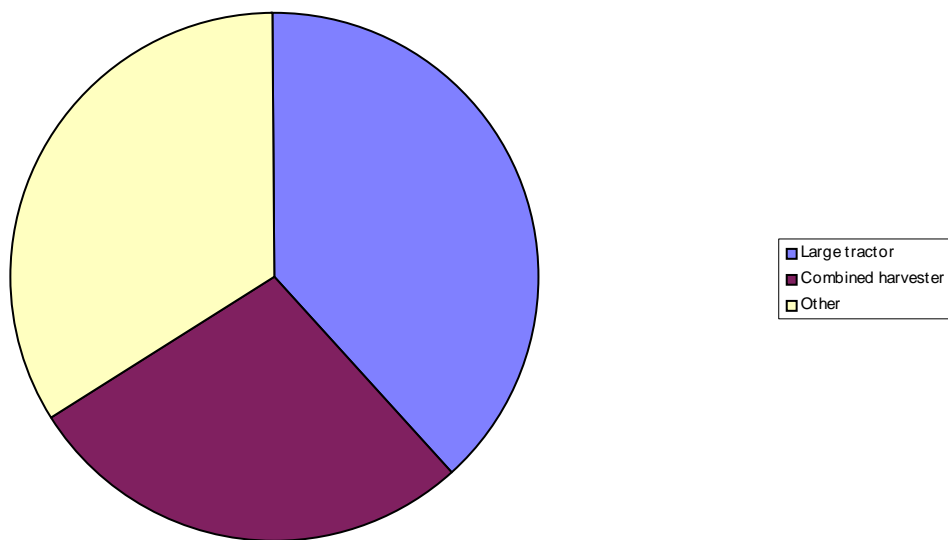


Socially owned enterprises and cooperatives (SOE) in agriculture in Kosovo 2003

Results from the STAC course

Chart. Value of Machinery (Euro)



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Summary of results

The survey got 112 answers from the SOE sector, but only 37 are active, of which 28 in agriculture. The land area is 67 000 ha, but there may be some under-coverage. The main crops are wine grapes and barley for beer. The main machinery used is large tractors and combined harvesters. There are 2 700 full time employees and about 300 seasonal employees. There is very little livestock.

Regarding crop areas and livestock the SOE sector is small compared to the household sector. The SOE's contribute with a crop area of 5 000 ha, while the household sector has more than 200 000 ha.

Background

From the household sector results have been published since 2000, but from the SOE-sector no results are available after the war.

In 2001 a survey on SOEs was performed by SOK, but the responses were not sufficient. Thus no results were published.

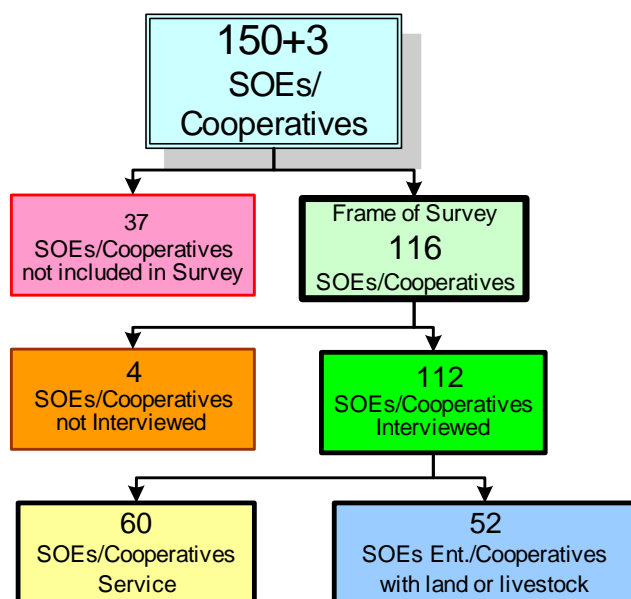
This survey was performed as a STAC course. One week in May and one week in September a group of 10 people was working together. There were two teachers from Sweden, three participants from MAFRD and five participants from SOK. In the meanwhile SOK had to administrate all the interviewing part.

Methods and data quality

Definition of a SOE in this survey

All agricultural enterprises, with agricultural production were included in the survey together with the other enterprises and cooperatives having machinery and activity. SOEs with no land or livestock, and some service cooperatives were excluded.

Frame



To make a frame a list was used from the Kosovo Trust Agency (KTA) containing 150 SOEs/Cooperatives. Some 37 were not included as they obviously had no land or livestock. The remaining 113 were our frame in the spring, while 3 have been entered later. The total number in the frame is 116. Of these 112 were interviewed. The 4 remaining are non-response in this survey. They were contacted by telephone. Two of them have no land area while the third has 41 ha. We have no information from the fourth.

Questionnaire

A questionnaire was constructed in May in the STAC course, based on the questionnaire for SOEs in 2001 and the questionnaires used for agricultural household surveys. The questionnaire was then changed a little and was finished in June. The questionnaire is annexed to this report.

Data collection and editing

The interviews were performed during June – August 2003. Mostly the interviews were done by the regional statistical offices in Kosovo. The data were entered and edited like other surveys by SOK in Access.

Data cleaning and tabulation

The STAC course moved all data to Excel and performed the calculations in Excel. Before that some partial non-response were imputed, and some very extreme values were changed.

Data quality

There may be some under-coverage – some SOEs may not be included in our frame. We found a possible under-coverage of about 600 ha, but there may be some more SOEs missing in the frame. Over-coverage was eliminated. At the beginning there were 150 SOEs but after removing service SOEs and SOEs, who were part of other SOEs the final frame contained 113 SOEs. Three SOEs were added later. Thus the final number of SOEs in the frame was 116.

Measurement errors in the answers or data processing errors may occur. However, we have done logical checks and verification by course participants living in the same municipality as the SOE. Thus we think that there are no big errors left in the data.

Results

The survey got 112 answers from the SOE sector, but only 28 are active in agriculture and 9 were active service SOEs.

Table 1. Area by type of land and status (ha)

Type of land	Active	Not active	Total
House yard	285	216	501
Utilized arable land	7337	1209	8546
Kitchen gardens	0	3	3
Greenhouse	18	0	18
Meadow	800	231	1031
Pastures	23398	184	23582
Orchards	484	75	559
Vineyard	2178	54	2232
Forest	3986	132	4118
Left fallow	15572	11040	26612
Fishing	9	9	18
Others	5	3	8
Total	54072	13156	67228

The total area of land for SOE.s are about 67 000 ha and about 80% of the land belong to active SOE:s. About 10% of the land is occupied.

Table 2. Area by type and ownership (ha)

Type of land	Owned	Rented*	Total
House yard	462	39	501
Utilized arable land	6475	2072	8547
Kitchen gardens	3	0	3
Greenhouse	18	0	18
Meadow	756	274	1031
Pastures	23537	45	23582
Orchards	559	0	559
Vineyard	2223	9	2232
Forest	4118	0	4118
Left fallow	26248	363	26612
Fishing	10	8	18
Others	8	0	8
Total	64417	2811	67228

*) and other

Almost all land area is owned by the SOEs.

Table 3. Irrigated area by type (ha)

Type of land	Irrigated	Not irrigated	Total
House yard	10	491	501
Utilized arable land	1479	7068	8547
Kitchen gardens	3	0	3
Greenhouse	6	12	18
Meadow	61	970	1031
Pastures	0	23582	23582
Orchards	31	528	559
Vineyard	0	2232	2232
Forest	0	4118	4118
Left fallow	125	26487	26612
Fishing	0	18	18
Others	0	8	8
Total	1715	65513	67228

The biggest areas for irrigation are for utilized arable land and for left fallow land.

Table 4. Reasons for left fallow land (ha)

Reason	Area
Lack of inputs	259
Lack of manpower	1,3
Lack of equipment	215
Low economic profitability	472
Total	947,3

The main reasons for having left fallow land are low economic profitability and lack of inputs.

Table 5. Machinery

Machine type	Number of machines	Value	Maintenance
Large tractor	142	582907	55680
Small tractor	28	96000	8429
Motocultivator	7	9240	300
Plough	170	54063	3197
Disc harrow	45	35950	770
Tooth harrow	22	6650	450
Trailer	102	95953	2890
Sowing Machine	54	44783	1117
Miller machine	6	4600	0
Seed driller	40	16340	1160
Sprayer	27	23750	1030
Mower	9	3250	200
Hayraker	6	1150	30
Haybaler	3	8000	400
Combine harvester	68	422300	22566
Animal feed binder	11	31600	1020
Mill	3	10500	30
Water pump	6	10000	1300
Milking machine	3	2100	250
Silage combiner	3	21000	2000
Other combiners	1	5000	400
Maize adapter	2	3250	0
Sunflower adapter	5	5200	730
Re-collector	3	150	0
Manure dispenser	2	1000	0
Line weeding machine	17	8290	525
Silage machine	1	500	0
Sugarbeat harvester	2	3100	500
Maize peeler	1	600	600
Potatoes harvester	3	600	0
Line cultivator for potatoes	31	17400	1850
Land weeder	2	400	0
Total		1525626	107424

Additionally, for fuel and lubrication were spent about 250 000 €
The value of all machinery on SOE:s is about 1,5 million €

In chart 1, the machines with highest total value are presented.

Chart 1 Value of Machinery (Euro)

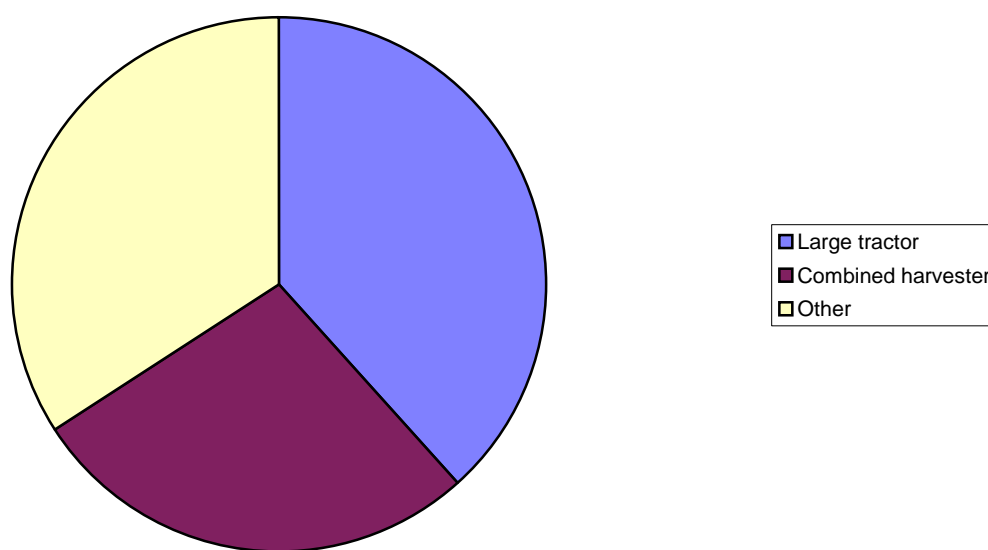


Table 6. Crops planted – cultivated (ha)

Crop	Area
Wheat	506,0
Rye	2,0
Barley	314,0
Barley for beer	1657,6
Oats	9,0
Maize	7,0
Potatoes	8,5
Tomatoes	1,0
Cucumber	4,0
Garlic	1,0
Mixed Grass	15,0
Vetch	109,0
Apple	22,0
Pear	6,2
Quince	0,3
Plum	18,6
Sour cherry	235,0
Hazelnut	148,0
Grape	304,1
Wine grapes	1919,0
Sunflower	180,0
Soya	11,0
Seedlings for fruits	1,0
Decorative seeds	0,2
Total	5479,4

The largest areas are covered with wine grapes, barley for beer and wheat.

In chart 2 (below) you can see that the most common groups of crop are grains and fruit.

Chart 2 Areas in crop groups (ha)

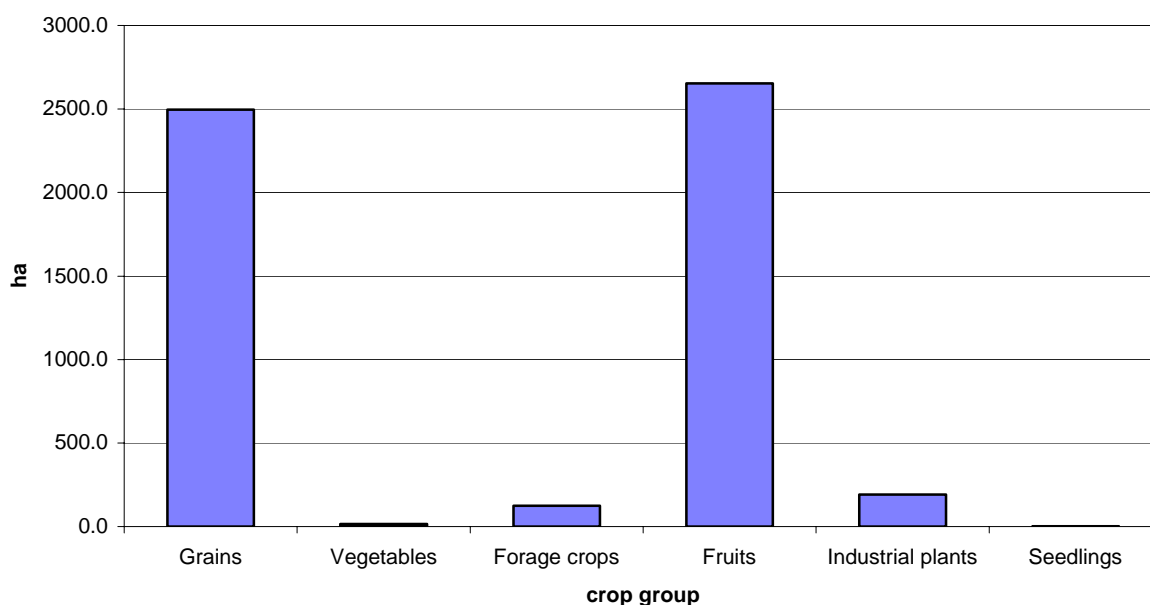


Table 7. Seeds

Crop	Used (kg)	Purchased (kg)	Value of purchased quantity (€)
Wheat	142410	141250	48677
Rye	600	0	0
Barley	67650	67650	26129
Barley for beer	320550	328950	123869
Oats	1800	1800	400
Maize	123	63	79
Potato	10500	1000	500
Tomato	1,3	1,3	9,62
Cucumber	5,2	1,2	7
Garlic	700	0	0
Lucerne	450	0	0
Sunflower	3650	3650	2595
Soya	1500	1500	900
Total			203166

Most seeds are used for cereals. Regarding barley for beer the purchased quantity is slightly higher than the used quantity 2003.

There has been very little use of seedlings, only three SOE:s have used seedlings for cultivating any crop.

Only two SOEs have raised or otherwise kept livestock during the last 12 months. One SOE is dealing mostly with sheep and the other mostly with chicken.

Two SOEs have fish ponds.

Table 8. Education by gender for employees

Education	Male	Female	Total
No education	199	6	205
Primary school not completed	306	0	306
Primary school completed	790	26	816
Secondary school completed	899	112	1011
High school completed	109	7	116
Faculty completed	193	15	208
Total	2496	166	2662

The SOEs have about 2 700 employees. Less than 10% of the employees are females. There are 292 seasonal workers who work 16 616 hours. This low number depends on that most SOEs are not active.