

AGRICULTURAL HOLDINGS

LAND

IRRIGATION

MACHINERY

LIVESTOCK FUND

LABOUR FORCE

FARM STRUCTURE SURVEY

FSS 2018



Belgrade, 2019

List of Abbreviations

UAA - Utilized Agricultural Area

AWU - Annual Working Unit

LSU - Livestock Unit

FARM STRUCTURE SURVEY, 2018



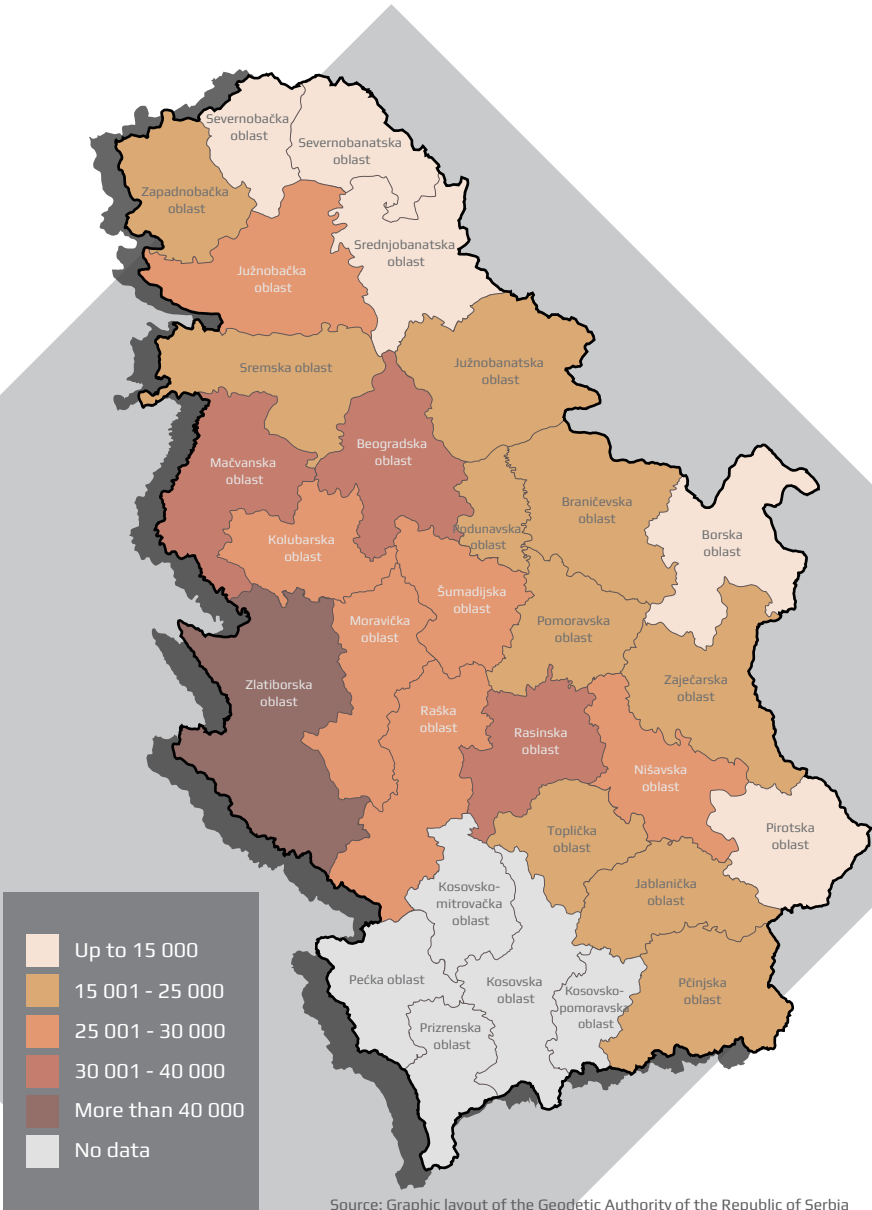
Number of agricultural holdings by areas *

| | | | |
|--------------------------------------|--------|--------------------|--------|
| Beogradska oblast (City of Belgrade) | 30 033 | Rasinska oblast | 31 865 |
| Zapadnobačka oblast | 16 859 | Raška oblast | 26 505 |
| Južnobañatska oblast | 23 189 | Šumadijska oblast | 25 502 |
| Južnobačka oblast | 26 297 | Borska oblast | 11 285 |
| Severnobanatska oblast | 12 621 | Braničevska oblast | 22 985 |
| Severnobačka oblast | 10 245 | Zaječarska oblast | 15 286 |
| Srednjobanatska oblast | 14 739 | Jablanička oblast | 24 381 |
| Sremska oblast | 23 121 | Nišavska oblast | 27 496 |
| Zlatiborska oblast | 43 829 | Pirotska oblast | 8 686 |
| Kolubarska oblast | 25 058 | Podunavska oblast | 17 509 |
| Mačvanska oblast | 39 808 | Pčinjska oblast | 22 291 |
| Moravička oblast | 28 078 | Toplička oblast | 14 885 |
| Pomoravska oblast | 21 992 | | |

* No data for AP Kosovo i Metohija

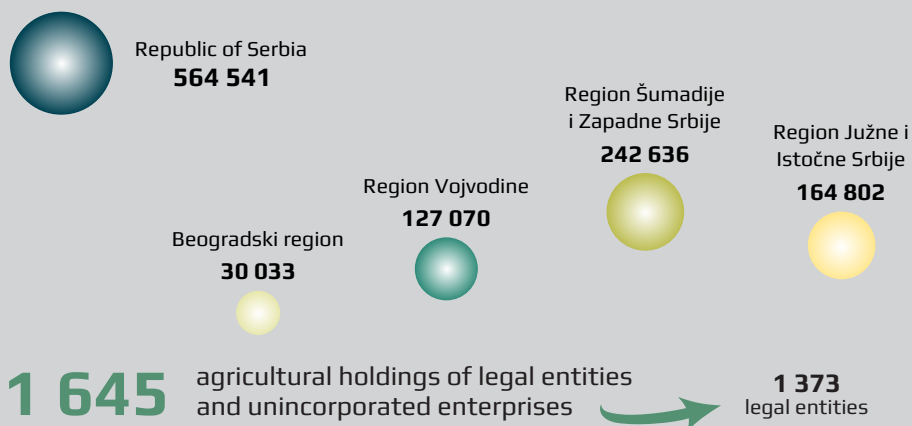
1 AGRICULTURAL HOLDINGS

Share of agricultural holdings by areas



Source: Graphic layout of the Geodetic Authority of the Republic of Serbia

Number of agricultural holdings by regions



AGRICULTURAL HOLDINGS

2



564 541
NUMBER OF HOLDINGS



562 896
family holdings



UAA

3 475 894 ha



BOVINE ANIMALS

881 152



PIGS

3 266 102



SHEEP

1 799 814



GOATS

218 397



POULTRY

23 184 387



BEE HIVES

914 134



TRACTORS

451 983

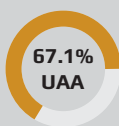


AGRICULTURAL
LABOUR FORCE

1 336 940 individuals
AWU - 645 733

Republic
of Serbia

5 178 692 ha
available land of
agricultural holdings



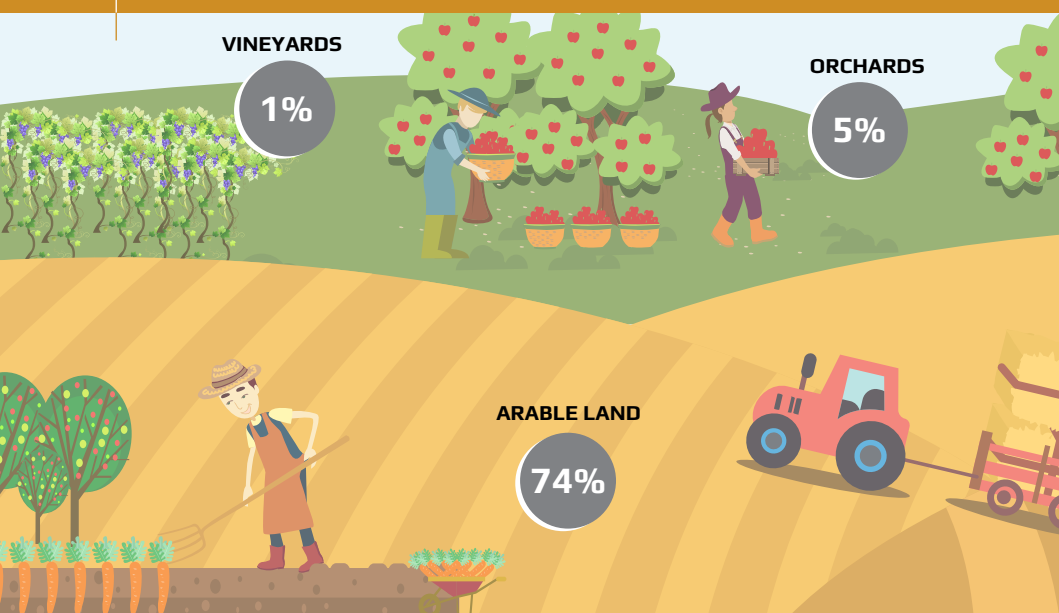
used by family holdings



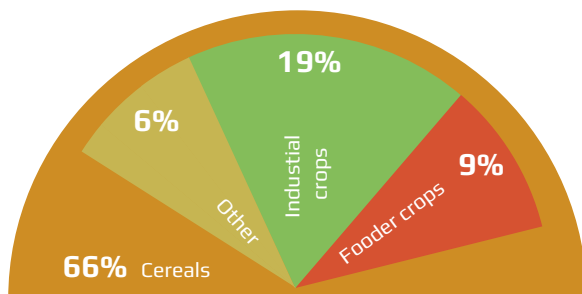
Largest UAA
1 574 366 ha

Average per holding
12.71 ha

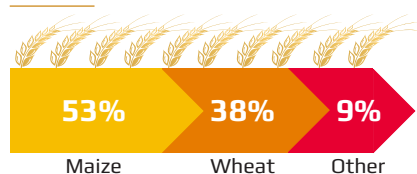
3 LAND



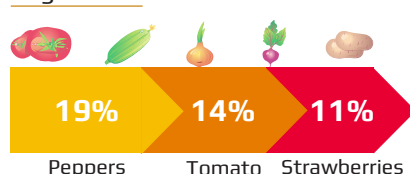
Arable land



Cereals



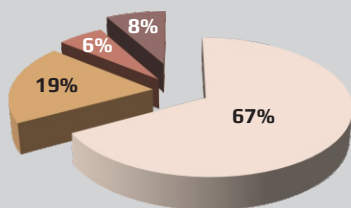
Vegetables



8%

Share of areas
under green or other protective cover
in the total area under vegetables

Available

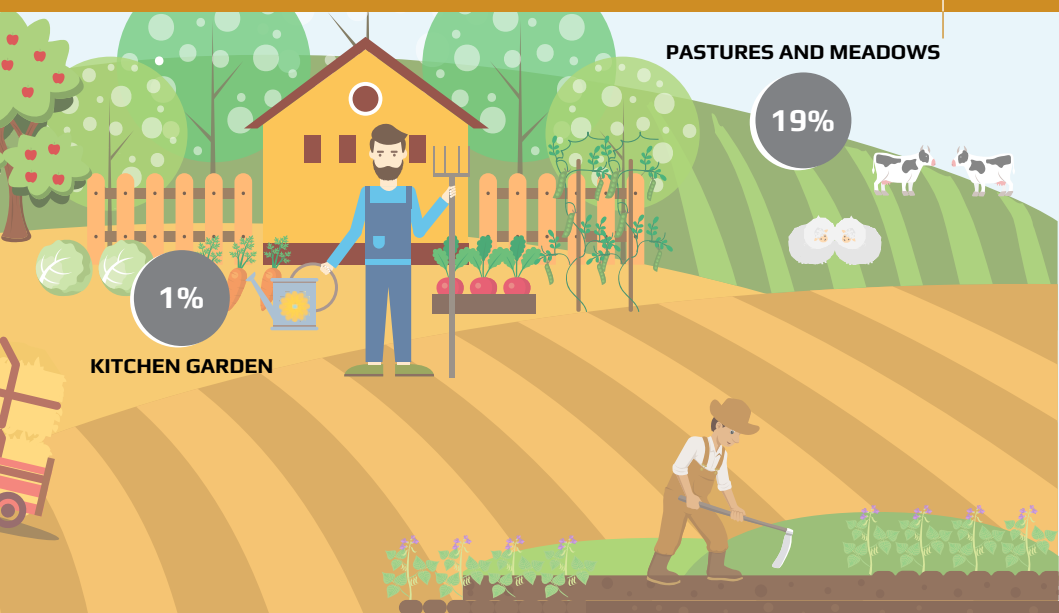


- UAA
- Wooded area
- Unutilised agricultural land
- Other land

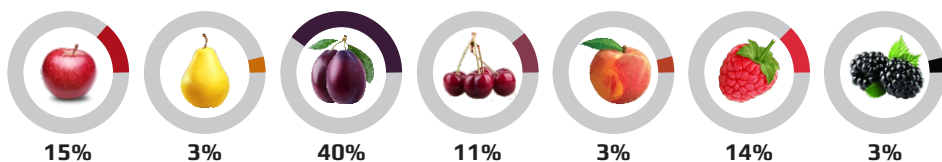
UAA

| | |
|------------------------|-----------|
| Kitchen garden | 22 126 |
| Arable land | 2 571 580 |
| Pastures and meadows | 676 724 |
| Orchards and vineyards | 203 389 |
| Other plantations | 2 075 |

LAND 4



Orchards - structure of fruit and berry plantations



5 biggest raspberry producers

(by municipalities, area in ha)



Vineyards

- Grape varieties for wines with geographic origin
- Grape varieties for white wines
- Table grapes
- Grape varieties for red/rose wines



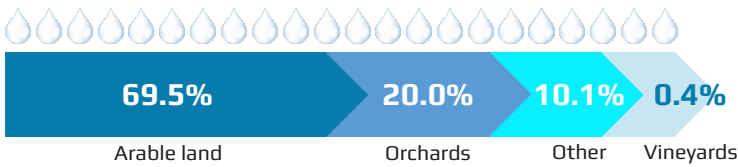
In 2017/2018 **33%** of all holdings irrigated **4.6% of UAA**

Most irrigated are **vegetables, melons and strawberries**



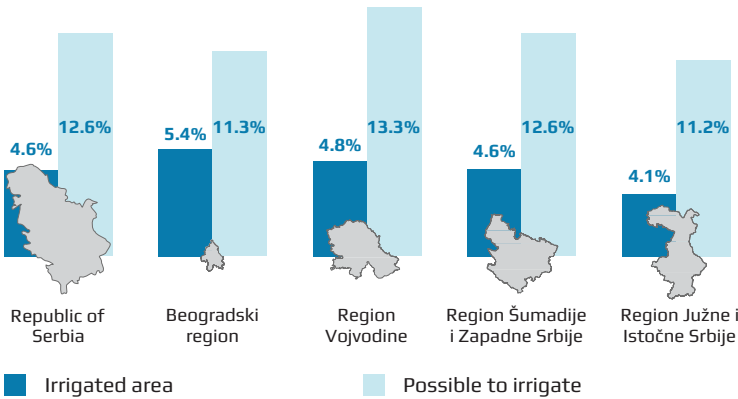
5 IRRIGATION

Structure of irrigated areas by land categories

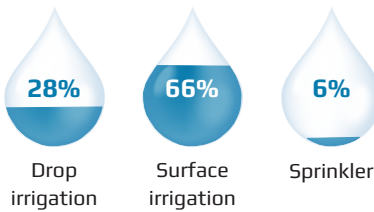


Share of irrigated and possibly irrigated area in UAA

(by regions)

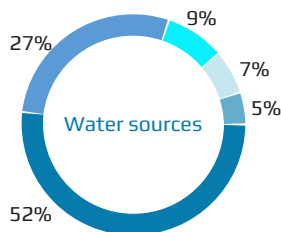


Irrigation methods



Main irrigation water sources

- Ground waters at holding
- Surface waters outside holding
- Surface waters at holding
- Water from public waterworks
- Other sources



Agricultural holdings use

| | |
|---------|-------------------------|
| 170 518 | tractors with one axle |
| 451 983 | tractors with two axles |
| 62 925 | combine harvesters |

One tractor, on an average, cultivates **7.7 ha** of UAA

4.3 LSU per one tractor

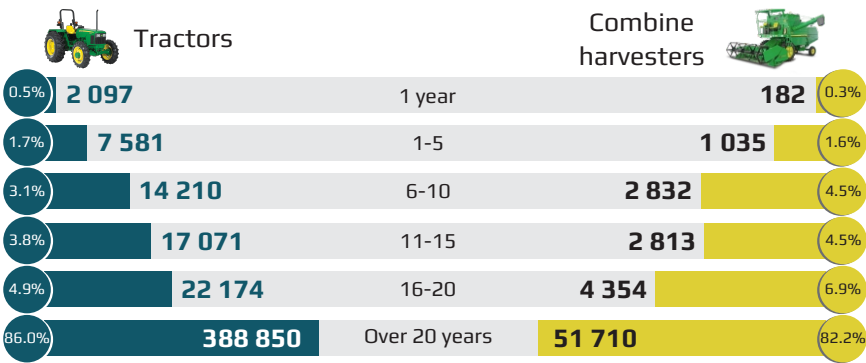


of tractors
are more than 20 years old

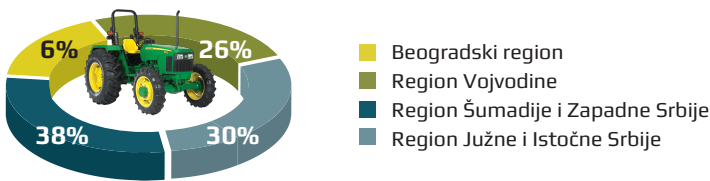
8 out of 10 holdings use their own tractor



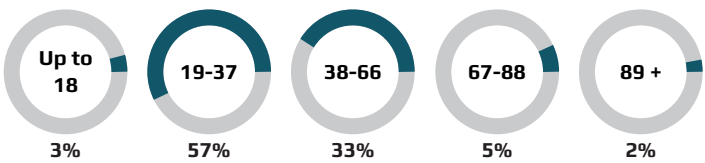
Tractors and combine harvesters by their age



Distribution of tractors by regions



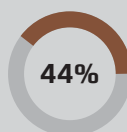
Structure of tractors with two axles per their power **kW**



77% holdings breed livestock



192 686 holdings
have biggest breeding of livestock



Sremska Mitrovica



has biggest
number of LSU
50 894

Most common herd size



1-2 bovines



1-2 pigs

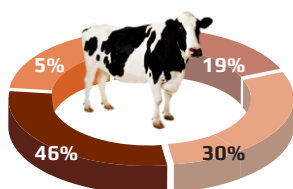


3-9 sheep

7

LIVESTOCK FUND

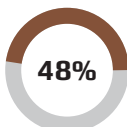
Number of livestock by regions



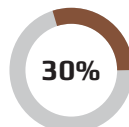
- Beogradski region
- Region Vojvodine
- Region Šumadije i Zapadne Srbije
- Region Južne i Istočne Srbije



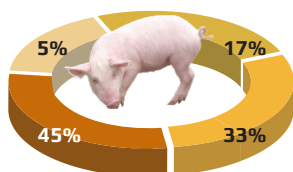
Dairy cows
424 155 heads



Bovine up to
1 year old
262 528 heads



Number of pigs by regions



- Beogradski region
- Region Vojvodine
- Region Šumadije i Zapadne Srbije
- Region Južne i Istočne Srbije



51%
Fattening pigs



88% of holdings with poultry breed **1-49 heads of poultry**



Biggest poultry breeding

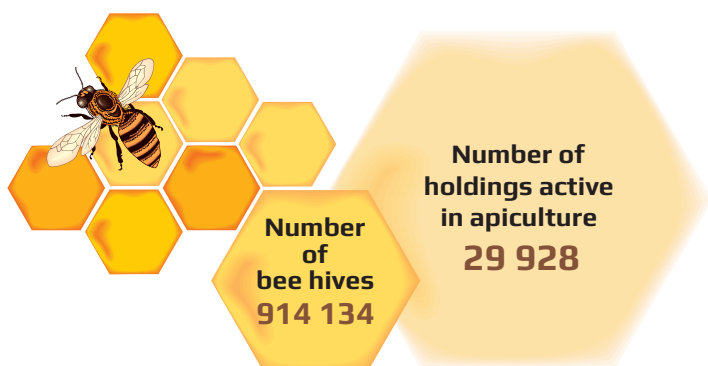


Largest number of bee hives

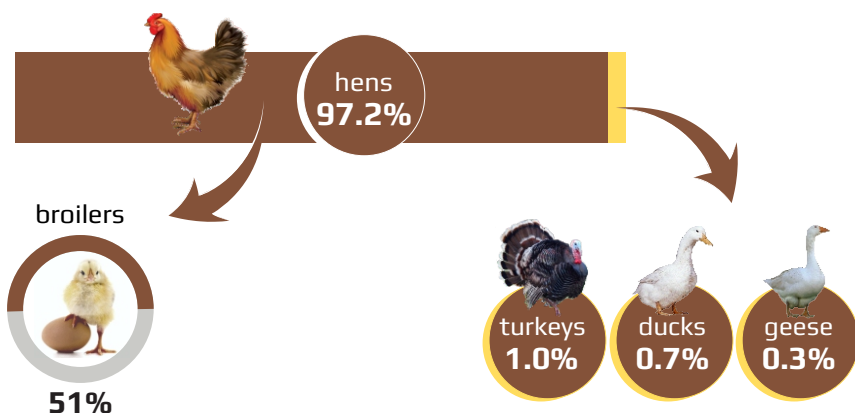
377 026

LIVESTOCK FUND

8



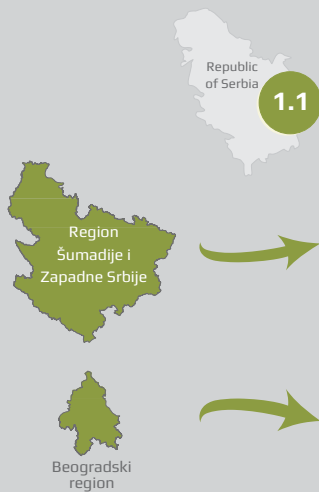
Structure of poultry by species



9 million
of laying
hens produce



1 796 million
eggs
per year



1.1

Average number of AWU per holding

Region with largest number of persons carrying out agricultural activities only on family holdings

503 561 persons

Region with smallest number of persons carrying out agricultural activities only on family holdings

66 054 persons

9

LABOUR FORCE

Permanently employed at family holdings

1 263 persons
AWU 1 018

Share of women **16%**

Members of family holdings

1 317 330 persons
AWU 591 770

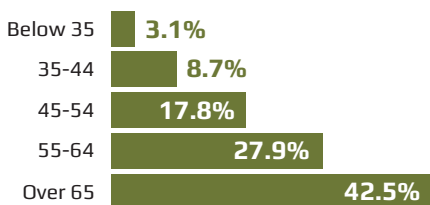
Share of women **59%**

Holders - **559 296 persons**

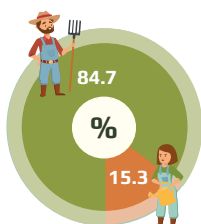
AWU 276 983

Share of women **19%**

Age structure of holders of family holdings



Holding managers - share of women



Most of agricultural holdings have **1-2 members**

65%



Region
Sumadije i
Zapadne Srbije

Largest number of young holders
(up to 40 years of age)

8 730

39%

Out of total number of agricultural holdings,
other gainful activities were conducted

12%

Biggest share of agricultural holdings
that conducted other gainful activities

18%

LABOUR FORCE

10

Seasonal labour
force at agricultural
holdings

AWU 36 617

Share of women **36%**

Permanently employed
on the holdings
of legal persons

18 347 persons
AWU 16 329

Share of women **23%**

Education of manager

48.6%

Experience
through practice

45.2%

Secondary
school

6.0%

Tertiary
education

0.2%

Training courses
in domain of
agriculture

Distribution of holdings by conducting other gainful activities



33.4%

Fruit and vegetables
processing



8.0%

Meat
processing



39.3%

Milk
processing



0.3%

Tourism



7.0%

Forestry
activities

From 1 October to 30 November 2018, the Statistical Office of the Republic of Serbia conducted Farm Structure Survey, 2018. The funds for the implementation of this survey were provided from the EU pre-accession funds and from the national budget.

The applied methodology is in line with the Eurostat methodology and the relevant EU Regulations.

The Survey was conducted on the sample that included 120 000 holdings.

The applied methods for the collection of data were CAPI for the family holdings and CAWI for the agricultural holdings with the status of legal entity.

11 | METHODOLOGICAL EXPLANATIONS

Agricultural holding is technically and economically independent production unit that has single management and at which a company, agricultural cooperative, institution or other legal entity, unincorporated enterprise or family agricultural holding conduct agricultural production as their primary or the secondary activity.

Location of holding is the place where the overall agricultural production or its main part take place. This is usually the place where located are agricultural facilities/buildings intended for agricultural production (e.g. facilities for the keeping livestock, greenhouse, cold-storage for keeping agricultural products, the main agricultural building, etc.) or the biggest surface of the utilized agricultural area.

The data collected by the Survey are shown according to the location of the holding.

Holder of family holding is the person (natural person) who is economically and legally responsible for the operations of the holding and in whose name the given holding functions, that is, the person who takes the risks of the operations.

Administrator or manager at holding is the person responsible for the daily decision-making and implementation of the production and financial decisions in connection with the holding.

Utilized agricultural area includes: agricultural area of the kitchen garden, arable land (including fallow lands), permanent crops – orchards, vineyards, nurseries and pastures and meadows which the holding uses regularly.

Annual Work Unit (AWU) is the unit of measure that represents the quantity of human work used for conducting agricultural activity at each holding. This unit represents an equivalent of the work of one person, i.e. full-time employment in one year: eight hours a day, 225 working days.

Survey's Reference period refers to:

- a) Date of the critical moment (30 September 2018), for the data on the available land and the number of livestock;
- b) Agricultural year, that is, the last 12 months from the date of the critical moment, for the data on the utilization of agricultural area, used machinery, applied agro-technical methods in agriculture and labour force.

The methodological instructions are found on the SORS website:

www.stat.gov.rs

www.stat.gov.rs



<http://data.stat.gov.rs/?caller=130002&languageCode=en-US>

- └─ Agriculture, forestry and fishery
 - └─ Census of Agriculture/agricultural census
 - └─ Farm structure 2018
 - └─ Key farm variables



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