



## FADN in Kosova

The agricultural sector in Kosova is in a process of restructuring. Adequate information is absolutely necessary in this process. The activities to achieve a successful real advantage increase the cooperation between different public and private institutions.

Within the agricultural sector there are two categories of agricultural economies: agricultural business units (enterprises) and individual agriculture holdings (private/family farms). Kosova agriculture is predominately small-scale and mixed private/family farms.

With the development of the agriculture information system, most recent data sources are appropriately used, especially the data obtained through FADN, which continuously develop and improve the economic accounts for agriculture.

For individual agricultural economies, data are received by estimation made by FADN agent's evaluators through a questionnaire [questionnaire](#)  and [guide](#) .

Responsible institution for collecting, processing, analyzing and publishing FADN data in the Republic of Kosova is the MAFRD.

The MAFRD is supported from ASPAUK 1 and ASPAUK 2 financed by the EAR for preparation of network for Farm Accountancy Data (FADN) during 2004 - 2006. Network of Farm accountancy in Kosova has started in 2004, like a pilot project. This pilot project implied 50 farms, analyze of the sample is done manually and analyze of the data is done with the computer program A.M.B.E.R. Situation throughout 2004/2006 has changed and sample of 50 farms has been raised to 161 farms, including the minorities as well.

## STRUCTURE OF RESPONDENTS

TABLE 1 – Structure of respondents of entities by the farm size, year 2005

	Groups by the farm typology						
	Field crops	Horticulture	Grazing livestock (dairy)	Granivore (poultry, pigs, sheep)	Apiculture	Mixed	Total
Total sample	28	38	9	8	8	68	159
Total agric land (ha)	552,0	258,4	42,2	15,6	20,4	511,1	1,51185
Share of total agric land of sample (%)	36.5	17,2	2.8	1.0	1.4	33.8	100.0
Average area of one subject (ha)	19.7	6,8	4.7	2.0	2.6	7.5	9.5

TABLE 2 – Structure of respondents of entities by the European size unit (ESU), year 2005

	Groups by the European size unit (ESU)				
	ESU 1	ESU 2	ESU 3	ESU 4	Total
Total sample	64	40	33	22	159
Total agric land (ha)	285,4	315,8	304,3	606,3	1,511,8
Share of total agric land of sample (%)	18,9	20,9	20,1	40,1	100,0
Average area of one subject (ha)	4,5	7,9	9,2	27,6	9,5

## STRUCTURE OF LABOURS

TABLE 3 – Structure of labour by the farm size, year 2005

	Groups by the farm typology						
	Field crops	Horticulture	Grazing livestock (dairy)	Granivore (poultry, pigs, sheep)	Apiculture	Mixed	Total
Number of workers	158	326	31	30	57,0	523	1125
Average number of workers per farm	5,6	8,6	3,4	3,8	7,1	7,7	7,1
Agricultural land per 1 worker (ha)	3,5	1,1	1,4	0,5	0,4	1,0	1,3
Number of workers per 100 ha of agricultural land	28,6	88,0	73,4	192,1	279,1	102,3	74,4
Number of regular workers	133	190	28	27	50	319	747
Share of regular workers from total (%)	84,2	58,3	90,3	90,0	87,7	61,0	66,4
Number of casual workers	25,0	136,0	3,0	3,0	7,0	204,0	378,0
Share of casual workers from total (%)	15,8	41,7	9,7	10,0	12,3	39,0	33,6
Number of regular workers by age (%)							
Less than 18 years (%)	42,9	33,7	10,7	14,8	30,0	28,5	31,3
More than 18 years (%)	57,1	66,3	89,3	85,2	70,0	71,5	68,7

TABLE 4 – Structure of labour by the European size unit (ESU), year 2005

	Groups by the European size unit (ESU)				
	ESU 1	ESU 2	ESU 3	ESU 4	Total
Number of workers	371	325	291	138	1125
Average number of workers per farm	5,8	8,1	8,8	6,3	7,1
Agricultural land per 1 worker (ha)	0,8	1,0	1,0	4,4	1,3
Number of workers per 100 ha of agricultural land	130,0	102,9	95,6	22,8	74,4
Number of regular workers	261	199	189	98	747

Share of regular workers from total (%)	70.4	61.2	64.9	71.0	66.4
Number of casual workers	110	126	102	40	378
Share of casual workers from total (%)	29.6	38.8	35.1	29.0	33.6
Number of regular workers by age (%)					
Less than 18 years (%)	31.0	31.2	35.4	24.5	31.3
More than 18 years (%)	69.0	68.8	64.6	75.5	68.7

STRUCTURE OF EXPENDITURES AND REVENUES OF FARMS  
TABLE 5 – Results of expenditures of individual farms - average  
(euro/ha), year 2005

	Groups by the farm typology				
	Field crops	Horticulture	Grazing livestock (dairy)	Granivore (poultry, pigs, sheep)	Apiculture
Total expenditure	2,597	89,877	583	626	29
Depreciation	529	22,567	16	27	0.79
Costs of material and energy	846	55,401	545	577	4
Services	108	3,135	13	21	4
Wages	17	215	0.87	0.00	0.00
Other expenditures	1,096	8,557	7	0.52	19

TABLE 6 – Structure of revenues of individual farms - average (eur/ha),  
year 2005

	Groups by the farm typology				
	Field crops	Horticulture	Grazing livestock (dairy)	Granivore (poultry, pigs, sheep)	Apiculture
Revenues from products and services	2,938	235,534	3,967	1,695	148
Crop production	2,902	210,793			
Animal production			3,366	1,629	129
Products of subsidiary activities	1.45		598	65	0.00
Other revenues	34	741	3	0.75	19.

## YIELDS OF MAIN CROPS

TABLE 7 – Yields of main farm crops in tones per hectare by the European size unit (ESU), year 2005

	Groups by the European size unit (ESU)				
	ESU 1	ESU 2	ESU 3	ESU 4	Total
Wheat	4.23	4.47	5.17	4.94	4.70
Rye	3.16	3.34	3.73	3.80	3.51
Barley	6.55	6.91	7.64	8.00	7.27
Oats	4.18	4.42	4.93	4.88	4.65
Maize	6.19	6.53	7.56	7.22	6.87
<b>TOTAL CEREALS</b>	<b>4.86</b>	<b>5.13</b>	<b>5.80</b>	<b>5.77</b>	<b>5.40</b>
Beans	1.73	1.69	1.87	1.81	1.78
Potatoes	18.12	17.02	18.86	19.97	18.49
Peppers	25.29	26.69	29.50	30.91	28.10
Onion	17.80	18.79	20.97	20.57	19.78
Tomatoes-traditional	27.46	28.98	32.03	33.56	30.51
Water melon	18.65	19.68	21.75	22.79	20.72
Cucumbers	33.37	35.23	40.05	37.82	37.08
Fodder	8.05	8.50	9.84	9.40	8.95
Maize silage	22.15	23.38	25.11	27.07	24.61

## AVERAGE PROFITABILITY

TABLE 8 – Average profitability of different size groups by farm typology, year 2005

	Field crops	Horticulture	Grazing livestock (dairy)	Granivore (poultry, pigs, sheep)	Apiculture	Mixed	Total
Number of farms in sample	28	38	9	8	8	68	159
AWU/farm	217.84	76.12	28.43	20.21	13.48	196.98	553.06
Land in property (average) ha/farm	8.44	4.51	3.19	1.95	2.55	5.43	5.29
Rented land (average) ha/farm	0.16	3.50	0.00	0.00	0.00	0.10	0.91
Number of livestock (average)/farm							
Dairy	7.61	2.61	10.67	0.50	1.88	6.72	5.56
Sheep	1.11	0.79	94.44	0.00	0.00	7.82	9.08
Goats	0.00	0.03	0.00	0.00	0.00	0.13	0.06
Poultry	1.96	3.03	2.33	2,273.13	0.00	9.70	119.72
Bees	0.57	0.21	0.00	3.75	127.50	2.50	7.82
Pigs	0.54	0.00	0.00	0.00	0.00	2.29	1.08
Economic indicators (averages/farm)							
Gross revenue	19,075	15,187	30,235	39,393	11,310	8,217	14,765

Gross margin	15,496	10,524	24,131	21,014	7,206	6,512	10,815
Farm income	14,200	9,628	22,987	19,209	7,008	5,567	9,803
Gross revenue livestock	13,509	2,613	25,282	37,026	11,214	7,501	10,070
Gross margin livestock	11,998	2,000	20,248	18,894	7,491	6,594	7,885
Farm income livestock	11,736	1,631	19,571	17,403	7,463	6,341	7,528
Gross revenue crops	5,565	12,563	4,286	2,367	95	638	4,622
Gross margin crops	3,498	1,222	3,882	2,082	-285	-266	1,104
Farm income crops	2,464	8,005	3,416	1,806	-455	-713	2,303

TABLE 9 – Average profitability of different size groups by the European size unit (ESU)

	Groups by the European size unit (ESU)				
	ESU 1	ESU 2	ESU 3	ESU 4	Total
Number of farms in sample	64.00	40.00	33.00	22.00	159.00
AWU/farm	151.47	224.48	121.57	55.54	553.06
Land in property (average) ha/farm	4.08	5.01	6.16	8.04	5.29
Rented land (average) ha/farm	0.03	0.22	0.36	5.52	0.91
Number of livestock (average)/farm					
Dairy	3.29	5.04	8.15	9.22	5.56
Sheep	0.67	6.38	10.00	37.05	9.08
Goats	0.09	0.00	0.03	0.14	0.06
Poultry	6.28	8.31	27.45	790.68	119.72
Bees	0.13	8.65	13.45	20.27	7.82
Pigs	0.52	1.53	1.45	1.32	1.08


Economic indicators (averages/farm)

Gross revenue	5,271	9,584	14,688	51,921	14,765
Gross margin	4,141	7,200	10,950	36,602	10,815
Farm income	3,421	6,545	10,002	33,993	9,803
Gross revenue livestock	4,367	7,384	11,595	29,254	10,070
Gross margin livestock	3,832	6,095	9,659	20,266	7,885
Farm income livestock	3,668	5,807	9,329	19,183	7,528
Gross revenue crops	767	2,157	3,081	22,627	4,622
Gross margin crops	147	1,062	-7,117	16,297	1,104
Farm income crops	-152	712	661	14,805	2,303


In 2008 sample has been raised from 161 to 300 farms. The Ministry with the municipality advisers visits the agriculture individual farms four times per year and in the

meantime gives professional advice. Implementation of the FADN enables the development of a farm to be followed by experts.

The advisors are present on the field and there they get high quality on-time information. At the same time, they give expert advices to the farmers and help them to overcome certain problems in the process of the agricultural production.

The farmers participating in the FADN get a [note-book](#)  where they have to write down what items they have produced, bought and sold and the quantities and prices related to these items.

The advisors visit the farms and collect the information from the interview and at the same time they collect additional data, for example on hours worked and stocks. In most cases the farmers have not filled in the notebook, so the advisor also has to do this. They will use a questionnaire. After the data collection, the advisors enter data into a relational database. The FADN collects a wide range of data such as: data for the farm resources, the yields, incomes, costs, labour, livestock reconciliation and so on. FADN covers farms, which have a long-term cooperation with the advisors. Different types of data collected with the FADN give possibilities for different analyses, which can be useful for different users.

The FADN has been functioning in continuity for more than four years. The FADN gives a possibility for calculation of gross margins for different types of crops or animals. The summary FADN report for particular farm shows variety of data types at basic level. These data are divided according to time of producing, type of cost, the value of land and buildings, dead stock, [assets depreciation](#)  and circulating capital and debts etc. There are data for general indicators as association membership, education, age of farmers etc. The information system enables the basic data for specific farm given in the table to be grouped according to different criteria, i.e. type of production (animal/crop), type of cost/income from final processing of agricultural products (animal/crop) etc.

For the moment, there is no reliable information on the universe of farms in Kosova. The farms involved in the FADN have been selected in the base of Agricultural Household Survey (2005). The Agricultural Census has been yet carried out. However up to this point it is difficult to make conclusions on how the FADN data are representative. At this point, the population of all farms and the structure of farms in Kosova are unknown, which makes it impossible to relate the figures to national level. Data in the FADN are only collected from private farms. The private farms in the Republika of Kosova are not obliged to keep books. The enterprises and agricultural cooperatives are required to keep books.

Gross margins, receipts and direct costs for each crop and type of each animal collected and figures per ha or per animal are calculated. Receipts and costs split up on various items and the family farm income are calculated. This indicator is calculated at farm level.

- [Standard Gross Margins 2008](#) 

**Next step is the final results 2008**

For more information about FADN in EU countries have a look at this website [www.pacioli.org](http://www.pacioli.org) which contents all workshops (16) held on until now and other [FADN websites](#). 