



INDICATORS FOR FOOD SECURITY STATISTICS

—
2020

Ulaanbaatar
2021





**NATIONAL
STATISTICS OFFICE
OF MONGOLIA**

INDICATORS FOR FOOD SECURITY STATISTICS 2020

ULAANBAATAR
2021

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CONTENT

FOREWORD	4
ONE. STATISTICAL INDICATORS FOR FOOD AVAILABILITY	5
TWO. STATISTICAL INDICATORS FOR FOOD ACCESSIBILITY	9
THREE. DIETARY ENERGY AND NUTRIENTS	12
FOUR. INDICATORS FOR FOOD SAFETY STATISTICS	13
FIVE. CONCLUSION	19
ANNEXES	20

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
HACCP	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 2020, the number of Mongolian resident population was at 3253.3 thousand which had been increased by 56.3 thousand people or 1.8% and the standard population was at 2630.0 thousand which had been increased by 46.5 thousand people or 1.8%.

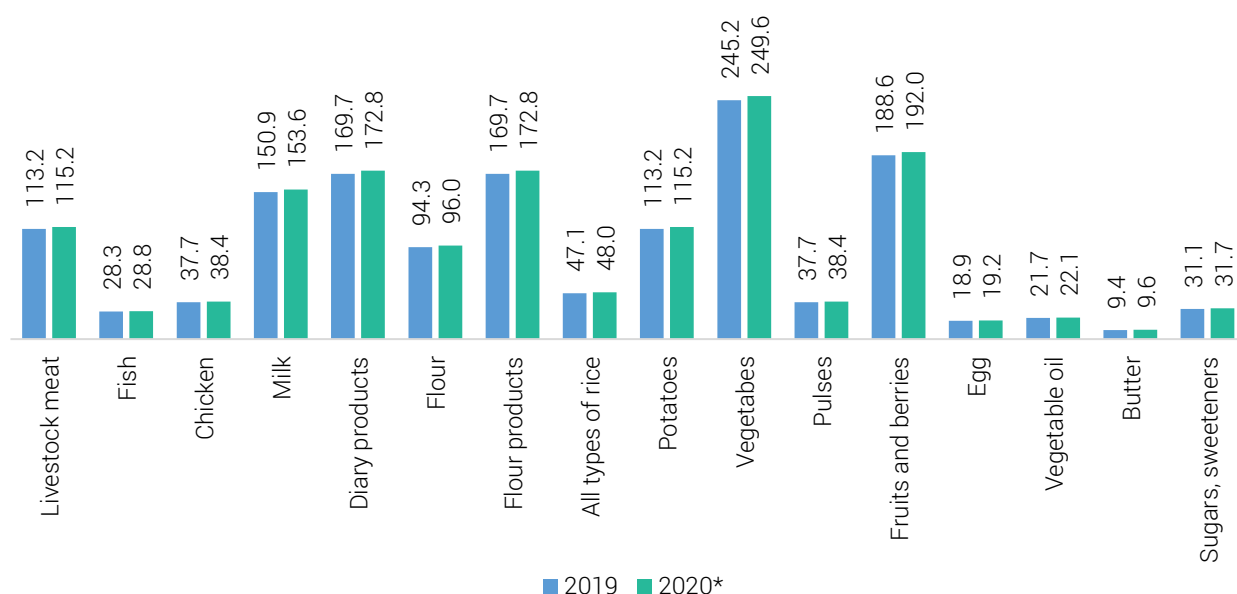
TABLE 1. POPULATION

	2017	2018	2019	2020*	Increase	
	thousand people				difference	%
Number of resident population	3 131.8	3 186.3	3 197.0	3 253.3	56.3	1.8
Number of standard population*	2 540.7	2 577.2	2 583.5	2 630.0	46.5	1.8

* 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 2020, the national demand for food estimated at 182.4 thousand tonnes of meat and meat products, 153.6 thousand tonnes of milk, 172.8 thousand tonnes of dairy products, 96.0 thousand tonnes of flour, 172.8 thousand tonnes of flour products, 48.0 thousand tonnes of rice, 31.7 thousand tonnes of sugar and sweeteners, 115.2 thousand tonnes of potatoes, 249.6 thousand tonnes of vegetables, 38.4 thousand tonnes of pulses, 192.0 thousand tonnes of fruits and berries, 19.2 thousand tonnes of eggs, 22.1 thousand tonnes of vegetable oil and 9.6 thousand tonnes of butter. (Table 2).

Figure 1. Annual food demand for standard population, thousand tonnes



Annual food demand for standard population was increased by 0.2-4.4 thousand tonnes compared to previous year. The biggest increase was recorded in demand for milk, dairy products, meat, fruits, vegetables by 2.7-4.4 thousand tonnes.

TABLE 2. ANNUAL FOOD DEMAND FOR STANDARD POPULATION

Food categories	Annual food consumption of standard person*	Annual food demand of standard population			
		2017	2018	2019	2020*
	kilogramm	thousand tonnes			
Meat and meat products	69.4	176.2	178.7	179.2	182.4
Livestock meat	43.8	111.3	112.9	113.2	115.2
Fish	11.0	27.8	28.2	28.3	28.8
Poultry	14.6	37.1	37.6	37.7	38.4
Milk	58.4	148.4	150.5	150.9	153.6
Dairy products	65.7	166.9	169.3	169.7	172.8
Flour and flour products	102.2	259.7	263.4	264.0	268.8
Flour	36.5	92.7	94.1	94.3	96.0
Flour products	65.7	166.9	169.3	169.7	172.8
All types of grains	18.3	46.4	47.0	47.1	48.0
Potatoes	43.8	111.3	112.9	113.2	115.2
Vegetables	94.9	241.1	244.6	245.2	249.6
Pulses	14.6	37.1	37.6	37.7	38.4
Fruits and berries	73.0	185.5	188.1	188.6	192.0
Eggs	7.3	18.5	18.8	18.9	19.2
Vegetable oil	8.4	21.3	21.6	21.7	22.1
Butter	3.7	9.3	9.4	9.4	9.6
Sugars, sweeteners	12.0	30.6	31.0	31.1	31.7

Source: MoH

3. Production. In 2020, total of 1.0 million tonnes of milk, 649.1 thousand tonnes of meat and meat products, 244.3 thousand tonnes of potatoes, 235.3 thousand tonnes of flour and flour products, 126.5 thousand tonnes of sugars, sweeteners, 121.2 thousand tonnes of vegetables, 8.5 thousand tonnes of eggs, 1.6 thousand tonnes of fruits and berries and 0.2 thousand tonnes of butter were produced domestically.

TABLE 3. TOTAL PRODUCTION, tonnes

Food categories	2019		2020*		Changes rate, %
	Domestic production	Export	Domestic production	Export	Domestic production
Meat and meat products	488 343.4	39 059.0	649 121.1	20 664.6	32.9
Livestock meat	487 843.1	39 028.7	648 548.8	20 630.9	32.9
Fish	30.3	30.3	33.7	33.7	11.1
Poultry	470.0	0.0	538.7	0.0	14.6
Milk	956 767.8	0.0	1 004 998.2	0.0	5.0
Dairy products	117 466.3	30.8	77 390.2	481.0	-34.1
Flour and flour products	209 370.4	111.9	235 286.1	20.3	12.4
Flour	164 384.3	5.0	191 120.9	0.2	16.3

Food categories	2019		2020*		Changes rate, %
	Domestic production	Export	Domestic production	Export	Domestic production
Flour products	44 986.1	106.9	44 165.2	20.1	-1.8
All types of grains	0.0	0.0	0.0	0.0	-
Potatoes	192 239.9	0.0	244 261.6	0.0	27.1
Vegetables	99 546.6	16.8	121 235.1	84.0	21.8
Pulses	54.3	0.0	19.6	0.0	-63.9
Fruits and berries	1 863.8	30.7	1 665.4	33.6	-10.6
Eggs	8 937.0	0.0	8 482.5	0.0	-5.1
Vegetable oil	263.8	4.1	17.2	0.0	-93.5
Butter	203.9	2.0	250.0	0.3	22.6
Sugars, sweeteners	112 976.6	43.6	126 451.5	37.5	11.9

Source: NSO, GAC

* Preliminary estimation

4. Consumption. In 2020, total of 1.0 million tonnes of milk, 647.8 thousand tonnes of meat and meat products, 262.6 thousand tonnes of flour and flour products, 244.3 thousand tonnes of potatoes, 199.5 thousand tonnes of vegetables were supplied nationally.

TABLE 4. CONSUMPTION, by physical amount, thousand tonnes

Food categories	Consumption		Domestic production		Import	
	2019	2020*	2019	2020*	2019	2020*
Meat and meat products	466.6	647.8	449.3	628.5	17.3	19.3
Livestock meat	450.1	629.4	448.8	627.9	1.2	1.5
Fish	2.9	2.8	0.0	0.0	2.9	2.8
Poultry	13.7	15.6	0.5	0.5	13.2	15.1
Milk	956.9	1 005.1	956.8	1 005.0	0.1	0.1
Dairy Products	169.4	126.3	117.4	76.9	52.0	49.4
Flour, flour products	236.9	262.6	209.3	235.3	27.6	27.4
Flour	168.8	194.5	164.4	191.1	4.4	3.4
Flour products	68.1	68.2	44.9	44.1	23.2	24.0
All types of grains	45.2	56.4	0.0	0.0	45.2	56.4
Potatoes	192.6	244.3	192.2	244.3	0.4	0.0
Vegetables	177.7	199.5	99.5	121.2	78.2	78.3
Pulses	0.1	0.0	0.1	0.0	0.0	0.0
Fruits and berries	54.5	45.8	1.8	1.6	52.6	44.1
Eggs	17.0	16.6	8.9	8.5	8.0	8.1
Vegetable oil	12.7	16.4	0.3	0.0	12.5	16.4
Butter, 72%	0.4	0.5	0.2	0.2	0.2	0.3
Sugars, sweeteners	177.2	192.6	112.9	126.4	64.2	66.2

Source: NSO, GAC

* Preliminary estimation

5. Level of food supply. Meat and meat products, potatoes, sweeteners, all types of grains, milk, vegetable oil, flour, flour products, vegetables and butter supply increased by 0.9-94.8 percentage points each compared to previous year while dairy products, fruits and berries, eggs, pulses supply declined by 0.1-27.0 percentage points.

TABLE 5. FOOD SUPPLY LEVEL

Food categories	Annual food demand for standard population		Consumption		Supply level	
	2019	2020*	2019	2020*	2019	2020*
	thousand tonnes				percentage	
Meat and meat products	179.2	182.4	466.6	647.8	260.4	355.2
Livestock meat	113.2	115.2	450.1	629.4	397.7	546.4
Fish	28.3	28.8	2.9	2.8	10.1	9.6
Poultry	37.7	38.4	13.7	15.6	36.3	40.6
Milk	150.9	153.6	956.9	1 005.1	634.2	654.4
Dairy Products	169.7	172.8	169.4	126.3	99.8	73.1
Flour, flour products	264.0	268.8	236.9	262.6	89.7	97.7
Flour	94.3	96.0	168.8	194.5	179.0	202.6
Flour products	169.7	172.8	68.1	68.2	40.1	39.4
All types of grains	47.1	48.0	45.2	56.4	95.9	117.4
Potatoes	113.2	115.2	192.6	244.3	170.2	212.0
Vegetables	245.2	249.6	177.7	199.5	72.5	79.9
Pulses	37.7	38.4	0.1	0.0	0.2	0.1
Fruits and berries	188.6	192.0	54.5	45.8	28.9	23.8
Eggs	18.9	19.2	17.0	16.6	90.0	86.6
Vegetable oil	21.7	22.1	12.7	16.4	58.8	74.3
Butter, 72%	9.4	9.6	0.4	0.5	4.5	5.4
Sugars, sweeteners	31.1	31.7	177.2	192.6	569.3	608.1

In 2020, the domestic production was enough to satisfy 97.0% of standard population's annual demand for meat and meat products, 100.0% of potatoes, 98.3% of flour, 60.7% of vegetables demands.

TABLE 6. FOOD SUPPLY LEVEL, by sources, 2020

Food categories	Consumption			Supply	
	thousand tonnes	Domestic production	Import	Domestic production	Import
		thousand tonnes			percentage
Meat and meat products	647.8	628.5	19.3	97.0	3.0
Livestock meat	629.4	627.9	1.5	99.8	0.2
Fish	2.8	0.0	2.8	0.0	100.0
Poultry	15.6	0.5	15.1	3.5	96.5
Milk	1 005.1	1 005.0	0.1	100.0	0.0
Dairy Products	126.3	76.9	49.4	60.9	39.1
Flour and flour products	262.6	235.3	27.4	89.6	10.4
Flour	194.5	191.1	3.4	98.3	1.7
Flour products	68.2	44.1	24.0	64.8	35.2
All types of grains	56.4	0.0	56.4	0.0	100.0

Food categories	Consumption			Supply	
	Domestic production	Import	Domestic production	Import	
	thousand tonnes			percentage	
Potatoes	244.3	244.3	0.0	100.0	0.0
Vegetables	199.5	121.2	78.3	60.7	39.3
Pulses	0.0	0.0	0.0	98.0	2.0
Fruits and berries	45.8	1.6	44.1	3.6	96.4
Eggs	16.6	8.5	8.1	51.0	49.0
Vegetable oil	16.4	0.0	16.4	0.1	99.9
Buttter, 72%	0.5	0.2	0.3	48.6	51.4
Sugars, sweeteners	192.6	126.4	66.2	65.6	34.4

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

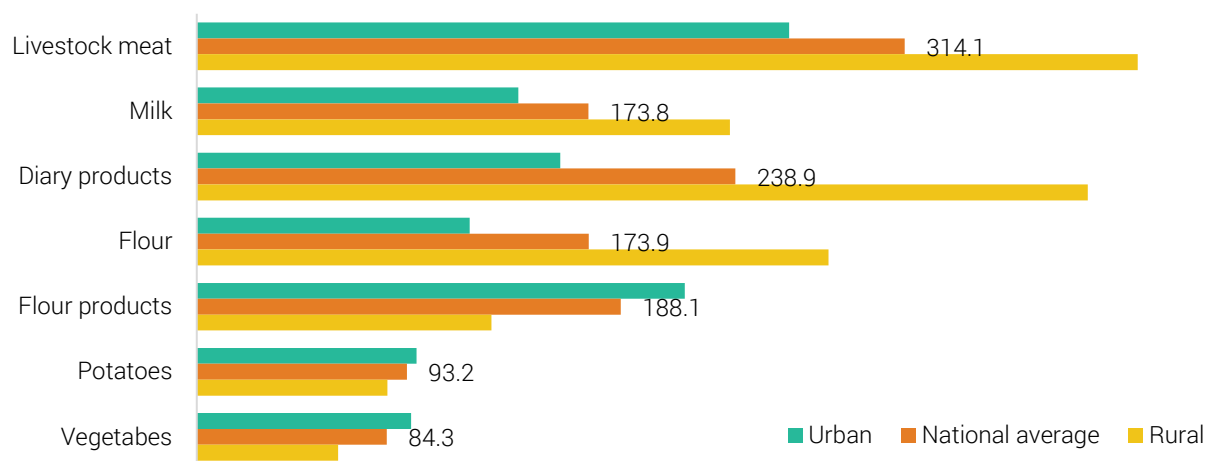
The results from household socio-economic survey showed that the actual consumption of milk and dairy products, flour, meat and meat products, vegetable oil, rice at rural level was higher than the national average, while urban consumption of flour products, vegetables, potatoes, eggs, fruits, butter,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

TABLE 7. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS, 2020

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	319.4	270.3	418.3
Livestock meat	314.1	262.8	417.4
Fish	0.6	0.7	0.4
Poultry	4.7	6.7	0.5
Milk	173.8	142.6	236.5
Dairy Products	238.9	161.3	395.2
Flour	173.9	121.0	280.3
Flour products	188.1	216.5	130.8
All types of grains	63.7	59.0	73.2
Potatoes	93.2	97.5	84.5
Vegetables	84.3	95.1	62.7
Pulses	0.2	0.2	0.0
Fruits and berries	33.3	39.5	20.8
Eggs	14.6	20.0	3.6
Vegetable oil	18.5	13.9	27.8
Butter, 72%	7.2	9.3	2.9
Sugars, sweeteners	49.4	52.6	43.1

Source: Household Socio-Economic Survey, NSO

Figure 2. National average consumption of main food products, grams, 2020



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

TABLE 8. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS DURING COLD SEASONS, 2020

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	324.1	276.7	418.9
Livestock meat	319.4	269.9	418.1
Fish	0.6	0.8	0.3
Poultry	4.2	6.0	0.5
Milk	162.4	138.5	210.1
Dairy Products	231.0	168.9	354.7
Flour	177.3	125.9	279.9
Flour products	184.3	212.7	127.7
All types of grains	63.1	57.8	73.8
Potatoes	94.3	98.4	86.0
Vegetables	84.0	94.0	63.8
Pulses	0.2	0.2	0.0
Fruits and berries	31.2	37.7	18.4
Eggs	13.9	19.2	3.4
Vegetable oil	18.9	14.2	28.4
Butter, 72%	7.3	9.4	3.1
Sugars, sweeteners	47.2	49.9	41.9

Source: Household Socio-Economic Survey, NSO

The results from households socio-economic survey showed that the actual consumption of meat and meat products, milk, dairy products, flour, rice and vegetable oil at rural level in warm seasons, was higher than the national average, while urban consumption of flour products, vegetables, potatoes, fruits and berries, eggs, butter, sugars and sweeteners 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, 2020

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	312.8	261.4	417.5
Livestock meat	306.7	252.9	416.3
Fish	0.7	0.7	0.7
Poultry	5.4	7.8	0.5
Milk	189.6	148.3	273.9
Dairy Products	250.1	150.7	452.7
Flour	169.0	114.3	280.8
Flour products	193.3	221.8	135.2
All types of grains	64.5	60.6	72.4
Potatoes	91.7	96.3	82.4
Vegetables	84.9	96.5	61.1
Pulses	0.2	0.2	0.0
Fruits and berries	36.2	42.1	24.2
Eggs	15.5	21.2	3.8
Vegetable oil	17.9	13.4	26.9
Butter, 72%	7.1	9.3	2.6
Sugars, sweeteners	52.5	56.3	44.6

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, flour products, all types of grains, sugars and sweeteners is sufficient, while accessibility to other foods remain insufficient. The diets of people remain heavily dominated by meat and meat products, milk and flour.

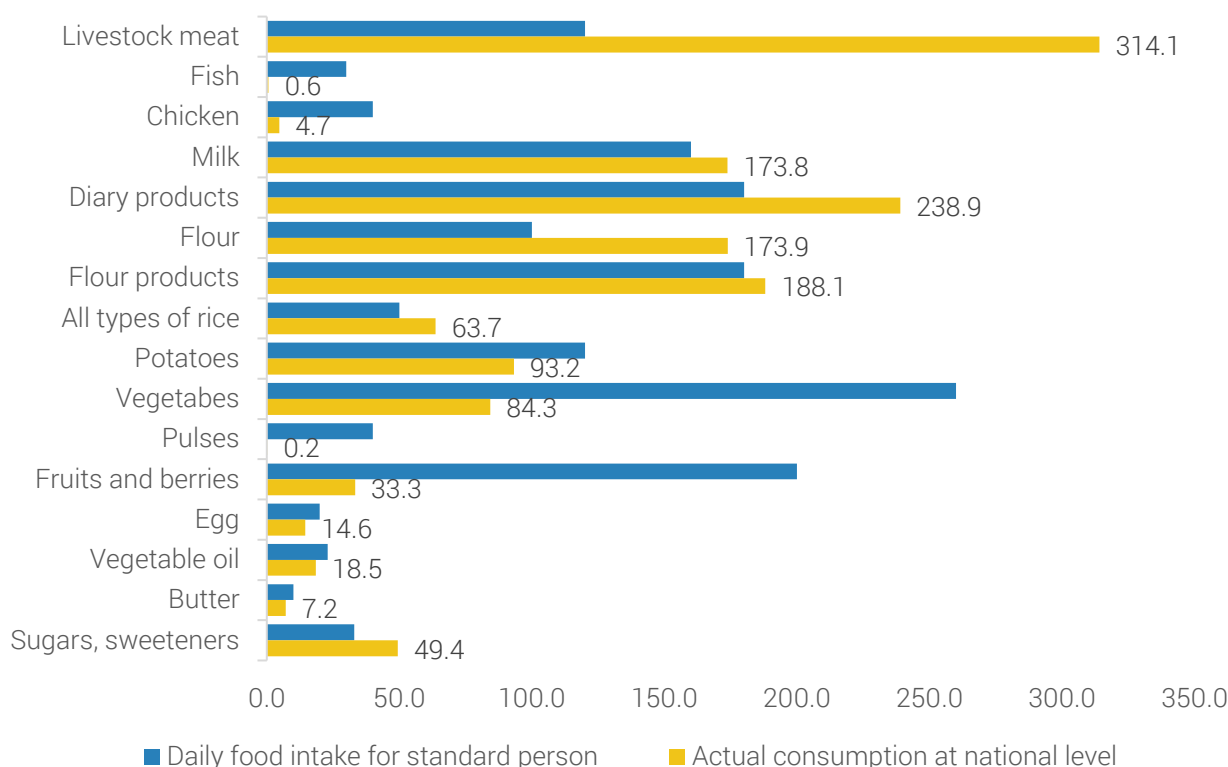
TABLE 10. FOOD ACCESSIBILITY, 2020

Food categories	Daily food intake for standard person	National average			Accessibility		
		National average	warm seasons	cold seasons	National average	warm seasons	cold seasons
	grams				percent		
Meat and meat products	190.0	319.4	312.8	324.1	168.1	164.6	170.6
Livestock meat	120.0	314.1	306.7	319.4	261.7	255.6	266.2
Fish	30.0	0.6	0.7	0.6	2.2	2.4	2.0
Poultry	40.0	4.7	5.4	4.2	11.7	13.5	10.4
Milk	160.0	173.8	189.6	162.4	108.6	118.5	101.5
Dairy Products	180.0	238.9	250.1	231.0	132.7	138.9	128.3
Flour	100.0	173.9	169.0	177.3	173.9	169.0	177.3
Flour products	180.0	188.1	193.3	184.3	104.5	107.4	102.4
All types of grains	50.0	63.7	64.5	63.1	127.4	129.0	126.3
Potatoes	120.0	93.2	91.7	94.3	77.7	76.5	78.6
Vegetables	260.0	84.3	84.9	84.0	32.4	32.6	32.3
Pulses	40.0	0.2	0.2	0.2	0.4	0.4	0.4
Fruits and berries	200.0	33.3	36.2	31.2	16.6	18.1	15.6
Eggs	20.0	14.6	15.5	13.9	72.8	77.4	69.4
Vegetable oil	23.0	18.5	17.9	18.9	80.4	77.7	82.4
Butter, 72%	10.0	7.2	7.1	7.3	71.8	70.5	72.8
Sugars, sweeteners	33.0	49.4	52.5	47.2	149.8	159.0	143.2

Source: Household Socio-Economic Survey, NSO

Meat and meat products, milk, dairy products, flour, flour products, potatoes and all types of grains 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, 2020



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 3111.3 kilocalorie, protein 136.7 grams, fat 71.5 grams, and carbohydrates 481.3 grams, which is 6.6-52.8 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	
		2019	2020*	2019	2020*	2019	2020*
Calorie, kilocalorie	2 400	3 065.3	3 111.3	2 707.8	2 857.2	3 740.2	3 629.6
Protein, grams	90	136.7	137.6	112.0	117.9	183.3	177.7
Fat, grams	67	72.3	71.5	53.7	56.2	107.4	102.6
Carbo-hydrates, grams	360	468.9	481.3	444.7	470.6	514.4	503.1

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 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 3056.9 kilocalorie, protein 137.2 grams, fat 70.5 grams, carbohydrates 469.9 grams, which is 5.3-52.5 percent higher than the recommended daily energy intake value for standard person.

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.

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	
		2019	2020*	2019	2020*	2019	2020*
Calorie, kilocalorie,	2 400	2 930.3	3 056.9	2 717.0	2 870.3	3 343.5	3 429.2
Protein, grams	90	131.5	137.2	115.3	121.4	163.0	168.9
Fat, grams	67	66.4	70.5	55.3	58.8	87.8	93.9
Carbo-hydrates, grams	360	453.4	469.9	440.3	464.5	478.8	480.9

Source: Household Socio-Economic Survey, NSO

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 2020, 310.5 thousand criteria of chemical toxicity, hygiene, radiation pollution, bacteriology and quarantine, of which, 6.7 thousand samples were not met MNS requirement and the level of pollution was 2.1%.

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	2017	2018	2019	2020	Changes rate, %
Confiscated foods	kilograms	5 572.5	425.3	2 891.0	14 782.2	5.1*
	liter	1 574.0	489.8	1 937.6	1 343.0	-30.7
	piece	42 010	20 082	65 825	55 077	-16.3
Returned foods	kilograms	781.7	1 443.4	508.4	198.8	-60.9
	liter	214.0	440.3	115.5	-	-100.0
	piece	12 573	3 659	7 879	2 222	-71.8
Foods removed from shelf	kilograms	611.7	3 012.7	1 518.0	60.0	-96.0
	liter	64.0	84.0	120.0	66.5	-44.6
	piece	6 030.0	36 151.0	11 874.0	1 593.0	-86.6
Disposed off foods	kilograms	8 396.6	12 989.4	2 910.5	3 058.4	5.1
	liter	1 546.1	523.3	2 023.7	1 267.0	-37.4
	piece	39 552	67 755	62 319	63 764	2.3

Source: GASI

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

In total, 15.2 thousand EEOs, 6.7 thousand individuals were inspected by GASI, and business activities of 31 EEOs and 49 individuals were suspended who have been found guilty of violating the laws, standards and norms. The business activities of 20 EEOs and 38 individuals were restored.

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

Description	2017		2018		2019		2020	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	5 290	4 850	6 188	4 744	9 166	8 944	15 179	6 711
Activities suspended	81	49	51	32	37	27	31	49
Activities restored	45	19	19	29	22	19	20	38

Source: GASI

Number of violations revealed and corrected during inspection

Total of 42.2 thousand cases of violation were identified during GASI inspection, of which 29.0 thousand violations or 68.6% were eradicated.

TABLE 15. NUMBER OF VIOLATIONS REPORTED AND ERADICATED

Description of violations	Number of violation reported	Number of violation eradicated
Total	42 195	28 964
Building and facilities	3 696	2 144
Workplace, equipment and machinery operation	4 073	2 728
Technological norms and standards	3 898	3 049
Hygiene and sanitary	5 559	3 864
Raw material preparation, quality and safety of final food products	5 295	3 862
Storage and transportation	5 370	3 246
Packaging and labeling	5 389	3 443
Internal control	8 915	6 628

Source: GASI

Violations of internal control 21.1%, hygiene and sanitary 13.2%, norms for packaging and labeling 12.8%, storage and transportation 12.7%, norms and standards for raw material and quality and safety of final products 12.5%, norms and standards for workplace 9.7%, equipment and machinery operation 9.2%, norms and standards for building and facilities 8.8% of total violations reported. Violation eradication rate was 58.0-78.2%.

4. Number of accredited food testing laboratories:

As of 2020, there were 106 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 2020.

1. Technical regulation for production of alcoholic beverages adopted by Government of Mongolian resolution No. 159, dated April 30, 2008.
2. Technical regulation for production and sales of milk and dairy products adopted by Government of Mongolian resolution No. 304, dated October 26, 2011.
3. Technical regulation for production and sales of cakes adopted by Government of Mongolian 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.

In 2020, number of food related national standards reached 693, increased by 25 or 3.7% compared to previous year.

TABLE 16. NUMBER OF FOOD RELATED NATIONAL STANDARDS

Description	2016	2017	2018	2019	2020	Changes rate, %
Number of total standards	648	662	666	668	693	3.7
Number of national standards, that are substantially the same as international, regional and other country's standards	256	262	264	264	272	3.0
Equivalent standards	392	400	402	404	421	4.2

Source: Agency for Standardization and metrology

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



There are 693 national standards effective in Mongolia, of which 272 or 39.2% are substantially the same as international, regional and other country's standards, while 421 or 60.8% are equivalent standards.

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

There are 110 EEOs in food sector, that hold Certificate of conformity, which is 62 EEOs less or 36.0% lower than in 2019.

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

Description	2016		2017		2018		2019 ¹		2020	
	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products
Total	165	755	153	668	115	458	172	325	110	278
Certificate of conformity for import products	115	335	97	301	55	85	65	76	79	5
Certificate of conformity for products from domestic production	42	400	49	319	53	325	94	150	24	226
"Safety mark" certificate ¹	8	20	7	48	7	48	13	99	7	47

Source: MASM

¹ MNS mark will no longer be used from 2019 and will be used as a "Safety mark".

There are 278 products that hold certificate of conformity, of which 1.8% hold certificate of conformity for imports, 81.3% hold certificate of conformity for domestic products, and 16.9% holds MNS mark.

7. Number of factories introduced international quality control system

There are 20 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 22 EEOs, who became certified to GMP /12 EEOs/ and HACCPs /10 EEOs/ by designated authority, in Mongolia.

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

Description	2016	2017	2018	2019	2020	Changes rate, %
Total number of factories	5	7	11	19	22	15.8
Factories that introduced food safety management system ISO22000 standard	3	3	5	10	12	20.0
EEOs that introduced HACCPs	2	4	6	9	10	11.1
Introduced good manufacturing practices	-	-	-	-	-	-

Source: Agency for Standardization and metrology

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

From the 8 active enterprises with license to extract salts, only 4 enterprises are iodization and packaging of domestically produced salt.

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

There are 2 685.5 thousand people or 84.0% of Mongolian population have access to qualified drinking water, as shown by the results of 2020 population and housing census.

11. Alcohols and alcoholic beverages producing factories

There are 6 alcohol producing factories, 26 vodka producing, 8 wine producing and 12 beer producing factories in Mongolia.

12. Amount of alcohols and alcoholic beverages per capita

In 2020, vodka per capita reached 8.1 liter, decreased by 0.8 liter or 9.9%, wine reached 0.8 liter, decreased by 0.2 liter or 16.9% compared to previous year. But beer per capita reached 30.6 liter, increased by 0.3 liter or 1.0%.

TABLE 19. AMOUNT OF ALCOHOLIC BEVERAGES PER CAPITA

	2016	2017	2018	2019	2020	Changes rate, %
	liters					
Vodka	8.1	8.3	9.6	8.9	8.1	-9.9
Wine	0.7	0.9	1.0	1.0	0.8	-16.9
Beer	30.2	28.4	31.1	30.3	30.6	1.0

Source: NSO

Amount of vodka, wine and beer per adult person aged 15 and above is 11.9 liter, 1.2 liter, 45.3 liter respectively, as of 2020.

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

	2016	2017	2018	2019	2020	Changes rate, %
	liters					
Vodka	11.4	11.7	13.9	13.1	11.9	-9.1
Wine	0.9	1.2	1.5	1.4	1.2	-15.4
Beer	42.3	40.2	44.9	44.4	45.3	1.9

Source: NSO

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

Foodborne disease outbreak means an incident in which more than two persons experience same illness resulting from ingestion of common food.

In 2020, 12 incidents of foodborne disease outbreaks were reported affecting 205 person in total, of which 95 persons or 46.3% of affected people were hospitalized. No case of mortality was reported.

The number of person suffering from foodborne illness decreased by 1083 or 84.1%, the number of hospitalizations decreased by 262 or 73.4% compared previous year due to the proclamation of "Disaster Preparedness for All".

TABLE 21. NUMBER OF FOODBORNE DISEASE OUTBREAKS, AFFECTED, HOSPITALIZED AND DEAD PERSON

Description	2016	2017	2018	2019	2020 ¹	Changes rate, %
Outbreak of foodborne illness	12	5	20	14	12	-14.3
Number of affected people	382	118	624	1 288	205	-84.1
Number of patients hospitalized	127	98	263	357	95	-73.4
Mortality case	-	-	-	-	-	-

Source: Ministry of Health

¹Food 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

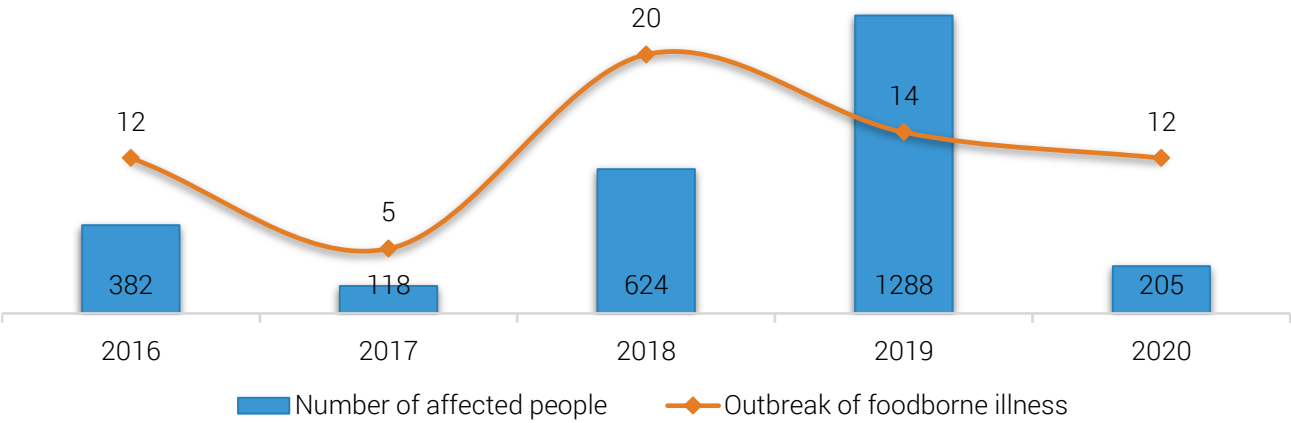


Table 22. MORBIDITY CASES RELATED TO BACTERIAL FOOD POISONING

Description	2016	2017	2018	2019	2020	Changes rate, %
Number of people affected	430	133	554	153	205	34.0
Urban	386	89	328	109	125	14.7
Rural	44	44	226	44	80	81.8

Source: Ministry of Health

CONCLUSION

- ◁ Indicators for food security statistics are divided into four groups. Annual food demand for standard population of the national demand for food estimated at 182.4 thousand tonnes of meat and meat products, 153.6 thousand tonnes of milk, 268.8 thousand tonnes of flour and flour products, 115.2 thousand tonnes of potatoes.
- ◁ The food supply level of the population is estimated at 16 commodity foods. Consider some types of products is 97.0% of meat and meat products from domestic production, 3.0% from imports, 100.0% of milk from domestic production, 89.6% of flour and flour products from domestic production, 10.4% from imports, 60.7% of vegetables from domestic production, 39.3% from imports were supplied nationally.
- ◁ Compared to the previous year, in 2020, pulses production decreased by 63.9%, vegetables production decreased by 11.0%, eggs production decreased by 5.1%, vegetables oil production decreased by 93.4%, respectively, and access to these products is still insufficient.
- ◁ Food intake varies between urban and rural areas. The actual consumption of meat and meat products, milk and dairy product, flour, rice, vegetables oils at rural level was higher than the national average, while urban consumption of flour products, vegetables, potatoes, eggs, fruits, butter, sugar and sweeteners was above national average.
- ◁ Inadequate access to vegetables, pulses, fruits and berries is one of the reasons why the national average calorie, protein, fat and carbohydrates intake per capita exceeds the norm.
- ◁ According to the General Agency for Specialized Inspection, there were 106 units of accredited food testing laboratories which are operational. In 2020, total of 42.2 thousand cases of violation, increased by 9.1 thousand cases or 27.5% compared to previous year.
- ◁ According to the Mongolian Agency for standard metrology, there are 20 EEOs that hold MNS ISO 9001:2010 certificate for quality management standard, certified to GMP /12 EEOs/ and HACCPs /10 EEOs/ by designated authority, in Mongolia.
- ◁ According to the Ministry of Health, the number of foodborne illnesses decreased by 14.3 percent, the number of cases decreased by 84.1 percent, and the number of hospitalizations decreased by 73.4 percent from the previous year. This is due to the of Covid 19 pandemic in 2020 and the government's disaster protection decisions.

ANNEXES

Annex 1

Table 1. Conversion multipliers for standard person, 2020

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

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

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

		Daily intake of calories for standard person, kcal*	Nutrients (gr)						Carbohydrates
			Protein	Origin:		Fat	Origin:		
				Animal	Plant		Animal	Plant	
A	B	1	2	3	4	5	6	7	8
Meat	1	180	19	19		12	12		
Fish	2	60	5	5		4	4		
Poultry	3	63	8	8		3	3		
Milk	2	95	5	5		5	5		8
Dairy products	3	102	5	5		6	6		7
Flour	4	357	13		13	1		1	74
Flour products	5	575	14		14	2		2	125
All types of grains	6	140	4		4	0		0	31
Potatoes	7	108	2		2	0		0	24
Vegetables	8	85	3		3	0		0	18
Pulses	9	119	8		8	1		1	20
Fruits	10	82	1		1	0		0	20
Eggs	11	32	3	3	0	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	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	2013
Total		2 555 209	2 588 214	2 623 483	2 653 828	2 704 526	2 760 605	2 823 137
Up to 1 year	Total	51 669	57 661	62 507	53 759	62 504	64 347	69 757
	M	26 216	29 393	31 637	27 219	32 040	32 541	35 448
	F	25 453	28 268	30 870	26 540	30 464	31 806	34 309
1-3 years	Total	130 824	139 748	148 644	166 562	170 470	178 007	181 438
	M	66 172	70 953	76 009	84 396	86 516	90 312	92 485
	F	64 652	68 795	72 635	82 166	83 954	87 695	88 953
4-6 years	Total	138 613	133 494	129 498	130 942	138 952	156 056	175 149
	M	69 789	67 388	65 791	66 220	70 205	78 950	88 506
	F	68 824	66 106	63 707	64 722	68 747	77 106	86 643
7-10 years	Total	195 778	191 232	186 157	179 909	176 358	176 166	177 989
	M	98 942	96 302	94 545	91 098	89 251	89 224	90 164
	F	96 836	94 930	91 612	88 811	87 107	86 942	87 825
11-14 years	Total	212 204	205 027	196 084	190 865	188 530	188 934	186 675
	M	106 794	103 526	99 894	96 426	95 312	95 234	94 194
	F	105 410	101 501	96 190	94 439	93 218	93 700	92 481
15-18 years	Total	240 965	228 717	216 086	205 959	197 774	196 079	193 973
	M	119 651	114 799	108 640	102 995	98 882	98 115	96 976
	F	121 314	113 918	107 446	102 964	98 892	97 964	96 997
19-29 years	Total	542 138	564 372	589 034	604 059	608 868	603 485	605 737
	M	262 790	274 400	286 164	292 701	296 604	295 234	297 043
	F	279 348	289 972	302 870	311 358	312 264	308 251	308 694
30-59 years	Total	888 022	910 815	939 746	966 667	1 001 666	1 031 950	1 062 675
	M	425 988	436 783	450 250	460 293	477 532	492 777	508 495
	F	462 034	474 032	489 496	506 374	524 134	539 173	554 180
60 and above	Total	154 996	157 148	155 727	155 106	159 404	165 581	169 744
	F	68 526	69 128	68 865	67 108	68 426	71 112	72 577
	M	86 470	88 020	86 862	87 998	90 978	94 469	97 167

Continuation of Table 1.

Age group	Gender	2014	2015	2016	2017	2018	2019	2020
Total		2 937 927	2 990 242	3 063 568	3 131 750	3 186 347	3 197 020	3 253 283
Up to 1 year	Total	73 263	79 447	68 579	68 140	76 421	73 589	76 830
	M	37 591	40 670	35 263	35 096	39 233	37 705	39 372
	F	35 672	38 777	33 316	33 044	37 188	35 884	37 458
1-3 years	Total	205 676	235 421	236 941	233 615	231 450	229 758	227 463
	M	104 767	120 442	121 279	119 403	118 955	118 184	116 952
	F	100 909	114 979	115 662	114 212	112 495	111 574	110 511
4-6 years	Total	184 188	202 631	206 094	221 571	234 984	240 015	238 109
	M	93 603	103 517	104 959	112 881	120 218	123 051	122 050
	F	90 585	99 114	101 135	108 690	114 766	116 964	116 059
7-10 years	Total	184 834	207 924	230 219	247 414	264 552	275 741	286 213
	M	93 400	106 275	117 428	125 896	135 187	140 585	146 187
	F	91 434	101 649	112 791	121 518	129 365	135 156	140 026
11-14 years	Total	177 189	173 622	171 767	175 746	187 841	207 344	229 869
	M	89 590	88 326	87 632	89 523	95 682	105 838	117 250
	F	87 599	85 296	84 135	86 223	92 159	101 506	112 619
15-18 years	Total	189 521	188 319	187 109	184 634	177 622	171 477	170 004
	M	94 908	95 786	94 570	93 224	90 301	87 149	86 646
	F	94 613	92 533	92 539	91 410	87 321	84 328	83 358
19-29 years	Total	622 767	605 061	602 542	590 962	566 945	529 874	514 068
	M	308 533	303 574	301 493	295 328	284 698	266 406	258 572
	F	314 234	301 487	301 049	295 634	282 247	263 468	255 496
30-59 years	Total	1 118 926	1 117 306	1 167 922	1 205 018	1 228 813	1 237 125	1 261 919
	M	538 601	541 875	561 827	581 036	597 430	602 938	614 757
	F	580 325	575 431	606 095	623 982	631 383	634 187	647 162
60 and above	Total	181 563	180 511	192 395	204 650	217 719	232 097	248 808
	M	77 060	74 492	79 299	84 472	89 281	95 074	101 508
	F	104 503	106 019	113 096	120 178	128 438	137 023	147 300

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	2016
Up to 1 year	F	0.38	12 086	13 037	13 555	14 735	11 989
	M	0.38	12 366	13 470	14 285	15 455	10 328
1-3 years	F	0.48	43 350	42 697	48 436	55 190	53 363
	M	0.50	43 848	46 243	52 384	60 221	47 421
4-6 years	F	0.64	49 348	55 452	57 974	63 433	64 025
	M	0.68	53 686	60 184	63 650	70 392	55 624
7-10 years	F	0.72	62 598	63 234	65 832	73 187	89 245
	M	0.87	77 625	78 443	81 258	92 459	77 826
11-14 years	F	0.74	69 338	68 436	64 823	63 119	91 137
	M	0.96	91 425	90 426	86 006	84 793	75 722
15-18 years	F	0.87	85 229	84 387	82 313	80 504	106 864
	M	1.05	103 021	101 825	99 653	100 575	87 912
19-24 years	F	0.82	140 783	136 663	133 085	124 559	301 493
	M	1.04	171 352	168 075	167 036	159 688	249 871
25-50 years	F	0.78	445 882	456 080	477 365	466 960	556 209
	M	0.99	528 345	542 053	576 910	578 087	466 693
51 and above	F	0.72	142 965	150 236	161 824	167 306	63 439
	M	0.81	130 150	136 871	146 484	147 800	79 167
Total			2 263 396	2 307 812	2 392 877	2 418 462	2 488 329

Continuation of Table 2.

Age group	Gender	Conversion multiplier	2017	2018	2019	2020
Up to 1 year	M	0.34	11 933	13 339	12 820	13 386
	F	0.31	10 244	11 528	11 124	11 612
1-3 years	M	0.44	52 537	52 340	52 001	51 459
	F	0.41	46 827	46 123	45 745	45 310
4-6 years	M	0.61	68 857	73 333	75 061	74 451
	F	0.55	59 780	63 121	64 330	63 832
7-10 years	M	0.76	95 681	102 742	106 845	111 102
	F	0.69	83 847	89 262	93 258	96 618
11-14 years	M	1.04	93 104	99 509	110 072	121 940
	F	0.90	77 601	82 943	91 355	101 357
15-18 years	M	1.13	105 343	102 040	98 478	97 910
	F	0.95	86 840	82 955	80 112	79 190
19-29 years	M	1.00	295 328	284 698	266 406	258 572
	F	0.83	245 376	234 265	218 678	212 062
30-59 years	M	0.99	575 226	591 456	596 909	608 609
	F	0.77	480 466	486 165	488 324	498 315
60 and above	M	0.80	67 578	71 425	76 059	81 206
	F	0.70	84 125	89 907	95 916	103 110
Total			2 540 691	2 577 151	2 583 493	2 630 041

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	2013
	thousand tonnes						
Meat and meat products	160.2	170.9	172.8	176.2	172.7	179.1	171.3
Milk	160.2	170.9	172.8	176.2	172.7	179.1	128.6
Clabber, curds	226.6	241.7	244.3	249.2	244.1	253.1	171.3
Flour	91.6	97.7	98.7	100.7	98.7	102.3	85.7
Flour products	201.5	214.9	217.2	221.5	217.1	225.0	188.5
All types of grains	71.4	76.2	77.0	78.5	77.0	79.9	66.9
Sugar. sweeteners	21.1	22.5	22.7	23.2	22.7	23.5	19.7
Potatoes	128.2	136.7	138.2	140.9	138.1	143.2	119.9
Vegetables	183.1	195.3	197.5	201.4	197.3	204.6	171.3
Fruits	164.8	175.8	177.7	181.2	177.6	184.1	154.2
Pulses	82.4	87.9	88.9	90.6	88.9	92.2	77.2
Eggs	17.4	18.6	18.8	19.1	18.7	19.3	16.2
Vegetable oil	22.9	24.4	24.7	25.2	24.6	25.5	21.4

Continuation of Table 3.

	2014	2015	2016	2017	2018	2019	2020
	Thousand tonnes						
Meat and meat products	165.9	171.8	172.6	176.2	178.7	179.2	182.4
Milk	139.7	144.6	145.3	148.4	150.5	150.9	153.6
Clabber, curds	157.2	162.7	163.5	166.9	169.3	169.7	172.8
Flour	87.3	90.4	90.8	92.7	94.1	94.3	96.0
Flour products	157.2	162.7	163.5	166.9	169.3	169.7	172.8
All types of grains	43.7	45.2	45.4	46.4	47.0	47.1	48.0
Sugar. sweeteners	28.8	29.8	30.0	30.6	31.0	31.1	31.7
Potatoes	104.8	108.5	109.0	111.3	112.9	113.2	115.2
Vegetables	227.1	235.0	236.1	241.1	244.6	245.2	249.6
Fruits	174.7	180.8	181.6	185.5	188.1	188.6	192.0
Pulses	34.9	36.2	36.3	37.1	37.6	37.7	38.4
Eggs	17.5	18.1	18.2	18.5	18.8	18.9	19.2
Vegetable oil	20.1	20.8	20.9	21.3	21.6	21.7	22.1

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	2019	2020
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	2 930.3	3 056.9
Protein, grams	97.5	94.1	105.4	102.2	102.2	123.6	121.6	115.9	130.8	132.5	131.5	137.2
Fat, grams	59.9	58.8	66.2	64.4	67.1	87.5	87.1	81.2	66.1	66.3	66.4	70.5
Carbohydrates, grams	331.5	319.4	338.6	331.3	319.5	376.3	359.8	348.5	452.7	464.9	453.4	469.9
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	2 717.0	2 870.3
Protein, grams	88.4	83.8	88.2	86.7	88.4	112.0	110.3	103.8	116.0	117.2	115.3	121.4
Fat, grams	56.3	51.8	55.7	55.6	58.2	78.3	77.5	71.8	54.8	54.7	55.3	58.8
Carbohydrates, grams	331.3	314.3	324.7	317.8	299.6	367.4	344.2	331.1	448.0	463.9	440.3	464.5
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	3 343.5	3 429.2
Protein, grams	109.7	107	126.8	121.4	119.5	143.8	143.0	140.8	161.3	161.9	163.0	168.9
Fat, grams	65.5	67.6	79.3	75.4	78.2	103.5	105.5	100.5	88.7	88.6	87.8	93.9
Carbohydrates, grams	335.8	321.8	355.9	348.2	344.5	391.7	389.5	384.2	462.5	466.8	478.8	480.9

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	2019	2020
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	3 065.3	3 111.3
Protein, grams	110.9	106.5	115.7	109.4	113.1	130.3	126.9	117.8	136.1	136.1	136.7	137.6
Fat, grams	75.8	69.3	76.5	71.9	77.4	94.1	94.7	84.2	70.4	69.4	72.3	71.5
Carbohydrates, grams	387.9	345.7	352.5	348.4	341.3	401.7	384.1	366.9	474.1	476.7	468.9	481.3
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	2 707.8	2 857.2
Protein, grams	89.3	84.4	88	84.1	90.1	108.1	106.1	99.0	114.1	116.8	112.0	117.9
Fat, grams	58.5	53.1	56.8	55.2	60.6	77.2	77.9	69.8	53.9	54.5	53.7	56.2
Carbohydrates, grams	347.1	319.1	321.3	318.3	310.0	377.4	350.7	339.9	459.8	470.3	444.7	470.6
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	3 740.2	3 629.6
Protein, grams	136.6	132	150.3	140.9	141.7	168.5	163.1	157.9	183.6	173.4	183.3	177.7
Fat, grams	97.5	89.8	101.1	92.5	98.3	123.1	124.1	114.9	105.4	98.2	107.4	102.6
Carbohydrates, grams	425.6	373.7	391.5	385.7	380.4	443.5	442.2	424.2	505.1	489.0	514.4	503.1

Source: NSO, Household Socio-Economic Survey

Table 6. Indicators for alimentary products standardization

Description	Source	2007	2008	2009	2010	2011	2012	2013
Number of accredited food testing laboratories	MASM	47	58	65	-	-	-	-
Number of food related national standards	MASM	603	615	650	665	672	668	653
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	277	295	310	305	289	298	259
Number of food related national technical regulations	MASM	1	2	2	2	2	4	4
Number of food products holding Certificate of conformity	MASM	475	510	536	-	-	-	-
Factories that introduced food safety management system ISO22000 standard	MASM	-	-	5	-	-	-	-
Factories that introduced HACCPs	MASM	-	-	2	-	-	-	-
Number of factories producing fortified foods	MoFALI	-	-	-	-	-	-	-
Alcohols and alcoholic beverages producing factories	MoFALI	-	97	86	84	83	83	70

Continuation of Table 6.

Description	Source	2014	2015	2016	2017	2018	2019	2020
Number of accredited food testing laboratories	MASM	65	65	87	91	95	69	106
Number of food related national standards	MASM	672	652	648	662	666	668	693
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	262	249	256	262	264	264	272
Number of food related national technical regulations	MASM	4	4	4	4	4	4	4
Number of food products holding Certificate of conformity	MASM	240	215	755	668	458	325	278
Factories that introduced food safety management system ISO22000 standard	MASM	2	3	3	3	5	10	12
Factories that introduced HACCPs	MASM	1	1	2	4	6	9	10
Number of factories producing fortified foods	MFALI	15	15	5	5	8	4	4
Alcohols and alcoholic beverages producing factories	MFALI	87	87	87	83	68	52	52

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

Description	Meas.unit	2016	2017	2018	2019	2020
Confiscated foods	kilograms	654.9	5 572.5	425.3	2 891.0	14 782.2
	liter	544.5	1 574.0	489.8	1 937.6	1 343.0
	piece	82 670	42 010	20 082	65 825	55 077
Returned foods	kilograms	313.5	781.7	1 443.4	508.4	198.8
	liter	115.0	214.0	440.3	115.5	-
	piece	5 391	12 573	3 659	7 879	2 222
Foods removed from shelf	kilograms	238.3	611.7	3 012.7	1 518.0	60.0
	liter	6.4	64.0	84.0	120.0	66.5
	piece	12 869	6 030	36 151	11 874	1 593
Disposed off foods	kilograms	2 229.7	8 396.6	12 989.4	2 910.5	3 058.4
	liter	648.5	1 546.1	523.3	2 023.7	1 267.0
	piece	82 530	39 552	67 755	62 319	63 764

Source: GASI

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

Description	2016		2017		2018		2019		2020	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	4 785	3 072	5 290	4 850	6 188	4 744	9 166	8 944	15 179	6 711
Activities suspended	119	44	81	49	51	32	37	27	31	49
Activities restored	58	30	45	19	19	29	22	19	20	38

Source: GASI

Table 9. Number of violations reported and eradicated

Descriptions of violations	2015		2016		2017	
	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	29 869	23 617	27 488	21 518	28 028	19 904
Building and facilities	5 980	4 604	4 992	3 430	3 256	1 632
Workplace, equipment and machinery operation	3 322	2 753	3 237	2 360	2 895	2 167
Technological norms and standards	2 966	2 373	2 516	1 984	2 836	2 048
Hygiene and sanitary	5 703	4 420	5 018	4 722	5 436	4 177
Raw material preparation, quality and safety of final food products	2 951	2 466	2 898	2 226	3 118	2 318
Storage and transportation	3 957	2 985	3 623	2 707	3 576	2 429
Packaging and labeling	1 839	1 541	1 984	1 702	3 039	2 372
Internal control	3 151	2 475	3 220	2 387	3 872	2 761

Source: GASI

Continuation of Table 9.

Descriptions of violations	2018		2019		2020	
	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	30 646	21 780	33 193	24 596	42 195	28 964
Building and facilities	2 932	1 613	3 727	2 190	3 696	2 144
Workplace, equipment and machinery operation	2 710	1 643	3 200	2 141	4 073	2 728
Technological norms and standards	2 906	2 082	2 585	1 897	3 898	3 049
Hygiene and sanitary	2 955	2 093	6 145	4 844	5 559	3 864
Raw material preparation, quality and safety of final food products	4 949	4 010	3 584	2 842	5 295	3 862
Storage and transportation	4 391	2 554	4 184	3 303	5 370	3 246
Packaging and labeling	3 676	3 031	3 841	2 801	5 389	3 443
Internal control	6 127	4 754	5 927	4 578	8 915	6 628

Source: GASI

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

Nº	Description	2008	2009	2010	2011	2012	2013	2014
1	Meat and meat products production, preservation	132	127	152	198	244	219	267
2	Fish production, preservation	4	4	4	3	3	3	4
3	Fruits and vegetables cultivation, preservation	14	16	19	36	37	38	31
4	Animal and vegetable oil production	2	1	1	3	3	1	2
5	Milk and dairy products production	85	96	112	163	184	182	237
6	Wheat, rye flour and grains production	32	31	35	42	52	40	61
7	Starchy food production	-	-	1	3	4	9	12
8	Bread, biscuits and fine pastry production	193	220	261	311	332	330	392
9	Cacao, chocolate and sweets production	1	1	2	6	4	4	5
10	Pastas and noodle production	4	4	5	13	17	12	21
11	Pickled and on-hand ready food production	16	13	15	14	16	21	35
12	Other types of foods not included above	39	42	64	73	89	83	84
13	Alcohol production	86	85	76	67	69	56	45
14	Wine production	5	5	5	8	7	7	6
15	Beer production	6	5	3	8	7	7	8
16	Soft drinks, spring water and regular water production	57	56	49	65	65	59	64

Continuation of Table 10.

Nº	Description	2015	2016	2017	2018	2019	2020
1	Meat and meat products production, preservation	266	273	330	401	452	476
2	Fish production, preservation	4	4	4	3	4	3
3	Fruits and vegetables cultivation, preservation	43	43	45	45	66	73
4	Animal and vegetable oil production	3	6	6	7	7	7
5	Milk and dairy products production	241	243	275	302	326	308
6	Wheat, rye flour and grains production	60	55	60	61	65	57
7	Starchy food production	7	5	5	6	9	6
8	Bread, biscuits and fine pastry production	415	449	504	526	576	549
9	Cacao, chocolate and sweets production	6	7	7	9	10	7
10	Pastas and noodle production	34	34	35	36	52	51
11	Pickled and on-hand ready food production	44	53	70	86	96	105
12	Other types of foods not included above	80	91	106	119	139	130
13	Alcohol production	36	31	32	28	24	22
14	Wine production	6	6	6	5	7	6
15	Beer production	8	9	9	8	12	9
16	Soft drinks, spring water and regular water production	70	72	84	99	110	113

Source: NSO

Table 11. Number of EEOs conduct food business

Nº	Description	2008	2009	2010	2011	2012	2013	2014
1	Wholesale on a fee or contract basis	7 449	7 013	11 558	5 994	8 500	8 999	9 387
2	Foods, drinks and tobacco wholesale	111	120	135	254	291	355	402
3	Retail sale stores not specialized in selling foods, drinks and tobacco	791	808	846	446	669	821	951
4	Retail sale of food specialized stores	3 674	3 687	3 820	5 158	5 572	5 593	5 293
5	Retail sale of drink specialized stores	-	-	-	3	3	7	11

Continuation of Table 11.

Nº	Description	2015	2016	2017	2018	2019	2020
1	Wholesale on a fee or contract basis	9 804	11 628	12 776	15 435	18 604	17 890
2	Foods, drinks and tobacco wholesale	456	508	543	622	737	796
3	Retail sale stores not specialized in selling foods, drinks and tobacco	1 136	1 267	1 345	1 406	1 479	1 448
4	Retail sale of food specialized stores	5 446	5 785	6 333	6 632	7 083	7 139
5	Retail sale of drink specialized stores	21	23	25	25	29	32

Table 12. Number of food production EEOs

Nº	Description	2013	2014	2015	2016	2017	2018	2019	2020
1	Restaurant and food service	909	994	948	1 135	1 188	1 269	1 131	1 189
2	Special ordered food service	31	21	24	32	41	56	75	81
3	Other food-serving activities	538	458	414	381	423	431	388	390
4	Beverage serving activities	40	65	85	114	127	136	155	188

Table 13. Health indicators related to food service

Nº	Description	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1	Number of people affected food poisoning	278	719	238	548	482	430	133	544	153	205
	Urban	147	633	121	235	375	386	89	328	109	125
	Rural	131	86	117	313	107	44	44	226	44	80
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	8 353	8 312

Table 14. Number of heads of livestock, by types

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand heads						
Total	40 263.8	43 288.4	44 023.9	32 769.5	36 335.8	40 920.9	45 144.3
Horse	2 239.5	2 186.9	2 221.3	1 960.3	2 112.9	2 330.4	2 619.4
Cattle	2 425.8	2 503.4	2 599.3	2 176.0	2 339.7	2 584.6	2 909.5
Camel	260.6	266.4	277.1	269.6	280.1	305.8	321.5
Sheep	16 990.1	18 362.3	19 274.7	14 480.4	15 668.5	18 141.4	20 066.4
Goat	18 347.8	19 969.4	19 651.5	13 883.2	15 934.6	17 558.7	19 227.6

Continuation of Table 14.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand heads						
Total	51 982.6	55 979.8	61 549.2	66 219.0	66 460.2	70 969.3	67 068.5
Horse	2 995.8	3 295.3	3 635.5	3 939.8	3 940.1	4 214.8	4 093.9
Cattle	3 413.9	3 780.4	4 080.9	4 388.5	4 380.9	4 753.2	4 732.0
Camel	349.3	368.0	401.3	434.1	459.7	472.4	472.9
Sheep	23 214.8	24 943.1	27 856.6	30 109.9	30 554.8	32 267.3	30 049.4
Goat	22 008.9	23 592.9	25 574.9	27 346.7	27 124.7	29 261.7	27 720.3

Table 15. Number of dams in livestock, by types

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand heads						
Total	16 784.8	18 531.3	19 005.3	15 533.8	15 693.0	17 748.9	19 436.7
Horse	632.8	631.5	649.6	593.0	641.6	700.9	784.7
Cattle	931.8	971.6	1 023.9	901.9	965.6	1 046.0	1 151.0
Camel	80.9	85.2	89.7	90.7	96.2	105.1	112.0
Sheep	7 490.9	8 253.5	8 672.8	7 097.5	7 117.5	8 257.1	9 094.9
Goat	7 648.6	8 589.6	8 569.5	6 850.7	6 872.1	7 639.7	8 294.3

Continuation of Table 15.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand heads						
Total	22 248.6	23 863.8	26 477.2	28 242.3	29 777.8	30 963.5	29 657.6
Horse	895.5	990.0	1 113.5	1 226.6	1 291.6	1 388.8	1 371.6
Cattle	1 333.4	1 458.1	1 587.8	1 707.8	1 755.3	1 900.6	1 838.9
Camel	120.2	127.8	139.4	151.0	161.0	167.4	167.9
Sheep	10 478.0	11 205.4	12 578.6	13 519.7	14 223.4	14 748.3	13 958.7
Goat	9 421.6	10 082.4	11 057.8	11 637.2	12 346.6	12 758.5	12 320.5

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

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand heads						
Total	7 012.5	8 285.3	11 299.0	8 373.7	8 283.2	8 365.0	10 205.0
Horse	402.3	459.5	516.0	383.3	446.3	469.9	445.6
Cattle	281.6	312.5	323.5	205.3	208.9	238.3	225.7
Camel	25.7	32.1	26.6	26.9	29.4	25.2	31.7
Sheep	3 562.2	4 076.7	4 955.5	4 326.3	4 415.8	3 679.6	5 015.3
Goat	2 740.7	3 404.4	5 477.4	3 431.9	3 182.8	3 952.0	4 486.6

Continuation of Table 16.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand heads						
Total	10 006.4	14 556.7	12 700.0	14 105.8	16 526.7	17 960.3	24 614.6
Horse	238.8	395.6	335.7	463.4	597.0	633.3	955.0
Cattle	435.7	728.0	721.3	802.7	1 002.2	943.7	1 319.4
Camel	29.8	36.4	30.1	33.4	45.3	58.9	80.9
Sheep	4 995.5	7 301.9	6 254.3	7 091.8	8 729.1	9 653.3	12 508.1
Goat	4 306.5	6 094.7	5 358.6	5 714.5	6 153.0	6 671.0	9 751.1

Table 17. Meat production, tonnes

Description	2007	2008	2009	2010	2011	2012	2013
	tonnes						
Total	191 189.3	221 322.2	269 039.4	201 175.6	210 049.2	220 260.8	249 828.2
Horse	35 735.0	38 095.6	35 581.9	23 047.4	25 474.4	31 082.2	29 759.8
Cattle	46 760.3	56 250.4	58 565.2	45 152.5	54 765.7	59 703.7	57 686.9
Camel	5 468.6	6 833.6	5 739.8	5 741.4	6 152.5	5 296.4	6 729.4
Sheep	64 158.5	72 346.7	91 243.1	77 942.5	78 399.3	67 239.7	91 003.6
Goat	38 653.4	47 509.0	77 576.2	49 020.4	44 663.6	56 335.7	63 997.5
Pigs	332.8	225.1	286.7	217.3	388.0	402.6	527.1
Fowls/Poultry	80.7	62.0	46.5	54.2	205.8	200.5	123.9

Continuation of Table 17.

Description	2014	2015	2016	2017	2018	2019	2020
	tonnes						
Total	243 610.3	374 720.0	333 738.3	355 583.4	430 718.9	457 191.4	625 219.9
Horse	29 534.9	50 642.3	41 734.0	41 786.6	57 192.7	70 812.5	105 881.3
Cattle	54 876.3	93 251.8	92 383.1	97 679.5	126 591.1	114 681.9	158 476.6
Camel	6 355.2	8 161.9	6 455.1	7 121.6	9 689.3	12 545.8	16 975.3
Sheep	91 298.8	134 546.2	116 172.4	126 656.1	152 706.2	168 440.7	213 899.5
Goat	60 547.9	86 355.9	76 902.9	80 813.2	83 623.3	89 634.0	129 163.1
Pigs	763.4	603.1	77.0	487.5	566.0	606.4	285.5
Fowls/Poultry	233.8	1 158.8	13.8	1 038.8	350.3	470.0	538.7

Table 18. Milk production, thousand liters

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand liters						
Total	465 640.1	457 418.4	493 747.7	338 441.7	458 581.9	510 972.7	575 221.0
Mare	51 550.2	45 521.2	50 090.1	32 053.3	50 888.2	56 727.6	65 475.4
Cow	307 840.0	303 542.6	325 525.9	242 812.3	298 794.9	338 604.6	380 830.3
Female camel	3 775.4	4 442.2	4 374.9	4 004.5	4 601.2	5 754.9	5 363.5
Ewe	32 855.9	33 881.7	37 069.5	22 383.2	33 430.8	35 940.5	41 226.2
Female goat	69 618.6	70 030.7	76 687.2	37 188.4	70 866.7	73 945.1	82 325.7

Continuation of Table 18.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand liters						
Total	765 376.4	874 426.9	891 513.2	919 496.7	902 400.7	1 074 234.1	1 082 388.5
Mare	74 961.8	85 143.5	86 173.5	94 302.7	83 909.4	112 013.1	13 488.3
Cow	440 371.2	512 442.1	522 387.9	539 926.4	553 344.1	627 894.8	104 644.7
Female camel	9 346.7	9 042.9	10 225.8	10 392.5	11 483.0	11 283.3	651 188.9
Ewe	84 745.1	95 160.7	99 082.7	99 668.4	103 827.1	120 789.7	116 479.7
Female goat	155 951.6	172 637.7	173 643.3	175 206.7	149 837.2	202 253.1	196 586.9

Table 19. Agricultural grassland size

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand ha						
Agricultural land	115 992.8	115 824.7	115 586.0	115 525.9	115 490.8	115 399.9	115 361.4
Pastures	111 679.8	111 485.2	111 227.3	111 255.6	111 181.4	111 032.5	111 026.2
Meadows	1 823.0	1 823.2	1 825.0	1 714.9	53 370.2	1 712.3	1 712.3
Arable land	704.5	835.7	906.0	932.4	964.4	1 031.1	986.8
Fallow land	472.5	363.3	312.1	306.6	330.4	292.0	305.0

Continuation of Table 19.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand ha						
Agricultural land	115 008.6	114 982.8	114 931.1	114 843.6	114 809.2	114 736.7	114 041.8
Pastures	110 646.8	110 613.6	110 490.0	110 429.3	110 391.6	110 330.6	109 645.6
Meadows	1 717.6	1 717.7	1 742.4	1 710.2	1 709.1	1 709.1	1 708.4
Arable land	1 012.8	1 028.2	1 067.7	1 086.8	1 100.8	1 117.2	1 127.5
Fallow land	305.0	305.0	260.6	241.0	231.6	216.6	211.5

Table 20. Cropland, by types of plant

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand ha						
Total	202.7	192.5	282.2	315.3	345.9	379.8	415.4
Grain seed	121.8	154.0	252.4	259.2	299.9	306.2	293.3
Wheat	116.7	150.0	248.9	250.2	291.4	297.3	275.6
Potato	11.5	12.3	13.5	13.8	15.4	16.8	15.5
Vegetables	6.1	6.4	6.5	7.0	7.8	7.9	8.3
Fodder plants	4.9	5.5	3.3	11.1	10.9	13.8	14.4
Technical plants	58.4	14.3	6.2	23.3	10.9	33.2	83.9
Others	-	-	0.2	0.8	1.0	1.9	1.0

Continuation of Table 20.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand ha						
Total	444.4	527.7	508.3	527.0	511.8	526.1	591.2
Grain seed	315.0	390.7	377.8	390.9	366.8	369.4	408.0
Wheat	291.2	361.2	355.1	365.7	342.4	343.5	377.0
Potato	13.2	12.8	15.0	15.1	12.9	14.9	19.0
Vegetables	8.7	7.7	9.1	8.4	8.9	8.4	10.6
Fodder plants	17.0	23.8	29.9	26.4	46.3	43.8	84.5
Technical plants	86.7	84.5	66.2	81.0	71.9	86.20	64.6
Others	3.8	8.2	9.9	5.3	4.9	3.4	4.4

Table 21. Harvesting, by types of plant

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand tonnes						
Grain seed	114.8	212.9	391.7	355.1	446.1	479.4	387.0
Wheat	109.6	209.8	388.1	345.5	435.9	465.3	368.4
Potato	114.4	134.8	151.2	168.0	201.6	245.9	191.6
Vegetables	76.4	78.6	78.0	82.3	99.0	98.9	101.8
Fodder plants	14.1	19.9	10.4	34.8	40.4	46.2	42.6
Technical plants	17.2	6.6	3.6	11.1	6.1	20.9	41.7
Others	933.1	1 030.9	912.3	1 137.3	1 195.2	1 175.1	1 169.3

Continuation of Table 21.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand tonnes						
Grain seed	518.8	216.3	483.5	238.1	453.8	433.3	430.3
Wheat	488.3	203.9	467.1	231.4	436.1	411.4	406.1
Potato	161.5	163.8	165.3	121.8	168.9	192.2	244.3
Vegetables	104.8	72.3	94.4	82.1	100.7	99.5	121.2
Fodder plants	44.3	49.2	53.4	47.9	123.8	121.1	182.1
Technical plants	52.1	23.1	21.5	13.9	23.9	34.0	22.6
Others	1 178.7	1 028.7	1 275.4	1 008.1	1 229.4	1 369.2	1 186.2

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

Description	2007	2008	2009	2010	2011	2012	2013
	centner						
Grain seed	9.4	13.8	15.5	13.7	14.9	15.7	13.2
Potato	99.8	109.6	111.8	121.6	131.1	146.2	123.6

Continuation of Table 22.

Description	2014	2015	2016	2017	2018	2019	2020
	centner						
Grain seed	16.5	5.5	12.8	6.1	12.4	11.7	10.5
Potato	122.3	127.5	110.0	80.4	130.7	128.7	128.4

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

	2007	2008	2009	2010	2011	2012	2013
Annual consumption of flour for standard population, tonnes	91 600	97 700	98 700	100 700	98 674	102 293	104 305
Required grain seeds, tonnes	130 857	139 571	141 000	143 857	140 963	146 132	149 007
Required arability, ha	139 210	101 139	90 968	105 005	94 606	93 078	112 884
Grain harvested, tonnes	114 778	212 894	391 659	355 061	446 051	479 349	387 043
Supplies, percentage	87.7	152.5	277.8	246.8	316.4	328.0	259.7
Sown area, ha	121 777	153 951	252 390	259 197	299 927	306 235	293 262

Continuation of Table 23

	2014	2015	2016	2017	2018	2019	2020
Annual consumption of flour for standard population, tonnes	87 300	90 400	90 823	92 735	94 066	94 297	95 997
Required grain seeds, tonnes	124 714	129 143	131 571	134 000	134 380	134 711	137 138
Required arability, ha	75 732	233 298	102 819	219 992	108 609	114 857	130 021
Grain harvested, tonnes	518 793	216 268	483 453	238 102	453 849	433 305	430 318
Supplies, percentage	416.0	167.5	367.4	177.7	337.7	321.7	313.8
Sown area, ha	315 033	390 690	377 802	390 860	366 809	369 445	407 986

Table 24. Crops

Description	2007	2008	2009	2010	2011	2012	2013
	tonnes						
Grain	114 778.2	212 894.1	391 658.6	355 060.9	446 050.5	479 348.8	387 043.3
Wheat	109 559.8	209 829.9	388 121.9	345 457.6	435 889.2	465 293.9	368 379.1
Barley	3 908.4	1 394.3	1 844.2	4 319.6	4 362.9	5 925.1	4 407.4
Oat	1 020.4	1 177.7	1 511.5	4 349.0	4 339.2	5 933.6	10 109.8
Others	289.6	492.2	181.1	934.7	1 459.2	2 196.2	4 147.0
Potatoes	114 439.9	134 772.7	151 211.0	167 955.8	201 638.9	245 935.0	191 619.2
Vegetables	76 430.5	78 552.5	77 976.1	82 266.4	98 973.9	98 917.6	101 750.1
Cabbages	20 563.3	18 087.2	19 034.0	17 855.8	20 896.8	20 247.7	20 622.8
Turnips	16 379.3	16 627.2	19 316.1	22 022.2	24 431.8	23 816.9	22 358.0
Carrots	22 536.4	23 454.9	22 541.6	24 430.4	29 466.1	32 754.8	34 530.9
Onions	3 354.1	4 029.2	3 884.2	5 427.8	5 479.2	5 528.1	9 317.0
Garlics	309.1	433.0	200.4	412.0	609.5	678.9	976.0
Cucumbers	2 881.2	2 845.4	3 075.0	3 351.6	4 373.9	3 668.4	4 340.9
Tomatoes	2 420.6	2 805.3	1 432.1	1 565.6	2 350.1	2 100.5	2 497.9
Watermelons	5 343.3	6 513.0	4 942.1	3 875.9	7 471.0	6 432.2	5 382.8
Others	2 643.2	3 757.4	3 550.5	3 325.2	3 895.5	3 690.2	1 723.8

Continuation of Table 24.

Description	2014	2015	2016	2017	2018	2019	2020
	tonnes						
Grain	518 793.0	216 267.8	483 453.4	238 101.9	453 849.2	433 305.4	430 317.9
Wheat	488 293.6	203 899.2	467 052.8	231 364.4	436 114.9	411 414.8	406 129.1
Barley	8 472.7	2 442.9	6 483.1	1 693.6	2 354.9	2 511.9	3 234.8
Oat	18 757.6	3 290.3	7 886.2	3 494.7	9 971.6	13 262.5	16 596.3
Others	3 269.0	6 635.4	2 031.3	1 549.2	5 407.9	6 116.2	4 357.7
Potatoes	161 488.5	163 766.9	165 329.5	121 808.5	168 882.6	192 239.9	244 261.6
Vegetables	104 791.9	72 347.6	94 447.2	82 102.0	100 731.7	99 546.5	121 235.1
Cabbages	18 691.2	15 440.2	16 680.1	15 214.3	18 790.0	21 884.5	24 376.9
Turnips	23 911.5	17 645.4	21 222.6	16 581.6	24 139.4	21 506.4	30 043.3
Carrots	34 715.6	18 490.1	31 022.0	21 681.4	26 315.7	28 868.3	33 799.5
Onions	9 435.9	6 693.4	9 985.3	12 129.5	14 095.3	9 515.1	11 354.5
Garlics	1 001.9	657.4	658.7	447.1	543.0	783.5	1 361.4
Cucumbers	4 716.4	3 839.3	3 734.1	3 922.3	3 761.4	4 707.4	6 054.4
Tomatoes	2 393.2	1 870.8	2 228.9	2 017.6	1 922.3	1 917.8	2 308.2
Watermelons	5 304.6	5 612.6	6 606.5	8 121.7	8 799.5	8 313.0	9 448.5
Others	4 621.6	2 098.4	2 309.0	1 353.9	2 365.0	2 050.4	2 488.4

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

Description	2007	2008	2009	2010	2011	2012	2013
Agriculture	18.4	19.2	17.9	11.6	10.2	11.2	13.4
Crop	2.4	3.6	4.4	1.3	0.6	0.8	1.2
Livestock	16.0	15.6	13.5	10.0	9.4	10.2	12.1
Other agriculture	-	-	-	0.3	0.2	0.2	0.2

Continuation of Table 25.

Description	2014	2015	2016	2017	2018	2019	2020
Agriculture	13.3	14.0	12.5	11.0	11.3	11.5	12.8
Crop	1.1	0.8	0.9	0.7	0.9	0.9	1.0
Livestock	12.0	13.1	11.5	10.2	10.3	10.5	11.8
Other agriculture	0.2	0.1	0.1	0.1	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	2055.7	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	34 334.0
	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	27 115.6
	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 26.

Main products		Meas.unit	2019		2020	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	3 827.5	24 483.5	2 620.2	19 740.4
	Mutton	tonnes	8 272.9	45 617.4	6 801.2	43 307.6
	Horse meat	tonnes	16147.18	84 960.04	10 618.3	50 852.8
	Chevon	tonnes	3 480.5	17 150.1	4 110.6	24 969.2
	Camel	tonnes	-	-	2.9	10.9
	Pork	tonnes	652.6	5 053.1	552.5	4 796.0
Meat products	Ham	tonnes	5 584.2	60 193.9	6 497.7	68 223.0
	Smoked, cooked and other processed meats	tonnes	2 446.5	20 084.4	2 941.4	17 785.0
	Offal	tonnes	966.6	2 334.2	413.2	945.7
	Intestines	thous.loops	704.0	8 491.6	577.6	7 818.0
	Canned meat	tonnes	253.6	2 316.9	308.0	2 438.8
Milk	Drinking milk	thous.liters	40 448.9	78 688.4	44 986.1	96 708.6
Dairy products	Milk cream	tonnes	3.6	38.8	5.6	64.5
	Clabber	thous.liters	13 745.0	34 624.1	15 894.9	43 477.7
	Camel milk	thous.liters	9.1	47 182.9	4.8	37.2
	Dried curds	tonnes	158.2	2 427.8	132.2	2 183.1
	Butter	tonnes	203.9	3 253.8	250.0	4 251.7
	Thick butter	tonnes	190.0	1 636.1	178.7	1 724.8
	Clotted milk, sour cream	tonnes	528.1	2 010.4	572.8	2 399.9
	Clarified butter	tonnes	131.5	614.3	16.5	401.3
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	21.8	341.2	103.0	1 484.2
	Curds	tonnes	484.9	8 830.3	563.5	11 940.6
	Casein	tonnes	0.0	0.0	0.8	9.8
	Ice-creams	thousand	104 766.6	26 169.5	103 063.5	26 788.3
Milk protein	kilograms	-	-	-	-	
Flour	Wheat flour, high grade	tonnes	48 216.3	47 997.9	51 612.4	52 970.8
	Wheat flour, first grade	tonnes	143 401.9	113 317.7	159 086.0	132 687.9
	Wheat flour, second grade	tonnes	17 314.6	9 230.0	24 415.7	13 154.8
	Animal fodder	tonnes	74 922.0	27 651.4	87 970.4	37 658.2
Flour products	Bread	tonnes	27 798.7	58 389.8	29 851.6	65 251.3
	Fine pastries	tonnes	21 215.5	70 327.6	25 251.0	85 113.5
	Traditional pastries	tonnes	640.1	3 419.2	638.2	3 608.6
	Cake	tonnes	2 469.8	23 018.0	2 750.1	25 823.7
	Cookies/Biscuits	tonnes	1 465.6	4 161.4	883.0	2 981.0
	Noodles/ Pastas	tonnes	8 842.7	14 004.5	4 615.8	7 287.9
Alcoholic drinks	Alcohol	thous.liters	10 143.1	31 273.2	10 063.7	25 325.8
	Vodka	thous.liters	26 874.0	243 927.4	24 285.4	258 909.3
	Wine	thous.liters	281.5	2 873.2	300.2	2 811.9
	Beers	thous.liters	91 975.1	113 946.4	92 802.2	96 602.6

Table 27. Export of main products, thousand.us.dollar

Main products		Meas.unit	2007		2008	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	8.0	48.0	129.0	102.3
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	20.0	5.0	-	-
Meat	Frozen beef	kilograms	3 879 344.0	6 263.3	4 210 403.0	8 497.8
	Mutton and goat meat	kilograms	76 944.2	151.7	40 050.0	280.4
	Horse meat	kilograms	7 072 796.0	9 769.0	6 097 064.0	10 983.6
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 082 252.4	685.1	1 561 595.4	928.0
	Intestines, bladder, tripe	kilograms	-	4 623.1	-	5 378.1
	Ham, sausage	kilograms	-	-	-	-
	Smoked, dried meat and offal	kilograms	6 626.0	57.4	1 621.6	18.5
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	261 187.9	209.1
	Clabber and dairy products	kilograms	15 540.9	14.3	11.2	0.3
	Butter	kilograms	-	-	-	-
	Cheese and dried curds	kilograms	-	-	12 970.0	24.6
Flour, flour products	Wheat flour, high grade	kilograms	-	-	250.0	0.2
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	120.0	0.1	50.0	-
Potatoes and vegetables	Potato	kilograms	15 000.5	2.0	52 775.0	6.8
	Onions and garlic	kilograms	-	-	103 805.5	12.9
	Cabbage	kilograms	0.3	-	12 000.0	1.5
	Carrots, beets and other root vegetables	kilograms	0.3	-	2 860.0	0.4
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	95 239.0	198.6	92 862.3	304.4
	Grape wine	liter	7.5	-	-	-
	Beer	liter	16 396.0	3.5	10 023.8	3.8

Continuation of Table 27.

Main products		Meas.unit	2009		2010	
			Quantity	Price	Quantity	Price
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	kilograms	8 818 488.0	17 789.1	3 806 283.0	8 063.9
	Mutton and goat meat	kilograms	585 161.0	774.4	12 082 134.2	25 850.0
	Horse meat	kilograms	8 635 333.0	14 464.2	10 874 958.0	18 971.0
	Pork	kilograms	-	-	3 000.0	2.5
Meat products	Offal	kilograms	568 405.7	430.8	2 048 647.8	1 499.5
	Intestines, bladder, tripe	kilograms	-	5 702.6	939 330.4	8 274.2
	Ham, sausage	kilograms	411.4	2.3	40.0	0.1
	Smoked, dried meat and offal	kilograms	839.0	2.0	-	-
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	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	-	-	3.0	0.0
	Wheat flour, second grade	kilograms	-	-	65 000.0	15.2
	Noodles, dumplings, couscous	kilograms	-	-	-	-
Potatoes and vegetables	Potato	kilograms	-	-	-	-
	Onions and garlic	kilograms	-	-	-	-
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	-	-	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	73 930.6	239.6	122 959.5	295.5
	Grape wine	liter	9.8	-	6 906.0	3.7
	Beer	liter	6 094.6	4.6	12 588.8	3.1

Continuation of Table 27.

Main products		Meas.unit	2011		2012	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	41.0	55.7	41.0	36.1
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	kilograms	5 795 889.0	13 926.1	965 090.0	3 301.3
	Mutton and goat meat	kilograms	505 000.0	1 153.6	675 142.0	1 775.3
	Horse meat	kilograms	3 865 148.4	8 837.4	1 462 115.6	4 765.3
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	414 573.3	196.2	821 225.8	511.9
	Intestines, bladder, tripe	kilograms	864 792.9	11 955.2	487 094.6	10 683.0
	Ham, sausage	kilograms	-	-	-	-
	Smoked, dried meat and offal	kilograms	120 100.0	13.0	1 805.0	13.0
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	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	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	347.0	0.3	200.0	0.1
Potatoes and vegetables	Potato	kilograms	-	-	-	-
	Onions and garlic	kilograms	-	-	4.5	0.0
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	-	-	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	48 497.9	218.9	19 198.0	232.0
	Grape wine	liter	-	-	360.0	1.2
	Beer	liter	1 800.0	0.4	17 091.0	13.7

Continuation of Table 27.

Main products		Meas.unit	2013		2014	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	47.0	32.9	73.0	37.8
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	kilograms	-	-	480 000.0	1 590.6
	Mutton and goat meat	kilograms	403 418.4	2 209.3	-	-
	Horse meat	kilograms	2 597 800.0	7 573.0	1 822 151.1	4 971.5
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	790 424.2	1 320.9	202 793.2	238.9
	Intestines, bladder, tripe	kilograms	592 629.4	11 716.5	377 450.0	8 036.8
	Ham, sausage	kilograms	-	-	-	-
	Smoked, dried meat and offal	kilograms	-	-	65 020.0	277.5
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	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	kilograms	1 850 000.0	508.8	-	-
	Noodles, dumplings, couscous	kilograms	11 350.0	32.4	5 741.0	5.0
Potatoes and vegetables	Potato	kilograms	2 487 696.0	391.7	4 483 776.5	571.8
	Onions and garlic	kilograms	-	-	-	-
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	-	-	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	154 926.5	1 304.5	53 053.4	394.6
	Grape wine	liter	-	-	1 037.3	10.0
	Beer	liter	90.0	0.7	6 297.3	9.1

Continuation of Table 27.

Main products		Meas.unit	2015		2016	
			Quantity	Price	Quantity	Price
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	kilograms	847 650.0	2 621.9	695 085.0	1 592.3
	Mutton and goat meat	kilograms	39 000.0	117.0	238 001.0	361.5
	Horse meat	kilograms	3 856 880.0	7 318.5	7 983 574.8	14 392.6
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	42 692.8	88.3	8 432.6	59.2
	Intestines, bladder, tripe	kilograms	432 723.7	8 863.2	503 756.7	6 645.2
	Ham, sausage	kilograms	1 340.4	5.3	12 524.8	38.1
	Smoked, dried meat and offal	kilograms	7 334.7	28.5	23 010.2	93.9
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	360.0	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	1 380 800.0	692.0	130.0	0.1
	Wheat flour, second grade	kilograms	-	-	55.0	0.0
	Noodles, dumplings, couscous	kilograms	11 925.0	13.3	83 438.0	175.2
Potatoes and vegetables	Potato	kilograms	-	-	-	-
	Onions and garlic	kilograms	-	-	-	-
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	739 000.0	112.1	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	17 917.9	92.8	30 195.0	141.8
	Grape wine	liter	1 560.0	13.7	1 525.5	13.0
	Beer	liter	75 438.2	75.1	162 377.8	1 183.0

Continuation of Table 27.

Main products		Meas.unit	2017		2018	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	117.0	110.0	171.0	180.1
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	1 050.0	40.7
Meat	Frozen beef	kilograms	600 000.0	1 643.3	1 054 582.5	3 175.8
	Mutton and goat meat	kilograms	2 601 590.4	8 267.0	6 131 117.8	15 567.7
	Horse meat	kilograms	26 118 706.0	44 529.2	32 200 812.0	64 974.0
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	127 859.7	189.4	1 631 250.6	2 179.7
	Intestines, bladder, tripe	kilograms	470 574.2	6 440.2	637 729.7	8 683.6
	Ham, sausage	kilograms	25 310.5	126.3	158 690.0	620.8
	Smoked, dried meat and offal	kilograms	29 443.0	233.4	18 716.0	131.3
Milk, dairy products	Drinking milk, milk cream	kilograms	1 360.0	2.3	1 980.0	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	kilograms	65 000.0	16.8	-	-
	Noodles, dumplings, couscous	kilograms	57 764.6	46.9	37 245.7	29.8
Potatoes and vegetables	Potato	kilograms	619 567.3	94.1	-	-
	Onions and garlic	kilograms	80.0	3.8	-	-
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	419 170.0	46.4	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	14 385.4	65.4	28 939.0	149.8
	Grape wine	liter	11 161.5	57.5	144.0	2.8
	Beer	liter	329 721.8	473.2	360 658.4	382.9

Continuation of Table 27.

Main products		Meas.unit	2019		2020	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	215.0	282.8	142.0	42.4
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	29 808.0	878.6
Meat	Frozen beef	kilograms	-	-	-	-
	Mutton and goat meat	kilograms	7 041 921.4	24 164.6	1 802 248.9	4 828.3
	Horse meat	kilograms	30 834 881.2	57 688.6	17 567 760.0	33 047.5
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	2 357 940.0	2 509.4	1 200 884.0	1 257.1
	Intestines, bladder, tripe	kilograms	568 048.8	8 627.5	857 263.7	9 269.5
	Ham, sausage	kilograms	10 126.0	50.4	-	-
	Smoked, dried meat and offal	kilograms	31 525.0	163.8	80 360.0	403.1
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	Clabber and dairy products	kilograms	1 673.4	2.0	199 298.8	119.5
	Butter	kilograms	2 000.0	44.9	299.6	2.4
	Cheese and dried curds	kilograms	3 333.2	15.8	42 039.4	227.2
Flour, flour products	Wheat flour, high grade	kilograms	-	-	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	36 266.7	28.0	10 795.0	9.5
Potatoes and vegetables	Potato	kilograms	-	-	-	-
	Onions and garlic	kilograms	3.0	0.1	-	-
	Cabbage	kilograms	-	-	-	-
	Carrots, beets and other root vegetables	kilograms	-	-	-	-
	Cucumbers	kilograms	-	-	-	-
Alcohol	Liqueur, whiskey, cognac, vodka	liter	33 867.2	242.5	50 242.5	696.0
	Grape wine	liter	45.0	0.7	-	-
	Beer	liter	511 576.8	531.6	152 796.0	158.6

Table 28. Import of main products, thousand.us.dollar

Main products		Meas.unit	2007		2008	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	69.0	31.6	124.0	137.0
	Cattle	heads	143.0	27.9	299.0	307.7
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	kilograms	-	-	2 493.4	38.6
	Frozen beef	kilograms	7 060.4	71.1	8.0	1.2
	Mutton and goat meat	kilograms	921.1	7.2	246.2	2.4
	Pork	kilograms	56 033.7	96.7	83 207.7	145.5
Meat products	Offal	kilograms	-	-	6.0	0.1
	Ham, sausage	kilograms	6 114.8	17.1	10 088.9	34.2
	Poultry meat and by-products	kilograms	1 071 619.1	1 264.2	2 249 375.3	3 000.3
	Smoked, dried meat and offal	kilograms	7 511.4	21.0	479.0	4.7
Milk, dairy products	Drinking milk, milk cream	liter	3 464 555.6	1 881.0	4 849 946.5	3 921.7
	Clabber and dairy products	kilograms	557 943.9	795.0	665 851.3	1 283.8
	Butter	kilograms	114 525.4	223.6	77 120.4	212.8
	Cheese and dried curds	kilograms	333 637.0	1 051.7	232 840.2	1 170.0
Flour, flour products	Wheat flour, high grade	kilograms	15 550 116.8	5 096.2	30 938 152.9	14 295.0
	Wheat flour, first grade	kilograms	92 085 079.6	23 014.8	97 595 831.9	38 892.2
	Wheat flour, second grade	kilograms	4 651 040.5	937.2	4 340 130.0	1 497.2
	Noodles, dumplings, couscous	kilograms	4 334 789.7	2 834.0	5 735 058.5	5 685.0
	Bread and sweet pastries	kilograms	9 182 753.0	12 559.3	11 210 564.3	21 184.7
Potatoes and vegetables	Potato	kilograms	30 170 184.3	3 629.8	35 445 785.0	5 086.2
	Onions and garlic	kilograms	1 936 810.3	364.7	14 358 858.0	2 039.4
	Cabbage	kilograms	12 964 960.6	1 504.7	20 565 259.1	2 645.5
	Carrots, beets and other root vegetables	kilograms	5 487 186.0	567.3	5 750 709.4	642.5
	Cucumbers	kilograms	1 838 512.5	388.3	4 242 839.9	891.7
Alcohol	Ethyl alcohol	liter	-	-	-	-
	Liqueur, whiskey, cognac, vodka	liter	178 708.6	1 939.1	178 218.4	2 621.0
	Grape wine	liter	2 419 497.2	5 099.3	2 040 857.9	5 094.3
	Beer	liter	17 041 046.4	10 777.8	20 469 118.3	13 621.3

Continuation of Table 28.

Main products		Meas.unit	2009		2010	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	72.0	111.5	436.0	294.6
	Cattle	heads	50.0	33.8	178.0	90.8
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	kilograms	1 366.7	14.0	12 060.2	144.9
	Frozen beef	kilograms	18.5	0.8	-	-
	Mutton and goat meat	kilograms	-	-	2 832.6	36.1
	Pork	kilograms	14 000.0	25.6	246 031.1	531.8
Meat products	Offal	kilograms	-	-	15 051.0	12.9
	Ham, sausage	kilograms	10 276.5	35.7	73 986.5	325.1
	Poultry meat and by-products	kilograms	2 432 273.0	3 552.5	4 827 240.1	5 877.0
	Smoked, dried meat and offal	kilograms	308.6	2.2	105 659.8	183.0
Milk, dairy products	Drinking milk, milk cream	liter	993 631.9	771.9	194 071.6	220.5
	Clabber and dairy products	kilograms	643 459.3	1 062.6	690 109.7	1 247.8
	Butter	kilograms	83 244.2	194.4	106 072.2	440.4
	Cheese and dried curds	kilograms	140 999.3	554.3	275 287.6	1 163.3
Flour, flour products	Wheat flour, high grade	kilograms	32 508 870.7	10 174.8	17 094 330.8	4 961.8
	Wheat flour, first grade	kilograms	69 439 573.6	19 234.6	45 597 516.7	10 088.1
	Wheat flour, second grade	kilograms	3 767 500.0	1 021.3	2 137 500.0	514.5
	Noodles, dumplings, couscous	kilograms	6 268 624.3	5 502.4	8 786 954.9	7 992.8
	Bread and sweet pastries	kilograms	9 210 126.6	16 060.6	11 863 007.4	20 417.2
Potatoes and vegetables	Potato	kilograms	23 215 155.5	3 183.4	8 504 979.0	1 846.2
	Onions and garlic	kilograms	11 230 445.4	2 186.7	14 594 534.1	2 982.9
	Cabbage	kilograms	19 809 077.4	2 804.9	25 148 549.4	3 716.1
	Carrots, beets and other root vegetables	kilograms	15 116 309.6	2 228.2	10 145 456.1	1 737.5
	Cucumbers	kilograms	970 594.0	303.3	1 396 919.0	432.5
Alcohol	Ethyl alcohol	liter	-	-	-	-
	Liqueur, whiskey, cognac, vodka	liter	124 463.8	1 391.8	154 602.2	2 185.3
	Grape wine	liter	979 896.4	2 324.2	1 673 867.7	4 045.1
	Beer	liter	10 629 803.8	7 254.1	18 847 787.5	12 166.3

Continuation of Table 28.

Main products		Meas.unit	2011		2012	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	166.0	112.6	270.0	209.1
	Cattle	heads	446.0	1 284.9	176.0	1 141.8
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	kilograms	15 402.5	263.6	16 138.7	288.6
	Frozen beef	kilograms	1 265.5	23.6	11 817.8	56.9
	Mutton and goat meat	kilograms	7 290.8	104.5	17 839.6	133.5
	Pork	kilograms	1 151 623.5	3 414.7	1 728 611.7	5 027.1
Meat products	Offal	kilograms	30 516.0	31.0	50 709.7	72.3
	Ham, sausage	kilograms	22 971.7	105.9	36 619.0	104.2
	Poultry meat and by-products	kilograms	5 999 250.5	7 372.7	8 275 416.4	12 549.8
	Smoked, dried meat and offal	kilograms	21 156.8	64.5	5 051.7	10.3
Milk, dairy products	Drinking milk, milk cream	liter	121 393.5	151.7	729 594.8	800.9
	Clabber and dairy products	kilograms	803 175.5	1 600.8	822 719.2	1 798.9
	Butter	kilograms	101 434.9	450.4	108 292.0	493.8
	Cheese and dried curds	kilograms	346 353.6	1 692.8	493 433.4	2 114.5
Flour, flour products	Wheat flour, high grade	kilograms	28 909 657.6	11 259.5	22 662 796.1	8 424.9
	Wheat flour, first grade	kilograms	37 906 048.0	12 531.4	26 356 485.5	7 839.1
	Wheat flour, second grade	kilograms	10 438.0	2.9	487.6	0.2
	Noodles, dumplings, couscous	kilograms	11 179 308.4	12 650.6	12 219 608.7	17 137.4
	Bread and sweet pastries	kilograms	14 752 067.3	28 106.1	14 973 019.7	30 809.5
Potatoes and vegetables	Potato	kilograms	5 779 990.2	1 851.4	3 162 439.9	866.1
	Onions and garlic	kilograms	15 242 744.4	2 843.5	10 477 145.7	1 861.1
	Cabbage	kilograms	34 306 551.9	5 201.6	34 523 227.3	5 156.6
	Carrots, beets and other root vegetables	kilograms	20 594 216.3	2 947.4	18 462 496.3	2 648.6
	Cucumbers	kilograms	1 131 007.5	474.8	1 283 233.1	380.6
Alcohol	Ethyl alcohol	liter	-	-	2 001.0	12.5
	Liqueur, whiskey, cognac, vodka	liter	398 110.2	4 442.2	543 037.1	7 401.0
	Grape wine	liter	2 260 708.0	6 221.0	2 166 481.7	6 530.2
	Beer	liter	21 943 255.8	13 501.3	28 674 544.1	18 030.7

Continuation of Table 28.

Main products		Meas.unit	2013		2014	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	144.0	130.6	159.0	123.5
	Cattle	heads	50.0	370.6	885.0	3 271.0
	Sheep and goat	heads	214.0	214.1	48.0	13.5
Meat	Fresh beef	kilograms	11 209.2	217.7	4 097.9	77.8
	Frozen beef	kilograms	70 807.5	276.7	2 752.9	56.3
	Mutton and goat meat	kilograms	1 022.1	17.4	-	-
	Pork	kilograms	1 643 015.1	4 606.6	1 981 871.5	5 001.1
Meat products	Offal	kilograms	69 760.0	81.6	192 741.5	236.7
	Ham, sausage	kilograms	62 897.9	216.7	56 442.5	218.4
	Poultry meat and by-products	kilograms	9 309 623.3	15 870.8	8 870 824.1	15 537.4
	Smoked, dried meat and offal	kilograms	48 935.8	247.0	57 221.6	323.1
Milk, dairy products	Drinking milk, milk cream	liter	189 480.1	254.3	191 656.4	243.2
	Clabber and dairy products	kilograms	1 110 113.8	2 231.3	904 375.5	1 716.8
	Butter	kilograms	139 380.0	637.2	143 243.1	727.2
	Cheese and dried curds	kilograms	801 890.8	3 608.8	889 023.2	3 872.0
Flour, flour products	Wheat flour, high grade	kilograms	17 062 909.2	7 903.1	13 500 396.8	5 444.4
	Wheat flour, first grade	kilograms	5 531 059.7	1 739.9	3 087 681.0	1 001.2
	Wheat flour, second grade	kilograms	858.5	1.2	12 118.4	6.7
	Noodles, dumplings, couscous	kilograms	13 682 520.7	21 559.0	11 247 417.2	18 294.5
	Bread and sweet pastries	kilograms	14 731 063.1	31 732.9	14 422 215.9	31 413.3
Potatoes and vegetables	Potato	kilograms	31 985.0	10.5	5 409 524.2	1 008.3
	Onions and garlic	kilograms	16 241 113.6	2 781.1	19 074 749.9	3 584.9
	Cabbage	kilograms	23 094 422.6	3 617.0	23 899 081.0	4 424.6
	Carrots, beets and other root vegetables	kilograms	10 427 565.2	1 516.2	9 112 833.9	1 483.5
	Cucumbers	kilograms	3 044 678.0	791.9	2 980 605.0	825.9
Alcohol	Ethyl alcohol	liter	78.3	0.8	763.0	12.5
	Liqueur, whiskey, cognac, vodka	liter	422 897.9	5 706.7	459 017.7	7 039.3
	Grape wine	liter	1 477 878.0	6 188.8	1 778 995.7	6 699.2
	Beer	liter	33 208 000.1	18 840.1	21 676 348.5	11 737.2

Continuation of Table 28.

Main products		Meas.unit	2015		2016	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	434.0	389.8	279.0	179.3
	Cattle	heads	5.0	1.6	122.0	253.1
	Sheep and goat	heads	20.0	5.0	117.0	40.2
Meat	Fresh beef	kilograms	2 724.5	47.0	5 454.1	107.5
	Frozen beef	kilograms	1 973.2	44.2	78 316.0	178.9
	Mutton and goat meat	kilograms	-	-	60 701.0	90.5
	Pork	kilograms	1 795 649.0	3 469.4	1 591 430.8	3 964.2
Meat products	Offal	kilograms	322 197.0	319.5	95 218.0	87.1
	Ham, sausage	kilograms	90 736.5	288.8	42 708.8	137.3
	Poultry meat and by-products	kilograms	5 826 311.7	10 831.5	7 372 315.7	12 630.6
	Smoked, dried meat and offal	kilograms	37 141.9	186.5	39 510.4	169.1
Milk, dairy products	Drinking milk, milk cream	liter	197 247.1	161.6	4 464.0	4.4
	Clabber and dairy products	kilograms	855 999.2	1 135.2	783 852.4	1 068.4
	Butter	kilograms	224 191.1	847.2	292 366.3	1 064.1
	Cheese and dried curds	kilograms	924 692.1	3 558.3	720 746.0	2 648.9
Flour, flour products	Wheat flour, high grade	kilograms	8 936 664.0	2 999.9	21 013 267.0	5 916.6
	Wheat flour, first grade	kilograms	10 826 668.0	2 855.2	8 355 020.0	2 148.2
	Wheat flour, second grade	kilograms	-	-	480 000.0	108.6
	Noodles, dumplings, couscous	kilograms	10 954 762.1	16 397.5	10 211 289.9	14 472.3
	Bread and sweet pastries	kilograms	13 678 941.0	26 458.1	14 708 908.4	28 378.1
Potatoes and vegetables	Potato	kilograms	17 058 918.5	3 468.2	656 033.4	215.2
	Onions and garlic	kilograms	8 623 304.7	2 227.3	12 441 664.4	2 714.2
	Cabbage	kilograms	24 487 856.8	4 603.3	24 587 497.1	4 885.3
	Carrots, beets and other root vegetables	kilograms	2 297 109.4	518.4	8 597 232.0	1 595.5
	Cucumbers	kilograms	3 284 218.0	776.6	1 845 170.8	434.7
Alcohol	Ethyl alcohol	liter	533.7	3.4	377.0	1.6
	Liqueur, whiskey, cognac, vodka	liter	417 132.9	4 865.7	769 230.1	5 411.9
	Grape wine	liter	1 448 336.4	5 059.2	1 277 151.8	4 177.4
	Beer	liter	15 860 521.8	7 193.5	16 684 900.3	6 861.9

Continuation of Table 28.

Main products		Meas.unit	2017		2018	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	371.0	232.8	367.0	261.2
	Cattle	heads	370.0	627.6	-	-
	Sheep and goat	heads	687.0	624.6	200.0	138.9
Meat	Fresh beef	kilograms	4 119.8	85.8	-	-
	Frozen beef	kilograms	1 865.0	32.1	3 165.3	80.5
	Mutton and goat meat	kilograms	-	-	-	-
	Pork	kilograms	2 430 534.0	6 023.2	3 061 893.8	6 896.2
Meat products	Offal	kilograms	176 426.0	187.7	278 411.0	355.7
	Ham, sausage	kilograms	187 339.1	404.5	40 304.7	123.6
	Poultry meat and by-products	kilograms	9 378 200.2	14 823.7	11 642 071.4	21 490.7
	Smoked, dried meat and offal	kilograms	6 533.8	43.5	28 671.1	121.3
Milk, dairy products	Drinking milk, milk cream	liter	61 333.4	234.1	101 458.9	309.6
	Clabber and dairy products	kilograms	1 133 940.8	1 852.2	1 475 524.5	2 514.8
	Butter	kilograms	408 813.2	1 918.3	327 480.9	1 659.5
	Cheese and dried curds	kilograms	1 067 076.3	4 203.4	1 396 208.5	5 488.5
Flour, flour products	Wheat flour, high grade	kilograms	-	-	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	11 402 800.6	17 535.9	12 628 722.4	21 731.3
	Bread and sweet pastries	kilograms	14 511 670.0	29 494.5	17 370 450.0	34 526.4
Potatoes and vegetables	Potato	kilograms	441 443.5	109.9	2 891 960.6	568.1
	Onions and garlic	kilograms	17 374 781.1	3 694.1	28 113 563.3	4 742.5
	Cabbage	kilograms	30 041 102.3	5 536.4	28 346 209.2	5 432.0
	Carrots, beets and other root vegetables	kilograms	9 949 677.0	1 810.8	9 636 991.9	1 682.9
	Cucumbers	kilograms	728 632.1	169.0	824 634.8	210.4
Alcohol	Ethyl alcohol	liter	-	-	520.8	2.4
	Liqueur, whiskey, cognac, vodka	liter	882 121.9	8 788.7	1 169 698.9	11 249.5
	Grape wine	liter	1 807 879.4	6 560.9	2 087 430.9	7 647.6
	Beer	liter	6 386 021.5	3 781.3	7 355 918.6	4 762.3

Continuation of Table 28.

Main products		Meas. unit	2019		2020	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	675.0	498.5	39.0	25.3
	Cattle	heads	354.0	610.2	96.0	313.7
	Sheep and goat	heads	-	-	-	-
Meat	Fresh beef	kilograms	68.9	1.6	-	-
	Frozen beef	kilograms	3 083.4	67.8	7 476.5	85.2
	Mutton and goat meat	kilograms	119 412.0	423.1	-	-
	Pork	kilograms	2 050 347.8	5 923.0	3 357 305.2	8 790.1
Meat products	Offal	kilograms	225 280.7	225.7	379 918.4	381.6
	Ham, sausage	kilograms	58 226.9	135.6	46 385.8	175.1
	Poultry meat and by-products	kilograms	13 215 027.6	24 597.9	15 059 108.4	23 554.2
	Smoked, dried meat and offal	kilograms	27 024.9	87.4	33 420.5	249.8
Milk, dairy products	Drinking milk, milk cream	liter	115 380.7	431.2	123 711.8	412.6
	Clabber and dairy products	kilograms	1 992 375.8	3 650.1	2 429 285.9	4 312.0
	Butter	kilograms	225 850.8	1 328.4	264 475.5	1 391.5
	Cheese and dried curds	kilograms	1 533 515.2	6 032.0	1 745 677.6	7 065.0
Flour, flour products	Wheat flour, high grade	kilograms	2 855 817.0	942.5	1 211 200.0	455.1
	Wheat flour, first grade	kilograms	26 596.0	11.8	-	-
	Wheat flour, second grade	kilograms	3 456.0	1.4	75,000.0	16.9
	Noodles, dumplings, couscous	kilograms	11 894 667.6	22 668.8	12 965 213.4	22 298.6
	Bread and sweet pastries	kilograms	18 793 350.2	39 438.6	18 399 500.4	38 396.7
Potatoes and vegetables	Potato	kilograms	385 037.0	79.5	8 900.0	2.0
	Onions and garlic	kilograms	18 406 346.0	3 063.8	22 422 797.9	4 303.4
	Cabbage	kilograms	29 438 071.9	5 325.9	28 082 920.5	5 726.5
	Carrots, beets and other root vegetables	kilograms	8 343 220.0	1 594.0	4 698 370.5	896.6
	Cucumbers	kilograms	483 609.3	129.9	333 234.5	83.7
Alcohol	Ethyl alcohol	liter	8.0	0.9	1 510.0	5.7
	Liqueur, whiskey, cognac, vodka	liter	1 327 813.3	13 810.7	1 414 756.5	13 949.8
	Grape wine	liter	1 750 221.4	6 339.8	1 548 714.8	5 672.9
	Beer	liter	5 304 446.2	4 475.6	6 125 589.6	5 450.2

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

Products	2007	2008	2009	2010	2011	2012	2013
	Thousand liters						
Production	36 685.0	43 465.7	57 447.1	68 884.3	86 170.1	95 324.3	98 566.8
Export	111.6	103.9	76.1	134.2	50.3	30.9	137.1
Import	19 629.4	22 741.9	11 727.7	20 834.9	24 963.6	31 799.0	35 531.6
Supply of production and import	56 202.8	66 103.7	69 098.7	89 585.0	111 083.4	127 092.4	133 961.3

Continuation of Table 29.

Products	2014	2015	2016	2017	2018	2019	2020
	Thousand liters						
Production	101 124.8	104 732.7	108 267.6	116 019.6	130 740.2	129 273.7	127 451.5
Export	60.4	94.9	194.0	355.5	389.7	545.5	203.0
Import	24 359.0	18 117.1	19 069.2	9 482.1	10 613.6	8 382.5	9 090.6
Supply of production and import	125 423.4	122 754.9	127 142.8	125 146.2	140 964.0	137 110.7	136 339.1

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

Production	2007	2008	2009	2010	2011	2012	2013
	liters						
Per capita of total population	4.7	5.8	6.4	7.4	9.2	9.5	8.7
18 and above	7.3	8.9	9.7	11.0	13.6	14.0	12.5
21 and above	8.2	9.9	10.9	12.3	15.0	15.3	13.6

Continuation of Table 30

Production	2014	2015	2016	2017	2018	2019	2020
	liters						
Per capita of total population	8.3	7.1	8.1	8.3	9.6	8.9	8.1
18 and above	12.0	10.5	12.7	13.0	14.8	13.9	12.6
21 and above	13.0	11.4	13.3	13.6	15.8	14.9	13.5

Table 31. Safe drinking water production, by volume

Production	2007	2008	2009	2010	2011	2012	2013
	Thousand liters						
Fresh and mineral water	12 468.6	17 506.4	16 657.3	24 311.5	31 827.7	33 203.6	38 300.0

Continuation of Table 31

Production	2014	2015	2016	2017	2018	2019	2020
	Thousand liters						
Fresh and mineral water	50 188.6	58 224.0	59 104.7	60 682.0	73 740.3	98 640.5	74 568.5

Tables 32. Number of workers, by sector

Description	2007	2008	2009	2010	2011	2012	2013
	Thousand people						
Total	1 024.1	1 041.7	1 006.3	1 033.7	1 037.7	1 056.4	1 103.6
Agriculture, forestry, fishing, hunting	385.6	377.6	348.8	346.6	342.8	370.0	329.1
Mining and extraction	44.1	46.5	34.8	34.1	45.1	46.7	50.3
Processing industry	47.9	47.5	62.7	64.8	65.8	64.9	81.0
Electricity, gas, steam and ventilation supply	31.1	30.1	9.5	12.4	11.9	14.5	13.8
Water supply, wastewater treatment and waste management	-	-	6.1	7.8	5.1	6.7	7.9
Construction	60.0	66.8	49.6	48.8	52.0	59.2	72.4
Wholesale and retail trade, repair of machinery and motorcycles	162.2	169.7	160.3	146.2	152.5	131.3	156.0
Transportation and storage service	33.2	35.8	68.7	76.5	75.8	56.1	65.9
Accommodation and food service	32.4	34.5	23.3	27.7	26.4	30.2	31.7
Information and communication service	10.9	10.5	10.2	14.5	11.5	14.7	16.7
Financial and insurance service	17.4	19.8	12.3	15.2	16.6	17.4	20.9
Real estate industry	14.5	12.0	0.2	0.5	0.3	1.2	0.8
Professional scientific and technical service	-	-	10.9	9.5	11.4	11.3	13.6
Administration and supportive service	-	-	8.9	9.4	9.2	13.3	15.0
Public administration and defense activities and social security service	48.5	50.9	56.1	61.0	55.6	62.9	65.3
Education	64.8	66.2	74.9	85.3	85.5	86.3	89.8
Health and social activities	40.2	42.3	35.7	40.3	36.4	37.5	40.4
Arts, entertainment and festivals	-	-	6.9	8.5	7.8	7.4	9.2
Other service activities	19.7	19.7	22.3	21.4	21.8	19.8	20.2
Household activities that employ people	7.5	7.7	1.9	0.9	1.8	1.3	1.4
Others	4.1	4.1	2.2	2.3	2.4	3.7	2.2

Continuation of Table 32.

Description	2014	2015	2016	2017	2018	2019	2020
	Thousand people						
Total	1 110.7	1 151.2	1 147.8	1 238.3	1 253.0	1 146.2	1162.9
Agriculture, forestry, fishing, hunting	310.7	327.6	348.5	356.4	334.1	290.2	276.5
Mining and extraction	40.9	42.6	38.2	52.0	57.7	57.9	51.5
Processing industry	85.5	81.3	86.1	93.1	100.8	90.4	89.7
Electricity, gas, steam and ventilation supply	15.5	15.6	16.2	17.5	16.3	19.3	14.4
Water supply, wastewater treatment and waste management	7.1	5.9	6.0	4.9	6.9	10.8	8.3
Construction	81.1	88.1	71.5	70.6	76.6	68.8	77.3
Wholesale and retail trade, repair of machinery and motorcycles	170.2	178.2	172.7	204.5	211.2	160.4	166.6
Transportation and storage service	69.8	72.7	65.9	72.7	73.6	61.1	66.6
Accommodation and food service	36.6	37.8	32.1	36.4	37.5	36.3	30.0
Information and communication service	17.8	16.0	18.1	14.5	14.1	13.0	18.8
Financial and insurance service	22.9	23.8	21.9	24.1	25.7	24.3	29.3
Real estate industry	1.1	1.0	0.8	0.4	0.8	1.2	3.4
Professional scientific and technical service	12.5	14.1	12.7	12.7	14.6	18.0	11.6
Administration and supportive service	12.0	16.0	15.0	20.8	18.2	20.2	18.1
Public administration and defense activities and social security service	66.1	68.1	74.2	82.2	76.2	86.0	83.4
Education	89.6	89.1	95.0	98.9	98.7	96.1	110.7
Health and social activities	37.5	38.2	41.0	40.0	49.5	44.4	60.2
Arts, entertainment and festivals	10.6	12.3	10.1	10.1	13.8	18.0	10.8
Other service activities	20.1	20.2	19.8	22.7	23.4	24.5	29.8
Household activities that employ people	1.4	1.0	1.1	2.3	1.2	3.3	3.3
Others	1.6	1.7	1.1	1.5	2.3	2.0	2.6