

MINISTRY OF AGRICULTURE AND FOOD

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FARM ACCOUNTANCY DATE NETWORK



2021
Source: EC, FADN

RESULTS AND ANALYSIS

ABBREVIATIONS AND SIGNS

FADN Farm accountancy data network

MAF Ministry of Agriculture, and Food

ES European Union

EC European Commission

CAP Common Agricultural Policy

TO Total output

NAV Net added value

NI Net income

AWU Annual work unit

UAA Utilized Agricultural Area

SO Standard Output

NW North-West Region

NC North-Central Region

NE North-East Region

SW South-West Region

SC South-Central Region

SE South-East Region

OGA Other Gainful Activities

SAPS Single Area Payment Scheme

VAT Value added tax

ha hectare

levs levs

No. number

LU Livestock unit

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Table 1 Average results of the holdings, distributed by region - $FADN'2021\,$

| Variables | Maacura | Bulgaria | | | Regio | n | | |
|--|--------------|------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------------|
| Variables | Measure | Биідагіа | NW | NC | NE | sw | SC | SE |
| Holding represented | number | 57 482 | 7 760 | 8 250 | 7 182 | 9 888 | 9 430 | 14 972 |
| Utilised agricultural area | ha | 76.78 | 104.23 | 109.72 | 126.87 | 87.23 | 40.23 | 36.5 |
| of which rented | ha | 66.37 | 88.19 | 96.13 | 106.73 | 75.49 | 37.88 | 31.2 |
| Area with: | | | | | | | | |
| cereals | ha | 38.62 | 63.71 | 65.56 | 75.5 | 37.55 | 9.87 | 11.9 |
| other field crops | ha | 20.75 | 26.19 | 34.12 | 34.80 | 29.09 | 4.92 | 8.30 |
| vegetables and flowers | ha | 0.5 | 0.33 | 0.48 | 0.8 | 0.37 | 0.17 | 0.73 |
| permanent crops | ha | 1.70 | 1.84 | 1.52 | 1.06 | 2.87 | 0.93 | 1.73 |
| forage crops | ha | 11.43 | 9.4 | 6.27 | 12.88 | 12.81 | 13.8 | 12.2 |
| Livestock | | | | | | | | |
| total livestock units | LU | 24.5 | 32.5 | 31.4 | 18.0 | 31.9 | 15.9 | 20. |
| cattle and buffalo | LU | 9.6 | 8.0 | 8.6 | 7.9 | 13.0 | 8.3 | 10. |
| of which dairy cows | LU | 4.5 | 4.4 | 4.9 | 4.5 | 6.1 | 3.0 | 4.: |
| sheep and goats | LU | 4.1 | 2.7 | 2.9 | 3.7 | 5.9 | 5.0 | 3. |
| pigs | LU | 5.7 | 15.9 | 10.0 | 0.1 | 10.8 | 0.1 | 0. |
| poultry | LU | 5.0 | 5.9 | 9.8 | 6.3 | 2.2 | 1.9 | 5. |
| Labour input | | | | | | | | |
| labour input | AWU | 2.9 | 3.6 | 3.5 | 3.4 | 3.0 | 2.4 | 2. |
| of which unpaid labour | AWU | 1.2 | 1.3 | 0.9 | 1.3 | 1.1 | 1.6 | 1.3 |
| Economic results | _ | *** | | | | | | |
| Total output | levs | 208 406 | 307 786 | 363 755 | 328 707 | 221 091 | 70 792 | 91 88 |
| from crops&crop production | levs | 162 107 | 248 301 | 283 232 | 288 032 | 162 299 | 47 444 | 62 36 |
| from livestock&livestock products | levs | 44 537 | 58 918 | 79 228 | 37 917 | 54 301 | 22 513 | 28 57 |
| other output | levs | 1 762 | 567 | 1 295 | 2 758 | 4 491 | 835 | 94 |
| Total intermediate consumption | levs | 96 335 | 130 110 | 148 866 | 141 514 | 105 148 | 40 927 | 57 29 |
| specific crop cost | levs | 35 036 | 52 259 | 51 120 | 63 849 | 36 454 | 12 607 | 16 60 |
| specific livestock cost | levs | 27 429 | 34 874 | 50 493 | 21 203 | 31 703 | 13 161 | 20 01 |
| specific costs for other gainful activities | levs | 1 138 | 59 | 3 342 | 1 054 | 1 799 | 767 | 31 |
| other cost | levs | 32 732 | 42 918 | 43 911 | 55 408 50 051 | 35 192 52 408 | 14 392 | 20 35 |
| Balance of current subsidies & taxes subsidies | levs | 45 114 44 242 | 56 996 53 253 | 52 562 52 893 | 59 051 57 520 | 52 498 52 447 | 30 207 30 117 | 32 67 31 91 |
| | levs | 1 629 | 4 561 | 933 | 2 695 | 698 | 450 | 1 34 |
| VAT balance excluding on investments taxes and fares | levs levs | 757 | 818 | 1 264 | 1 164 | 647 | 360 | 57 |
| Gross farm income | levs | 157 185 | 234 672 | 267 451 | 246 244 | 168 441 | 60 072 | 67 26 9 |
| Depreciation | levs | 21 693 | 27 840 | 30 864 | 35 370 | 24 091 | 10 332 | 12 46 |
| Net value added | levs | 135 492 | 206 832 | 236 587 | 210 874 | 144 350 | 49 740 | 54 80 |
| Total external factors | | 60 712 | 98 052 | 110 687 | 99 664 | 59 804 | 16 992 | 23 27 |
| wages & social security | levs | 23 708 | 35 122 | 39 053 | 31 792 | 27 448 | 8 578 | 12 51 |
| rent | levs | 34 985 | 60 718 | 68 761 | 64 033 | 29 490 | 7 401 | 10 10: |
| interest | levs | 2 019 | 2 212 | 2 873 | 3 839 | 2 866 | 1 013 | 65 |
| Balance subsidies&taxes on investment | levs | 338 | 315 | 252 | 243 | 291 | 133 | 60 |
| subsidies on investments | levs | 246 | 51 | 241 | 80 | 246 | 33 | 56 |
| VAT balance on investments | levs | 92 | 264 | 11 | 163 | 45 | 100 | 3 |
| Net income | levs | 75 118 | 109 095 | 126 152 | 111 453 | 84 837 | 32 881 | 32 13 |
| Balance sheet (closing valution) | | | | | | | | |
| Total fixed assets | levs | 241 144 | 333 773 | 327 348 | 412 343 | 278 895 | 110 127 | 121 10 |
| land & permanent crops | levs | 92 425 | 133 204 | 128 639 | 180 757 | 116 069 | 21 023 | 38 31 |
| buildings | levs | 46 012 | 55 554 | 66 890 | 68 823 | 44 962 | 31 682 | 28 34 |
| machinery | levs | 76 161 | 111 723 | 99 206 | 139 134 | 84 786 | 38 171 | 33 05: |
| Total current assets | levs | 150 714 | 210 368 | 225 398 | 251 860 | 154 717 | 34 363 | 100 75 |
| Liabilities | levs | 89 421 | 97 708 | 101 430 | 204 043 | 106 014 | 40 495 | 43 38 |
| long term loans | levs | 44 158 | 46 523 | 60 074 | 88 799 | 60 000 | 16 888 | 19 46 |
| short term loans | levs | 45 263 | 51 185 | 41 356 | 115 244 | 46 014 | 23 607 | 23 92 |
| Indicators | | | | | | | | |
| Net value added / AWU | levs/AWU | 46 235 | 57 507 | 67 833 | 62 120 | 47 744 | 21 199 | 23 20 |
| Net income of AWU | levs/AWU | 25 638 | 30 304 | 36 147 | 32 877 | 28 092 | 13 992 | 13 61 |
| Total direct payments | levs | 34 097 | 41 023 | 42 171 | 48 025 | 40 426 | 20 544 | 23 73 |
| Single area payment | levs | 15 940 | 20 325 | 21 512 | 24 273 | 18 535 | 7 287 | 10 33 |
| Single area payment | | | | | | | | -000 |
| Environmental subsidies | levs | 4 872 | 7 422 | 6 145 | 3 788 | 6 362 | 2 955 | 3 59: |

Table 2. Average results of holding, distributed by 6 groups of economic size - FADN'2021

| | Measure | | | | Economic siz | e (in euros) | | |
|--|--------------|------------------|-------------------------|--------------------------|--------------------|----------------------------|----------------------|----------------------|
| Variables | | Bulgaria | from 4 to 8 thousand | from 8 to 25 thousand | thousand | from 50 to 100 thousand | 500 thousand | over 500 thousand |
| | | 104 | euros | euros | euros | euros | euros | euro |
| Holding represented | number | 57 482 | 16 258 | 21 618 | 7 973 | 5 151 | 4 846 | 1 63 |
| Utilised agricultural area | ha | 76.78 66.37 | 4.51 2.80 | 16.41 13.53 | 38.35 35.08 | 68.71 60.63 | 256.96 235.28 | 1 271.7 |
| of which rented Area with: | ha | 00.37 | 2.80 | 13.55 | 33.08 | 00.03 | 233.28 | 1 066.6 |
| cereals | ha | 38.62 | 0.81 | 3.44 | 8.59 | 24.31 | 134.56 | 786.6 |
| other field crops | ha | 20.75 | 0.47 | 2.46 | 5.91 | 14.06 | 74.91 | 396.9 |
| vegetables and flowers | ha | 0.50 | 0.18 | 0.25 | 0.46 | 0.38 | 1.30 | 5.0 |
| permanent crops | ha | 1.70 | 0.60 | 0.89 | 1.25 | 2.91 | 4.95 | 11.9 |
| forage crops | ha | 11.43 | 2.16 | 7.10 | 14.91 | 22.71 | 31.26 | 49.5 |
| Livestock | | | | | | | | |
| total livestock units | LU | 24.5 | 3.2 | 8.7 | 20.3 | 30.4 | 46.6 | 381 |
| cattle and buffalo | LU | 9.6 | 1.4 | 4.1 | 11.7 | 24.2 | 28.0 | 51 |
| of which dairy cows | LU | 4.5 | 0.4 | 0.9 | 3.8 | 12.2 | 18.5 | 31 |
| sheep and goats | LU | 4.1 | 1.6 | 4.4 | 7.8 | 5.5 | 4.5 | 1. |
| pigs | LU | 5.7 | 0.0 | 0.0 | 0.1 | 0.0 | 3.3 | 188 |
| poultry | LU | 5.0 | 0.0 | 0.1 | 0.3 | 0.6 | 10.4 | 139 |
| Labour input | | | | | | | | |
| labour input | AWU | 2.9 | 1.5 | 1.7 | 2.2 | 3.4 | 6.3 | 25 |
| of which unpaid labour | AWU | 1.2 | 1.3 | 1.3 | 1.4 | 1.1 | 0.7 | 0 |
| Economic results | | | | | | | | |
| Total output | levs | 208 406 | 15 420 | 34 577 | 72 496 | 159 887 | | 3 962 68 |
| from crops&crop production | levs | 162 107 | 9 697 | 22 429 | 46 085 | 114 870 | 527 735 | |
| from livestock&livestock products | levs | 44 537 | 5 432 | 12 052 | 26 239 | 43 746 | 100 808 | 787 45 |
| other output | levs | 1 762 | 291 | 96 | 172 | 1 271 | 10 499 | 21 83 |
| Total intermediate consumption | levs | 96 335 | 7 502 | 16 227 | 37 217 | 83 120 | | 1 774 27 |
| specific crop cost | levs | 35 036 | 1 556 | 3 945 | 9 775 | 24 065 | 123 846 | 673 12 |
| specific livestock cost | levs | 27 429 | 2 586 | 5 873 | 14 170 | 28 223 | 61 342 | 520 80 |
| specific costs for other gainful activities other cost | levs levs | 1 138 32 732 | 88 3 272 | 106 6 303 | 27 13 245 | 1 328 29 504 | 9 126 102 258 | 6 3° 573 90 |
| Balance of current subsidies & taxes | levs | 45 114 | 6 740 | 17 720 | 38 181 | 49 861 | 102 238 | 562 20 |
| subsidies | levs | 44 242 | 5 694 | 15 721 | 36 241 | 49 120 | 127 633 | 574 27 |
| VAT balance excluding on investments | levs | 1 629 | 1 128 | 2 189 | 2 441 | 1 756 | 254 | 314 21 |
| taxes and fares | levs | 757 | 82 | 190 | 501 | 1 015 | 1 909 | 12 01 |
| Gross farm income | levs | 157 185 | 14 658 | 36 070 | 73 460 | 126 628 | | 2 750 68 |
| Depreciation | levs | 21 693 | 1 149 | 3 244 | 7 020 | 18 525 | 79 065 | 381 19 |
| Net value added | levs | 135 492 | 13 509 | 32 826 | 66 440 | 108 103 | | 2 369 49 |
| Total external factors | levs | 60 712 | 2 277 | 7 233 | 18 271 | 47 553 | | 1 182 14 |
| wages & social security | levs | 23 708 | 1 579 | 3 442 | 8 482 | 23 624 | 75 936 | 431 17 |
| rent | levs | 34 985 | 688 | 3 640 | 9 284 | 21 175 | 117 696 | 713 71 |
| interest | levs | 2 019 | 10 | 151 | 505 | 2 754 | 6 914 | 37 25 |
| Balance subsidies&taxes on investment | levs | 338 | 31 | 115 | 184 | 454 | 947 | 4 88 |
| subsidies on investments | levs | 246 | 0 | 0 | 2 | 385 | 919 | 4 72 |
| VAT balance on investments | levs | 92 | 31 | 115 | 182 | 69 | 28 | 15 |
| Net income | levs | 75 118 | 11 263 | 25 708 | 48 353 | 61 004 | 191 645 | 1 192 23 |
| Balance sheet (closing valution) | | | | | | | | |
| Total fixed assets | levs | 241 144 | 24 698 | 51 367 | 107 862 | 288 852 | 616 685 | |
| land & permanent crops | levs | 92 425 | 14 072 | 20 872 | 32 721 | 99 032 | | 1 742 32 |
| buildings | levs | 46 012 | 3 223 | 8 433 | 18 940 | 71 602 | 111 052 | 826 5 |
| machinery | levs | 76 161 | 3 022 | 10 362 | 28 298 | 69 505 | | 1 416 3 |
| Total current assets | levs | 150 714 | 19 718 | 28 336 | 62 052 | 100 712 | | 2 955 45 |
| Liabilities | levs | 89 421 | 115 | 8 952 | 21 467 | 121 303 | | 1 854 29 |
| long term loans | levs | 44 158 | 92 | 5 576 | 14 555 | 56 108 | 118 169 | 879 32 |
| short term loans | levs | 45 263 | 23 | 3 376 | 6 912 | 65 195 | 111 943 | 974 97 |
| Indicators | love/ANT | 46 225 | 0.175 | 10.470 | 29 790 | 22 102 | 61 707 | 01.6 |
| Net value added / AWU | levs/AWU | 46 235 | 9 175 | 19 478 | | 32 192 | 61 737 | 91 60 |
| Net income of AWU Total direct payments | levs/AWU | 25 638 34 097 | 7 662 3 739 | 15 212 11 303 | 21 683 27 102 | 18 156 37 899 | 30 228 107 162 | 46 12 442 71 |
| | levs levs | 34 097 15 940 | 1 023 | 3 679 | 10 542 | 3 / 899 14 432 | 53 010 | 247 40 |
| Single area payment Environmental subsidies | levs | 4 872 | 243 | 1 346 | 4 661 | 5 144 | 9 752 | 83 21 |
| LIIVII OHIIICHAI SUUSIUICS | ievs | +0/4 | 243 | 1 340 | 4 001 | 3 144 | 9 132 | 03 21 |

Source: EU, Farm Accountancy Data Network '2021 - April 2024

FUNCTIONING OF THE FADN

About 80 000 agricultural holdings from the EU participate in the FADN.

The Farm Accountancy Data Network was established in EU in 1965 by the Regulation 79/65/EC which was repealed by the Regulation (EC) № 1217/2009 of the Council and subsequent amendments.

Each country designates a liaison body with the EC

The Agrostatistics Department at MAF was appointed as a Liaison Agency with the EC and is responsible for the establishment and functioning of FADN in Bulgaria. The Department defines the way of data collection, data control and individual data processing and publishes the final results in accordance with the requirements of the EU and the national needs..

The individual data of the holdings are confidential

The individual data of the agricultural holdings, included in FADN, are protected under the Statistics Law. They cannot be disclosed or used for tax or other purposes.

Additional information on FADN can be obtained at the following address of the European Commission: https://agridata.ec.europa.eu/

FIELD OF THE FADN SURVEY

57 482 holdings with an economic size of more than 4 000 euros form the field of observation of the FADN in 2021

When determining the scope of monitoring of the FADN, the Commission follows the guidelines set out in Regulation (EC) No. 1217/2009 of 30 November 2009 and subsequent amendments and adopts a pragmatic approach, including only those holdings that are considered market-oriented agricultural holdings. In view of the practice, to be qualified as market-oriented, the holding should exceed a minimum economic size. Due to the different economic structures on the territory of the European Union, a different threshold is set for each country. For Bulgaria, it is set to be over 4 000 euros. Thus, the field of observation of the FADN is a subset of the units surveyed in a census of agricultural holdings.

The results of the 2020 sample census of agricultural holdings in Bulgaria show that there are about 132 000 agricultural holdings in the country with an average area of 34.4 ha. The field of observation of FADN covers about 45% of holdings, but they form about 98% of the standard production and represent approximately 97% of the UAA and about 94% of the livestock units.

FADN SAMPLE

2 241 holdings participate in the FADN in 2021 To ensure that the sample adequately reflects holding differences, the field of observation is stratified. Stratification is a statistical technique used to increase sampling efficiency (i.e. to reduce the number of holdings needed to represent the diversity of agricultural holdings in the observation field). Three criteria for stratification are used in the FADN: FADN area, type of agriculture and economic size.

The representative sample of FADN for 2021 includes 2 241 agricultural holdings. Two months before the start of each reporting period, liaison bodies are required to draw up a selection plan in accordance with Commission Implementing Regulation (EU) No. 2015/220.

The participation of agricultural holdings in the system is voluntary. They are recruited until the number fixed in the sample is filled, observing the principles of stratification.

WEIGHING OF FADN DATA

FADN data are published as average results.

When calculating the results, a special weighting system is used. It is based on the principle of "free expansion": a weight (extrapolation factor) calculated for the holding applies to all holdings in the stratum. The individual weight is equal to the ratio between the number of farms of the same stratum (FADN region x type of agriculture x economic size) in the field of observation and in the sample.

PUBLIC DATE OF FADN

FADN has a public database for all EU member states FADN is an important monitoring instrument of the EU Common Agriculture Policy. The demand for data and specialized analysis for FADN increases constantly. The basic FADN analyses play an important role in the whole reform process of the CAP i.e. the evaluation of the CAP measures and the impact assessments of the policy proposals.

The standard results are weighted average statistics calculated on the basis of the submitted agricultural accounting reports, which are periodically published by the Commission. They are available in the public database and describe in detail the economic situation of holdings from different groups across the European Union. Through regular presentation of the standard results, the Commission realizes one of the two main objectives of the FADN - assessment of the income of agricultural holdings.

DEFINITIONS

Utilized agricultural area (UAA)

The UAA is the land, utilized by the holding, regardless of the owner. The UAA includes arable land, permanent crops, permanently grassland (pastures and meadows) and kitchen gardens, utilized by the observed holding only.

Standard Output (SO)

Standard output is a criterion that aims to reflect the trends in the economy so that the typology of holding can be applied in an adequate way.

It is calculated by products in accordance with the studied characteristics of the structure of agricultural holdings. Correspondence has been established between the above-mentioned characteristics and the positions of the agricultural statistical report.

SO reflects the average monetary value of agricultural production at producer price. SO does not include direct payments, value added tax and other taxes.

The typology of holdings is established in accordance with the requirements of Commission Implementing Regulation (EU) No. 2015/220. The typology of holdings allows to determine the type of agriculture and their economic size, using a unified method for classifying farms depending on the absolute and relative share of crops and animals grown by them, calculated in standard output.

When determining the typology of holdings, the following steps are taken:

Typology of the farms

- 1. Individual SO are calculated for all agricultural products (crop and livestock) as an average value of several years.
- The individual SO are applied to each holding's data (the area of each type of crop and the number of each category of animal reared on the holding), multiplied by their respective SO and summed to obtain the total SO of the holding in euros.

To determine the typology of farms participating in the FADN in 2021, coefficient of standard output'2017, calculated as weighted average values for the period 2015-2019, were used.

Type of agriculture

The farming type of the holding has 3 levels of detail - general, basic, specific. Holdings are grouped into eight general types: field crops, horticulture, wine, permanent crops, milk, grazing livestock, granivores, mixed.

The type of agriculture of the farm is determined by the relative share of the standard output of the different products of the farm in its total SO according to the classification scheme laid down in the Implementing Regulation (EU) No. 2015/220 and subsequent amendments.

| The economic size | The economic size of a holding is defined as the sum of SO of each product produced on the holding. Holdings are grouped into size classes (from I to XIV). |
|--|---|
| | The economic size of the holding is measured in euros and represents the total standard output (SO). It shows the potential of the holding, but not its financial results. The economic size allows the comparison of holdings with different specializations, because the physical size (average area, number of animals, etc.) does not carry enough information. |
| | In accordance with the Implementing Regulation (EU) No. 2015/220 of the Commission, Bulgaria is divided into 6 regions under the FADN: |
| Distribution of regions by statistical regions | Severozapaden (North-West Region) – Vidin, Vratsa, Montana, Lovech and Pleven; Severen tsentralen (North-Central Region) – Veliko Tarnovo, Gabrovo, Razgrad, Rousse and Silistra; Severoiztochen (North-East Region) – Varna, Dobrich, Targovishte and Shumen; Yugoiztochen (South-East Region) – Bourgas, Sliven, Yambol and Stara Zagora; Yugozapaden (South-West Region) – Blagoevgrad, Kyustendil, Pernik, Sofia (capital) and Sofia; |
| | - Yuzhen tsentralen (South-Central Region) – Kardzhali, Pazardzhik, Plovdiv, Smolyan and Haskovo. |
| Annual Work Unit (AWU) | One annual work unit is equal to the worked hours by one worker in full working time for one year. In Bulgaria it is accepted that 1 AWU equals 1 856 worked hours in the year or 232 man days. |
| Total output | crop output + livestock output+ other output. |
| Crop output | sales + farm use +farmhouse consumption and payments in kind + closing valuation - opening valuation. |
| Livestock output | sales of livestock production and animal products + farm use + farmhouse consummation and payments in kind + closing valuation – opening valuation + value of the animals at closing valuation – value of the animals at opening valuation –value of the purchased animals. |
| Other output | income of performed services + income of hiring out equipment + interest of bank accounts of the farm + income of agro-tourism + income of animal breading under contract + income of sell of long term fix assets, stocks and materials + income of non-agricultural area + other income. |
| Intermediate consumption | crop specific costs + livestock specific costs + other general costs. |
| Crop specific costs | costs for seeds (own op specific costs – costs for seeds (own and purchased) + costs for fertilizers + costs for crop protection products + other specific costs. |
| Livestock specific cost | costs for fodder (own and purchased) + other specific costs. |
| Other general costs | costs for maintenance of the buildings (incl. spear parts and services) + costs for electricity + costs for fuels + costs for water supply + costs for insurance + other costs. |
| Balance of current subsidies and taxes | Subsidies and taxes received and paid respectively in connection with the current activity. |
| Gross income | total output – intermediate consumption – costs for taxes and fees + income of subsidies for the current activity |
| Net added value | gross income – costs for depreciation. |
| Costs for land, work and capital | costs for salaries and social insurance + costs for rent of land + costs for interests. |
| Net income | net added value – costs for land, work and capital + income of subsidies for investments. |



