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MINISTRY OF AGRICULTURE AND FOOD

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FARM ACCOUNTANCY DATE NETWORK





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
ТО	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'2020

Variables	Measure	Bulgaria			Regio	11		
Variables	measure	Duigaria	NW	NC	NE	SW	SC	SI
Holding represented	number	56 964	7 502	8 244	6 932	9 888	9 426	14 9
Utilised agricultural area	ha	77.7	108.99	109	134.16	89.28	39.84	34.
of which rented	ha	67.10	92	95.66	112.63	77.77	37.3	29
Area with:								
cereals	ha	39.43	68.47	66.88	79.35	36.38	9.93	11
other field crops	ha	20.92	25.58	31.97	36.94	30.97	5.27	8
vegetables and flowers	ha	0.49	0.27	0.44	0.81	0.37	0.16	0
permanent crops	ha	1.70	1.74	1.37	1.08	3.20	1.07	1
forage crops	ha	11.66	9.76	6.42	13.05	13.05	15.94	11
Livestock				20.1	25.0			
total livestock units	LU	24.2	26.4	30.1	25.2	33.9	15.3	1
cattle and buffalo	LU	9.7	9.9	8.9	8.2	13.1	7.8	
of which dairy cows	LU	4.7	5.2	5.4	4.7	5.9	3.2	
sheep and goats	LU	4.1	3.0	3.4	4.1	5.6	4.8	
pigs	LU	4.5	6.9	8.0	0.1	12.5	0.1	
poultry	LU	5.7	6.5	9.7	12.8	2.7	1.9	
Labour input	A 3377 T	2.0	2.4	25	2.2	2.0	2.2	
labour input	AWU AWU	2.9 1.2	3.4 1.2	3.5 0.9	3.3 1.3	3.0 1.0	2.3 1.5	
of which unpaid labour Economic results	Awu	1.2	1.2	0.7	1.5	1.0	1.5	
	Lava	155 449	215 920	221 841	267 479	160 262	75 275	84
Total output	levs	155 449	172 132	147 935	231 478		47 678	55
from crops&crop production from livestock&livestock products	levs	40 962	40 119	68 078	32 930	96 585 58 809	47 678 26 656	27
	levs levs	40 962 2 930	40 119 3 669	5 828	32 930	4 868	20 030 941	27
other output Total intermediate consumption		2 930 89 063	120 532	131 745	128 095	4 808	⁹⁴¹ 39 384	51
-	levs levs	34 548	53 720	49 931	63 626	36 393	12 196	15
specific crop cost specific livestock cost	levs	23 829	25 867	49 951 39 953	18 676	36 206	12 190	15
specific costs for other gainful activities	levs	23 829	1 819	2 464	342	1 119	1 457	
other cost	levs	29 507	39 126	2 404 39 397	45 451	33 296	1437	19
Balance of current subsidies & taxes	levs	48 279	58 848	56 114	64 960	53 290 58 418	31 103	35
subsidies	levs	46 810	55 641	56 190	62 846	57 988	30 951	32
VAT balance excluding on investments	levs	2 154	4 154	937	3 139	997	50 551	32
taxes and fares	levs	685	947	1 013	1 025	567	425	5
Gross farm income	levs	114 665	154 236	146 210	204 344	111 666	66 994	67
Depreciation	levs	20 812	29 080	27 413	32 871	23 184	10 638	12
Net value added	levs	93 853	125 156	118 797	171 473	88 482	56 356	55
Total external factors	levs	52 758	83 890	90 569	90 909	52 889	16 380	21
wages & social security	levs	21 702	32 343	36 536	27 549	25 226	7 718	11
rent	levs	28 946	49 272	51 506	59 443	24 827	7 168	8
interest	levs	2 110	2 275	2 527	3 917	2 836	1 494	0
Balance subsidies&taxes on investment	levs	866	1 134	260	436	315	2 177	
subsidies on investments	levs	671	868	260	252	293	2 083	
VAT balance on investments	levs	195	266	0	184	22	94	
Net income	levs	41 961	42 400	28 488	81 000	35 908	42 153	34
Balance sheet (closing valution)								
Total fixed assets	levs	226 482	322 204	304 358	391 268	257 469	93 505	122
land & permanent crops	levs	88 895	139 067	115 427	179 822	110 323	21 684	35
buildings	levs	42 173	48 535	64 610	63 511	40 096	26 501	27
machinery	levs	69 840	104 532	91 410	123 098	76 587	26 929	38
Total current assets	levs	129 992	173 495	167 086	204 653	127 442	32 834	116
Liabilities	levs	84 729	100 008	106 020	182 106	97 420	25 328	49
long term loans	levs	40 047	43 558	58 203	78 521	51 250	8 122	23
short term loans	levs	44 682	56 450	47 817	103 585	46 170	17 206	26
Indicators								
Net value added / AWU	levs/AWU	32 295	36 489	33 973	52 402	29 150	24 554	22
Net income of AWU	levs/AWU	14 420	12 362	8 139	24 771	11 812	18 327	14
Total direct payments	levs	36 988	45 533	46 137	53 695	45 279	20 698	24
Single area payment	levs	17 639	22 683	23 186	27 909	19 996	7 686	12
Environmental subsidies	levs	3 831	4 185	4 946	3 446	5 615	2 564	2
LFA subsidies	levs	1 666	387	243	837	1 561	5 128	1

Source: EU, Farm Accountancy Data Network '2020 - May 2024

Table 2. Average results of holding, distributed by 6 groups of economic size - FADN'2020

			Economic size (in euros)							
Variables	Measure	Bulgaria	from 4 to 8 thousand euros	from 8 to 25 thousand euros	from 25 to 50 f thousand euros	rom 50 to 100	from 100 to 500 thousand euros	over 500 thousand euros		
Holding represented	number	56 964	15 768	21 618	7 629	5 495	4 820	1 634		
Utilised agricultural area	ha	77.70	5.74	14.90	37.18	69.87	262.23	1 273.97		
of which rented	ha	67.10	4.24	12.20	34.17	62.09	240.15	1 060.08		
Area with:										
cereals	ha	39.43	0.81	3.50	8.89	24.07	140.26	784.25		
other field crops	ha	20.92	0.51	2.47	5.22	14.67	76.79	391.48		
vegetables and flowers	ha	0.49	0.19	0.25	0.44	0.31	1.63	3.96		
permanent crops	ha	1.70	0.58	0.93	1.11	3.06	4.78	11.90		
forage crops Livestock	ha	11.66	2.14	6.95	17.17	21.22	29.97	53.80		
total livestock units	LU	24.2	3.2	8.1	19.8	29.5	52.0	360.3		
cattle and buffalo	LU	9.7	1.4	3.6	12.0	23.3	30.2	54.3		
of which dairy cows	LU	4.7	0.4	1.0	4.3	10.9	20.0	32.3		
sheep and goats	LU	4.1	1.6	4.4	7.2	5.3	5.4	3.2		
pigs	LU	4.5	0.0	0.0	0.2	0.0	3.5	145.5		
poultry	LU	5.7	0.1	0.1	0.2	0.8	12.6	157.3		
Labour input										
labour input	AWU	2.9	1.4	1.7	2.4	3.2	6.6	24.2		
of which unpaid labour	AWU	1.2	1.2	1.3	1.4	1.0	0.7	0.3		
Economic results	1	155 440	15.024	07 252	(2.0.42	125 002	402 584	A F (1.011		
+ Total output	levs	155 449	15 034	27 352	62 942	127 903		2 761 811		
from crops&crop production from livestock&livestock products	levs levs	111 557 40 962	10 110 4 625	16 734 10 528	38 830 24 059	83 174 43 241	379 312 91 764	1 990 206 715 667		
other output	levs	40 982 2 930	4 623 299	10 328	24 039 53	43 241 1 488	91 764 12 498	55 938		
- Total intermediate consumption	levs	89 063	7 227	14 023	33 290	74 451	288 064			
specific crop cost	levs	34 548	1 643	3 484	9 159	22 492	124 076	658 004		
specific livestock cost	levs	23 829	2 222	4 687	12 322	21 779	58 363	444 336		
specific costs for other gainful activities	levs	1 179	155	86	106	1 655	7 806	9 400		
other cost	levs	29 507	3 207	5 766	11 703	28 525	97 819	482 350		
+ Balance of current subsidies & taxes	levs	48 279	7 346	17 430	41 150	63 266	136 145	575 121		
subsidies	levs	46 810	5 867	14 968	37 982	61 659	137 872	585 856		
VAT balance excluding on investments	levs	2 155	1 561	2 621	3 695	2 210	248	0		
taxes and fares	levs	686	82	159	527	603	1 975	10 735		
= Gross farm income	levs	114 665	15 153	30 759	70 802	116 718		1 742 842		
- Depreciation	levs	20 812	1 304	3 161	6 994	16 855 99 863	73 836	363 972		
Net value addedTotal external factors	levs levs	93 853 52 758	13 849 2 400	27 598 6 527	63 808 16 673	99 863 44 807	257 819 182 249	1 378 870 963 562		
wages & social security	levs	21 702	1 582	3 080	8 064	21 660	72 601	903 502 375 885		
rent	levs	28 948	806	3 299	8 146	19 875	102 015	551 905		
interest	levs	2 108	12	148	463	3 272	7 633	35 772		
+ Balance subsidies&taxes on investment	levs	866	189	1 023	319	729	1 574	6 237		
subsidies on investments	levs	670	8	765	0	690	1 574	6 237		
VAT balance on investments	levs	196	181	258	319	39	0	0		
= Net income	levs	41 961	11 638	22 094	47 454	55 785	77 144	421 545		
Balance sheet (closing valution)										
Total fixed assets	levs	226 482	23 020	48 713	99 382	235 046		3 956 855		
land & permanent crops	levs	88 895	11 463	20 528	28 733	93 724		1 693 916		
buildings	levs	42 173 69 840	3 225	6 775 0 773	21 588	55 486	110 108	737 286		
machinery Total current assets	levs levs	69 840 129 992	3 921 14 131	9 773 20 909	23 970 89 298	46 648 141 692	252 799 340 430	1 253 060 2 221 118		
Liabilities	levs	84 729	620	20 909 5 662	12 922	76 974		2 221 118 1 749 557		
long term loans	levs	40 047	475	4 348	7 905	30 776	128 283	815 168		
short term loans	levs	44 682	145	1 314	5 017	46 198	144 350	934 389		
Indicators										
Net value added / AWU	levs/AWU	32 295	9 654	16 661	26 635	31 338	39 166	56 892		
Net income of AWU	levs/AWU	14 420	8 138	13 310	19 773	17 487	11 724	17 390		
Total direct payments	levs	36 988	4 043	10 501	28 742	47 722	115 275	476 840		
Single area payment	levs	17 639	1 344	3 118	11 907	20 714	57 538	265 754		
Environmental subsidies	levs	3 831	207	1 250	3 149	4 899	7 819	60 816		
LFA subsidies Source: EU. Farm Accountancy Data Network '	levs	1 666	737	1 330	2 546	3 141	2 947	2 235		

Source: EU, Farm Accountancy Data Network '2020 - May 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) N 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: <u>https://agridata.ec.europa.eu/</u>

FIELD OF THE FADN SURVEY

56 964 holdings with an economic size of more than 4 000 euros form the field of observation of the FADN in 2020 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

2 235 holdings participate in the FADN in 2020 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 2020 includes 2 235 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.

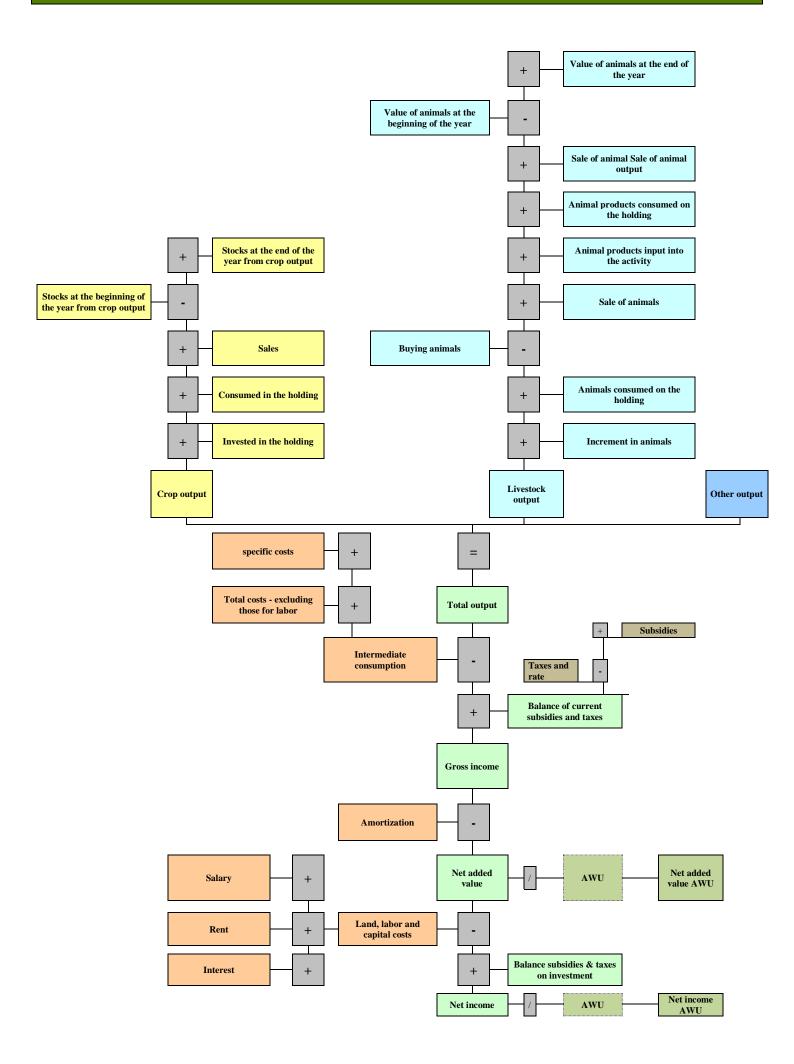
The participation of agricultural holdings in the system is voluntary. They are recruited until the number fixed in the sample is filled, observing the principles of stratification.

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	 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 2020, coefficient of standard output'2017, calculated as weighted average values for the period 2015-2019, were used.
	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.
Type of agriculture	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.

ECONOMIC INDICATORS ACCORDING TO THE EU METHODOLOGY FOR FADN



The publication is based on final data as of 2024

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