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MINISTRY OF AGRICULTURE AND FOOD

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№ 354 – uni 2024 FARM ACCOUNTANCY **DATE NETWORK** 2017 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
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'2017

Variables		Pulgeria			Regio	n		
variables	Measure	Bulgaria	NW	NC	NE	SW	SC	SE
Holding represented	number	61 424	8 815	8 962	8 917	10 361	9 114	15 25
Utilised agricultural area	ha	65.86	86.03	91.38	93.9	77.86	30.42	35.8
of which rented	ha	57.08	73.56	80.39	78.23	69.2	27.37	31.
Area with:								
cereals	ha	31.34	45.47	51.64	49.87	32.8	8.86	12.
other field crops	ha	21.30	30.03	31.34	32.46	28.21	5.28	8.
vegetables and flowers	ha	0.61	0.38	0.57	0.74	0.55	0.26	0.
permanent crops	ha	1.44	1.54	1.01	0.81	2.77	0.81	1.
forage crops	ha	8.36	6.69	4.76	6.87	10.09	10.08	10
Livestock								
total livestock units	LU	20.3	24.2	26.7	15.2	23.4	12.9	1
cattle and buffalo	LU	8.3	6.7	7.4	7.0	9.3	5.9	1
of which dairy cows	LU	4.7	4.1	4.9	4.5	5.4	2.9	:
sheep and goats	LU	3.5	2.3	3.3	3.2	5.0	4.1	:
pigs	LU	4.2	10.3	8.0	1.3	6.8	0.4	
poultry	LU	4.2	4.9	8.0	3.7	2.3	2.3	
Labour input								
labour input	AWU	3.0	3.4	3.2	3.1	3.3	2.6	
of which unpaid labour	AWU	1.2	1.2	0.9	1.3	1.0	1.6	
Economic results								
Total output	levs	140 241	196 094	211 860	169 306	155 169	66 849	82 6
from crops&crop production	levs	99 333	140 810	151 064	137 505	103 559	43 633	53 (
from livestock&livestock products	levs	38 107	49 673	59 926	24 434	47 722	23 194	28 9
other output	levs	2 801	5 611	870	7 367	3 888	22	4
Total intermediate consumption	levs	79 300	102 599	109 409	94 491	90 297	36 628	57
specific crop cost	levs	29 802	41 499	40 679	42 367	31 003	13 239	18
specific livestock cost	levs	21 076	26 462	33 666	14 643	26 730	9 847	17 3
specific costs for other gainful activities	levs	1 758	829	675	5 024	1 809	1 238	1.
other cost	levs	26 664	33 809	34 389	32 457	30 755	12 304	20 3
Balance of current subsidies & taxes	levs	38 322	45 132	44 348	45 036	47 459	21 635	30
subsidies	levs	36 982	42 337	44 228	42 785	46 699	21 158	29 (
VAT balance excluding on investments	levs	1 925	3 475	1 050	2 850	1 396	677	2
taxes and fares	levs	585	680	930	599	636	200	:
Gross farm income	levs	99 263	138 627	146 799	119 851	112 331	51 856	56
Depreciation	levs	19 040	22 877	24 653	27 641	22 210	9 411	12
Net value added	levs	80 223	115 750	122 146	92 210	90 121	42 445	43
Total external factors	levs	44 907	65 686	80 090	59 462	46 083	14 987	20 8
wages & social security	levs	17 442	24 137	26 487	18 631	19 996	8 4 1 0	11 2
rent	levs	25 206	39 065	51 307	36 793	22 967	5 719	8 2
interest	levs	2 259	2 484	2 296	4 038	3 1 2 0	858	1.
Balance subsidies&taxes on investment	levs	651	1 121	374	1 076	534	524	
subsidies on investments	levs	422	653	104	653	467	471	1
VAT balance on investments	levs	229	468	270	423	67	53	
Net income	levs	35 967	51 185	42 430	33 824	44 572	27 982	23
Balance sheet (closing valution)								
Fotal fixed assets	levs	186 188	240 702	247 990	274 518	193 755	87 481	120
land & permanent crops	levs	71 279	101 543	99 626	118 342	80 288	19 576	34 4
buildings	levs	32 239	36 272	51 668	44 905	28 056	20 198	21
machinery	levs	61 592	79 061	72 490	89 957	61 805	34 457	44 :
Fotal current assets	levs	101 522	122 175	123 047	139 879	99 963	30 235	98
Liabilities	levs	70 024	67 289	74 268	144 332	72 607	25 687	50
long term loans	levs	32 013	30 303	38 592	60 378	37 993	10 149	21
short term loans	levs	38 011	36 986	35 676	83 954	34 614	15 538	28
Indicators								
Net value added / AWU	levs/AWU	26 816	34 575	37 683	29 703	27 320	16 115	17
Net income of AWU	levs/AWU	12 029	15 279	13 096	10 911	13 507	10 640	9
Total direct payments	levs	29 214	33 638	36 231	35 989	36 796	14 604	22
Single area payment	levs	12 191	16 311	17 448	17 426	14 608	4 983	63
Environmental subsidies	levs	3 706	5 124	4 993	2 775	5 461	1 754	2.6
	10 1 0	0 / 00	2127		2,15	5 101	1,54	-

Source: EU, Farm Accountancy Data Network '2017 - uni 2024

Table 2. Average results of holding, distributed by 6 groups of economic size - FADN'2017

	Measure	Bulgaria	Economic size (in euros)							
Variables			from 4 to 8 thousand euros	from 8 to 25 thousand euros	from 25 to 50 fro thousand euros		500 thousand	over 500 thousand euros		
Holding represented	number	61 424	22 752	22 058	6 047	4 701	4 278	1 588		
Utilised agricultural area	ha	65.86	3.29	13.68	31.53	68.07	274.86	1 248.22		
of which rented	ha	57.08	2.09	11.20	27.79	62.32	252.56	1 051.54		
Area with:										
cereals	ha	31.34	0.59	3.61	9.16	24.46	132.30	690.14		
other field crops	ha	21.30	0.57	2.46	6.90	15.97	94.55	453.31		
vegetables and flowers	ha	0.61	0.15	0.27	0.67	0.61	2.05	7.90		
permanent crops	ha	1.44	0.40	0.83	1.42	2.55	5.45	10.79		
forage crops	ha	8.36	1.37	4.64	11.95	21.92	27.66	54.52		
Livestock										
total livestock units	LU	20.3	3.1	8.0	16.4	34.6	50.0	330.		
cattle and buffalo	LU	8.3	1.6	4.3	9.6	25.4	29.1	49.0		
of which dairy cows	LU	4.7	0.7	1.8	5.2	16.2	19.0	29.2		
sheep and goats	LU	3.5	1.4	3.5	6.1	7.7	6.2	4.3		
pigs	LU	4.2	0.0	0.0	0.3	0.2	2.2	155.2		
poultry	LU	4.2	0.1	0.1	0.3	1.1	12.5	121.2		
Labour input										
labour input	AWU	3.0	1.5	1.8	2.6	3.5	8.1	27.		
of which unpaid labour	AWU	1.2	1.3	1.3	1.4	1.1	0.5	0.3		
Economic results										
Total output	levs	140 241	13 057	30 649	60 235	124 485	509 590	2 841 01		
from crops&crop production	levs	99 333	7 309	17 007	39 820	74 952	404 127	2 039 02		
from livestock&livestock products	levs	38 107	5 748	11 430	20 341	43 550	102 516	750 28		
other output	levs	2 801	0	2 212	74	5 983	2 947	51 70		
Total intermediate consumption	levs	79 300	6 794	16 186	32 001	76 010	299 187	1 592 26		
specific crop cost	levs	29 802	1 565	3 866	10 281	20 334	126 480	636 48		
specific livestock cost	levs	21 076	2 586	4 776	10 061	23 832	56 034	452 10		
specific costs for other gainful activities	levs	1 758	4	1 872	143	4 223	4 854	15 852		
other cost	levs	26 664	2 639	5 672	11 516	27 621	111 819	487 823		
Balance of current subsidies & taxes	levs	38 322	5 498	13 669	34 060	50 624	136 439	566 542		
subsidies	levs	36 982	4 383	11 809	30 741	47 358	137 129	576 970		
VAT balance excluding on investments	levs	1 925	1 195	2 050	3 878	3 857	990	(
taxes and fares	levs	585	80	190	559	591	1 680	10 434		
Gross farm income	levs	99 263	11 761	28 132	62 294	99 099	346 842	1 815 29		
Depreciation	levs	19 040	1 229	2 750	7 223	20 476	72 383	397 594		
Net value added	levs	80 223	10 532	25 382	55 071	78 623	274 459	1 417 70		
Total external factors	levs	44 907	1 923	6 689	16 501	41 160	188 893	923 00		
wages & social security	levs	17 442	1 350	3 229	8 586	18 611	73 730	324 02		
rent	levs	25 206	557	3 276	7 291	19 718	106 556	548 31		
interest	levs	2 259	16	184	624	2 831	8 607	50 668		
Balance subsidies&taxes on investment	levs	651	86	393	712	1 146	2 599	5 39		
subsidies on investments	levs	422	0	186	188	874	1 878	5 390		
VAT balance on investments	levs	229	86	207	524	272	721	(
Net income	levs	35 967	8 695	19 086	39 282	38 609	88 165	500 09		
Balance sheet (closing valution)										
Total fixed assets	levs	186 188	20 043	45 347	101 021	210 653	617 761	3 612 282		
land & permanent crops	levs	71 279	9 947	18 101	31 455	75 373		1 418 843		
buildings	levs	32 239	2 910	6 047	22 056	37 776	100 450	654 92		
machinery	levs	61 592	2 981	11 013	22 224	56 456	242 118			
Total current assets	levs	101 522	11 676	24 383	88 334	92 695		1 998 77		
Liabilities	levs	70 024	827	7 023	25 529	91 381		1 610 402		
long term loans	levs	32 013	462	2 552	11 166	47 567	115 688	701 22		
short term loans	levs	38 011	365	4 471	14 363	43 814	114 825	909 18		
Indicators										
Net value added / AWU	levs/AWU	26 816	7 075	14 125	21 009	22 373	34 045	51 88		
Net income of AWU	levs/AWU	12 029	5 836	10 603	14 993	11 000	10 939	18 30		
Total direct payments	levs	29 214	2 237	8 502	25 114	37 849	118 185	453 74		
- our anoor pujmonto						11 760	51 619	237 00		
Single area navment	leve	12 101	///0							
Single area payment Environmental subsidies	levs levs	12 191 3 706	479 213	2 380 1 271	5 447 2 380	4 524	7 915	78 85		

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

61 424 holdings with an economic size of more than 4 000 euros form the field of observation of the FADN in 2017 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 2013 sample census of agricultural holdings in Bulgaria show that there are about 254 000 agricultural holdings in the country with an average area of 15.5 ha. The field of observation of FADN covers about 25% of holdings, but they form about 92% of the standard production and represent approximately 95% of the UAA and about 82% of the livestock units.

FADN SAMPLE

2 253 holdings participate in the FADN in 2017 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 2017 includes 2 253 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.

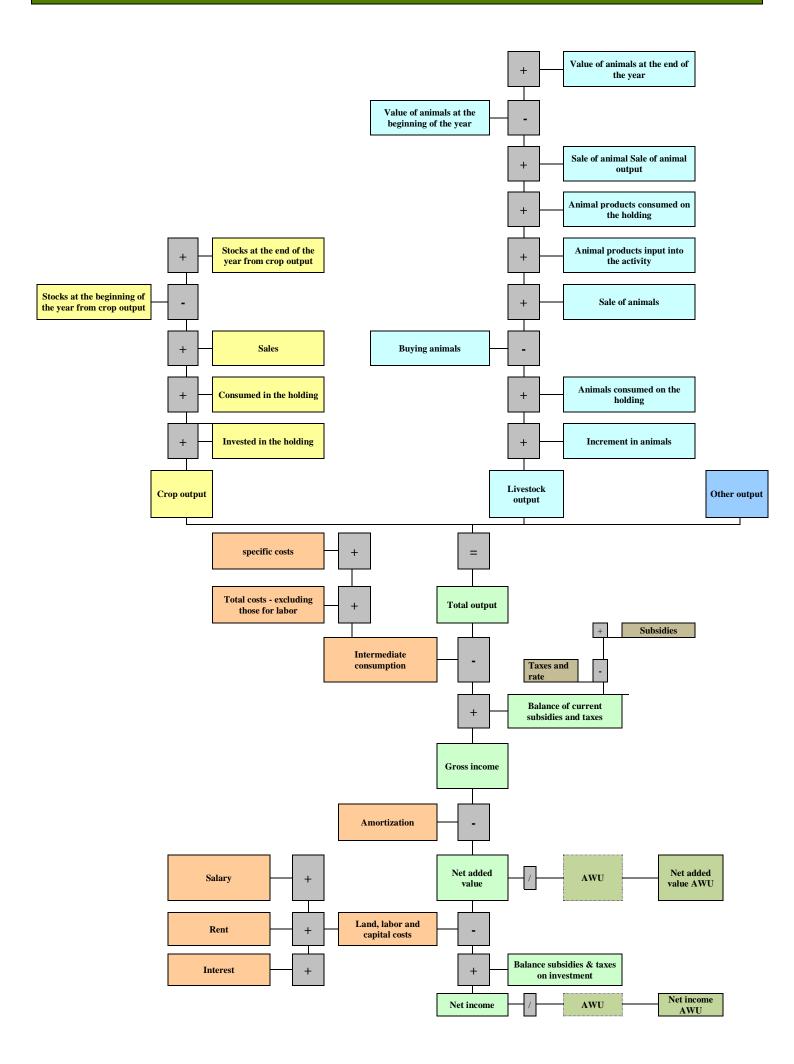
The participation of agricultural holdings in the system is voluntary. They are recruited until the number fixed in the sample is filled, observing the principles of stratification.

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 2017, 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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