.4	260.6	1 611.5
	Clotted milk, sour cream	tonnes	3.7	30.9	218.0	1 068.9
	Clarified butter	tonnes	0.0	0.1	2.9	30.4
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	2.8	50.9	0.0	0.3
	Curds	tonnes	143.0	1 073.8	106.9	770.0
	Casein	tonnes	0.0	0.1	-	-
	Ice-creams	thousand	24 628.4	5 923.1	32 611.8	6 966.2
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	39 946.0	39 176.0	44 514.0	43 715.3
	Wheat flour, first grade	tonnes	145 008.2	110 296.5	148 505.0	110 350.0
	Wheat flour, second grade	tonnes	21 519.2	11 438.2	16 659.5	8 806.7
	Animal fodder	tonnes	67 094.7	23 217.4	58 983.4	17 730.5
Flour products	Bread	tonnes	23 977.3	41 496.8	22 282.9	40 648.5
	Fine pastries	tonnes	15 858.9	44 575.0	15 510.3	43 234.8
	Traditional pastries	tonnes	485.4	1 978.3	483.6	2 110.8
	Cake	tonnes	1 167.1	9 179.1	1 024.9	8 919.3
	Cookies/Biscuits	tonnes	478.8	1 416.2	491.3	1 431.0
	Noodles/ Pastas	tonnes	2 027.5	2 026.5	4 050.5	6 547.5
Alcoholic drinks	Alcohol	thous.liters	8 668.6	31 296.4	8 647.7	35 009.5
	Vodka	thous.liters	21 131.9	144 858.0	23 808.1	203 069.5
	Wine	thous.liters	75.0	352.8	79.5	419.2
	Beers	thous.liters	74 857.2	159 402.7	75 732.3	114 544.4

Continuation of Table 26.

Main products		Meas.unit	2017		2018	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	3 742.4	19 509.5	5 546.4	25 798.2
	Mutton	tonnes	5 886.6	24 205.9	9 202.9	39 998.7
	Horse meat	tonnes	13 393.5	44 491.1	24 015.7	113 210.6
	Chevon	tonnes	2 515.5	8 632.9	6 456.7	25 356.5
	Camel	tonnes	-	-	-	-
	Pork	tonnes	582.3	2 682.4	673.3	3 614.6
Meat products	Ham	tonnes	4 636.3	37 726.1	5 686.8	48 787.6
	Smoked, cooked and other processed meats	tonnes	27.2	278.9	1 870.8	12 987.2
	Offal	tonnes	273.0	397.9	406.3	322.4
	Intestines	thous.loops	779.9	7 241.4	600.9	4 226.8
	Canned meat	tonnes	185.5	1 604.8	233.5	2 118.5
Milk	Drinking milk	thous.liters	33 378.0	60 682.8	38 253.2	76 618.3
Dairy products	Milk cream	tonnes	3.4	29.7	5.1	46.4
	Clabber	thous.liters	10 268.1	24 850.5	13 474.7	32 774.7
	Camel milk	thous.liters	6.7	35.1	9.9	43.2
	Dried curds	tonnes	159.7	2 154.3	144.4	2 094.6
	Butter	tonnes	143.7	1 778.2	142.4	2 431.8
	Thick butter	tonnes	155.9	1 286.8	177.4	1 499.2
	Clotted milk, sour cream	tonnes	195.1	409.9	367.0	1 375.6
	Clarified butter	tonnes	3.5	33.0	158.7	600.8
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	2.0	36.9	10.4	176.9
	Curds	tonnes	137.9	948.5	221.4	3 345.9
	Casein	tonnes	0.0	0.1	0.0	0.2
	Ice-creams	thousand	39 615.1	11 984.7	100 658.8	25 209.9
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	47 213.9	47 556.4	68 309.8	72 809.4
	Wheat flour, first grade	tonnes	142 257.6	108 009.3	150 802.1	117 146.2
	Wheat flour, second grade	tonnes	19 052.6	9 442.2	19 791.4	10 748.8
	Animal fodder	tonnes	95 964.0	32 725.2	108 238.3	38 748.9
Flour products	Bread	tonnes	23 829.8	44 564.5	27 436.2	53 076.9
	Fine pastries	tonnes	17 237.7	50 808.5	18 952.9	59 207.6
	Traditional pastries	tonnes	511.3	2 019.1	509.4	2 242.3
	Cake	tonnes	1 621.6	14 118.3	2 143.6	19 542.5
	Cookies/Biscuits	tonnes	355.5	1 160.1	317.9	1 082.4
	Noodles/ Pastas	tonnes	6 998.5	10 530.2	7 561.8	10 368.3
Alcoholic drinks	Alcohol	thous.liters	8 854.5	29 752.0	10 581.4	33 924.7
	Vodka	thous.liters	24 647.3	215 622.4	28 802.6	258 219.0
	Wine	thous.liters	102.6	495.9	110.3	589.9
	Beers	thous.liters	82 415.2	102 528.4	91 246.0	117 087.0

Continuation of Table 27.

Main products		Meas.unit	2009		2010	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	5 258.0	1 231.9	5 453.0	1 412.5
	Cattle	heads	798.0	194.1	-	-
	Sheep and goat	heads	1 169.0	68.5	-	-
Meat	Frozen beef	thous.tonnes	8.8	17 789.1	3.8	8 063.9
	Mutton	tonnes	290.0	435.0	1 650.1	5 014.4
	Horse meat	thous.tonnes	8.6	14 464.2	10.9	18 971.0
	Chevon	tonnes	295.2	339.4	10 432.0	20 835.7
	Pork	tonnes	0.0	0.0	3.0	2.5
Meat products	Offal	thous.tonnes	0.6	430.8	2.0	1 499.5
	Intestines, bladder, tripe	thous.tonnes	0.6	5 702.6	0.9	8 274.2
	Ham, sausage	tonnes	411.4	2.3	40.0	0.1
	Smoked, dried meat and offal	tonnes	0.8	2.0	-	-
Milk, dairy products	Drinking milk, milk cream	thous.liters	-	-	18.0	0.4
	Clabber and dairy products	kilograms	142.0	0.3	20 000.0	20.0
	Butter	kilograms	20.0	0.1	-	-
	Cheese and dried curds	kilograms	10 000.0	20.0	-	-
Flour, flour products	Wheat flour, high grade	kilograms	-	-	1 800.0	0.9
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	tonnes	-	-	65.0	15.2
	Noodles, dumplings, couscous	kilograms	-	-	-	-
Alcohol	Vodka	thous.liters	70.0	231.0	114.5	260.5
	Wine	liters	9.8	0.0	7 015.9	4.5
	Beer	thous.liters	6.1	4.6	12.6	3.1

Continuation of Table 27.

Main products		Meas.unit	2011		2012	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	41.0	55.7	41.0	36.1
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	thous.tonnes	5.8	13 926.1	1.0	3 301.3
	Mutton	tonnes	96.0	188.3	103.6	289.6
	Horse meat	thous.tonnes	3.9	8 837.4	1.5	4 765.3
	Chevon	tonnes	409.0	965.3	571.5	1 485.7
	Pork	tonnes	0.0	0.0	0.0	0.0
Meat products	Offal	thous.tonnes	0.4	196.2	0.8	511.9
	Intestines, bladder, tripe	thous.tonnes	0.9	11 955.2	0.5	10 683.0
	Ham, sausage	tonnes	-	-	-	-

	Smoked, dried meat and offal	tonnes	120.1	13.0	1.8	13.0
Milk, dairy products	Drinking milk, milk cream	thous.liters	-	-	-	-
	Clabber and dairy products	kilograms	22.6	0.9	-	-
	Butter	kilograms	-	-	-	-
	Cheese and dried curds	kilograms	-	-	9.6	0.1
Flour, flour products	Wheat flour, high grade	kilograms	9.0	0.0	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	tonnes	-	-	-	-
	Noodles, dumplings, couscous	kilograms	347.0	0.3	200.0	0.1
Alcohol	Vodka	thous.liters	48.5	218.9	13.4	147.3
	Wine	liters	0.0	0.0	360.0	1.2
	Beer	thous.liters	1.8	0.4	17.1	13.7

Continuation of Table 27.

Main products		Meas.unit	2013		2014	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	47.0	32.9	73.1	37.8
	Cattle	heads	0.0	0.0	-	-
	Sheep and goat	heads	0.0	0.0	-	-
Meat	Frozen beef	thous.tonnes	0.0	0.0	0.5	1 590.6
	Mutton	tonnes	403.4	2 209.3	-	-
	Horse meat	thous.tonnes	2.6	7 573.0	1.8	4 971.5
	Chevon	tonnes	-	-	-	-
	Pork	tonnes	-	-	-	-
Meat products	Offal	thous.tonnes	0.8	1 320.9	0.2	238.9
	Intestines, bladder, tripe	thous.tonnes	0.6	11 716.5	0.4	8 036.8
	Ham, sausage	tonnes	-	-	-	-
	Smoked, dried meat and offal	tonnes	-	-	65.0	277.5
Milk, dairy products	Drinking milk, milk cream	thous.liters	-	-	-	-
	Clabber and dairy products	kilograms	12.0	0.1	13.2	0.1
	Butter	kilograms	-	-	-	-
	Cheese and dried curds	kilograms	84.8	1.2	-	-
Flour, flour products	Wheat flour, high grade	kilograms	-	-	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	tonnes	1 850.0	508.8	-	-
	Noodles, dumplings, couscous	kilograms	11 350.0	32.4	5 741.0	5.0
Alcohol	Vodka	thous.liters	137.0	1 061.9	53.1	394.6
	Wine	liters	-	-	1 037.3	10.0
	Beer	thous.liters	0.0	0.7	6.3	9.1

Continuation of Table 27.

Main products		Meas.unit	2015		2016	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	8 923.0	2 986.8	6 472.0	1 539.0
	Cattle	heads	97.0	21.9	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	thous.tonnes	0.8	2 621.9	0.7	1 592.3
	Mutton	tonnes	2.0	6.4	127.8	1 432.4
	Horse meat	thous.tonnes	3.8	7 318.5	8.2	14 392.6
	Chevon	tonnes	37.0	110.6	110.2	159.6
	Pork	tonnes	-	-	-	-
Meat products	Offal	thous.tonnes	0.4	88.3	0.8	59.2
	Intestines, bladder, tripe	thous.tonnes	0.5	8 870.0	0.5	6 645.2
	Ham, sausage	tonnes	1 340.4	5.3	12 524.8	38.1
	Smoked, dried meat and offal	tonnes	7.3	28.5	23.0	93.9
Milk, dairy products	Drinking milk, milk cream	thous.liters	-	-	0.4	0.4
	Clabber and dairy products	kilograms	1 300.0	3.8	23 274.8	53.6
	Butter	kilograms	9.9	0.1	1 690.0	6.5
	Cheese and dried curds	kilograms	130.0	0.7	10 542.1	55.4
Flour, flour products	Wheat flour, high grade	kilograms	-	-	4 885.0	2.3
	Wheat flour, first grade	kilograms	1 380.8	692.0	0.1	0.1
	Wheat flour, second grade	tonnes	-	-	0.1	-
	Noodles, dumplings, couscous	kilograms	11 925.0	13.3	83 438.0	175.2
Alcohol	Vodka	thous.liters	17.9	92.8	30.2	141.8
	Wine	liters	1 560.0	13.7	1 525.5	13.0
	Beer	thous.liters	75.4	75.1	162.4	1 183.0

Continuation of Table 27.

Main products		Meas.unit	2017		2018	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	117.0	110.0	171.0	180.1
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	687.0	624.5	1 050.0	40.7
Meat	Frozen beef	thous.tonnes	0.6	1 643.3	1.1	3 175.8
	Mutton	tonnes	2 601.6	8 267.0	6 131.1	15 567.7
	Horse meat	thous.tonnes	26.1	44 529.2	32.2	64 974.0
	Chevon	tonnes	-	-	1.5	2 643.2
	Pork	tonnes	-	-	0.0	0.0
Meat products	Offal	thous.tonnes	0.1	189.4	1.6	2 179.7
	Intestines, bladder, tripe	thous.tonnes	0.5	6 440.2	0.6	8 683.6
	Ham, sausage	tonnes	25 310.5	126.3	158 690.0	620.8
	Smoked, dried meat and offal	tonnes	29.4	233.4	18.7	131.3
Milk, dairy products	Drinking milk, milk cream	thous.liters	1.4	2.3	2.0	2.0

	Clabber and dairy products	kilograms	65 776.9	441.8	30 306.0	91.6
	Butter	kilograms	117.3	0.8	375.0	6.2
	Cheese and dried curds	kilograms	15 097.6	127.5	6 071.0	76.6
Flour, flour products	Wheat flour, high grade	kilograms	70 000.0	21.0	4 000.0	1.5
	Wheat flour, first grade	kilograms	100.0	0.0	-	-
	Wheat flour, second grade	tonnes	65 000.0	16.8	-	-
	Noodles, dumplings, couscous	kilograms	57 764.6	46.9	37 245.7	29.8
Alcohol	Vodka	thous.liters	14.4	65.3	28.9	149.8
	Wine	liters	11 386.5	58.2	144.0	2.8
	Beer	thous.liters	329.7	473.2	360.7	382.9

Table 28. Import of main products

Main products		Meas.unit	2007		2008	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	69.0	31.6	124.0	137.0
	Cattle	heads	143.0	27.9	299.0	307.7
	Pigs	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	tonnes	0.0	0.0	2.5	38.6
	Frozen beef	kilograms	7 060.4	71.1	8.0	1.2
	Mutton	kilograms	921.1	7.2	246.2	2.4
	Chevon	kilograms	-	-	-	-
	Pork	tonnes	56.0	96.7	83.2	145.5
Meat products	Offal	kilograms	-	-	6.0	0.1
	Ham, sausage	tonnes	6.1	17.1	10.1	34.2
	Smoked, dried meat and offal	tonnes	7.5	21.0	0.5	4.7
Milk, dairy products	Drinking milk, milk cream	thous.liters	3 464.6	1 881.0	4 849.9	3 821.7
	Clabber, dairy products	tonnes	557.9	795.0	665.9	1 283.8
	Butter	tonnes	114.5	223.6	77.1	212.8
	Cheese, dried curds	tonnes	333.6	1 051.7	232.8	1 170.0
Flour, flour products	Wheat flour, high grade	thous. tonnes	15.6	5 096.2	30.9	14 295.0
	Wheat flour, first grade	thous. tonnes	92.1	23 014.8	97.6	38 892.2
	Wheat flour, second grade	tonnes	4 651.0	937.2	4 340.1	1 497.2
	Noodles, dumplings, couscous	thous. tonnes	4.3	2 834.0	5.7	5 685.0
	Bread, bakery products	tonnes	0.9	0.4	6.4	16.2
Alcohol	Ethyl alcohol	liters	-	-	-	-
	Vodka	thous. liters	29.4	201.8	41.9	372.8
	Wine	million liters	2.6	5 515.4	2.2	5 500.8
	Beer	million liters	17.0	10 777.8	20.5	13 621.3

Continuation of Table 28.

Main products		Meas.unit	2009		2010	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	72.0	111.5	436.0	294.6
	Cattle	heads	50.0	33.8	178.0	90.8
	Pigs	heads	-	-	60.0	15.7
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	tonnes	1.4	14.0	12.1	144.9
	Frozen beef	kilograms	18.5	0.8	0.0	0.0
	Mutton	kilograms	-	-	2 832.6	36.1
	Chevon	kilograms	-	-	-	-
	Pork	tonnes	14.0	25.6	246.0	531.8
Meat products	Offal	kilograms	0.0	0.0	15 051.0	12.9
	Ham, sausage	tonnes	10.3	35.7	74.0	325.1
	Smoked, dried meat and offal	tonnes	0.3	2.2	105.7	325.1
Milk, dairy products	Drinking milk, milk cream	thous. liters	993.6	771.9	194.1	220.5
	Clabber, dairy products	tonnes	643.5	1 062.6	690.1	1 247.8
	Butter	tonnes	83.2	194.4	106.1	440.4
	Cheese, dried curds	tonnes	141.0	554.3	275.3	1 163.3
Flour, flour products	Wheat flour, high grade	thous. tonnes	32.5	10 174.8	17.1	4 961.8
	Wheat flour, first grade	thous. tonnes	69.4	19 234.6	45.6	10 088.1
	Wheat flour, second grade	tonnes	3 767.5	1 021.3	2 137.5	514.5
	Noodles, dumplings, couscous	thous. tonnes	6.3	5 502.4	8.8	7 992.8
	Bread, bakery products	tonnes	22.0	16.6	17.9	22.5
Alcohol	Ethyl alcohol	liters	-	-	-	-
	Vodka	thous. liters	27.7	350.5	34.9	575.1
	Wine	million liters	1.1	2 650.0	2.0	4 696.3
	Beer	million liters	10.6	7 254.1	18.8	12 166.3

Continuation of Table 28.

Main products		Meas.unit	2011		2012	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	166.0	112.6	270.0	209.1
	Cattle	heads	446.0	1 284.9	176.0	1 141.8
	Pigs	heads	510.0	333.8	150.0	98.0
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	tonnes	15.4	263.6	16.1	288.6
	Frozen beef	kilograms	1 265.5	23.6	11 817.8	56.9
	Mutton	kilograms	7 290.8	104.5	17 826.4	133.4
	Chevon	kilograms	-	-	13.2	0.1
	Pork	tonnes	1 151.6	3 414.7	1 728.6	5 027.1
Meat products	Offal	kilograms	30 516.0	31.0	50 709.7	72.3
	Ham, sausage	tonnes	23.0	105.9	36.6	104.2
	Smoked, dried meat and offal	tonnes	21.2	64.5	5.1	10.3
Milk, dairy products	Drinking milk, milk cream	thous. liters	121.4	151.7	729.6	800.9
	Clabber, dairy products	tonnes	803.2	1 600.8	822.7	1 798.9

	Butter	tonnes	101.4	450.4	108.3	493.8
	Cheese, dried curds	tonnes	346.4	1 692.8	493.4	2 114.5
Flour, flour products	Wheat flour, high grade	thous. tonnes	28.9	11 259.5	22.7	8 424.9
	Wheat flour, first grade	thous. tonnes	37.9	12 531.4	26.4	7 839.1
	Wheat flour, second grade	tonnes	10.4	2.9	0.5	0.2
	Noodles, dumplings, couscous	thous. tonnes	11.2	12 650.6	12.2	17 137.4
	Bread, bakery products	tonnes	15.4	29.7	5.9	7.8
Alcohol	Ethyl alcohol	liters	-	-	2 001.0	12.5
	Vodka	thous. liters	163.6	1 393.7	199.0	2 633.0
	Wine	million liters	2.9	7 444.6	2.9	7 934.8
	Beer	million liters	21.9	13 501.3	28.7	18 030.7

Continuation of Table 28.

Main products		Meas.unit	2013		2014	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	144.0	130.6	159.0	123.5
	Cattle	heads	50.0	370.6	885.0	3 271.0
	Pigs	heads	277.0	181.6	-	-
	Sheep and goat	heads	214.0	214.1	48.0	13.5
Meat	Fresh beef	tonnes	11.2	217.7	4.1	77.8
	Frozen beef	kilograms	70 807.5	276.7	2 752.9	56.3
	Mutton	kilograms	1 022.1	17.4	-	-
	Chevon	kilograms	-	-	-	-
	Pork	tonnes	1 643.0	4 606.6	1 981.9	5 001.1
Meat products	Offal	kilograms	69 760.0	81.6	192 741.5	236.7
	Ham, sausage	tonnes	62.9	216.7	56.4	218.4
	Smoked, dried meat and offal	tonnes	48.9	247.0	57.2	323.1
Milk, dairy products	Drinking milk, milk cream	thous. liters	189.5	254.3	191.6	243.2
	Clabber, dairy products	tonnes	1 110.1	2 231.3	904.4	1 716.8
	Butter	tonnes	139.4	637.2	143.2	727.2
	Cheese, dried curds	tonnes	801.9	3 608.8	889.0	3 872.0
Flour, flour products	Wheat flour, high grade	thous. tonnes	17.1	7 903.1	13.5	5 444.4
	Wheat flour, first grade	thous. tonnes	5.5	1 739.9	3.1	1 001.2
	Wheat flour, second grade	tonnes	0.9	1.2	12.4	6.7
	Noodles, dumplings, couscous	thous. tonnes	13.7	21 559.0	11.2	18 294.5
	Bread, bakery products	tonnes	5.9	13.4	10.1	23.0
Alcohol	Ethyl alcohol	liters	78.3	0.8	763.0	12.5
	Vodka	thous. liters	422.9	5 706.7	459.0	7 039.3
	Wine	million liters	2.2	7 644.6	2.3	7 644.7
	Beer	million liters	33.2	18 840.1	21.7	11 737.2

Continuation of Table 28.

Main products		Meas.unit	2015		2016	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	434.0	389.8	279.0	179.3
	Cattle	heads	5.0	1.6	122.0	253.1
	Pigs	heads	300.0	53.4	220.0	151.2
	Sheep and goat	heads	20.0	5.0	117.0	40.2
Meat	Fresh beef	tonnes	2.7	47.0	5.4	107.5
	Frozen beef	kilograms	1 973.2	44.2	78 316.0	178.9
	Mutton	kilograms	-	-	36 871.0	57.1
	Chevon	kilograms	-	-	23 830.0	33.4
	Pork	tonnes	1 795.9	3 469.4	1 591.4	3 964.2
Meat products	Offal	kilograms	322 197.0	319.5	95 218.0	87.1
	Ham, sausage	tonnes	90.7	288.8	42.7	137.3
	Smoked, dried meat and offal	tonnes	37.1	186.5	39.5	169.1
Milk, dairy products	Drinking milk, milk cream	thous. liters	197.2	161.6	4.5	4.4
	Clabber, dairy products	tonnes	856.0	1 135.2	783.9	1 068.4
	Butter	tonnes	224.2	847.2	292.3	1 064.1
	Cheese, dried curds	tonnes	924.7	3 558.3	720.7	2 648.9
	Wheat flour, high grade	thous. tonnes	8.9	2 999.9	21.0	5 916.6
Flour, flour products	Wheat flour, first grade	thous. tonnes	10.8	2 855.2	8.4	2 148.2
	Wheat flour, second grade	tonnes	-	-	480.0	108.6
	Noodles, dumplings, couscous	thous. tonnes	10.9	16 397.5	10.2	14 472.3
	Bread, bakery products	tonnes	51.3	204.0	69.0	250.7
	Alcohol	Ethyl alcohol	liters	533.7	3.4	377.0
Vodka		thous. liters	417.1	4 865.7	769.2	5 411.9
Wine		million liters	1.8	5 931.6	1.7	4 980.8
Beer		million liters	15.9	7 193.5	16.7	6 861.9

Continuation of Table 28.

Main products		Meas.unit	2017		2018	
			Quantity	Price /thousand US \$/	Quantity	Price /thousand US \$/
Livestock	Horse	heads	371.0	232.8	367.0	261.2
	Cattle	heads	370.0	627.6	-	-
	Pigs	heads	-	-	-	-
	Sheep and goat	heads	687.0	624.6	200.0	138.9
Meat	Fresh beef	tonnes	4.2	85.8	-	-
	Frozen beef	kilograms	1 865.0	32.1	3 165.3	80.5
	Mutton	kilograms	-	-	-	-
	Chevon	kilograms	-	-	-	-
	Pork	tonnes	2 430.5	6 023.2	3 061.9	6 896.2
Meat products	Offal	kilograms	176 426.0	187.7	278 411.0	355.7
	Ham, sausage	tonnes	187.3	404.5	40.3	123.6
	Smoked, dried meat and offal	tonnes	6.5	43.5	28.7	121.3
Milk, dairy products	Drinking milk, milk cream	thous. liters	61.3	234.1	101.5	309.6
	Clabber, dairy products	tonnes	1 133.9	1 852.2	1 475.5	2 514.8

Butter	Cheese, dried curds	tonnes	408.8	1 918.3	327.5	1 659.5
		tonnes	1 067.0	4 203.4	1 396.2	5 488.5
Flour, flour products	Wheat flour, high grade	thous. tonnes	-	-	-	-
	Wheat flour, first grade	thous. tonnes	-	-	-	-
	Wheat flour, second grade	tonnes	-	-	-	-
	Noodles, dumplings, couscous	thous. tonnes	11.4	17 535.9	12.6	21 731.3
Alcohol	Bread, bakery products	tonnes	97.6	473.2	41.7	266.5
	Ethyl alcohol	liters	-	-	520.8	2.4
	Vodka	thous. liters	882.1	8 788.7	1 169.7	11 249.5
	Wine	million liters	2.3	7 799.1	2.7	9 129.9
	Beer	million liters	6.3	3 781.3	7.4	4 762.3

Table 29. Production of vodka, beer, alcohol, by volume

Products	2007	2008	2009	2010	2011	2012
	Thousand liters					
Production	36 685.0	43 465.7	57 447.1	68 884.3	86 170.1	95 324.3
Export	111.6	103.9	76.1	134.2	50.3	30.9
Import	19 629.4	22 741.9	11 727.7	20 834.9	24 963.6	31 799.0
Supply of production and import	56 202.8	66 103.7	69 098.7	89 585.0	111 083.4	127 092.4

Continuation of Table 29.

Products	2013	2014	2015	2016	2017	2018
	Thousand liters					
Production	98 566.8	101 124.8	104 732.7	108 267.6	116 019.6	130 740.2
Export	137.1	60.4	94.9	194.0	355.5	389.7
Import	35 531.6	24 359.0	18 117.1	19 069.2	9 482.1	11 211.0
Supply of production and import	133 961.3	125 423.4	122 754.9	127 142.8	125 146.2	141 561.5

Table 30. Amount of vodka, per capita, by volume, population

Production	2007	2008	2009	2010	2011	2012
	liters					
Per capita of total population	4.7	5.8	6.4	7.4	9.2	9.5
18 and above	7.3	8.9	9.7	11.0	13.6	14.0
21 and above	8.2	9.9	10.9	12.3	15.0	15.3

	Butter	tonnes	408.8	1 918.3	327.5	1 659.5
	Cheese, dried curds	tonnes	1 067.0	4 203.4	1 396.2	5 488.5
Flour, flour products	Wheat flour, high grade	thous. tonnes	-	-	-	-
	Wheat flour, first grade	thous. tonnes	-	-	-	-
	Wheat flour, second grade	tonnes	-	-	-	-
	Noodles, dumplings, couscous	thous. tonnes	11.4	17 535.9	12.6	21 731.3
	Bread, bakery products	tonnes	97.6	473.2	41.7	266.5
Alcohol	Ethyl alcohol	liters	-	-	520.8	2.4
	Vodka	thous. liters	882.1	8 788.7	1 169.7	11 249.5
	Wine	million liters	2.3	7 799.1	2.7	9 129.9
	Beer	million liters	6.3	3 781.3	7.4	4 762.3

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Products	2007	2008	2009	2010	2011	2012
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Continuation of Table 29.

Products	2013	2014	2015	2016	2017	2018
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Table 30. Amount of vodka, per capita, by volume, population

Production	2007	2008	2009	2010	2011	2012
	liters					
Per capita of total population	4.7	5.8	6.4	7.4	9.2	9.5
18 and above	7.3	8.9	9.7	11.0	13.6	14.0
21 and above	8.2	9.9	10.9	12.3	15.0	15.3

Continuation of Table 30

Production	2013	2014	2015	2016	2017	2018
	liters					
Per capita of total population	8.7	8.3	7.1	8.1	8.3	9.6
18 and above	12.5	12.0	10.5	12.7	13.0	14.8
21 and above	13.6	13.0	11.4	13.3	13.6	15.8

Table 31. Safe drinking water production, by volume

Production	2007	2008	2009	2010	2011	2012
	Thousand liters					
Fresh and mineral water	12 468.6	17 506.4	16 657.3	24 311.5	31 827.7	33 203.6

Continuation of Table 31

Production	2013	2014	2015	2016	2017	2018
	Thousand liters					
Fresh and mineral water	38 300.0	50 188.6	58 224.0	59 104.7	60 682.0	73 740.3

Table 32. Drinking water supply

Description	2007	2008	2009	2010	2011	2012
Number of water distribution points	1 164	1 245	1 230	1 288	1 368	1 401
Number of water transport vehicles	156	174	170	165	164	173
Households using portable water	313 656	332 039	386 501	416 862	433 213	439 834

Continuation of Table 32

Description	2013	2014	2015	2016	2017	2018
Number of water distribution points	1 497	1 617	1 725	1 779	1 870	1 925
Number of water transport vehicles	185	178	191	198	206	213
Households using portable water	460 516	467 742	482 354	483 508	471 317	506 661

Tables 33. Number of workers, by sector

Description	2007	2008	2009	2010	2011	2012
	Thousand people					
Total	1 024.1	1 041.7	1 006.3	1 033.7	1 037.7	1 056.4
Agriculture, forestry, fishing, hunting	385.6	377.6	348.8	346.6	342.8	370.0
Mining and extraction	44.1	46.5	34.8	34.1	45.1	46.7
Processing industry	47.9	47.5	62.7	64.8	65.8	64.9
Electricity, gas, steam and ventilation supply	31.1	30.1	9.5	12.4	11.9	14.5
Water supply, wastewater treatment and waste management	-	-	6.1	7.8	5.1	6.7
Construction	60.0	66.8	49.6	48.8	52.0	59.2
Wholesale and retail trade, repair of machinery and motorcycles	162.2	169.7	160.3	146.2	152.5	131.3
Transportation and storage service	33.2	35.8	68.7	76.5	75.8	56.1
Accommodation and food service	32.4	34.5	23.3	27.7	26.4	30.2
Information and communication service	10.9	10.5	10.2	14.5	11.5	14.7

Financial and insurance service	17.4	19.8	12.3	15.2	16.6	17.4
Real estate industry	14.5	12.0	0.2	0.5	0.3	1.2
Professional scientific and technical service	-	-	10.9	9.5	11.4	11.3
Administration and supportive service	-	-	8.9	9.4	9.2	13.3
Public administration and defense activities and social security service	48.5	50.9	56.1	61.0	55.6	62.9
Education	64.8	66.2	74.9	85.3	85.5	86.3
Health and social activities	40.2	42.3	35.7	40.3	36.4	37.5
Arts, entertainment and festivals	-	-	6.9	8.5	7.8	7.4
Other service activities	19.7	19.7	22.3	21.4	21.8	19.8
Household activities that employ people	7.5	7.7	1.9	0.9	1.8	1.3
Others	4.1	4.1	2.2	2.3	2.4	3.7

Continuation of Table 33

Description	2013	2014	2015	2016	2017	2018
	Thousand people					
Total	1 103.6	1 110.7	1 151.2	1 147.8	1 238.3	1 253.0
Agriculture, forestry, fishing, hunting	329.1	310.7	327.6	348.5	356.4	334.1
Mining and extraction	50.3	40.9	42.6	38.2	52.0	57.7
Processing industry	81.0	85.5	81.3	86.1	93.1	100.8
Electricity, gas, steam and ventilation supply	13.8	15.5	15.6	16.2	17.5	16.3
Water supply, wastewater treatment and waste management	7.9	7.1	5.9	6.0	4.9	6.9
Construction	72.4	81.1	88.1	71.5	70.6	76.6
Wholesale and retail trade, repair of machinery and motorcycles	156.0	170.2	178.2	172.7	204.5	211.2
Transportation and storage service	65.9	69.8	72.7	65.9	72.7	73.6
Accommodation and food service	31.7	36.6	37.8	32.1	36.4	37.5
Information and communication service	16.7	17.8	16.0	18.1	14.5	14.1
Financial and insurance service	20.9	22.9	23.8	21.9	24.1	25.7
Real estate industry	0.8	1.1	1.0	0.8	0.4	0.8
Professional scientific and technical service	13.6	12.5	14.1	12.7	12.7	14.6
Administration and supportive service	15.0	12.0	16.0	15.0	20.8	18.2
Public administration and defense activities and social security service	65.3	66.1	68.1	74.2	82.2	76.2
Education	89.8	89.6	89.1	95.0	98.9	98.7
Health and social activities	40.4	37.5	38.2	41.0	40.0	49.5
Arts, entertainment and festivals	9.2	10.6	12.3	10.1	10.1	13.8
Other service activities	20.2	20.1	20.2	19.8	22.7	23.4
Household activities that employ people	1.4	1.4	1.0	1.1	2.3	1.2
Others	2.2	1.6	1.7	1.1	1.5	2.3