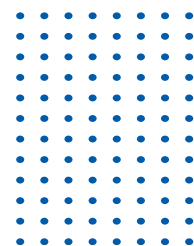




**NATIONAL  
STATISTICS OFFICE  
OF MONGOLIA**

# INDICATORS FOR FOOD SECURITY STATISTICS 2021



ULAANBAATAR  
2022

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## Acronyms

EEO	Economic entity, organization
UNFAO	Food and Agriculture Organization of the United Nations
GAC	General Administration of Customs
GDP	Gross domestic production
GoM	Government of Mongolia
GASI	Government agency for specialized inspection
HACCPs	Hazard analysis and critical control points system
HSES	Household Socio - Economic Survey
MASM	Mongolian agency for standard 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 five areas: food availability; food accessibility; dietary energy and nutrients, prevalence of food insecurity in the mongolian population <sup>1</sup> and food safety.

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<sup>1</sup> Calculation method for SDG indicator 2.1.2 /<https://www.fao.org/sustainable-development-goals/indicators/212/en/>

## ONE. METHODOLOGY FOR ESTIMATING FOOD SECURITY STATISTICAL INDICATORS

Components of food security are 1) food availability 2) energy and nutrients intake 3) food safety. The terms used in this guideline are understood as below:

Food security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food which meets their dietary needs and food preferences for an active and healthy life;

Food availability is the availability of sufficient quantities of food of appropriate quality, supplied through domestic production or imports (including food aid).;

Total food reserve is the sum of domestically produced food and net imported food;

Net export is the sum of total exports minus total imports;

Dietary energy requirements means amount of food with adequate energy and nutrients that are needed for basal metabolism, normal functions of the body, cell function and replacements, and to balance energy expenditure;

Standard population means population selected in order to adjust for different age groups;

Daily intake of foods for standard person means food products to be taken per day, containing enough energy and nutrients that are needed for basal metabolism, normal functions of the body, cell function and replacements, and to balance energy expenditure of a human;

Annual food intake for standard person is sum of daily food intake of standard person (reference intake) multiplied by 365 days;

Annual intake of food commodities for standard population means the sum of daily food intake of standard person multiplied by number of standard population of the mean year;

Percentage of food supply is the comparison of national annual reserve of given food product against annual food intake for standard population;

Food accessibility means adequate nutritious foods available for human;

Food consumption is amount of safe food taken to provide energy and nutrients;

Energy and nutrients means the components in food products, essential for growth and development of body and metabolic system of organism;

Energy is an amount of heat released by heating water vapor by 10C; (heat generated by breaking down 1gr of protein, fat, carbohydrates in human organism);

Nutrients mean proteins, fats, carbohydrates, various vitamins and minerals;

Food safety means safeguarding quality and hygiene of foods and food raw materials at all stages of food value chain;

Food hygiene means conditions and measures taken to ensure food safety from growing, producing, and processing to human consumption;

Food value chain means all activities from inputs, production, fortification, processing, packaging, transporting, storing, stockpiling, marketing, exporting, importing, food production, getting and giving food aids;

Household income means the sum of monetary and non-monetary incomes gained by household members. Monetary incomes are salary, pension, welfare, income from business activities, livestock sales, interest's payments, dividends and other earnings; and non-monetary incomes are free consumptions and gaining from own and other's farms that are expressed in monetary terms.

Household food expenditures mean all monetary expenses paid by households to buy foods;

## Food supply

Methodology for estimating food supply. Food supply statistical indicators are estimated at two levels: national and household.

Food supply at national level. Estimation of food supply, by physical amounts, at national level is carried out through following stages:

Defining standard population. In order to estimate food utilization of the population, the standard population needs to be defined. To define standard population, each age group shall be multiplied by conversion multipliers as set out in Annex 1, and summed up.

Size of standard population is calculated using formula below:

$$X_{\text{Жиш}} = \sum(K_a * X_{Aa}) \quad (1)$$

$X_{\text{Жиш}}$  - size of standard population of the mean year

$K_a$  - conversion multipliers for age group A into standard population

$X_{Aa}$  - size of population in age group A

Estimating annual food consumption for standard population.

Annual food utilization for standard person is multiplied by the number of standard population to have annual food utilization amount. Annual food consumption of standard population is estimated by using formula below:

$$ЖХУ_{\text{жиш}} = ЖХ1_{\text{жиш}} * X_{\text{Жиш}} \quad (2)$$

$ЖХУ_{\text{жиш}}$  - annual food utilization of standard population

$ЖХ1_{\text{жиш}}$  - annual food utilization of standard person

$X_{\text{Жиш}}$  - number of standard population of mean year

Production, export and import data of food commodities are collected by physical amounts, and amount of consumed reserve is calculated. Total reserve of food commodities that're utilized shall be the sum of domestic production and net export of the mean food commodity. Net export is calculated by the imbalance between import and export. The utilized reserve is calculated using formula below:

$$H_e = DY + (I - E) \quad (3)$$

Нө - Reserve

ДҮ - Domestic production

И - Import

Э - Export

The utilization of food reserve shall be estimated in each food category.

Food supply percentage of is calculated in each category of food commodities, by physical amount. In order to estimate food supply, the food reserve is divided by annual food utilization of standard population and multiplied by 100. Food supply shall be estimated in each food category. The calculation formula:

$$\text{XXхувь} = \text{Нө} \cdot 100 \text{ ЖХжиш}$$

ЖХжиш - Annual food utilization of standard population

Нө - Reserve

XXхувь - Percentage of food supply

Domestic production and net export values are compared against total consumption of the mean year in order to define the percentage of food supply met by domestic production and imports in the mean year.

Food accessibility at household level

Complex indicators are used to assess food accessibility at household level, including household food consumption, food inadequacy, fear of food inadequacy, underlying causes of food inadequacy, etc. Household food accessibility is assessed in urban and rural areas in following steps depending on seasonality:

1. Daily intake of food for standard household member is defined and compared against norms.

1.1 Define monthly household food consumption and number of standard person of respondent households.

1.2 Use ratio of unit product (liquid milk, carcass meat, flour, sugar) to meat and meat products, milk and dairy products, flour and flour products.

1.3 Define monthly food utilization of standard person by dividing total food consumption of respondent households by number of standard person.

1.4 Divide monthly food utilization of standard person by 30 days to have daily food consumption amount of standard person.

1.5 Compare surveyed daily food intake of standard person against reference daily intake of food.

The difference between actual food intake and reference intake is expressed in physical value and percentage.

Food energy and nutrients

Methodology to estimate intake of dietary energy and nutrients. Food provides macronutrients, vitamins, minerals and micronutrients to human. Macronutrients are protein, fat and carbohydrates.



Calorie (kcal) is unit that is used to measure energy and nutrients.

Carbohydrates are found largely in grain products including rice, pastas, bread. Carbohydrate provides 4 calories per gram.

Fat is mainly found in livestock products, vegetables, nuts, fishery products, sunflower, and pumpkin. Fat provides 9kcal per gram.

Protein is found in meat, tofu, soybean, egg, cereals, dairy products, milk, and cheese. Protein provides 4kcal per gram.

## TWO. 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 2021, the number of Mongolian resident population was at 3312.3 thousand which had been increased by 59.0 thousand people or 1.8% and the standard population was at 2682.6 thousand which had been increased by 52.6 thousand people or 2.0%.

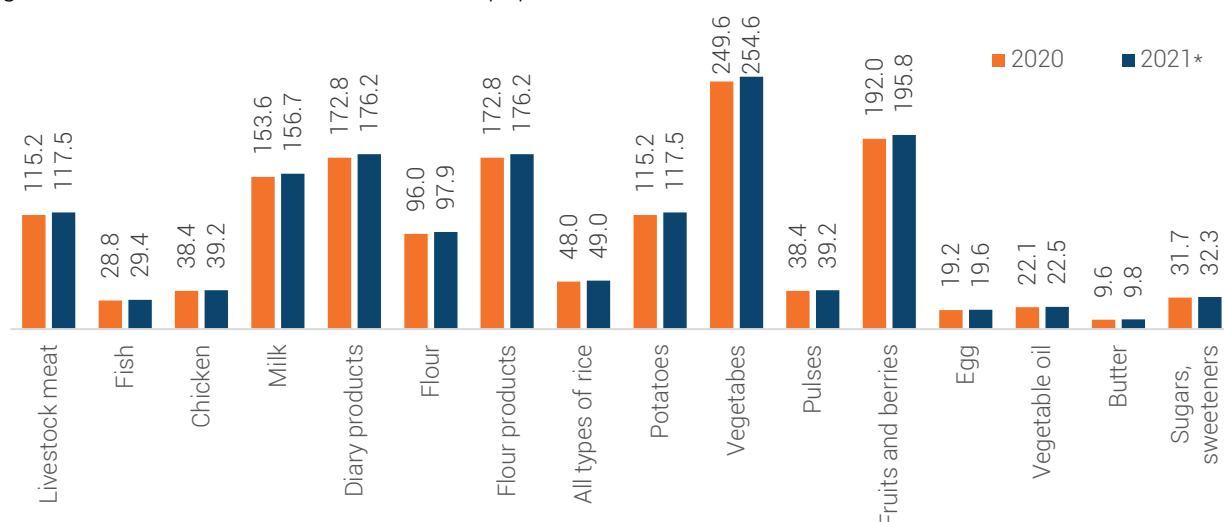
TABLE 1. POPULATION

	2017	2018	2019	2020	2021*	Increase	
	thousand people					difference	%
Number of resident population	3 131.8	3 186.3	3 197.0	3 253.3	3 312.3	59.0	1.8
Number of standard population*	2 540.7	2 577.2	2 583.5	2 630.0	2 682.6	52.6	2.0

\* 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 2021, the national demand for food estimated at 186.0 thousand tonnes of meat and meat products, 156.7 thousand tonnes of milk, 176.2 thousand tonnes of dairy products, 97.9 thousand tonnes of flour, 176.2 thousand tonnes of flour products, 49.0 thousand tonnes of rice, 32.3 thousand tonnes of sugar and sweeteners, 117.5 thousand tonnes of potatoes, 254.6 thousand tonnes of vegetables, 39.2 thousand tonnes of pulses, 195.8 thousand tonnes of fruits and berries, 19.6 thousand tonnes of eggs, 22.5 thousand tonnes of vegetable oil and 9.8 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 0.2-5.0 thousand tonnes compared to previous year. The biggest increase was recorded in demand for milk, dairy products, flour and flour products, meat and meat products, fruits, vegetables by 3.1-5.0 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	2021*
	kilogramm	thousand tonnes				
Meat and meat products	69.4	176.2	178.7	179.2	182.4	69.4
Livestock meat	43.8	111.3	112.9	113.2	115.2	43.8
Fish	11.0	27.8	28.2	28.3	28.8	11.0
Poultry	14.6	37.1	37.6	37.7	38.4	14.6
Milk	58.4	148.4	150.5	150.9	153.6	58.4
Dairy products	65.7	166.9	169.3	169.7	172.8	65.7
Flour and flour products	102.2	259.7	263.4	264.0	268.8	102.2
Flour	36.5	92.7	94.1	94.3	96.0	36.5
Flour products	65.7	166.9	169.3	169.7	172.8	65.7
All types of grains	18.3	46.4	47.0	47.1	48.0	18.3
Potatoes	43.8	111.3	112.9	113.2	115.2	43.8
Vegetables	94.9	241.1	244.6	245.2	249.6	94.9
Pulses	14.6	37.1	37.6	37.7	38.4	14.6
Fruits and berries	73.0	185.5	188.1	188.6	192.0	73.0
Eggs	7.3	18.5	18.8	18.9	19.2	7.3
Vegetable oil	8.4	21.3	21.6	21.7	22.1	8.4
Butter	3.7	9.3	9.4	9.4	9.6	3.7
Sugars, sweeteners	12.0	30.6	31.0	31.1	31.7	12.0

Source: MoH

**3. Production.** In 2021, total of 750.0 thousand tonnes of milk, 512.4 thousand tonnes of meat and meat products, 218.2 thousand tonnes of flour and flour products, 182.6 thousand tonnes of potatoes, 121.7 thousand tonnes of vegetables, 118.5 thousand tonnes of sugars, sweeteners 10.4 thousand tonnes of eggs, 2.4 thousand tonnes of fruits and berries and 0.3 thousand tonnes of butter were produced domestically.



TABLE 3. TOTAL PRODUCTION<sup>1</sup>, by volume, tonnes

Food categories	2020		2021*		Changes rate, %
	Domestic production	Export	Domestic production	Export	Domestic production
Meat and meat products	744 261.8	20 664.6	512 424.3	9 857.3	-31.1
Livestock meat	743 689.4	20 630.9	512 178.5	9 857.3	-31.1
Fish	33.7	33.7	0.0	0.0	-
Poultry	538.7	0.0	245.8	0.0	-54.4
Milk	776 293.8	0.0	704 974.4	0.0	-9.2
Dairy products	82 708.4	481.0	84 479.7	339.6	2.1
Flour and flour products	235 292.8	20.3	218 158.7	12.0	-7.3
Flour	189 949.7	0.2	164 346.1	5.0	-13.5
Flour products	45 343.1	20.1	53 812.6	7.0	18.7
All types of grains	0.0	0.0	0.0	0.0	-
Potatoes	244 261.6	0.0	182 638.2	0.0	-25.2
Vegetables	121 235.2	84.0	121 743.4	0.0	0.4
Pulses	36.4	0.0	50.5	0.0	38.6
Fruits and berries	1 665.4	33.6	2 421.7	25.4	45.4
Eggs	8 482.5	0.0	10 356.9	0.0	22.1
Vegetable oil	17.2	0.0	307.5	0.0	17.9'
Butter	250.2	0.3	256.6	0.1	2.6
Sugars, sweeteners	126 606.4	37.5	118 457.7	8.0	-6.4

Source: NSO, GAC, \* Preliminary estimation, ' times more

<sup>1 1</sup> In the calculation of domestic production of agricultural products, the calculation of milk and meat was revised due to the transition to the base of 2015. By-products are added to meat production.

**4. Consumption.** In 2021, total of 750.0 thousand tonnes of milk, 527.0 thousand tonnes of meat and meat products, 247.1 thousand tonnes of flour and flour products, 200.3 thousand tonnes of sugars, sweeteners, 197.8 thousand tonnes of vegetables, 182.7 thousand tonnes of potatoes were supplied nationally.

TABLE 4. CONSUMPTION, by physical amount, thousand tonnes

Food categories	Consumption		Domestic production		Import	
	2020	2021*	2020	2021*	2020	2021*
Meat and meat products	742.9	527.0	723.6	502.6	19.3	24.4
Livestock meat	724.6	504.4	723.1	502.3	1.5	2.1
Fish	2.8	4.1	0.0	0.0	2.8	4.1
Poultry	15.6	18.4	0.5	0.2	15.1	18.1
Milk	776.4	705.2	776.3	705.0	0.1	0.2
Dairy Products	131.6	142.1	82.2	84.1	49.4	58.0
Flour, flour products	262.7	247.1	235.3	218.1	27.4	28.9
Flour	193.3	166.5	189.9	164.3	3.4	2.2
Flour products	69.3	80.5	45.3	53.8	24.0	26.7
All types of grains	56.4	49.3	0.0	0.0	56.4	49.3
Potatoes	244.3	182.7	244.3	182.6	0.0	0.1
Vegetables	199.5	197.8	121.2	121.7	78.3	76.0
Pulses	0.0	0.1	0.0	0.1	0.0	0.0
Fruits and berries	45.8	74.0	1.6	2.4	44.1	71.6
Eggs	16.6	20.1	8.5	10.4	8.1	9.8

Vegetable oil	16.4	9.7	0.0	0.3	16.4	9.4
Butter, 72%	0.5	0.8	0.2	0.3	0.3	0.5
Sugars, sweeteners	192.8	200.3	126.6	118.4	66.2	81.9

Source: NSO, GAC

\* Preliminary estimation

**5. Level of food supply.** Meat and meat products, potatoes, milk, vegetable oil, all types of grains, flour, flour products, vegetables supply decreased by 2.2-124.1 percentage points each compared to previous year while eggs, fruits and berries, sweeteners, dairy products, butter supply increased by 2.6-16.3 percentage points.

TABLE 5. FOOD SUPPLY LEVEL

Food categories	Annual food demand for standard population		Consumption		Supply level	
	2020	2021*	2020	2021*	2020	2021*
	thousand tonnes				percentage	
Meat and meat products	182.4	186.0	742.9	527.0	407.3	283.2
Livestock meat	115.2	117.5	724.6	504.4	629.0	429.3
Fish	28.8	29.4	2.8	4.1	9.6	14.1
Poultry	38.4	39.2	15.6	18.4	40.6	46.9
Milk	153.6	156.7	776.4	705.2	505.5	450.1
Dairy Products	172.8	176.2	131.6	142.1	76.2	80.6
Flour, flour products	268.8	274.2	262.7	247.1	97.7	90.1
Flour	96.0	97.9	193.3	166.5	201.4	170.1
Flour products	172.8	176.2	69.3	80.5	40.1	45.7
All types of grains	48.0	49.0	56.4	49.3	117.4	100.7
Potatoes	115.2	117.5	244.3	182.7	212.0	155.5
Vegetables	249.6	254.6	199.5	197.8	79.9	77.7
Pulses	38.4	39.2	0.0	0.1	0.1	0.1
Fruits and berries	192.0	195.8	45.8	74.0	23.8	37.8
Eggs	19.2	19.6	16.6	20.1	86.6	102.9
Vegetable oil	22.1	22.5	16.4	9.7	74.3	43.0
Butter, 72%	9.6	9.8	0.5	0.8	5.4	8.0
Sugars, sweeteners	31.7	32.3	192.8	200.3	608.6	620.0

In 2021, the domestic production was enough to satisfy 100.0% of standard population's annual demand for milk, 99.9% of potatoes, 98.7% of flour, 95.4% meat and meat products, 61.6% of vegetables demands.

In 2021, Mongolia's total import of food products was 963 million US dollars and 57.3% of which is from European countries. Food products imported from European countries was 35.8 percent from Russia.

In 2021, 89.1% of food items containing chocolate and cocoa, 82.2% of grape wine, 80.9% of sugar products, and 50.1% of fruits and berries were imported from European countries.

Russia was 92 percent of imports of products such as wheat, eggs, vegetable oil, margarine and pork.

TABLE 6. FOOD SUPPLY LEVEL, by sources, 2021

Food categories	Consumption			Supply	
	Domestic production	Import	Domestic production	Import	
	thousand tonnes			percentage	
Meat and meat products	527.0	502.6	24.4	95.4	4.6
Livestock meat	504.4	502.3	2.1	99.6	0.4
Fish	4.1	0.0	4.1	0.0	100.0
Poultry	18.4	0.2	18.1	1.3	98.7
Milk	705.2	705.0	0.2	100.0	0.0
Dairy Products	142.1	84.1	58.0	59.2	40.8
Flour and flour products	247.1	218.1	28.9	88.3	11.7
Flour	166.5	164.3	2.2	98.7	1.3
Flour products	80.5	53.8	26.7	66.8	33.2
All types of grains	49.3	0.0	49.3	0.0	100.0
Potatoes	182.7	182.6	0.1	99.9	0.1
Vegetables	197.8	121.7	76.0	61.6	38.4
Pulses	0.1	0.1	0.0	99.4	0.6
Fruits and berries	74.0	2.4	71.6	3.2	96.8
Eggs	20.1	10.4	9.8	51.4	48.6
Vegetable oil	9.7	0.3	9.4	3.2	96.8
Buttter, 72%	0.8	0.3	0.5	32.6	67.4
Sugars, sweeteners	200.3	118.4	81.9	59.1	40.9

### THREE. 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.

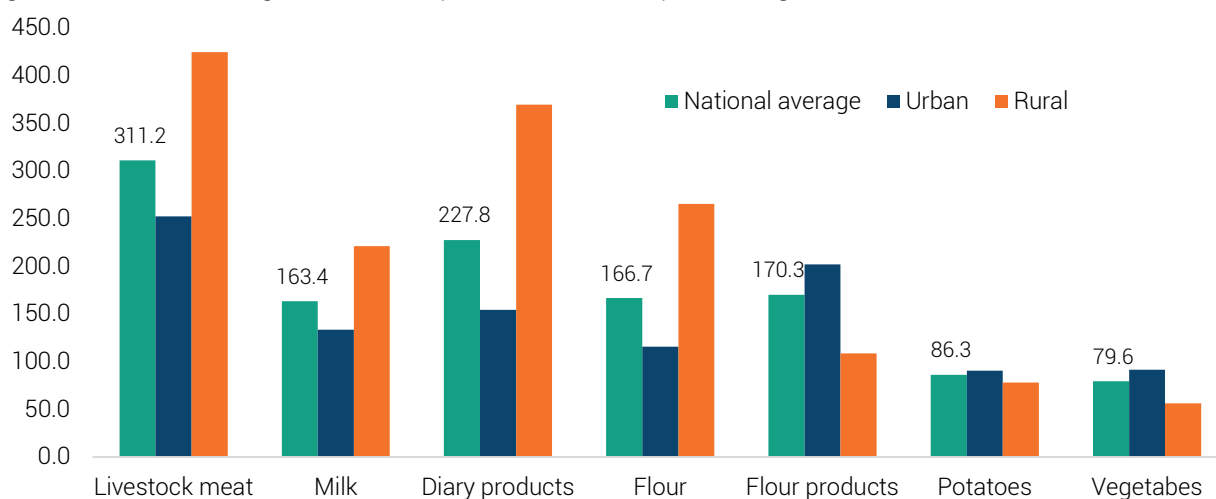
TABLE 7. NATIONAL AVERAGE OF DAILY FOOD INTAKE FOR STANDARD PERSON IN URBAN AND RURAL AREAS, 2021

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	317.8	262.2	425.5
Livestock meat	311.2	252.5	424.8
Fish	0.3	0.4	0.2
Poultry	6.3	9.3	0.5
Milk	163.4	133.5	221.4
Dairy Products	227.8	154.5	369.7
Flour	166.7	115.7	265.6
Flour products	170.3	202.2	108.7
All types of grains	61.8	57.3	70.5
Potatoes	86.3	90.5	78.2
Vegetables	79.6	91.6	56.4

Pulses	0.2	0.2	0.0
Fruits and berries	28.8	34.8	17.0
Eggs	14.3	20.3	2.6
Vegetable oil	18.6	13.9	27.9
Butter, 72%	5.9	7.6	2.5
Sugars, sweeteners	40.5	40.3	40.9

Source: Household Socio-Economic Survey, NSO

Figure 2. National average real consumption of main food products, grams, 2021



The results from households socio-economic survey showed that the actual consumption of meat and meat products, milk and dairy products, flour, rice, vegetable oil and sugars, sweeteners at rural level in cold seasons, was higher than the national average, while urban consumption of flour products, vegetables, potatoes, vegetables, pulses, fruits and berries, eggs and butter 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, 2021

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	321.3	270.1	418.4
Livestock meat	315.1	261.1	417.9
Fish	0.4	0.4	0.2
Poultry	5.8	8.6	0.3
Milk	152.1	127.2	199.6
Dairy Products	208.0	149.5	319.5
Flour	169.8	119.3	266.2
Flour products	165.6	197.0	105.9
All types of grains	61.0	57.2	68.4
Potatoes	86.7	92.7	75.4
Vegetables	77.9	90.4	54.1
Pulses	0.2	0.3	0.0
Fruits and berries	27.2	33.7	14.8
Eggs	14.1	20.0	2.8
Vegetable oil	18.8	13.7	28.6
Butter, 72%	5.6	7.2	2.7
Sugars, sweeteners	39.5	39.4	39.6

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, vegetable oil and and sugars, sweeteners at rural level in warm seasons, was higher than the national average, while urban consumption of flour

products, potatoes, vegetables, pulses, fruits and berries, eggs and butter, sugars 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, 2021

Food categories	National average	Urban	Rural
	grams		
Meat and meat products	312.9	251.1	435.6
Livestock meat	305.7	240.6	434.7
Fish	0.3	0.4	0.2
Poultry	6.9	10.1	0.7
Milk	179.2	142.1	252.7
Dairy Products	255.5	161.4	441.7
Flour	162.4	110.7	264.9
Flour products	176.8	209.3	112.6
All types of grains	62.8	57.4	73.6
Potatoes	85.7	87.5	82.3
Vegetables	82.1	93.4	59.8
Pulses	0.1	0.2	0.0
Fruits and berries	31.0	36.4	20.2
Eggs	14.5	20.7	2.4
Vegetable oil	18.4	14.1	26.9
Butter, 72%	6.2	8.1	2.3
Sugars, sweeteners	42.0	41.6	42.7

Source: Household Socio-Economic Survey, NSO

## 2. Food accessibility at household level

Household's accessibility to meat, flour, all types of grains, eggs, vegetable oil, butter and sugars and sweeteners is sufficient, while accessibility to other foods remain insufficient.

TABLE 10. FOOD ACCESSIBILITY, 2020

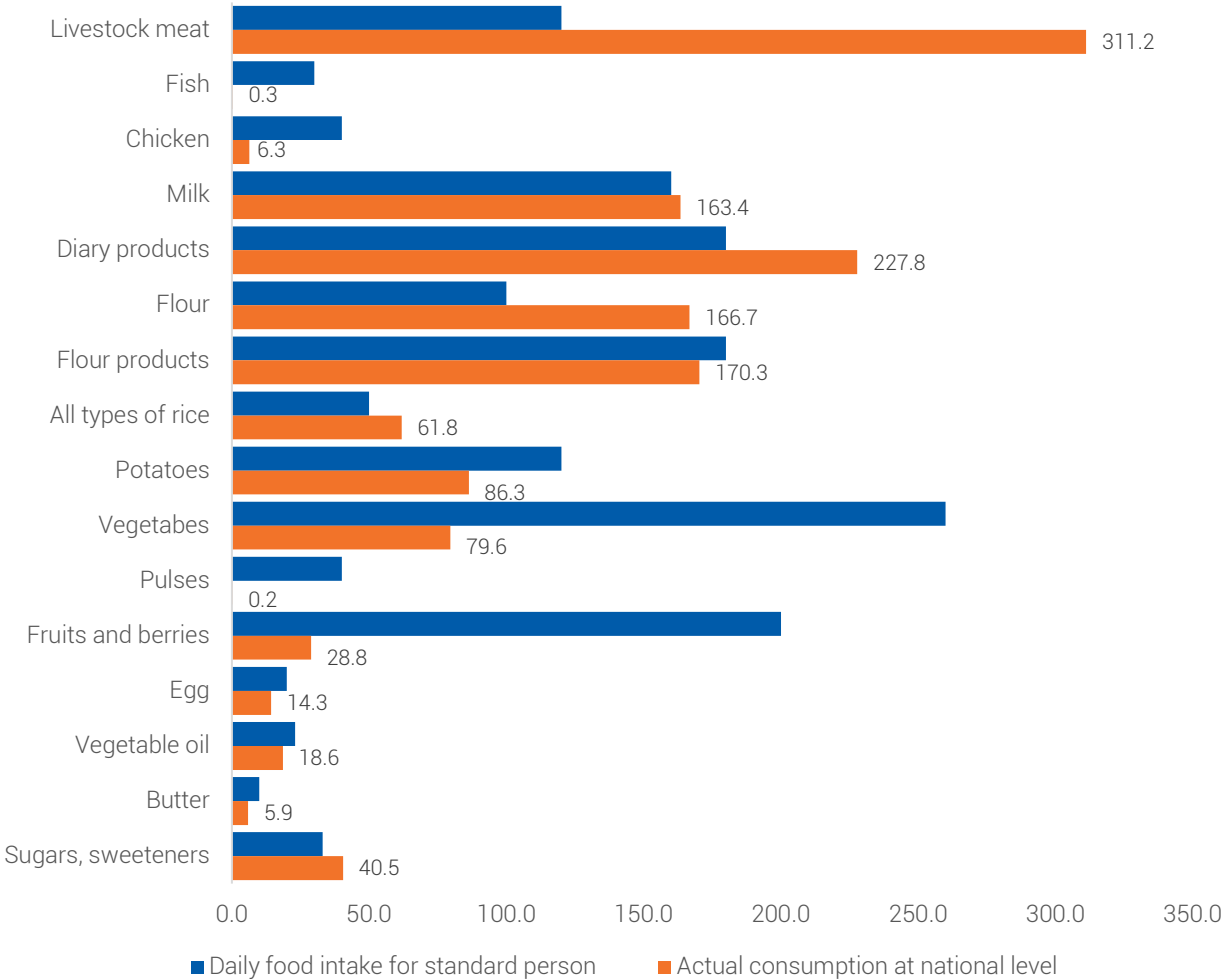
Food categories	Daily food intake for standard person	National average			Accessibility		
		National average	warm seasons	cold seasons	National average	warm seasons	cold seasons
	grams				percent		
Meat and meat products	190.0	317.8	312.9	321.3	167.3	164.7	169.1
Livestock meat	120.0	311.2	305.7	315.1	259.3	254.8	262.6
Fish	30.0	0.3	0.3	0.4	1.0	1.0	1.3
Poultry	40.0	6.3	6.9	5.8	15.8	17.3	14.5
Milk	160.0	163.4	179.2	152.1	102.1	112.0	95.1
Dairy Products	180.0	227.8	255.5	208.0	126.6	141.9	115.6
Flour	100.0	166.7	162.4	169.8	166.7	162.4	169.8
Flour products	180.0	170.3	176.8	165.6	94.6	98.2	92.0
All types of grains	50.0	61.8	62.8	61.0	123.6	125.6	122.0
Potatoes	120.0	86.3	85.7	86.7	71.9	71.4	72.3
Vegetables	260.0	79.6	82.1	77.9	30.6	31.6	30.0
Pulses	40.0	0.2	0.1	0.2	0.5	0.3	0.5
Fruits and berries	200.0	28.8	31.0	27.2	14.4	15.5	13.6
Eggs	20.0	14.3	14.5	14.1	71.5	72.5	70.5
Vegetable oil	23.0	18.6	18.4	18.8	80.9	80.0	81.7
Butter, 72%	10.0	5.9	6.2	5.6	59.0	62.0	56.0
Sugars, sweeteners	33.0	40.5	42.0	39.5	122.7	127.3	119.7

Source: Household Socio-Economic Survey, NSO



Meat and meat products, milk, dairy products, flour, all types of grains and sugars and sweeteners are still dominant in the daily food intake for standard person compared to national average, while other foods intake are insufficient.

Figure 3. Daily food intake for standard person, actual consumption at national average, grams, 2021



#### FOUR. 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 2958.9 kilocalorie, protein 133.7 grams, fat 70.9 grams, and carbohydrates 448.4 grams, which is 5.8-48.6 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	
		2020	2021*	2020	2021*	2020	2021*
Calorie, kilocalorie	2 400	3 111.3	2 958.9	2 857.2	2 716.4	3 629.6	3 439.0
Protein, grams	90	137.6	133.7	117.9	113.2	177.7	174.2
Fat, grams	67	71.5	70.9	56.2	54.9	102.6	102.5
Carbo-hydrates, grams	360	481.3	448.4	470.6	442.8	503.1	459.4

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 2851.9 kilocalorie, protein 130.8 grams, fat 67.7 grams, carbohydrates 431.7 grams, which is 1.0-45.3 percent higher than the recommended daily energy intake value for standard person.

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

	Recommended calorie intake for standard person	National average		Urban		Rural	
		2020	2021*	2020	2021*	2020	2021*
Calorie, kilocalorie,	2 400	3 056.9	2 851.9	2 870.3	2 682.3	3 429.2	3 175.1
Protein, grams	90	137.2	130.8	121.4	115.1	168.9	160.9
Fat, grams	67	70.5	67.7	58.8	55.6	93.9	90.7
Carbo-hydrates, grams	360	469.9	431.7	464.5	431.2	480.9	432.7

Source: Household Socio-Economic Survey, NSO

## FIVE. PREVALENCE OF FOOD INSECURITY IN THE MONGOLIAN POPULATION

The goal of this project was to experiment estimation of SDG Indicator 2.1.2 – prevalence of moderate or severe food insecurity using FIES in the population, by conducting a household-based pilot survey using the FIES module which comprises of 8 dichotomous questions related households self-reported behaviors/experiences associated with difficulties in accessing food due to resources constraints.

In order to successfully integrate the FIES module into the Household Socio-Economic Survey, which is regularly conducted, the pilot survey was adopted. Therefore, the Household Socio-Economic Survey (SES) included these 8 sets of questionnaires and collected data in 2020 and 2021.

According to the results of the survey, 13.2 percent of all households in 2020 and 12.2 percent of all households in 2021 answered that said household were food insecure.

TABLE 13. PREVALENCE OF FOOD INSECURITY, by question

Item	2020		2021	
	Percentage	Number	Percentage	Number
<b>Total households</b>	<b>100.0%</b>	<b>16 460</b>	<b>100.0%</b>	<b>11 199</b>
<b>Households who responded that they were food insecure</b>	<b>13.2%</b>	<b>2 168</b>	<b>12.2%</b>	<b>1 367</b>
Мөнгө, санхүүгээс хамаарч хоол хүнсний дутагдалд ордог буюу "Тийм" гэж хариулсан өрхүүдийн хувьд				
Worried that food would run out	73.5%	1 594	86.5%	1 182
Could not afford healthy nutritious meals	52.5%	1 138	46.9%	641
Ate only a few kinds of food	63.7%	1 382	59.3%	810
Skipped meals	24.8%	538	23.9%	327
Ate less than one should	23.0%	498	26.6%	363
Household ran out of food	6.4%	139	4.4%	60
Hungry and did not eat	9.0%	196	14.4%	197
Did not eat for the whole day	10.5%	228	8.1%	111

The household that worried that food would run out and yes answered at least one question of food insecurity is 86.5 percent in 2021.

The number of households that said they ate only a few kinds of food decreased from 63.7 percent in 2020 to 59.3 percent in 2021, by 4.4 percentage points. The number of households that said they could not afford healthy nutritious meals decreased from 52.5 percent in 2020 to 46.9 percent in 2021, by 5.6 percentage points.

This shows that ate only a few kinds of food, could not afford healthy nutritious meals and worried that food would run out are more common than other cases.

In 2021, 4.4 percent had run out of food in the past 12 months, 14.4 percent could not eat even when they were hungry, 8.1 percent had spent a day without eating anything.

According to international recommendations for the estimation of food insecurity, the sample design effect was 2 and the confidence level was calculated at 90%.

According to the results of the 2020 survey, the prevalence of moderate and severe food insecurity is 6.77 percent of the total population and 5.86 percent of households. The prevalence of severe food insecurity is 0.25 percent of the total population and 0.23 percent of households.

According to the results of the 2021 survey, the prevalence of moderate and severe food insecurity is 5.08 percent of the total population and 5.14 percent of households. The prevalence of severe food insecurity is 0.48 percent of the total population and 0.54 percent of households. Table 24 shows the standard errors.

TABLE 14. PREVALENCE OF FOOD INSECURITY, by household, by population

	National average			
	2020		2021	
	Household	Population	Household	Population
Moderately and severely food insecure	5.86	6.77	5.14	5.08
Standard error	0.68	0.86	0.69	0.76
Severely food insecure	0.23	0.25	0.54	0.48
Standard error	0.09	0.11	0.22	0.22

In 2020, the proportion of the population affected by moderate and severely food insecurity in Urban was 9.59 percent. In 2021, the proportion of the population affected by moderate and severe food insecurity in Urban was 5.15 percent. The urban population is more likely to be affected by food insecurity than the rural population.

TABLE 15. PREVALENCE OF FOOD INSECURITY, by household, by population, urban, rural

	Urban				Rural			
	2020		2021		2020		2021	
	Household	Population	Household	Population	Household	Population	Household	Population
Moderately and severely food insecure	8.42	9.59	5.13	5.15	2.78	3.24	5.16	4.96
Standard error	(1.05)	(1.30)	(0.97)	(1.07)	(0.54)	(0.69)	(0.94)	(0.99)
Severely food insecure	1.01	1.11	0.56	0.51	0.33	0.36	0.52	0.43
Standard error	(0.34)	(0.42)	(0.31)	(0.31)	(0.17)	(0.21)	(0.29)	(0.28)

### SEX. 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 2021, 317.0 thousand criteria of chemical toxicity, hygiene, radiation pollution, bacteriology and quarantine, of which, 6.1 thousand samples were not met MNS requirement and the level of pollution was 1.9%.

#### 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 16. DOMESTIC FOOD PRODUCTS THAT WERE CONFISCATED, RETURNED, REMOVED AND DISPOSED

Description	Meas.unit	2018	2019	2020	2021	Changes rate, %
Confiscated foods	kilograms	425.3	2 891.0	14 782.2	1 470.7	-90.1↓
	liter	489.8	1 937.6	1 343.0	369.1	-72.5↓
	piece	20 082	65 825	55 077	16 910	-69.3↓
Returned foods	kilograms	1 443.4	508.4	198.8	957.6	4.8↑
	liter	440.3	115.5	-	44.0	-
	piece	3 659	7 879	2 222	4 225	90.1↑
Foods removed from shelf	kilograms	3 012.7	1 518.0	60.0	85.6	42.7↑
	liter	84.0	120.0	66.5	63.5	-4.5↓
	piece	36 151.0	11 874.0	1 593.0	4 287.0	2.7↑
Disposed off foods	kilograms	12 989.4	2 910.5	3 058.4	1 317.1	-56.9↓
	liter	523.3	2 023.7	1 267.0	193.9	-84.7↓
	piece	67 755	62 319	63 764	17 717	-72.2↓

Source: GASI

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

In total 2021, 4.1 thousand EEOs, 3.7 thousand individuals were inspected by GASI, and business activities of 35 EEOs and 37 individuals were suspended who have been found guilty of violating the laws, standards and norms. The business activities of 24 EEOs and 29 individuals were restored.

TABLE 17. NUMBER OF EEOs AND INDIVIDUALS WHOSE ACTIVITIES WERE INSPECTED, SUSPENDED AND RESTORED

Description	2018		2019		2020		2021	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	6 188	4 744	9 166	8 944	15 179	6 711	4 075	3 661
Activities suspended	51	32	37	27	31	49	35	37
Activities restored	19	29	22	19	20	38	24	29

Source: GASI

#### Number of violations revealed and corrected during inspection

Total of 33.7 thousand cases of violation were identified during GASI inspection, of which 24.3 thousand violations or 72.1% were eradicated.

TABLE 18. NUMBER OF VIOLATIONS REPORTED AND ERADICATED

Description of violations	2020		2021	
	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated
<b>Total</b>	<b>42 195</b>	<b>28 964</b>	<b>33 745</b>	<b>24 337</b>
Building and facilities	3 696	2 144	2 402	1 655
Workplace, equipment and machinery operation	4 073	2 728	2 780	1 926
Technological norms and standards	3 898	3 049	2 275	1 610
Hygiene and sanitary	5 559	3 864	7 889	5 869
Raw material preparation, quality and safety of final food products	5 295	3 862	4 003	3 098
Storage and transportation	5 370	3 246	4 185	2 696
Packaging and labeling	5 389	3 443	3 513	2 587
Internal control	8 915	6 628	6 698	4 896

Source: GASI

Violations of hygiene and sanitary 23.4%, internal control 19.8%, storage and transportation 12.4%, norms and standards for raw material and quality and safety of final products 11.9%, norms for packaging and labeling 10.4%, workplace, equipment and machinery operation 8.2%, norms and standards for building and facilities 7.1%, technological norms and standards 6.7% of total violations reported. Violation eradication rate was 64.4-74.4%.

#### 4. Number of accredited food testing laboratories:

As of 2021, there were 74 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 2021.

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.

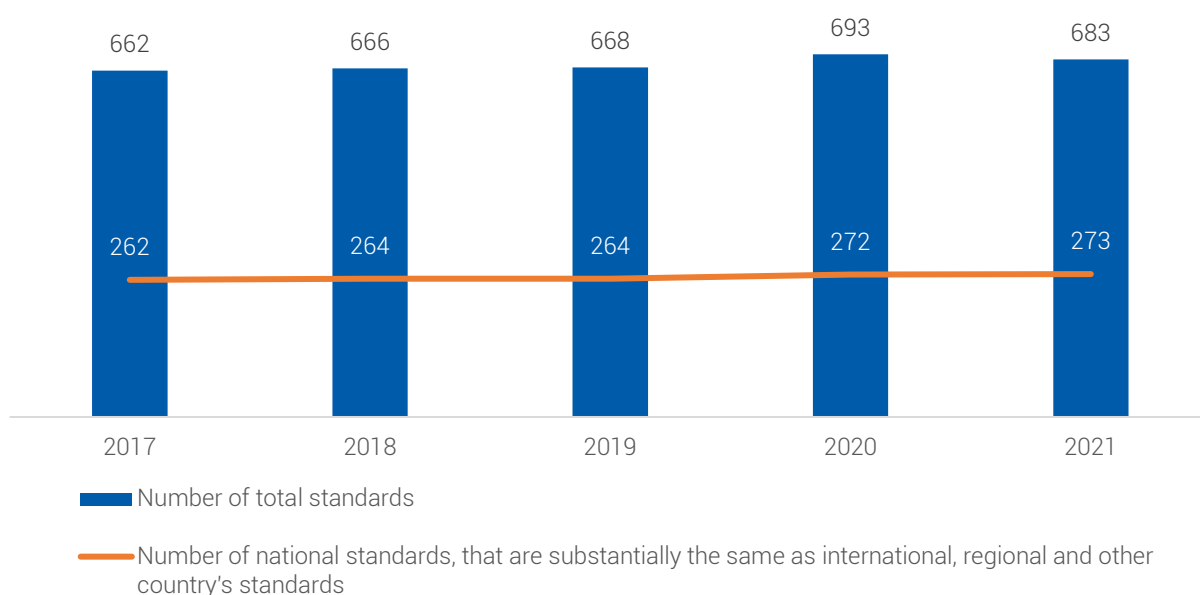
In 2021, number of food related national standards reached 683, increased by 10 or 1.4% compared to previous year.

TABLE 19. NUMBER OF FOOD RELATED NATIONAL STANDARDS

Description	2018	2019	2020	2021	Changes rate, %
Number of total standards	666	668	693	683	-1.4 <sup>↓</sup>
Number of national standards, that are substantially the same as international, regional and other country's standards	264	264	272	273	0.4 <sup>↑</sup>
Equivalent standards	402	404	421	410	-2.6 <sup>↓</sup>

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 683 national standards effective in Mongolia, of which 273 or 40.0% are substantially the same as international, regional and other country's standards, while 410 or 60.0% are equivalent standards.

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

There are 151 EEOs in food sector, that hold Certificate of conformity, which is 41 EEOs less or 37.3% lower than in 2020.

TABLE 20. NUMBER OF EEO AND FOOD PRODUCTS TYPES THAT HOLD CERTIFICATE OF CONFORMITY

Description	2018		2019 <sup>1</sup>		2020		2021	
	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products	EEO	Types of food products
Total	115	458	172	325	110	278	151	703
Certificate of conformity for import products	55	85	65	76	79	5	109	11
Certificate of conformity for products from domestic production	53	325	94	150	24	226	40	680
"Safety mark" certificate <sup>1</sup>	7	48	13	99	7	47	2	12

Source: MASM

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

There are 703 types of products that hold certificate of conformity, of which 1.6% hold certificate of conformity for imports, 96.7% hold certificate of conformity for domestic products, and 1.7% holds MNS mark.

## 7. Number of factories introduced international quality control system

There are totally 17 EEOs, who became certified to GMP /12 EEOs/ and HACCPs /5 EEOs/ by designated authority, in Mongolia.

There are 29 EEOs that hold MNS ISO 9001:2010 certificate for quality management standard, by the decision of internationally recognized certification body.

TABLE 21. NUMBER OF FACTORIES THAT INTRODUCED GOOD MANUFACTURING PRACTICES, HAZARD ANALYSIS AND CRITICAL CONTROL POINT SYSTEM

Description	2018	2019	2020	2021	Changes rate, %
Total number of factories	11	19	22	17	-22.7↓
Factories that introduced food safety management system ISO22000 standart	5	10	12	12	-
EEOs that introduced HACCPs	6	9	10	5	-50.0↓
Introduced good manufacturing practices	-	-	-	-	-

Source: Agency for Standardization and metrology

## 8. 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.

## 9. Alcohols and alcoholic beverages producing factories

There are 5 alcohol producing factories, 21 vodka producing, 6 wine producing and 7 beer producing factories in Mongolia.

## 10. Amount of alcohols and alcoholic beverages per capita

In 2021, vodka per capita reached 8.8 liter, increased by 0.9 liter or 11.1%, wine reached 1.4 liter, increased by 0.7 liter or 2.1 times more, beer reached 53.0 liter, increased by 8.0 liter or 17.7% compared to previous year, respectively.

TABLE 22. AMOUNT OF ALCOHOLIC BEVERAGES PER CAPITA

	2018	2019	2020	2021	Changes rate, %
	liters				
Vodka	9.4	8.8	7.9	8.8	11.1 <sup>↑</sup>
Wine	0.9	0.8	0.7	1.4	2.1 <sup>↑</sup>
Beer	30.8	30.3	30.4	35.6	17.4 <sup>↑</sup>

Source: NSO

In 2021, amount of vodka, wine and beer per adult person aged 15 and above is 13.0 liter, 2.1 liter, 53.0 liter respectively.

TABLE 23. AMOUNT OF ALCOHOLIC BEVERAGES PER ADULT AGED 15 AND ABOVE

	2018	2019	2020	2021	Changes rate, %
	liters				
Vodka	13.8	12.9	11.7	13.0	11.5 <sup>↑</sup>
Wine	1.3	1.2	1.0	2.1	2.1 <sup>↑</sup>
Beer	45.3	44.2	45.0	53.0	17.7 <sup>↑</sup>

Source: NSO

#### 11. 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 2021, 5 incidents of foodborne disease outbreaks were reported affecting 264 person in total, of which 58 persons affected people were hospitalized. No case of mortality was reported.

TABLE 24. NUMBER OF FOODBORNE DISEASE OUTBREAKS, AFFECTED, HOSPITALIZED AND DEAD PERSON

Description	2018	2019	2020 <sup>2</sup>	2021	Changes rate, %
Outbreak of foodborne illness	20	14	12	5	-58.3 <sup>↓</sup>
Number of affected people	624	1288	205	264	28.8 <sup>↑</sup>
Number of patients hospitalized	263	357	95	58	-38.9 <sup>↓</sup>
Mortality case	-	-	-	-	-

Source: Ministry of Health

<sup>1</sup>Food poisoning from chemicals is not included in number of people affected from outbreak and infected by foodborne diseases.



Figure 5. Number of people affected foodborne disease outbreaks

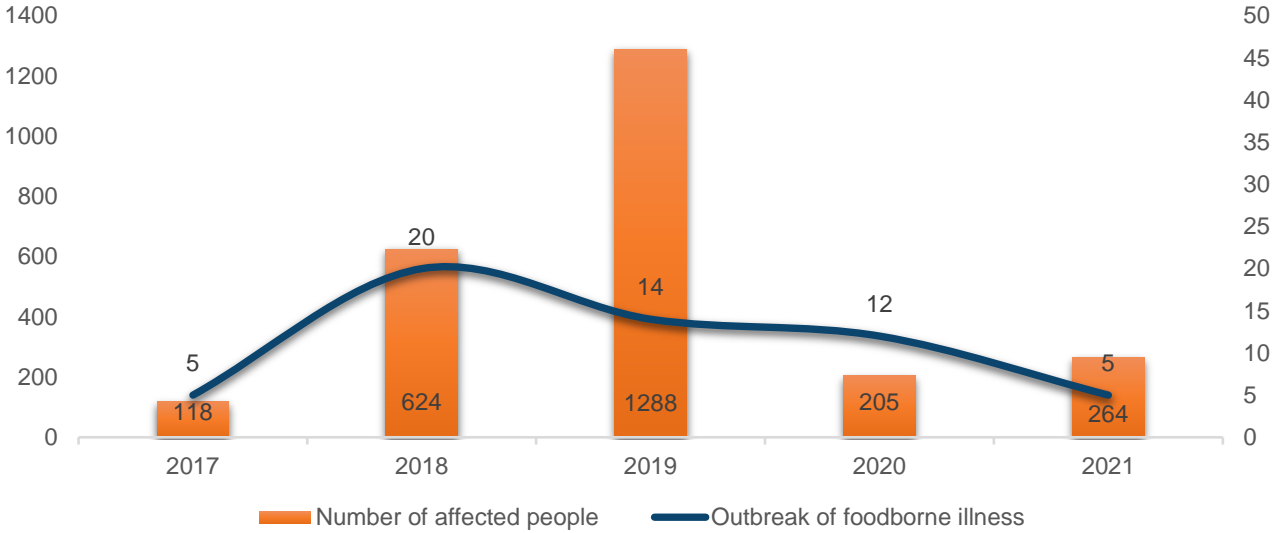


Table 25. MORBIDITY CASES RELATED TO BACTERIAL FOOD POISONING

Description	2018	2019	2020	2021	Changes rate, %
Number of people affected	554	153	205	264	28.8 <sup>↑</sup>
Urban	328	109	125	10	-92.0 <sup>↓</sup>
Rural	226	44	80	254	3.2 <sup>↑</sup>

Source: Ministry of Health

## SEVEN. 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 186.0 thousand tonnes of meat and meat products, 156.7 thousand tonnes of milk, 274.2 thousand tonnes of flour and flour products, 117.5 thousand tonnes of potatoes.
- The food supply level of the population is estimated at 16 commodity foods. Consider some types of products is 95.4% of meat and meat products from domestic production, 4.6% from imports, 100.0% of milk from domestic production, 88.3% of flour and flour products from domestic production, 11.7% from imports, 61.6% of vegetables from domestic production, 38.4% from imports were supplied nationally.
- Compared to the previous year, in 2021, pulses production increased by 38.6%, fruits and berries production increased by 45.4%, eggs production increased by 22.1%, vegetable oil production increased by 17.9 times more, 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, vegetable oils at rural level was higher than the national average, while urban consumption of flour products, potatoes, vegetables, fruits, eggs, 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 Ministry of Health, the number of foodborne illnesses decreased by 58.3 percent, the number of people affected increased by 28.8 percent from the previous year. This is due to the effects of Covid 19 pandemic the government's disaster protection decisions.
- The results from households socio-economic survey showed 5.08 percent of the total population is affected by moderate or severe food insecurity, and 0.48 percent of the total population is affected by severe food insecurity. The urban population is more probably to be affected by food insecurity than the rural population.

## 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

Table 3. Reference intake of energy for standard person

		Daily intake of calories for standard person, kcal*	Nutrients (gr)						
			Protein	Origin:		Fat	Origin:		Carbohydrates
				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
<b>Total</b>		<b>2 400</b>	<b>90</b>	<b>45</b>	<b>45</b>	<b>67</b>	<b>37</b>	<b>30</b>	<b>360</b>

## 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, chalog, 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	2012	2013	2014	2015	2016
Total		<b>2 555 209</b>	<b>2 760 605</b>	<b>2 937 927</b>	<b>2 990 242</b>	<b>3 063 568</b>
Up to 1 year	64 347	69 757	73 263	79 447	68 579	62 504
	32 541	35 448	37 591	40 670	35 263	32 040
	31 806	34 309	35 672	38 777	33 316	30 464
1-3 years	178 007	181 438	205 676	235 421	236 941	170 470
	90 312	92 485	104 767	120 442	121 279	86 516
	87 695	88 953	100 909	114 979	115 662	83 954
4-6 years	156 056	175 149	184 188	202 631	206 094	138 952
	78 950	88 506	93 603	103 517	104 959	70 205
	77 106	86 643	90 585	99 114	101 135	68 747
7-10 years	176 166	177 989	184 834	207 924	230 219	176 358
	89 224	90 164	93 400	106 275	117 428	89 251
	86 942	87 825	91 434	101 649	112 791	87 107
11-14 years	188 934	186 675	177 189	173 622	171 767	188 530
	95 234	94 194	89 590	88 326	87 632	95 312
	93 700	92 481	87 599	85 296	84 135	93 218
15-18 years	196 079	193 973	189 521	188 319	187 109	197 774
	98 115	96 976	94 908	95 786	94 570	98 882
	97 964	96 997	94 613	92 533	92 539	98 892
19-29 years	603 485	605 737	622 767	605 061	602 542	608 868
	295 234	297 043	308 533	303 574	301 493	296 604
	308 251	308 694	314 234	301 487	301 049	312 264
30-59 years	1 031 950	1 062 675	1 118 926	1 117 306	1 167 922	1 001 666
	492 777	508 495	538 601	541 875	561 827	477 532
	539 173	554 180	580 325	575 431	606 095	524 134
60 and above	165 581	169 744	181 563	180 511	192 395	159 404
	71 112	72 577	77 060	74 492	79 299	68 426
	94 469	97 167	104 503	106 019	113 096	90 978



Continuation of Table 1.

Age group	Gender	2017	2018	2019	2020	2021
Total		<b>3 131 750</b>	<b>3 186 347</b>	<b>3 197 020</b>	<b>3 253 283</b>	<b>3 312 275</b>
Up to 1 year	73 589	76 830	68 579	76 830	72 745	76 830
	37 705	39 372	35 263	39 372	37 220	39 372
	35 884	37 458	33 316	37 458	35 525	37 458
1-3 years	229 758	227 463	236 941	227 463	229 731	227 463
	118 184	116 952	121 279	116 952	117 759	116 952
	111 574	110 511	115 662	110 511	111 972	110 511
4-6 years	240 015	238 109	206 094	238 109	231 507	238 109
	123 051	122 050	104 959	122 050	118 996	122 050
	116 964	116 059	101 135	116 059	112 511	116 059
7-10 years	275 741	286 213	230 219	286 213	303 117	286 213
	140 585	146 187	117 428	146 187	155 109	146 187
	135 156	140 026	112 791	140 026	148 008	140 026
11-14 years	207 344	229 869	171 767	229 869	247 501	229 869
	105 838	117 250	87 632	117 250	126 102	117 250
	101 506	112 619	84 135	112 619	121 399	112 619
15-18 years	171 477	170 004	187 109	170 004	173 542	170 004
	87 149	86 646	94 570	86 646	88 515	86 646
	84 328	83 358	92 539	83 358	85 027	83 358
19-29 years	529 874	514 068	602 542	514 068	501 447	514 068
	266 406	258 572	301 493	258 572	252 687	258 572
	263 468	255 496	301 049	255 496	248 760	255 496
30-59 years	1 237 125	1 261 919	1 167 922	1 261 919	1 291 354	1 261 919
	602 938	614 757	561 827	614 757	629 532	614 757
	634 187	647 162	606 095	647 162	661 822	647 162
60 and above	232 097	248 808	192 395	248 808	261 331	248 808
	95 074	101 508	79 299	101 508	106 325	101 508
	137 023	147 300	113 096	147 300	155 006	147 300

Table 2. Standard population

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
<b>Total</b>			<b>2 263 396</b>	<b>2 307 812</b>	<b>2 392 877</b>	<b>2 418 462</b>	<b>2 488 329</b>

Continuation of Table 2.

Age group	Gender	Conversion multiplier	2017	2018	2019	2020	2021
Up to 1 year	F	0.38	11 933	13 339	12 820	13 386	12 655
	M	0.38	10 244	11 528	11 124	11 612	11 013
1-3 years	F	0.48	52 537	52 340	52 001	51 459	51 814
	M	0.50	46 827	46 123	45 745	45 310	45 909
4-6 years	F	0.64	68 857	73 333	75 061	74 451	72 588
	M	0.68	59 780	63 121	64 330	63 832	61 881
7-10 years	F	0.72	95 681	102 742	106 845	111 102	117 883
	M	0.87	83 847	89 262	93 258	96 618	102 126
11-14 years	F	0.74	93 104	99 509	110 072	121 940	131 146
	M	0.96	77 601	82 943	91 355	101 357	109 259
15-18 years	F	0.87	105 343	102 040	98 478	97 910	100 022
	M	1.05	86 840	82 955	80 112	79 190	80 776
19-24 years	F	0.82	295 328	284 698	266 406	258 572	252 687
	M	1.04	245 376	234 265	218 678	212 062	206 471
25-50 years	F	0.78	575 226	591 456	596 909	608 609	623 237
	M	0.99	480 466	486 165	488 324	498 315	509 603
51 and above	F	0.72	67 578	71 425	76 059	81 206	85 060
	M	0.81	84 125	89 907	95 916	103 110	108 504
<b>Total</b>			<b>2 540 691</b>	<b>2 577 151</b>	<b>2 583 493</b>	<b>2 630 041</b>	<b>2 682 631</b>

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**

	2012	2013	2014	2015	2016
	thousand tonnes				
Meat and meat products	179.1	171.3	165.9	171.8	172.6
Milk	179.1	128.6	139.7	144.6	145.3
Clabber, curds	253.1	171.3	157.2	162.7	163.5
Flour	102.3	85.7	87.3	90.4	90.8
Flour products	225.0	188.5	157.2	162.7	163.5
All types of grains	79.9	66.9	43.7	45.2	45.4
Sugar. sweeteners	23.5	19.7	28.8	29.8	30.0
Potatoes	143.2	119.9	104.8	108.5	109.0
Vegetables	204.6	171.3	227.1	235.0	236.1
Fruits	184.1	154.2	174.7	180.8	181.6
Pulses	92.2	77.2	34.9	36.2	36.3
Eggs	19.3	16.2	17.5	18.1	18.2
Vegetable oil	25.5	21.4	20.1	20.8	20.9

Continuation of Table 3.

	2017	2018	2019	2020	2021
	thousand tonnes				
Meat and meat products	176.2	178.7	179.2	182.4	186.2
Milk	148.4	150.5	150.9	153.6	156.7
Clabber, curds	166.9	169.3	169.7	172.8	176.2
Flour	92.7	94.1	94.3	96.0	97.9
Flour products	166.9	169.3	169.7	172.8	176.2
All types of grains	46.4	47.0	47.1	48.0	49.1
Sugar. sweeteners	30.6	31.0	31.1	31.7	32.2
Potatoes	111.3	112.9	113.2	115.2	117.5
Vegetables	241.1	244.6	245.2	249.6	254.6
Fruits	185.5	188.1	188.6	192.0	195.8
Pulses	37.1	37.6	37.7	38.4	39.2
Eggs	18.5	18.8	18.9	19.2	19.6
Vegetable oil	21.3	21.6	21.7	22.1	22.5

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021
National average									
Calories, kilocalorie	2 298.3	2 800.7	2 722.8	2 599.8	2 921.7	2 978.7	2 930.3	3 056.9	2 851.9
Protein, grams	102.2	123.6	121.6	115.9	130.8	132.5	131.5	137.2	130.8
Fat, grams	67.1	87.5	87.1	81.2	66.1	66.3	66.4	70.5	67.7
Carbohydrates, grams	319.5	376.3	359.8	348.5	452.7	464.9	453.4	469.9	431.7
Urban									
Calories, kilocalorie	2 084.5	2 637.5	2 530.6	2 399.1	2 746.4	2 813.9	2 717.0	2 870.3	2 682.3
Protein, grams	88.4	112.0	110.3	103.8	116.0	117.2	115.3	121.4	115.1
Fat, grams	58.2	78.3	77.5	71.8	54.8	54.7	55.3	58.8	55.6
Carbohydrates, grams	299.6	367.4	344.2	331.1	448.0	463.9	440.3	464.5	431.2
Rural									
Calories, kilocalorie	2 565.6	3 084.8	3 089.9	3 012.9	3 278.3	3 296.2	3 343.5	3 429.2	3 175.1
Protein, grams	119.5	143.8	143.0	140.8	161.3	161.9	163.0	168.9	160.9
Fat, grams	78.2	103.5	105.5	100.5	88.7	88.6	87.8	93.9	90.7
Carbohydrates, grams	344.5	391.7	389.5	384.2	462.5	466.8	478.8	480.9	432.7

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**

	2013	2014	2015	2016	2017	2018	2019	2020	2021
National average									
Calories, kilocalorie	2 519.7	2 989.5	2 911.4	2 709.2	3 065.9	3 067.6	3 065.3	3 111.3	2 958.9
Protein, grams	113.1	130.3	126.9	117.8	136.1	136.1	136.7	137.6	133.7
Fat, grams	77.4	94.1	94.7	84.2	70.4	69.4	72.3	71.5	70.9
Carbohydrate, grams	341.3	401.7	384.1	366.9	474.1	476.7	468.9	481.3	448.4
Urban									
Calories, kilocalorie	2 154.2	2 652.1	2 544.1	2 397.1	2 777.5	2 836.8	2 707.8	2 857.2	2 716.4
Protein, grams	90.1	108.1	106.1	99.0	114.1	116.8	112.0	117.9	113.2
Fat, grams	60.6	77.2	77.9	69.8	53.9	54.5	53.7	56.2	54.9
Carbohydrate, grams	310.0	377.4	350.7	339.9	459.8	470.3	444.7	470.6	442.8
Rural									
Calories, kilocalorie	2 975.7	3 569.5	3 552.4	3 372.5	3 684.3	3 515.4	3 740.2	3 629.6	3 439.0

Protein, grams	141.7	168.5	163.1	157.9	183.6	173.4	183.3	177.7	174.2
Fat, grams	98.3	123.1	124.1	114.9	105.4	98.2	107.4	102.6	102.5
Carbohydrate, grams	380.4	443.5	442.2	424.2	505.1	489.0	514.4	503.1	459.4

Source: NSO, Household Socio-Economic Survey

**Table 6. Indicators for alimentary products standardization**

Description	Source	2012	2013	2014	2015	2016
Number of accredited food testing laboratories	MASM	-	-	65	65	87
Number of food related national standards	MASM	668	653	672	652	648
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	298	259	262	249	256
Number of food related national technical regulations	MASM	4	4	4	4	4
Number of food products holding Certificate of conformity	MASM	-	-	240	215	755
Factories that introduced food safety management system ISO22000 standard	MASM	-	-	2	3	3
Factories that introduced HACCPs	MASM	-	-	1	1	2
Alcohols and alcoholic beverages producing factories	MoFALI	83	70	87	87	87

Continuation of Table 6.

Description	Source	2017	2018	2019	2020	2021
Number of accredited food testing laboratories	MASM	91	95	69	106	92
Number of food related national standards	MASM	662	666	668	693	410
Number of national standards, that are substantially the same as international, regional and other country's standards	MASM	262	264	264	272	273
Number of food related national technical regulations	MASM	4	4	4	4	3
Number of food products holding Certificate of conformity	MASM	668	458	325	278	20
Factories that introduced food safety management system ISO22000 standard	MASM	3	5	10	12	17
Factories that introduced HACCPs	MASM	4	6	9	10	17
Alcohols and alcoholic beverages producing factories	MoFALI	83	68	52	52	33

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

Description	Meas.unit	2017	2018	2019	2020	2021
Confiscated foods	kilograms	5 572.5	425.3	2 891.0	14 782.2	1 470.7
	liter	1 574.0	489.8	1 937.6	1 343.0	369.1
	piece	42 010	20 082	65 825	55 077	16 910
Returned foods	kilograms	781.7	1 443.4	508.4	198.8	957.6
	liter	214.0	440.3	115.5	-	44.0
	piece	12 573	3 659	7 879	2 222	4 225
Foods removed from shelf	kilograms	611.7	3 012.7	1 518.0	60.0	85.6
	liter	64.0	84.0	120.0	66.5	63.5
	piece	6 030	36 151	11 874	1 593	4 287
Disposed off foods	kilograms	8 396.6	12 989.4	2 910.5	3 058.4	1 317.1
	liter	1 546.1	523.3	2 023.7	1 267.0	193.9
	piece	39 552	67 755	62 319	63 764	17 717

Source: GASI

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

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

Source: GASI

Continuation of Table 8.

Description	2019		2020		2021	
	EEOs	Individuals	EEOs	Individuals	EEOs	Individuals
Inspected	9 166	8 944	15 179	6 711	4 075	3 661
Activities suspended	37	27	31	49	35	37
Activities restored	22	19	20	38	24	29

Source: GASI

**Table 9. Number of violations reported and eradicated**

Descriptions of violations	2016		2017		2018	
	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated
<b>Total</b>	<b>27 488</b>	<b>21 518</b>	<b>28 028</b>	<b>19 904</b>	<b>30 646</b>	<b>21 780</b>
Building and facilities	4 992	3 430	3 256	1 632	2 932	1 613
Workplace, equipment and machinery operation	3 237	2 360	2 895	2 167	2 710	1 643
Technological norms and standards	2 516	1 984	2 836	2 048	2 906	2 082
Hygiene and sanitary	5 018	4 722	5 436	4 177	2 955	2 093
Raw material preparation, quality and safety of final food products	2 898	2 226	3 118	2 318	4 949	4 010
Storage and transportation	3 623	2 707	3 576	2 429	4 391	2 554
Packaging and labeling	1 984	1 702	3 039	2 372	3 676	3 031
Internal control	3 220	2 387	3 872	2 761	6 127	4 754

Source: GASI

Continuation of Table 9.

Descriptions of violations	2019		2020		2021	
	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated	Number of violation reported	Number of violation eradicated
<b>Total</b>	<b>33 193</b>	<b>24 596</b>	<b>42 195</b>	<b>28 964</b>	<b>33 745</b>	<b>24 337</b>
Building and facilities	3 727	2 190	3 696	2 144	2 402	1 655
Workplace, equipment and machinery operation	3 200	2 141	4 073	2 728	2 780	1 926
Technological norms and standards	2 585	1 897	3 898	3 049	2 275	1 610
Hygiene and sanitary	6 145	4 844	5 559	3 864	7 889	5 869

Raw material preparation, quality and safety of final food products	3 584	2 842	5 295	3 862	4 003	3 098
Storage and transportation	4 184	3 303	5 370	3 246	4 185	2 696
Packaging and labeling	3 841	2 801	5 389	3 443	3 513	2 587
Internal control	5 927	4 578	8 915	6 628	6 698	4 896

Source: GASI

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

Nº	Description	2012	2013	2014	2015	2016
1	Meat and meat products production, preservation	244	219	267	266	273
2	Fish production, preservation	3	3	4	4	4
3	Fruits and vegetables cultivation, preservation	37	38	31	43	43
4	Animal and vegetable oil production	3	1	2	3	6
5	Milk and dairy products production	184	182	237	241	243
6	Wheat, rye flour and grains production	52	40	61	60	55
7	Starchy food production	4	9	12	7	5
8	Bread, biscuits and fine pastry production	332	330	392	415	449
9	Cacao, chocolate and sweets production	4	4	5	6	7
10	Pastas and noodle production	17	12	21	34	34
11	Pickled and on-hand ready food production	16	21	35	44	53
12	Other types of foods not included above	89	83	84	80	91
13	Alcohol production	69	56	45	36	31
14	Wine production	7	7	6	6	6
15	Beer production	7	7	8	8	9
16	Soft drinks, spring water and regular water production	65	59	64	70	72

Source: NSO

Continuation of Table 10.

Nº	Description	2017	2018	2019	2020	2021
1	Meat and meat products production, preservation	313	373	414	418	475
2	Fish production, preservation	1	1	1	2	2
3	Fruits and vegetables cultivation, preservation	45	47	47	49	58
4	Animal and vegetable oil production	5	6	5	7	8
5	Milk and dairy products production	227	253	243	231	241
6	Wheat, rye flour and grains production	43	44	49	54	59
7	Starchy food production	1	2	6	5	10
8	Bread, biscuits and fine pastry production	415	445	412	409	400
9	Cacao, chocolate and sweets production	3	2	4	4	5
10	Pastas and noodle production	33	28	28	29	35
11	Pickled and on-hand ready food production	55	69	68	76	90
12	Other types of foods not included above	82	89	100	109	116
13	Alcohol production	27	26	25	22	20
14	Wine production	6	6	6	6	6
15	Beer production	9	9	8	9	9
16	Soft drinks, spring water and regular water production	83	92	99	103	99

Source: NSO

**Table 11. Number of EEOs conduct food business**

Nº	Description	2008	2009	2010	2011	2012
1	Wholesale on a fee or contract basis	8 500	8 970	9 376	9 814	11 639
2	Foods, drinks and tobacco wholesale	291	354	403	455	508
3	Retail sale stores not specialized in selling foods, drinks and tobacco	669	822	945	1 137	1 266
4	Retail sale of food specialized stores	5 572	5 589	5 298	5 446	5 943
5	Retail sale of drink specialized stores	3	7	11	21	23

Continuation of Table 11.

Nº	Description	2017	2018	2019	2020	2021
1	Wholesale on a fee or contract basis	9 929	11 017	11 781	11 237	11 285
2	Foods, drinks and tobacco wholesale	484	543	621	757	868
3	Retail sale stores not specialized in selling foods, drinks and tobacco	1 113	1 170	1 146	1 089	1 128
4	Retail sale of food specialized stores	5 208	5 436	5 530	5 541	5 835
5	Retail sale of drink specialized stores	20	17	16	20	25

**Table 12. Number of food production EEOs**

Nº	Description	2014	2015	2016	2017	2018	2019	2020	2021
1	Restaurant and food service	985	947	1 134	1 074	1 127	1 121	1 097	1 135
2	Special ordered food service	22	24	32	45	58	71	79	81
3	Other food-serving activities	472	414	381	334	350	381	346	330
4	Beverage serving activities	62	85	114	131	138	166	194	225

**Table 13. Health indicators related to food service**

Nº	Description	2014	2015	2016	2017	2018	2019	2020	2021
1	Number of people affected food poisoning	548	482	430	133	544	153	205	264
	Urban	235	375	386	89	328	109	125	10
	Rural	313	107	44	44	226	44	80	254
2	Number of people affected other types of food related disease	-	-	-	-	-	-	-	-
3	5 years or above aged children weigh under confirmed rate of weight	5 536	6 190	6 312	6 304	8 439	8 353	8 312	8 176



**Table 14. Number of heads of livestock, by types**

Description	2012	2013	2014	2015	2016
	Thousand heads				
<b>Total</b>	<b>40 263.8</b>	<b>43 288.4</b>	<b>44 023.9</b>	<b>32 769.5</b>	<b>36 335.8</b>
Horse	2 239.5	2 186.9	2 221.3	1 960.3	2 112.9
Cattle	2 425.8	2 503.4	2 599.3	2 176.0	2 339.7
Camel	260.6	266.4	277.1	269.6	280.1
Sheep	16 990.1	18 362.3	19 274.7	14 480.4	15 668.5
Goat	18 347.8	19 969.4	19 651.5	13 883.2	15 934.6

Continuation of Table 14.

Description	2017	2018	2019	2020	2021
	Thousand heads				
<b>Total</b>	<b>66 219.0</b>	<b>66 460.2</b>	<b>70 969.3</b>	<b>67 068.5</b>	<b>67 343.8</b>
Horse	3 939.8	3 940.1	4 214.8	4 093.9	4 324.4
Cattle	4 388.5	4 380.9	4 753.2	4 732.0	5 022.2
Camel	434.1	459.7	472.4	472.9	454.0
Sheep	30 109.9	30 554.8	32 267.3	30 049.4	31 087.0
Goat	27 346.7	27 124.7	29 261.7	27 720.3	26 456.1

**Table 15. Number of dams in livestock, by types**

Description	2012	2013	2014	2015	2016
	Thousand heads				
<b>Total</b>	<b>17 748.9</b>	<b>19 436.7</b>	<b>22 248.6</b>	<b>23 863.8</b>	<b>26 477.2</b>
Horse	700.9	784.7	895.5	990.0	1 113.5
Cattle	1 046.0	1 151.0	1 333.4	1 458.1	1 587.8
Camel	105.1	112.0	120.2	127.8	139.4
Sheep	8 257.1	9 094.9	10 478.0	11 205.4	12 578.6
Goat	7 639.7	8 294.3	9 421.6	10 082.4	11 057.8

Continuation of Table 15.

Description	2017	2018	2019	2020	2021
	Thousand heads				
<b>Total</b>	<b>28 242.3</b>	<b>29 777.8</b>	<b>30 963.5</b>	<b>29 657.6</b>	<b>30 784.5</b>
Horse	1 226.6	1 291.6	1 388.8	1 371.6	1 481.8
Cattle	1 707.8	1 755.3	1 900.6	1 838.9	2 035.3
Camel	151.0	161.0	167.4	167.9	169.5
Sheep	13 519.7	14 223.4	14 748.3	13 958.7	14 752.2
Goat	11 637.2	12 346.6	12 758.5	12 320.5	12 345.7

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

Description	2012	2013	2014	2015	2016
	Thousand heads				
<b>Total</b>	<b>8 365.0</b>	<b>10 205.0</b>	<b>10 006.4</b>	<b>14 556.7</b>	<b>12 700.0</b>
Horse	469.9	445.6	238.8	395.6	335.7
Cattle	238.3	225.7	435.7	728.0	721.3
Camel	25.2	31.7	29.8	36.4	30.1
Sheep	3 679.6	5 015.3	4 995.5	7 301.9	6 254.3

Goat	3 952.0	4 486.6	4 306.5	6 094.7	5 358.6
Continuation of Table 16.					
Description	2017	2018	2019	2020	2021
	Thousand heads				
<b>Total</b>	<b>14 105.8</b>	<b>16 526.7</b>	<b>17 960.3</b>	<b>24 614.6</b>	<b>17 034.1</b>
Horse	463.4	597.0	633.3	955.0	570.3
Cattle	802.7	1 002.2	943.7	1 319.4	899.4
Camel	33.4	45.3	58.9	80.9	61.7
Sheep	7 091.8	8 729.1	9 653.3	12 508.1	8 302.6
Goat	5 714.5	6 153.0	6 671.0	9 751.1	7 200.1

**Table 17. Meat production, tonnes**

Description	2012	2013	2014	2015	2016
	tonnes				
<b>Total</b>	<b>220 260.8</b>	<b>249 828.2</b>	<b>243 610.3</b>	<b>374 720.0</b>	<b>333 738.3</b>
Horse	31 082.2	29 759.8	29 534.9	50 642.3	41 734.0
Cattle	59 703.7	57 686.9	54 876.3	93 251.8	92 383.1
Camel	5 296.4	6 729.4	6 355.2	8 161.9	6 455.1
Sheep	67 239.7	91 003.6	91 298.8	134 546.2	116 172.4
Goat	56 335.7	63 997.5	60 547.9	86 355.9	76 902.9
Pigs	402.6	527.1	763.4	603.1	77.0
Fowls/Poultry	200.5	123.9	233.8	1 158.8	13.8

Continuation of Table 17.

Description	2017	2018	2019	2020	2021
	tonnes				
<b>Total</b>	<b>355 583.4</b>	<b>430 718.9</b>	<b>457 191.4</b>	<b>625 219.9</b>	<b>429 596.0</b>
Horse	41 786.6	57 192.7	70 812.5	105 881.3	64 553.3
Cattle	97 679.5	126 591.1	114 681.9	158 476.6	110 620.5
Camel	7 121.6	9 689.3	12 545.8	16 975.3	13 155.0
Sheep	126 656.1	152 706.2	168 440.7	213 899.5	143 034.5
Goat	80 813.2	83 623.3	89 634.0	129 163.1	97 734.3
Pigs	487.5	566.0	606.4	285.5	252.6
Fowls/Poultry	1 038.8	350.3	470.0	538.7	245.8

**Table 18. Milk production, thousand liters**

Description	2012	2013	2014	2015	2016
	Thousand liters				
<b>Total</b>	<b>510 972.7</b>	<b>575 221.0</b>	<b>765 376.4</b>	<b>874 426.9</b>	<b>711 827.7</b>
Mare	56 727.6	65 475.4	74 961.8	85 143.5	75 303.9
Cow	338 604.6	380 830.3	440 371.2	512 442.1	415 397.0
Female camel	5 754.9	5 363.5	9 346.7	9 042.9	10 290.3
Ewe	35 940.5	41 226.2	84 745.1	95 160.7	76 771.7
Female goat	73 945.1	82 325.7	155 951.6	172 637.7	134 064.8

Continuation of Table 18.

Description	2017	2018	2019	2020	2021
	Thousand liters				
<b>Total</b>	<b>731 585.3</b>	<b>719 872.3</b>	<b>858 765.3</b>	<b>859 002.2</b>	<b>789 454.2</b>
Mare	81 753.7	71 711.1	97 590.0	88 631.7	86 081.6
Cow	427 857.8	440 874.1	499 442.4	519 555.9	499 668.6
Female camel	10 493.3	11 596.7	11 435.3	13 549.4	9 973.2
Ewe	76 750.4	78 538.0	93 334.8	86 795.9	78 723.8
Female goat	134 730.2	117 152.3	156 962.7	150 469.2	115 007.0

**Table 19. Agricultural grassland size**

Description	2012	2013	2014	2015	2016
	Thousand ha				
<b>Agricultural land</b>	<b>115 399.9</b>	<b>115 361.4</b>	<b>115 008.6</b>	<b>114 982.8</b>	<b>114 931.1</b>
Pastures	111 032.5	111 026.2	110 646.8	110 613.6	110 490.0
Meadows	1 712.3	1 712.3	1 717.6	1 717.7	1 742.4
Arable land	1 031.1	986.8	1 012.8	1 028.2	1 067.7
Fallow land	292.0	305.0	305.0	305.0	260.6

Continuation of Table 19.

Description	2017	2018	2019	2020	2021
	Thousand ha				
<b>Agricultural land</b>	<b>114 843.6</b>	<b>114 809.2</b>	<b>114 736.7</b>	<b>114 041.8</b>	<b>113 980.0</b>
Pastures	110 429.3	110 391.6	110 330.6	109 645.6	109 584.6
Meadows	1 710.2	1 709.1	1 709.1	1 708.4	1 708.8
Arable land	1 086.8	1 100.8	1 117.2	1 127.5	1 126.2
Fallow land	241.0	231.6	216.6	211.5	211.6

**Table 20. Cropland, by types of plant**

Description	2012	2013	2014	2015	2016
	Thousand ha				
<b>Total</b>	<b>379.8</b>	<b>415.4</b>	<b>444.4</b>	<b>527.7</b>	<b>508.3</b>
Grain seed	306.2	293.3	315.0	390.7	377.8
Wheat	297.3	275.6	291.2	361.2	355.1
Potato	16.8	15.5	13.2	12.8	15.0
Vegetables	7.9	8.3	8.7	7.7	9.1
Fodder plants	13.8	14.4	17.0	23.8	29.9
Technical plants	33.2	83.9	86.7	84.5	66.2
Others	1.9	1.0	3.8	8.2	9.9

Continuation of Table 20.

Description	2017	2018	2019	2020	2021
	Thousand ha				
<b>Total</b>	<b>527.0</b>	<b>511.8</b>	<b>526.1</b>	<b>591.2</b>	<b>678.1</b>
Grain seed	390.9	366.8	369.4	408.0	432.6
Wheat	365.7	342.4	343.5	377.0	392.5
Potato	15.1	12.9	14.9	19.0	21.4
Vegetables	8.4	8.9	8.4	10.6	11.2
Fodder plants	26.4	46.3	43.8	84.5	108.3
Technical plants	81.0	71.9	86.2	64.6	99.7
Others	5.3	4.9	3.4	4.4	4.9

**Table 21. Harvesting, by types of plant**

Description	2012	2013	2014	2015	2016
	Thousand tonnes				
Grain seed	479.4	387.0	518.8	216.3	483.5
Wheat	465.3	368.4	488.3	203.9	467.1
Potato	245.9	191.6	161.5	163.8	165.3
Vegetables	98.9	101.8	104.8	72.3	94.4
Fodder plants	46.2	42.6	44.3	49.2	53.4
Technical plants	20.9	41.7	52.1	23.1	21.5

Others	1 175.1	1 169.3	1 178.7	1 028.7	1 275.4
Continuation of Table 21.					
Description	2017	2018	2019	2020	2021
	Thousand tonnes				
Grain seed	238.1	453.8	433.3	430.3	614.5
Wheat	231.4	436.1	411.4	406.1	566.3
Potato	121.8	168.9	192.2	244.3	182.6
Vegetables	82.1	100.7	99.5	121.2	121.7
Fodder plants	47.9	123.8	121.1	182.1	293.7
Technical plants	13.9	23.9	34.0	22.6	52.3
Others	1 008.1	1 229.4	1 369.2	1 186.2	1 720.6

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

Description	2012	2013	2014	2015	2016
	centner				
Grain seed	15.7	13.2	16.5	5.5	12.8
Potato	146.2	123.6	122.3	127.5	110.0

Continuation of Table 22.

Description	2017	2018	2019	2020	2021
	centner				
Grain seed	6.1	12.4	11.7	10.5	14.2
Potato	80.4	130.7	128.7	128.4	85.3

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

	2012	2013	2014	2015	2016
Annual consumption of flour for standard population, tonnes	102 293	104 305	87 300	90 400	90 823
Required grain seeds, tonnes	146 132	149 007	124 714	129 143	131 571
Required arability, ha	93 078	112 884	75 732	233 298	102 819
Grain harvested, tonnes	479 349	387 043	518 793	216 268	483 453
Supplies, percentage	328.0	259.7	416.0	167.5	367.4
Sown area, ha	306 235	293 262	315 033	390 690	377 802

Continuation of Table 23

	2017	2018	2019	2020	2021
Annual consumption of flour for standard population, tonnes	92 735.2	94 066.0	94 297.5	95 996.5	97 916.0
Required grain seeds, tonnes	134 000.0	134 379.7	134 710.4	137 138.0	139 880.2
Required arability, ha	219 992	108 608	114 857	130 021	98 485
Grain harvested, tonnes	238 101.9	453 849.2	433 305.4	430 317.9	614 497.2
Supplies, percentage	177.7	337.7	321.7	313.8	439.3
Sown area, ha	390 860.0	366 809.3	369 445.2	407 985.8	432 647.4

Table 24. Crops

Description	2012	2013	2014	2015	2016
	tonnes				
<b>Grain</b>	<b>479 348.8</b>	<b>387 043.3</b>	<b>518 793.0</b>	<b>216 267.8</b>	<b>483 453.4</b>
Wheat	465 293.9	368 379.1	488 293.6	203 899.2	467 052.8
Barley	5 925.1	4 407.4	8 472.7	2 442.9	6 483.1
Oat	5 933.6	10 109.8	18 757.6	3 290.3	7 886.2
Others	2 196.2	4 147.0	3 269.0	6 635.4	2 031.3
<b>Potatoes</b>	<b>245 935.0</b>	<b>191 619.2</b>	<b>161 488.5</b>	<b>163 766.9</b>	<b>165 329.5</b>
<b>Vegetables</b>	<b>98 917.6</b>	<b>101 750.1</b>	<b>104 791.9</b>	<b>72 347.6</b>	<b>94 447.2</b>
Cabbages	20 247.7	20 622.8	18 691.2	15 440.2	16 680.1
Turnips	23 816.9	22 358.0	23 911.5	17 645.4	21 222.6
Carrots	32 754.8	34 530.9	34 715.6	18 490.1	31 022.0
Onions	5 528.1	9 317.0	9 435.9	6 693.4	9 985.3
Garlics	678.9	976.0	1 001.9	657.4	658.7
Cucumbers	3 668.4	4 340.9	4 716.4	3 839.3	3 734.1
Tomatoes	2 100.5	2 497.9	2 393.2	1 870.8	2 228.9
Watermelons	6 432.2	5 382.8	5 304.6	5 612.6	6 606.5
Others	3 690.2	1 723.8	4 621.6	2 098.4	2 309.0

Continuation of Table 24.

Description	2017	2018	2019	2020	2021
	tonnes				
<b>Grain</b>	<b>238 101.9</b>	<b>453 849.2</b>	<b>433 305.4</b>	<b>430 317.9</b>	<b>614 497.2</b>
Wheat	231 364.4	436 114.9	411 414.8	406 129.1	566 273.0
Barley	1 693.6	2 354.9	2 511.9	3 234.8	11 687.2
Oat	3 494.7	9 971.6	13 262.5	16 596.3	33 150.1
Others	1 549.2	5 407.9	6 116.2	4 357.7	3 386.9
<b>Potatoes</b>	<b>121 808.5</b>	<b>168 882.6</b>	<b>192 239.9</b>	<b>244 261.6</b>	<b>182 638.2</b>
<b>Vegetables</b>	<b>82 102.0</b>	<b>100 731.7</b>	<b>99 546.5</b>	<b>121 235.1</b>	<b>121 743.4</b>
Cabbages	15 214.3	18 790.0	21 884.5	24 376.9	26 801.6
Turnips	16 581.6	24 139.4	21 506.4	30 043.3	25 859.3
Carrots	21 681.4	26 315.7	28 868.3	33 799.5	26 558.3
Onions	12 129.5	14 095.3	9 515.1	11 354.5	20 366.0
Garlics	447.1	543.0	783.5	1 361.4	1 457.0
Cucumbers	3 922.3	3 761.4	4 707.4	6 054.4	6 161.2
Tomatoes	2 017.6	1 922.3	1 917.8	2 308.2	1 984.5
Watermelons	8 121.7	8 799.5	8 313.0	9 448.5	9 610.3
Others	1 353.9	2 365.0	2 050.4	2 488.4	2 945.2

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

Description	2012	2013	2014	2015	2016
<b>Agriculture</b>	<b>11.2</b>	<b>13.4</b>	<b>13.3</b>	<b>14.0</b>	<b>12.5</b>
Crop	0.8	1.2	1.1	0.8	0.9
Livestock	10.2	12.1	12.0	13.1	11.5
Other agriculture	0.2	0.2	0.2	0.1	0.1

Continuation of Table 25.

Description	2017	2018	2019	2020	2021
<b>Agriculture</b>	<b>11.0</b>	<b>11.3</b>	<b>11.5</b>	<b>12.8</b>	<b>13.0</b>
Crop	0.7	0.9	0.9	1.0	1.3
Livestock	10.2	10.3	10.5	11.8	11.6
Other agriculture	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	2012		2013	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	3 311.7	15 431.0	7 373.7	39 694.1
	Mutton	tonnes	4 721.3	20 745.7	6 416.6	33 987.4
	Horse meat	tonnes	845.4	3 329.3	2 354.6	10 500.0
	Chevon	tonnes	4 280.1	14 843.2	3 614.1	15 581.7
	Camel	tonnes	0.4	0.6	-	-
	Pork	tonnes	21.5	294.1	13.4	189.5
Meat products	Ham	tonnes	2 192.2	15 527.2	2 260.8	17 161.4
	Smoked, cooked and other processed meats	tonnes	60.0	334.6	63.0	403.7
	Offal	tonnes	40.4	55.5	270.2	597.5
	Intestines	thous.loops	941.9	3 890.1	696.1	2 491.2
	Canned meat	tonnes	130.0	367.6	231.2	674.5
Milk	Drinking milk	thous.liters	24 847.3	31 737.1	26 330.3	35 312.7
Dairy products	Milk cream	tonnes	3.4	19.9	15.2	101.2
	Clabber	thous.liters	7 706.8	13 668.8	8 645.9	16 872.3
	Camel milk	thous.liters	8.1	20.7	3.2	8.5
	Dried curds	tonnes	19.1	95.5	115.2	1 168.6
	Butter	tonnes	102.6	733.8	148.0	1 062.2
	Thick butter	tonnes	1 479.8	3 308.5	1 023.6	2 245.1
	Clotted milk, sour cream	tonnes	1.8	6.6	2.5	12.0
	Clarified butter	tonnes	2.8	28.0	2.1	20.8
	Fine butter	tonnes	-	-	0.1	0.8
	Cheese	tonnes	11.1	106.6	13.2	156.5
	Curds	tonnes	318.8	1 896.2	123.5	683.7
	Casein	tonnes	-	-	-	-
	Ice-creams	thousand	32 065.9	5 247.9	18 634.2	3 752.8
	Milk protein	kilograms	11.4	31.3	49.7	117.0
Flour	Wheat flour, high grade	tonnes	32 747.8	17 163.1	45 789.1	30 334.3
	Wheat flour, first grade	tonnes	67 486.5	34 078.1	169 204.0	81 555.7
	Wheat flour, second grade	tonnes	14 584.5	5 296.5	31 519.1	11 580.4
	Animal fodder	tonnes	38 193.8	6 574.0	82 359.1	14 057.2
Flour products	Bread	tonnes	22 498.4	26 297.7	21 689.7	27 240.0
	Fine pastries	tonnes	11 503.0	28 848.0	15 727.9	40 095.1
	Traditional pastries	tonnes	594.6	2 041.6	866.5	3 238.9
	Cake	tonnes	820.4	5 647.0	833.6	6 177.4
	Cookies/Biscuits	tonnes	646.9	1 893.3	487.4	1 502.6
	Noodles/ Pastas	tonnes	3 191.7	1 742.1	1 512.2	2 261.9
Alcoholic drinks	Alcohol	thous.liters	10 761.3	29 265.5	9 950.4	29 503.3
	Vodka	thous.liters	26 801.8	100 747.6	24 762.8	103 927.8
	Wine	thous.liters	79.8	314.3	78.3	316.5

	Beers	thous.liters	65 124.6	97 863.1	63 775.3	91 764.9
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Continuation of Table 26.

Main products		Meas.unit	2014		2015	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	5 496.4	30 065.5	2 859.5	13 573.0
	Mutton	tonnes	5 412.7	27 825.9	3 243.2	13 777.5
	Horse meat	tonnes	2 237.5	10 165.3	3 731.4	13 775.7
	Chevon	tonnes	3 636.7	15 652.7	2 765.4	10 604.9
	Camel	tonnes	-	-	-	-
	Pork	tonnes	316.5	2 179.9	485.8	1 909.0
Meat products	Ham	tonnes	3 337.7	25 227.6	3 361.0	27 053.2
	Smoked, cooked and other processed meats	tonnes	25.8	121.0	20.4	102.4
	Offal	tonnes	306.7	367.9	218.9	287.3
	Intestines	thous.loops	407.3	1 023.4	625.6	1 500.7
	Canned meat	tonnes	250.5	820.9	81.8	662.0
Milk	Drinking milk	thous.liters	28 003.3	45 866.4	26 947.7	54 080.8
Dairy products	Milk cream	tonnes	4.2	30.6	3.8	19.1
	Clabber	thous.liters	6 960.9	15 418.9	7 015.3	15 477.3
	Camel milk	thous.liters	4.2	13.1	8.8	29.4
	Dried curds	tonnes	144.9	1 552.9	169.8	1 737.1
	Butter	tonnes	130.6	1 135.1	126.7	1 384.8
	Thick butter	tonnes	1 311.6	2 983.2	1 309.9	3 834.4
	Clotted milk, sour cream	tonnes	3.5	10.6	3.7	30.9
	Clarified butter	tonnes	-	-	0.0	0.1
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	1.9	27.0	2.8	50.9
	Curds	tonnes	105.0	798.7	143.0	1 073.8
	Casein	tonnes	0.0	0.1	0.0	0.1
	Ice-creams	thousand	27 255.4	5 666.4	24 628.4	5 923.1
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	45 217.6	41 231.8	39 946.0	39 176.0
	Wheat flour, first grade	tonnes	157 815.6	101 116.2	145 008.2	110 296.5
	Wheat flour, second grade	tonnes	25 181.2	10 929.5	21 519.2	11 438.2
	Animal fodder	tonnes	67 807.9	19 058.3	67 094.7	23 217.4
Flour products	Bread	tonnes	25 801.5	34 334.0	23 977.3	41 496.8
	Fine pastries	tonnes	16 271.6	45 075.6	15 858.9	44 575.0
	Traditional pastries	tonnes	466.9	1 624.7	485.4	1 978.3
	Cake	tonnes	979.6	7 651.9	1 167.1	9 179.1
	Cookies/Biscuits	tonnes	470.3	1 408.5	478.8	1 416.2
	Noodles/ Pastas	tonnes	2 730.8	2 739.0	2 027.5	2 026.5
Alcoholic drinks	Alcohol	thous.liters	9 126.0	27 115.6	8 668.6	31 296.4
	Vodka	thous.liters	24 181.4	130 304.4	21 131.9	144 858.0
	Wine	thous.liters	76.7	347.3	75.0	352.8
	Beers	thous.liters	67 740.7	107 179.9	74 857.2	159 402.7

Continuation of Table 26.

Main products		Meas.unit	2016		2017	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	1 553.5	7 712.1	3 742.4	19 509.5
	Mutton	tonnes	1 493.1	6 448.6	5 886.6	24 205.9
	Horse meat	tonnes	4 688.0	16 919.1	13 393.5	44 491.1
	Chevon	tonnes	1 215.3	3 588.7	2 515.5	8 632.9
	Camel	tonnes	-	-	-	-
	Pork	tonnes	747.8	2 783.9	582.3	2 682.4
Meat products	Ham	tonnes	4 628.3	37 546.5	4 636.3	37 726.1
	Smoked, cooked and other processed meats	tonnes	9.3	75.9	27.2	278.9
	Offal	tonnes	176.5	196.8	273.0	397.9
	Intestines	thous.loops	878.2	4 933.1	779.9	7 241.4
	Canned meat	tonnes	158.0	1 275.9	185.5	1 604.8
Milk	Drinking milk	thous.liters	29 512.9	66 588.1	33 378.0	60 682.8
Dairy products	Milk cream	tonnes	3.1	25.0	3.4	29.7
	Clabber	thous.liters	7 863.5	22 849.5	10 268.1	24 850.5
	Camel milk	thous.liters	9.0	34.4	6.7	35.1
	Dried curds	tonnes	152.9	1 816.6	159.7	2 154.3
	Butter	tonnes	157.4	1 700.3	143.7	1 778.2
	Thick butter	tonnes	260.6	1 611.5	155.9	1 286.8
	Clotted milk, sour cream	tonnes	218.0	1 068.9	195.1	409.9
	Clarified butter	tonnes	2.9	30.4	3.5	33.0
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	0.0	0.3	2.0	36.9
	Curds	tonnes	106.9	770.0	137.9	948.5
	Casein	tonnes	0.0	0.0	0.0	0.1
	Ice-creams	thousand	32 611.8	6 966.2	39 615.1	11 984.7
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	44 514.0	43 715.3	47 213.9	47 556.4
	Wheat flour, first grade	tonnes	148 505.0	110 350.0	142 257.6	108 009.3
	Wheat flour, second grade	tonnes	16 659.5	8 806.7	19 052.6	9 442.2
	Animal fodder	tonnes	58 983.4	17 730.5	95 964.0	32 725.2
Flour products	Bread	tonnes	22 282.9	40 648.5	23 829.8	44 564.5
	Fine pastries	tonnes	15 510.3	43 234.8	17 237.7	50 808.5
	Traditional pastries	tonnes	483.6	2 110.8	511.3	2 019.1
	Cake	tonnes	1 024.9	8 919.3	1 621.6	14 118.3
	Cookies/Biscuits	tonnes	491.3	1 431.0	355.5	1 160.1
	Noodles/ Pastas	tonnes	4 050.5	6 547.5	6 998.5	10 530.2
Alcoholic drinks	Alcohol	thous.liters	8 647.7	35 009.5	8 854.5	29 752.0
	Vodka	thous.liters	23 808.1	203 069.5	24 647.3	215 622.4
	Wine	thous.liters	79.5	419.2	102.6	495.9
	Beers	thous.liters	75 732.3	114 544.4	82 415.2	102 528.4



Continuation of Table 26.

Main products		Meas.unit	2018		2019	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	5 546.4	25 798.2	3 827.5	24 483.5
	Mutton	tonnes	9 202.9	39 998.7	8 272.9	45 617.4
	Horse meat	tonnes	24 015.7	113 210.6	16 147.2	84 960.0
	Chevon	tonnes	6 456.7	25 356.5	3 480.5	17 150.1
	Camel	tonnes	-	-	-	-
	Pork	tonnes	673.3	3 614.6	652.6	5 053.1
Meat products	Ham	tonnes	5 686.8	48 787.6	5 584.2	60 193.9
	Smoked, cooked and other processed meats	tonnes	1 870.8	12 987.2	2 446.5	20 084.4
	Offal	tonnes	406.3	322.4	966.6	2 334.2
	Intestines	thous.loops	600.9	4 226.8	704.0	8 491.6
	Canned meat	tonnes	233.5	2 118.5	253.6	2 316.9
Milk	Drinking milk	thous.liters	38 253.2	76 618.3	40 448.9	78 688.4
Dairy products	Milk cream	tonnes	5.1	46.4	3.6	38.8
	Clabber	thous.liters	13 474.7	32 774.7	13 745.0	34 624.1
	Camel milk	thous.liters	9.9	43.2	9.1	47.2
	Dried curds	tonnes	144.4	2 094.6	158.2	2 427.8
	Butter	tonnes	142.4	2 431.8	203.9	3 253.8
	Thick butter	tonnes	177.4	1 499.2	190.0	1 636.1
	Clotted milk, sour cream	tonnes	367.0	1 375.6	528.1	2 010.4
	Clarified butter	tonnes	158.7	600.8	131.5	614.3
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	10.4	176.9	21.8	341.2
	Curds	tonnes	221.4	3 345.9	484.9	8 830.3
	Casein	tonnes	0.0	0.2	0.0	0.0
	Ice-creams	thousand	100 658.8	25 209.9	104 766.6	26 169.5
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	68 309.8	72 809.4	48 216.3	47 997.9
	Wheat flour, first grade	tonnes	150 802.1	117 146.2	143 401.9	113 317.7
	Wheat flour, second grade	tonnes	19 791.4	10 748.8	17 314.6	9 230.0
	Animal fodder	tonnes	108 238.3	38 748.9	74 922.0	27 651.4
Flour products	Bread	tonnes	27 436.2	53 076.9	27 798.7	58 389.8
	Fine pastries	tonnes	18 952.9	59 207.6	21 215.5	70 327.6
	Traditional pastries	tonnes	509.4	2 242.3	640.1	3 419.2
	Cake	tonnes	2 143.6	19 542.5	2 469.8	23 018.0
	Cookies/Biscuits	tonnes	317.9	1 082.4	1 465.6	4 161.4
	Noodles/ Pastas	tonnes	7 561.8	10 368.3	8 842.7	14 004.5
Alcoholic drinks	Alcohol	thous.liters	10 581.4	33 924.7	10 143.1	31 273.2
	Vodka	thous.liters	28 802.6	258 219.0	26 874.0	243 927.4
	Wine	thous.liters	110.3	589.9	281.5	2 873.2
	Beers	thous.liters	91 246.0	117 087.0	91 975.1	113 946.4

Continuation of Table 26.

Main products		Meas.unit	2020		2021	
			Volume	Price /million MNT/	Volume	Price /million MNT/
Meat	Beef	tonnes	2 871.0	21 958.6	4 657.1	42 034.0
	Mutton	tonnes	7 163.8	45 513.8	8 661.6	62 629.7
	Horse meat	tonnes	10 623.7	50 895.4	4 830.1	31 375.7
	Chevon	tonnes	4 921.7	29 978.9	8 131.0	52 639.0
	Camel	tonnes	2.9	10.9	-	-
	Pork	tonnes	617.8	5 698.0	1 004.1	10 523.8
Meat products	Ham	tonnes	6 695.4	71 015.9	8 906.6	105 064.2
	Smoked, cooked and other processed meats	tonnes	3 079.8	18 647.8	2 719.4	22 676.8
	Offal	tonnes	413.2	945.7	481.6	778.8
	Intestines	thous.loops	577.6	7 818.0	571.0	8 979.3
	Canned meat	tonnes	390.0	2 811.5	262.5	1 630.0
Milk	Drinking milk	thous.liters	45 045.4	96 798.4	53 614.4	123 262.0
Dairy products	Milk cream	tonnes	5.6	64.5	21.4	184.7
	Clabber	thous.liters	20 974.2	54 561.2	25 211.8	72 203.1
	Camel milk	thous.liters	4.8	37.2	37.0	296.6
	Dried curds	tonnes	147.5	2 400.9	192.3	3 042.4
	Butter	tonnes	250.0	4 251.7	256.6	4 353.8
	Thick butter	tonnes	178.7	1 724.8	175.2	1 879.4
	Clotted milk, sour cream	tonnes	574.6	2 411.9	512.6	2 230.4
	Clarified butter	tonnes	17.2	411.2	2.4	49.4
	Fine butter	tonnes	-	-	-	-
	Cheese	tonnes	103.0	1 484.2	12.3	163.1
	Curds	tonnes	571.9	11 975.2	555.9	9 703.1
	Casein	tonnes	0.8	9.8	0.8	10.3
	Ice-creams	thousand	103 257.9	26 886.2	144 513.5	66 919.4
	Milk protein	kilograms	-	-	-	-
Flour	Wheat flour, high grade	tonnes	51 612.4	52 970.8	49 593.7	60 160.5
	Wheat flour, first grade	tonnes	159 086.0	132 687.9	150 421.2	147 826.6
	Wheat flour, second grade	tonnes	24 415.7	13 154.8	17 876.4	11 330.2
	Animal fodder	tonnes	87 970.4	37 658.2	78 622.0	39 611.1
Flour products	Bread	tonnes	31 060.0	67 871.4	35 954.1	84 515.5
	Fine pastries	tonnes	25 339.9	85 383.6	35 099.4	116 895.8
	Traditional pastries	tonnes	646.4	3 654.2	525.8	3 215.9
	Cake	tonnes	4 518.1	34 458.4	4 820.1	42 689.7
	Cookies/Biscuits	tonnes	883.1	2 981.5	926.5	3 503.9
	Noodles/ Pastas	tonnes	4 615.8	7 287.9	3 530.0	7 081.3
Alcoholic drinks	Alcohol	thous.liters	10 063.7	25 325.8	10 947.0	31 978.1
	Vodka	thous.liters	24 285.4	258 909.3	27 026.8	307 219.6
	Wine	thous.liters	300.6	2 815.2	371.3	3 309.5
	Beers	thous.liters	92 802.2	96 602.6	101 758.8	97 703.1

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

Main products		Meas.unit	2012		2013	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	41.0	36.1	47.0	32.9
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	kilograms	965 090.0	3 301.3	-	-
	Mutton and goat meat	kilograms	675 142.0	1 775.3	403 418.4	2 209.3
	Horse meat	kilograms	1 462 115.6	4 765.3	2 597 800.0	7 573.0
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	821 225.8	511.9	790 424.2	1 320.9
	Intestines, bladder, tripe	kilograms	487 094.6	10 683.0	592 629.4	11 716.5
	Ham, sausage	kilograms	-	-	-	-
	Smoked, dried meat and offal	kilograms	1 805.0	13.0	-	-
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	Clabber and dairy products	kilograms	-	-	12.0	0.1
	Butter	kilograms	-	-	-	-
	Cheese and dried curds	kilograms	9.6	0.1	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	200.0	0.1	11 350.0	32.4
Potatoes and vegetables	Potato	kilograms	-	-	2 487 696.0	391.7
	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	19 198.0	232.0	154 926.5	1 304.5
	Grape wine	liter	360.0	1.2	-	-
	Beer	liter	17 091.0	13.7	90.0	0.7

Continuation of Table 27.

Main products		Meas.unit	2014		2015	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	73.0	37.8	8 923.0	2 986.8
	Cattle	heads	-	-	97.0	21.9
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	kilograms	480 000.0	1 590.6	847 650.0	2 621.9
	Mutton and goat meat	kilograms	-	-	39 000.0	117.0
	Horse meat	kilograms	1 822 151.1	4 971.5	3 856 880.0	7 318.5
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	202 793.2	238.9	42 692.8	88.3
	Intestines, bladder, tripe	kilograms	377 450.0	8 036.8	432 723.7	8 863.2
	Ham, sausage	kilograms	-	-	1 340.4	5.3
	Smoked, dried meat and offal	kilograms	65 020.0	277.5	7 334.7	28.5
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	Clabber and dairy products	kilograms	13.2	0.1	1 300.0	3.8
	Butter	kilograms	-	-	9.9	0.1
	Cheese and dried curds	kilograms	-	-	130.0	0.7
Flour, flour products	Wheat flour, high grade	kilograms	-	-	-	-
	Wheat flour, first grade	kilograms	-	-	1 380 800.0	692.0
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	5 741.0	5.0	11 925.0	13.3
Potatoes and vegetables	Potato	kilograms	4 483 776.5	571.8	-	-
	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	53 053.4	394.6	17 917.9	92.8
	Grape wine	liter	1 037.3	10.0	1 560.0	13.7
	Beer	liter	6 297.3	9.1	75 438.2	75.1

Continuation of Table 27.

Main products		Meas.unit	2016		2017	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	6 472.0	1 539.0	117.0	110.0
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	-	-	-	-
Meat	Frozen beef	kilograms	695 085.0	1 592.3	600 000.0	1 643.3
	Mutton and goat meat	kilograms	238 001.0	361.5	2 601 590.4	8 267.0
	Horse meat	kilograms	7 983 574.8	14 392.6	26 118 706.0	44 529.2
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	8 432.6	59.2	127 859.7	189.4
	Intestines, bladder, tripe	kilograms	503 756.7	6 645.2	470 574.2	6 440.2
	Ham, sausage	kilograms	12 524.8	38.1	25 310.5	126.3
	Smoked, dried meat and offal	kilograms	23 010.2	93.9	29 443.0	233.4
Milk, dairy products	Drinking milk, milk cream	kilograms	360.0	0.4	1 360.0	2.3
	Clabber and dairy products	kilograms	23 274.8	53.6	65 776.9	441.8
	Butter	kilograms	1 690.0	6.5	117.3	0.8
	Cheese and dried curds	kilograms	10 542.1	55.4	15 097.6	127.5
Flour, flour products	Wheat flour, high grade	kilograms	4 885.0	2.3	70 000.0	21.0
	Wheat flour, first grade	kilograms	130.0	0.1	100.0	0.0
	Wheat flour, second grade	kilograms	55.0	0.0	65 000.0	16.8
	Noodles, dumplings, couscous	kilograms	83 438.0	175.2	57 764.6	46.9
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	30 195.0	141.8	14 385.4	65.4
	Grape wine	liter	1 525.5	13.0	11 161.5	57.5
	Beer	liter	162 377.8	1 183.0	329 721.8	473.2

Continuation of Table 27.

Main products		Meas.unit	2018		2019	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	171.0	180.1	215.0	282.8
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	1 050.0	40.7	-	-
Meat	Frozen beef	kilograms	1 054 582.5	3 175.8	-	-
	Mutton and goat meat	kilograms	6 131 117.8	15 567.7	7 041 921.4	24 164.6
	Horse meat	kilograms	32 200 812.0	64 974.0	30 834 881.2	57 688.6
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 631 250.6	2 179.7	2 357 940.0	2 509.4
	Intestines, bladder, tripe	kilograms	637 729.7	8 683.6	568 048.8	8 627.5
	Ham, sausage	kilograms	158 690.0	620.8	10 126.0	50.4
	Smoked, dried meat and offal	kilograms	18 716.0	131.3	31 525.0	163.8
Milk, dairy products	Drinking milk, milk cream	kilograms	1 980.0	2.0	-	-
	Clabber and dairy products	kilograms	30 306.0	91.6	1 673.4	2.0
	Butter	kilograms	375.0	6.2	2 000.0	44.9
	Cheese and dried curds	kilograms	6 071.0	76.6	3 333.2	15.8
Flour, flour products	Wheat flour, high grade	kilograms	4 000.0	1.5	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	37 245.7	29.8	36 266.7	28.0
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	28 939.0	149.8	33 867.2	242.5
	Grape wine	liter	144.0	2.8	45.0	0.7
	Beer	liter	360 658.4	382.9	511 576.8	531.6

Continuation of Table 27.

Main products		Meas.unit	2020		2021	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	142.0	42.4	30.0	48.0
	Cattle	heads	-	-	-	-
	Sheep and goat	heads	29 808.0	878.6	-	-
Meat	Frozen beef	kilograms	-	-	-	-
	Mutton and goat meat	kilograms	1 802 248.9	4 828.3	1 692 060.0	4 334.8
	Horse meat	kilograms	17 567 760.0	33 047.5	6 950 002.0	14 443.5
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 200 884.0	1 257.1	1 238 300.0	930.6
	Intestines, bladder, tripe	kilograms	857 263.7	9 269.5	731 529.3	15 355.6
	Ham, sausage	kilograms	-	-	-	-
	Smoked, dried meat and offal	kilograms	80 360.0	403.1	4 540.0	21.6
Milk, dairy products	Drinking milk, milk cream	kilograms	-	-	-	-
	Clabber and dairy products	kilograms	199 298.8	119.5	233 370.8	190.9
	Butter	kilograms	299.6	2.4	92.5	1.3
	Cheese and dried curds	kilograms	42 039.4	227.2	15 859.9	96.2
Flour, flour products	Wheat flour, high grade	kilograms	-	-	-	-
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	-	-	-	-
	Noodles, dumplings, couscous	kilograms	10 795.0	9.5	30.0	-
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	50 242.5	696.0	103 453.3	506.9
	Grape wine	liter	-	-	-	-
	Beer	liter	152 796.0	158.6	393 879.8	458.7

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

Main products		Meas.unit	2012		2013	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	270	209.1	144	130.6
	Cattle	heads	176	1141.8	50	370.6
	Sheep and goat	heads	-	-	214	214.1
Meat	Fresh beef	kilograms	16 138.7	288.6	11 209.2	217.7
	Frozen beef	kilograms	11 817.8	56.9	70 807.5	276.7
	Mutton and goat meat	kilograms	17 839.6	133.5	1 022.1	17.4
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 728 611.7	5 027.1	1 643 015.1	4 606.6
	Ham, sausage	kilograms	50 709.7	72.3	69 760.0	81.6
	Poultry meat and by-products	kilograms	36 619.0	104.2	62 897.9	216.7
	Smoked, dried meat and offal	kilograms	8 275 416.4	12 549.8	9 309 623.3	15 870.8
Milk, dairy products	Drinking milk, milk cream	liter	5 051.7	10.3	48 935.8	247.0
	Clabber and dairy products	kilograms	729 594.8	800.9	189 480.1	254.3
	Butter	kilograms	822 719.2	1 798.9	1 110 113.8	2 231.3
	Cheese and dried curds	kilograms	108 292.0	493.8	139 380.0	637.2
Flour, flour products	Wheat flour, high grade	kilograms	493 433.4	2 114.5	801 890.8	3 608.8
	Wheat flour, first grade	kilograms	22 662 796.1	8 424.9	17 062 909.2	7 903.1
	Wheat flour, second grade	kilograms	26 356 485.5	7 839.1	5 531 059.7	1 739.9
	Noodles, dumplings, couscous	kilograms	487.6	0.2	858.5	1.2
	Bread and sweet pastries	kilograms	12 219 608.7	17 137.4	13 682 520.7	21 559.0
Potatoes and vegetables	Potato	kilograms	14 973 019.7	30 809.5	14 731 063.1	31 732.9
	Onions and garlic	kilograms	3 162 439.9	866.1	31 985.0	10.5
	Cabbage	kilograms	10 477 145.7	1 861.1	16 241 113.6	2 781.1
	Carrots, beets and other root vegetables	kilograms	34 523 227.3	5 156.6	23 094 422.6	3 617.0
	Cucumbers	kilograms	18 462 496.3	2 648.6	10 427 565.2	1 516.2
Alcohol	Ethyl alcohol	liter	1 283 233.1	380.6	3 044 678.0	791.9
	Liqueur, whiskey, cognac, vodka	liter	2 001.0	12.5	78.3	0.8
	Grape wine	liter	543 037.1	7 401.0	422 897.9	5 706.7
	Beer	liter	2 166 481.7	6 530.2	1 477 878.0	6 188.8



Continuation of Table 28.

Main products		Meas.unit	2014		2015	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	159	123.5	434	389.8
	Cattle	heads	885	3271.0	5	1.6
	Sheep and goat	heads	48	13.5	20	5.0
Meat	Fresh beef	kilograms	4 097.9	77.8	2 724.5	47.0
	Frozen beef	kilograms	2 752.9	56.3	1 973.2	44.2
	Mutton and goat meat	kilograms	-	-	-	-
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 981 871.5	5 001.1	1 795 649.0	3 469.4
	Ham, sausage	kilograms	192 741.5	236.7	322 197.0	319.5
	Poultry meat and by-products	kilograms	56 442.5	218.4	90 736.5	288.8
	Smoked, dried meat and offal	kilograms	8 870 824.1	15 537.4	5 826 311.7	10 831.5
Milk, dairy products	Drinking milk, milk cream	liter	57 221.6	323.1	37 141.9	186.5
	Clabber and dairy products	kilograms	191 656.4	243.2	197 247.1	161.6
	Butter	kilograms	904 375.5	1 716.8	855 999.2	1 135.2
	Cheese and dried curds	kilograms	143 243.1	727.2	224 191.1	847.2
Flour, flour products	Wheat flour, high grade	kilograms	889 023.2	3 872.0	924 692.1	3 558.3
	Wheat flour, first grade	kilograms	13 500 396.8	5 444.4	8 936 664.0	2 999.9
	Wheat flour, second grade	kilograms	3 087 681.0	1 001.2	10 826 668.0	2 855.2
	Noodles, dumplings, couscous	kilograms	12 118.4	6.7	-	-
	Bread and sweet pastries	kilograms	11 247 417.2	18 294.5	10 954 762.1	16 397.5
Potatoes and vegetables	Potato	kilograms	14 422 215.9	31 413.3	13 678 941.0	26 458.1
	Onions and garlic	kilograms	5 409 524.2	1 008.3	17 058 918.5	3 468.2
	Cabbage	kilograms	19 074 749.9	3 584.9	8 623 304.7	2 227.3
	Carrots, beets and other root vegetables	kilograms	23 899 081.0	4 424.6	24 487 856.8	4 603.3
	Cucumbers	kilograms	9 112 833.9	1 483.5	2 297 109.4	518.4
Alcohol	Ethyl alcohol	liter	2 980 605.0	825.9	3 284 218.0	776.6
	Liqueur, whiskey, cognac, vodka	liter	763.0	12.5	533.7	3.4
	Grape wine	liter	459 017.7	7 039.3	417 132.9	4 865.7
	Beer	liter	1 778 995.7	6 699.2	1 448 336.4	5 059.2

Continuation of Table 28.

Main products		Meas.unit	2016		2017	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	279	179.3	371	232.8
	Cattle	heads	122	253.1	370	627.6
	Sheep and goat	heads	117	40.2	687	624.6
Meat	Fresh beef	kilograms	5 454.1	107.5	4 119.8	85.8
	Frozen beef	kilograms	78 316.0	178.9	1 865.0	32.1
	Mutton and goat meat	kilograms	60 701.0	90.5	-	-
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	1 591 430.8	3 964.2	2 430 534.0	6 023.2
	Ham, sausage	kilograms	95 218.0	87.1	176 426.0	187.7
	Poultry meat and by-products	kilograms	42 708.8	137.3	187 339.1	404.5
	Smoked, dried meat and offal	kilograms	7 372 315.7	12 630.6	9 378 200.2	14 823.7
Milk, dairy products	Drinking milk, milk cream	liter	39 510.4	169.1	6 533.8	43.5
	Clabber and dairy products	kilograms	4 464.0	4.4	61 333.4	234.1
	Butter	kilograms	783 852.4	1 068.4	1 133 940.8	1 852.2
	Cheese and dried curds	kilograms	292 366.3	1 064.1	408 813.2	1 918.3
Flour, flour products	Wheat flour, high grade	kilograms	720 746.0	2 648.9	1 067 076.3	4 203.4
	Wheat flour, first grade	kilograms	21 013 267.0	5 916.6	-	-
	Wheat flour, second grade	kilograms	8 355 020.0	2 148.2	-	-
	Noodles, dumplings, couscous	kilograms	480 000.0	108.6	-	-
	Bread and sweet pastries	kilograms	10 211 289.9	14 472.3	11 402 800.6	17 535.9
Potatoes and vegetables	Potato	kilograms	14 708 908.4	28 378.1	14 511 670.0	29 494.5
	Onions and garlic	kilograms	656 033.4	215.2	441 443.5	109.9
	Cabbage	kilograms	12 441 664.4	2 714.2	17 374 781.1	3 694.1
	Carrots, beets and other root vegetables	kilograms	24 587 497.1	4 885.3	30 041 102.3	5 536.4
	Cucumbers	kilograms	8 597 232.0	1 595.5	9 949 677.0	1 810.8
Alcohol	Ethyl alcohol	liter	1 845 170.8	434.7	728 632.1	169.0
	Liqueur, whiskey, cognac, vodka	liter	377.0	1.6	-	-
	Grape wine	liter	769 230.1	5 411.9	882 121.9	8 788.7
	Beer	liter	1 277 151.8	4 177.4	1 807 879.4	6 560.9

Continuation of Table 28.

Main products		Meas.unit	2018		2019	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	367	261.2	675	498.5
	Cattle	heads	-	-	354	610.2
	Sheep and goat	heads	200	138.9	-	-
Meat	Fresh beef	kilograms	-	-	68.9	1.6
	Frozen beef	kilograms	3 165.3	80.5	3 083.4	67.8
	Mutton and goat meat	kilograms	-	-	119 412.0	423.1
	Pork	kilograms	-	-	-	-
Meat products	Offal	kilograms	3 061 893.8	6 896.2	2 050 347.8	5 923.0
	Ham, sausage	kilograms	278 411.0	355.7	225 280.7	225.7
	Poultry meat and by-products	kilograms	40 304.7	123.6	58 226.9	135.6
	Smoked, dried meat and offal	kilograms	11 642 071.4	21 490.7	13 215 027.6	24 597.9
Milk, dairy products	Drinking milk, milk cream	liter	28 671.1	121.3	27 024.9	87.4
	Clabber and dairy products	kilograms	101 458.9	309.6	115 380.7	431.2
	Butter	kilograms	1 475 524.5	2 514.8	1 992 375.8	3 650.1
	Cheese and dried curds	kilograms	327 480.9	1 659.5	225 850.8	1 328.4
Flour, flour products	Wheat flour, high grade	kilograms	1 396 208.5	5 488.5	1 533 515.2	6 032.0
	Wheat flour, first grade	kilograms	-	-	2 855 817.0	942.5
	Wheat flour, second grade	kilograms	-	-	26 596.0	11.8
	Noodles, dumplings, couscous	kilograms	-	-	3 456.0	1.4
	Bread and sweet pastries	kilograms	12 628 722.4	21 731.3	11 894 667.6	22 668.8
Potatoes and vegetables	Potato	kilograms	17 370 450.0	34 526.4	18 793 350.2	39 438.6
	Onions and garlic	kilograms	2 891 960.6	568.1	385 037.0	79.5
	Cabbage	kilograms	28 113 563.3	4 742.5	18 406 346.0	3 063.8
	Carrots, beets and other root vegetables	kilograms	28 346 209.2	5 432.0	29 438 071.9	5 325.9
	Cucumbers	kilograms	9 636 991.9	1 682.9	8 343 220.0	1 594.0
Alcohol	Ethyl alcohol	liter	824 634.8	210.4	483 609.3	129.9
	Liqueur, whiskey, cognac, vodka	liter	520.8	2.4	8.0	0.9
	Grape wine	liter	1 169 698.9	11 249.5	1 327 813.3	13 810.7
	Beer	liter	2 087 430.9	7 647.6	1 750 221.4	6 339.8

Continuation of Table 28.

Main products		Meas.unit	2020		2021	
			Quantity	Price	Quantity	Price
Livestock	Horse	heads	39	25.3	500	576.9
	Cattle	heads	96	313.7	85	152.3
	Sheep and goat	heads	-	-	50	9.6
Meat	Fresh beef	kilograms	-	-	-	-
	Frozen beef	kilograms	7 476.5	85.2	4 482.0	78.9
	Mutton and goat meat	kilograms	-	-	-	-
	Horse meat	kilograms	-	-	25 000.0	55.0
	Pork	kilograms	3 357 305.2	8 790.1	7 436 713.5	20 261.3
Meat products	Offal	kilograms	379 918.4	381.6	523 139.9	452.7
	Ham, sausage	kilograms	46 385.8	175.1	72 422.1	360.7
	Poultry meat and by-products	kilograms	15 059 108.4	23 554.2	18 120 117.6	34 521.5
	Smoked, dried meat and offal	kilograms	33 420.5	249.8	74 862.5	535.4
Milk, dairy products	Drinking milk, milk cream	liter	123 711.8	412.6	196 039.4	773.4
	Clabber and dairy products	kilograms	2 429 285.9	4 312.0	3 301 930.3	6 248.0
	Butter	kilograms	264 475.5	1 391.5	530 974.1	3 091.4
	Cheese and dried curds	kilograms	1 745 677.6	7 065.0	2 610 922.6	11 723.3
Flour, flour products	Wheat flour, high grade	kilograms	1 211 200.0	455.1	584 829.6	186.1
	Wheat flour, first grade	kilograms	-	-	-	-
	Wheat flour, second grade	kilograms	75 000.0	16.9	-	-
	Noodles, dumplings, couscous	kilograms	12 965 213.4	22 298.6	13 519 459.4	24 955.1
	Bread and sweet pastries	kilograms	18 399 500.4	38 396.7	22 005 415.5	51 890.7
Potatoes and vegetables	Potato	kilograms	8 900.0	2.0	100 925.0	110.4
	Onions and garlic	kilograms	22 422 797.9	4 303.4	19 942 640.6	5 306.5
	Cabbage	kilograms	28 082 920.5	5 726.5	26 169 991.3	5 742.5
	Carrots, beets and other root vegetables	kilograms	4 698 370.5	896.6	4 052 820.0	811.0
	Cucumbers	kilograms	333 234.5	83.7	1 248 502.0	557.6
Alcohol	Ethyl alcohol	liter	1 510.0	5.7	11.5	1.5
	Liqueur, whiskey, cognac, vodka	liter	1 414 756.5	13 949.8	2 094 369.2	19 601.5
	Grape wine	liter	1 548 714.8	5 672.9	3 308 997.4	12 700.4
	Beer	liter	6 125 589.6	5 450.2	16 665 580.8	14 317.0

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

Products	2012	2013	2014	2015	2016
	Thousand liters				
Production	102 767.5	88 616.4	91 998.8	104 732.7	108 267.6
Export	36.6	154.9	60.4	94.9	194.1
Import	31 386.1	35 108.9	23 915.1	17 726.5	18 731.7
Supply of production and import	134 116.9	123 570.3	115 853.5	122 364.3	126 805.2

Continuation of Table 29.

Products	2017	2018	2019	2020	2021
	Thousand liters				
Production	116 019.6	130 740.2	129 273.7	127 451.9	140 110.0
Export	355.3	389.7	545.5	203.0	497.3
Import	9 076.0	10 613.6	8 382.5	9 090.6	22 054.5
Supply of production and import	124 740.4	140 964.0	137 110.7	136 339.4	161 667.2

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

Production	2012	2013	2014	2015	2016
	liters				
Per capita of total population	9.9	8.9	8.4	7.2	8.0
18 and above	14.8	13.3	12.5	11.0	12.2
21 and above	16.1	14.4	13.5	11.9	13.1

Continuation of Table 30

Production	2017	2018	2019	2020	2021
	liters				
Per capita of total population	8.1	9.4	8.8	7.9	8.8
18 and above	12.5	14.5	13.8	12.4	13.8
21 and above	13.4	15.6	14.8	13.3	14.8

**Table 31. Safe drinking water production, by volume**

Production	2012	2013	2014	2015	2016
	Thousand liters				
Fresh and mineral water	33 203.6	38 300.0	50 188.6	58 224.0	59 104.7

Continuation of Table 31

Production	2017	2018	2019	2020	2021
	Thousand liters				
Fresh and mineral water	60 682.0	73 740.3	98 640.5	74 605.7	98 361.7

**Tables 32. Number of workers, by sector**

Description	2012	2013	2014	2015	2016
	Thousand people				
Total	1 056.4	1 103.6	1 110.7	1 151.2	1 147.8
Agriculture, forestry, fishing, hunting	370.0	329.1	310.7	327.6	348.5
Mining and extraction	46.7	50.3	40.9	42.6	38.2
Processing industry	64.9	81.0	85.5	81.3	86.1
Electricity, gas, steam and ventilation supply	14.5	13.8	15.5	15.6	16.2
Water supply, wastewater treatment and waste management	6.7	7.9	7.1	5.9	6.0
Construction	59.2	72.4	81.1	88.1	71.5
Wholesale and retail trade, repair of machinery and motorcycles	131.3	156.0	170.2	178.2	172.7
Transportation and storage service	56.1	65.9	69.8	72.7	65.9
Accommodation and food service	30.2	31.7	36.6	37.8	32.1
Information and communication service	14.7	16.7	17.8	16.0	18.1
Financial and insurance service	17.4	20.9	22.9	23.8	21.9
Real estate industry	1.2	0.8	1.1	1.0	0.8
Professional scientific and technical service	11.3	13.6	12.5	14.1	12.7
Administration and supportive service	13.3	15.0	12.0	16.0	15.0
Public administration and defense activities and social security service	62.9	65.3	66.1	68.1	74.2
Education	86.3	89.8	89.6	89.1	95.0
Health and social activities	37.5	40.4	37.5	38.2	41.0
Arts, entertainment and festivals	7.4	9.2	10.6	12.3	10.1
Other service activities	19.8	20.2	20.1	20.2	19.8
Household activities that employ people	1.3	1.4	1.4	1.0	1.1
Others	3.7	2.2	1.6	1.7	1.1

Continuation of Table 32.

Description	2017	2018	2019	2020	2021
	Thousand people				
Total	1 238.3	1 253.0	1 146.2	1 162.9	1 125.6
Agriculture, forestry, fishing, hunting	356.4	334.1	290.2	276.5	291.7
Mining and extraction	52.0	57.7	57.9	51.5	56.0
Processing industry	93.1	100.8	90.4	89.7	84.6
Electricity, gas, steam and ventilation supply	17.5	16.3	19.3	14.4	18.5
Water supply, wastewater treatment and waste management	4.9	6.9	10.8	8.3	7.7
Construction	70.6	76.6	68.8	77.3	82.2
Wholesale and retail trade, repair of machinery and motorcycles	204.5	211.2	160.4	166.6	149.2
Transportation and storage service	72.7	73.6	61.1	66.6	57.9
Accommodation and food service	36.4	37.5	36.3	30.0	37.6
Information and communication service	14.5	14.1	13.0	18.8	15.9
Financial and insurance service	24.1	25.7	24.3	29.3	26.7
Real estate industry	0.4	0.8	1.2	3.4	2.0
Professional scientific and technical service	12.7	14.6	18.0	11.6	11.9
Administration and supportive service	20.8	18.2	20.2	18.1	17.7
Public administration and defense activities and social security service	82.2	76.2	86.0	83.4	85.6
Education	98.9	98.7	96.1	110.7	99.1
Health and social activities	40.0	49.5	44.4	60.2	46.8
Arts, entertainment and festivals	10.1	13.8	18.0	10.8	7.8
Other service activities	22.7	23.4	24.5	29.8	24.3
Household activities that employ people	2.3	1.2	3.3	3.3	2.1
Others	1.5	2.3	2.0	2.6	0.4