



Пројекат финансира
Европска Унија



Sistem računovodstvenih podataka
na poljoprivrednim gazdinstvima



Република Србија
МИНИСТАРСТВО ПОЉОПРИВРЕДЕ
И ЗАШТИТЕ ЖИВОТНЕ СРЕДИНЕ

Serbian FADN data for 2013



Република Србија
МИНИСТАРСТВО ПОЉОПРИВРЕДЕ
И ЗАШТИТЕ ЖИВОТНЕ СРЕДИНЕ

Milan Rakić
-September 2014-



Establishing farm accountancy data network in Republic of Serbia

Basic Information:

Data are collected directly from the Agricultural holding, and they are not based necessarily on a systematic records.

The data are confidential;

The participation in Serbian FADN by agricultural holdings is **VOLUNTARY**;

631555 Agricultural Holdings' 2012 census year. “

Threshold is decided to be 4000 euro;

Research Area 200.087 farms.





	3	4+5	6+7	8+9	10+11	12+13+14	Total
Specialist and general field cropping	21058	16550	7756	668	9	2	46,043
Specialist horticulture indoor	673	931	270	19			1,893
Specialist horticulture outdoor	949	1119	419	42			2,529
Specialist vineyards	102	91	21	1			215
Specialist fruit	3435	1545	128	15			5,123
Specialist dairying	21987	13944	1662	94	1		37,688
Various grazing livestock combined	12033	7823	1269	39			21,164
Specialist pigs	1900	1502	600	93	2		4,097
Specialist poultry	213	384	501	120	8	4	1,230
Various crops and livestock combined	50223	26713	2992	176	1		80,105
Total	112573	70602	15618	1267	21	6	200,087



FADN sample 2013 – Republic of Serbia

Type of farm		Economic size 1.000 euro						Total
		0-2	2-4	4-8	8-25	25-100	100-500	
1	Specialist and general field cropping	4	9	16	76	76	10	191
2	Specialist horticulture indoor	0	1	0	0	0	0	1
3	Specialist horticulture outdoor	3	1	4	5	0	0	13
4	Specialist vineyards	3	3	3	2	0	0	11
5	Specialist fruit	2	7	6	9	3	0	27
6	Specialist dairying	0	0	6	48	19	4	77
7	Various grazing livestock combined	0	1	10	18	14	3	46
8	Specialist pigs	0	0	0	1	3	3	7
9	Specialist poultry	0	0	0	3	5	2	10
10	Various crops and livestock combined	3	6	14	60	28	3	114
	Total	15	28	59	222	148	25	497

Average results for field cropping farms – sample size 191 farm



	$X < 4.000 \text{ €}$	$4.000 \leq X < 8.000 \text{ €}$	$8.000 \leq X < 25.000 \text{ €}$	$25.000 \leq X < 100.000 \text{ €}$	$100.000 \leq X < 500.000 \text{ €}$	Average
Number of holdings	13	16	76	76	10	191
General indicators						
Labour input - AWU	1,70	3,02	2,32	2,37	3,63	2,42
of which paid labour input - AWU	0,36	0,52	0,57	0,83	1,68	0,72
Total utilised agricultural area (UAA) - ha	4,71	7,31	20,70	71,37	214,50	48,80
Maize	1,05	2,02	6,77	23,92	89,10	17,12
Wheat	0,79	2,66	6,40	21,80	46,36	13,92
Other cereals	0,27	0,31	0,67	1,00	1,00	0,76
Potatoes	0,25	0,33	0,24	0,26	0,00	0,24
Forage crops	0,73	0,35	0,67	0,74	0,10	0,65
Vegetables	0,07	0,44	0,34	0,38	0,30	0,35
Permanent crops	1,20	0,31	0,42	0,01	0,00	0,28
Other agricultural land	0,36	0,88	5,19	23,24	77,64	15,48
Yield of maize - t/ha	4,46	4,85	6,34	6,92	7,81	6,47
Yield of wheat - t/ha	4,89	4,74	5,34	5,86	6,32	5,55

Average results for field cropping farms – sample size 191 farm



	X < 4.000 €	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 100.000 €	100.000 ≤ X < 500.000 €	Average
Number of holdings	13	16	76	76	10	191
Balance sheet (dinars) - the end of the year						
+ Total fixed assets	6.476.776	10.415.104	14.489.543	33.415.031	59.942.138	23.513.135
Land, permanent crops & quotas	3.568.665	4.479.013	8.373.867	20.250.165	38.714.542	14.034.705
Buildings	1.992.274	4.331.547	3.211.341	5.042.420	3.225.264	3.951.533
Machinery	881.029	1.579.719	2.858.823	8.033.721	18.002.332	5.469.034
Breeding livestock	34.808	24.825	45.513	88.725	0	57.863
+ Total current assets	352.312	707.508	971.956	3.802.887	12.387.380	2.631.738
= Total assets	6.829.088	11.122.612	15.461.499	37.217.917	72.329.518	26.144.873
- Total liabilities	0	9.375	193.732	1.159.919	4.232.385	761.001
Long & medium-term loans	0	0	181.726	1.064.256	4.005.809	705.512
Short-term loans	0	9.375	12.005	95.663	226.576	55.490
= Net worth	6.829.088	11.113.237	15.267.768	36.057.999	68.097.133	25.383.872

Average economic results for field cropping farms – sample size 191 farm



	X < 4.000 €	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 100.000 €	100.000 ≤ X < 500.000 €	Average
Number of holdings	13	16	76	76	10	191
+ Total output	1.038.436	1.839.696	3.043.083	8.773.098	30.864.748	6.542.471
Crop production	957.974	1.528.926	2.843.845	8.490.113	29.493.098	6.247.269
Livestock production	61.231	242.520	168.810	259.603	0	194.951
Other production	19.231	68.250	30.428	23.382	1.371.650	100.251
- Total intermediate consumption	414.635	871.624	1.361.040	4.406.248	11.204.582	2.982.701
Specific costs	259.090	455.476	798.248	2.740.011	7.361.453	1.849.100
Farming overheads	155.546	416.148	562.792	1.666.237	3.843.128	1.133.602
+ Balance current subsidies & taxes	33.829	52.510	163.164	617.930	1.227.090	381.749
= Gross Farm Income	657.629	1.020.582	1.845.206	4.984.780	20.887.256	3.941.518
- Depreciation	244.493	352.460	436.448	830.826	1.582.771	633.290
= Farm Net Value Added	413.137	668.122	1.408.758	4.153.954	19.304.485	3.308.229
+ Balance subsidies & taxes on investments	10.769	0	19.737	19.474	0	16.335
- Total external factors	85.785	150.125	341.550	1.278.524	5.498.913	950.953
Wages paid	67.518	118.875	133.109	136.100	560.550	151.022
Rent paid	12.154	30.750	187.881	1.042.911	4.703.317	739.389
Interest paid	6.113	500	20.560	99.513	235.046	60.542
= Family Farm Income	338.121	517.997	1.086.945	2.894.903	13.805.572	2.373.611

Average economic results for field cropping farms – sample size 191 farm

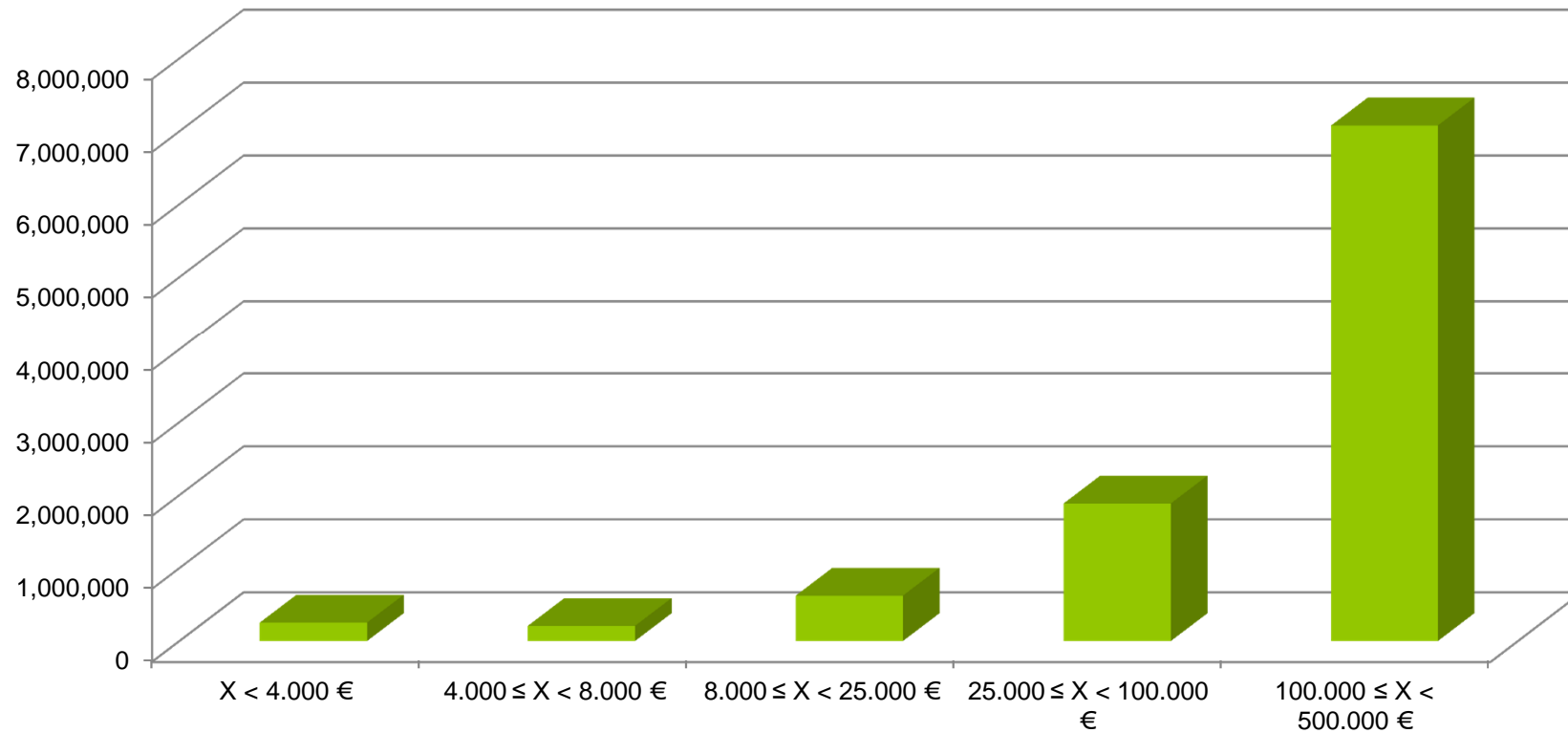


	X < 4.000 €	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 100.000 €	100.000 ≤ X < 500.000 €	Average
Number of holdings	13	16	76	76	10	191
Additional data						
Total output per hectare of UAA - dinar/ha	220.475	251.841	147.037	122.930	143.892	134.081
Total inputs per hectare of UAA - dinar/ha	158.156	188.119	103.355	91.298	85.251	93.594
Output-input ratio (total output/total input)	1,39	1,34	1,42	1,35	1,69	1,43
Total subsidies (excl. on invest.) per ha of UAA - dinar/ha	8.159	9.187	9.048	10.092	8.060	9.363
Gross Investment in fixed assets per ha of UAA - dinar/ha	25.797	-251	9.439	13.588	8.756	11.356
Debt ratio (total debt/total assets) - %	0,00%	0,08%	1,25%	3,12%	5,85%	2,91%
Family Farm Income /Net worth - %	4,95%	4,66%	7,12%	8,03%	20,27%	9,35%

Specialist cropping

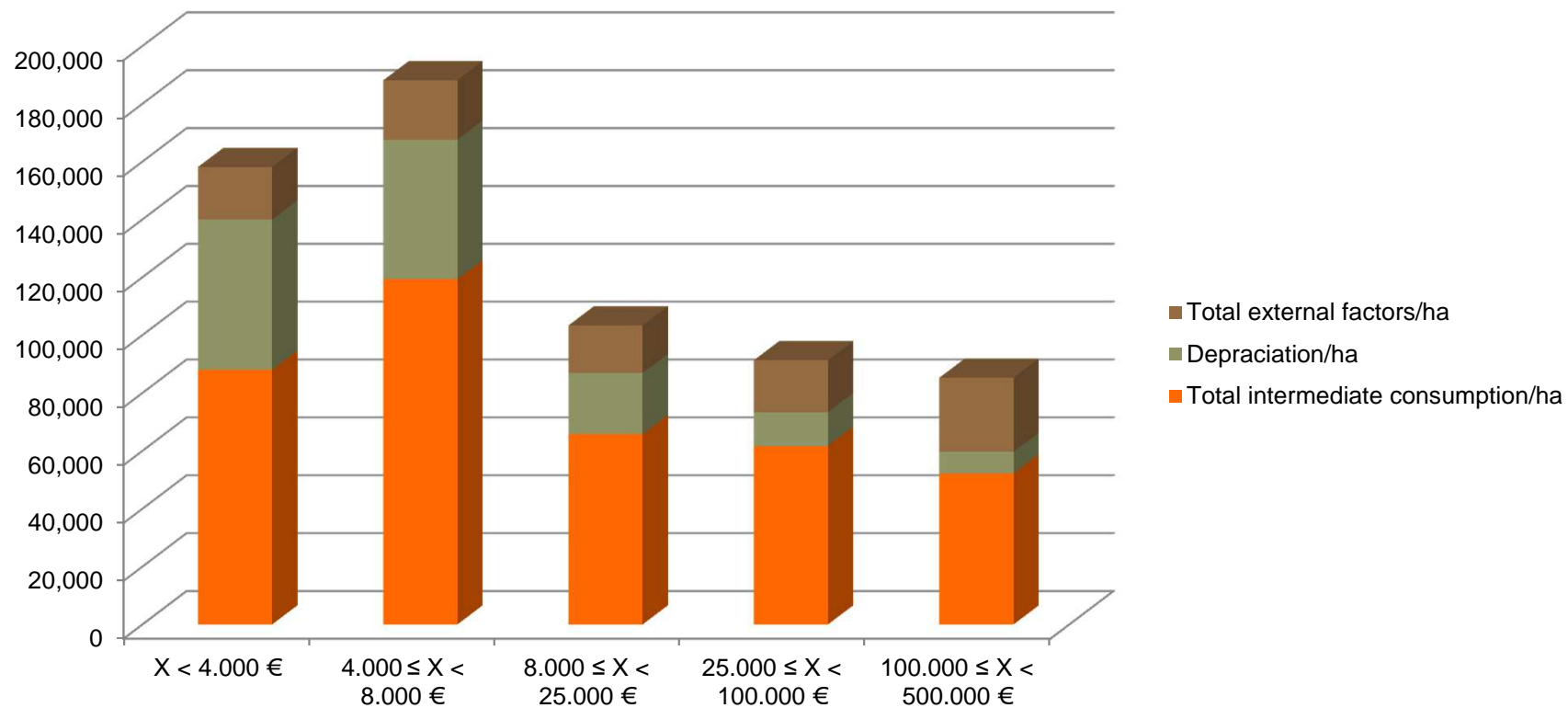


Family farm income/FWU



- Family farm income per family work unit (Unpaid labour) increase proportional together with reising of economic size of the holding

Total inputs structure

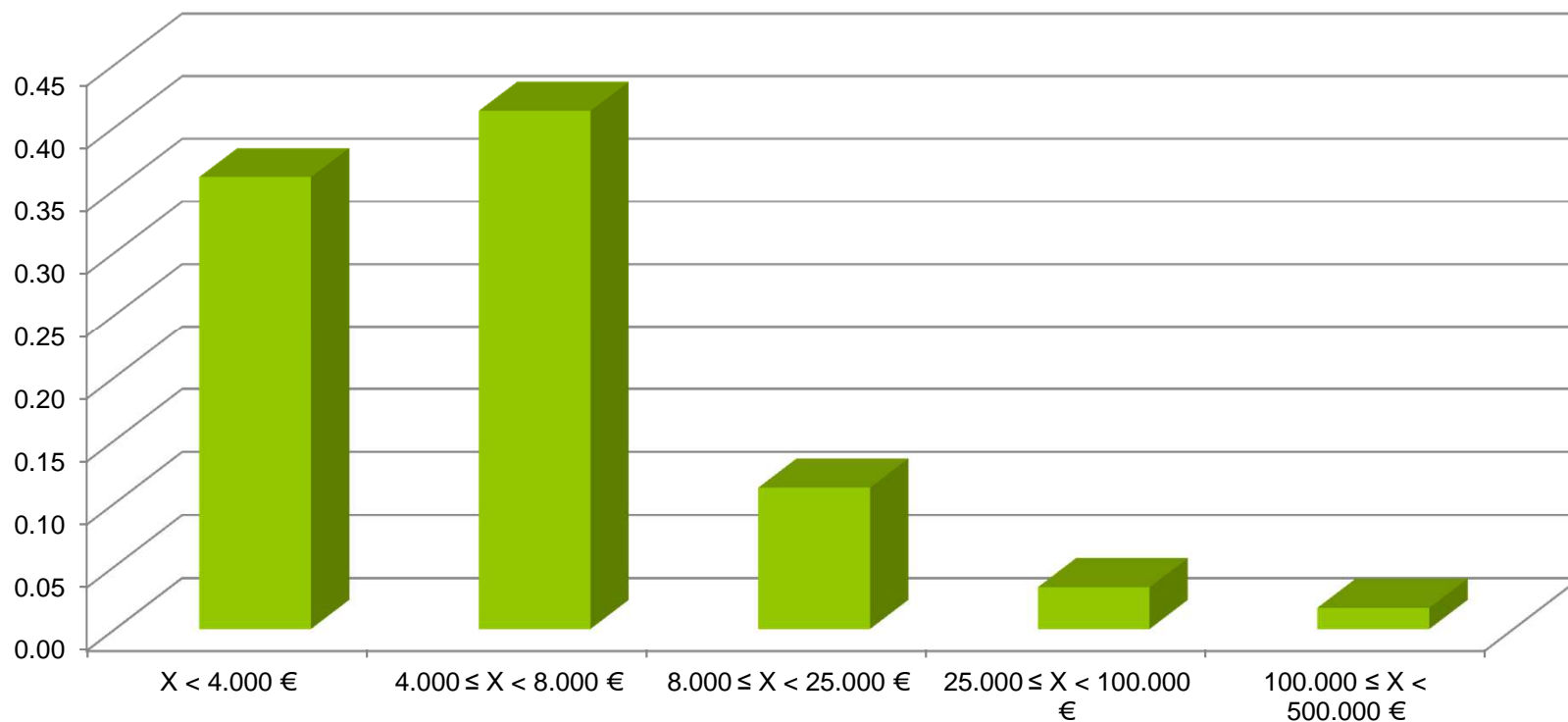


- Holdings in bigger size groups have lower input per hectare (factor of efficiency)

Specialist cropping

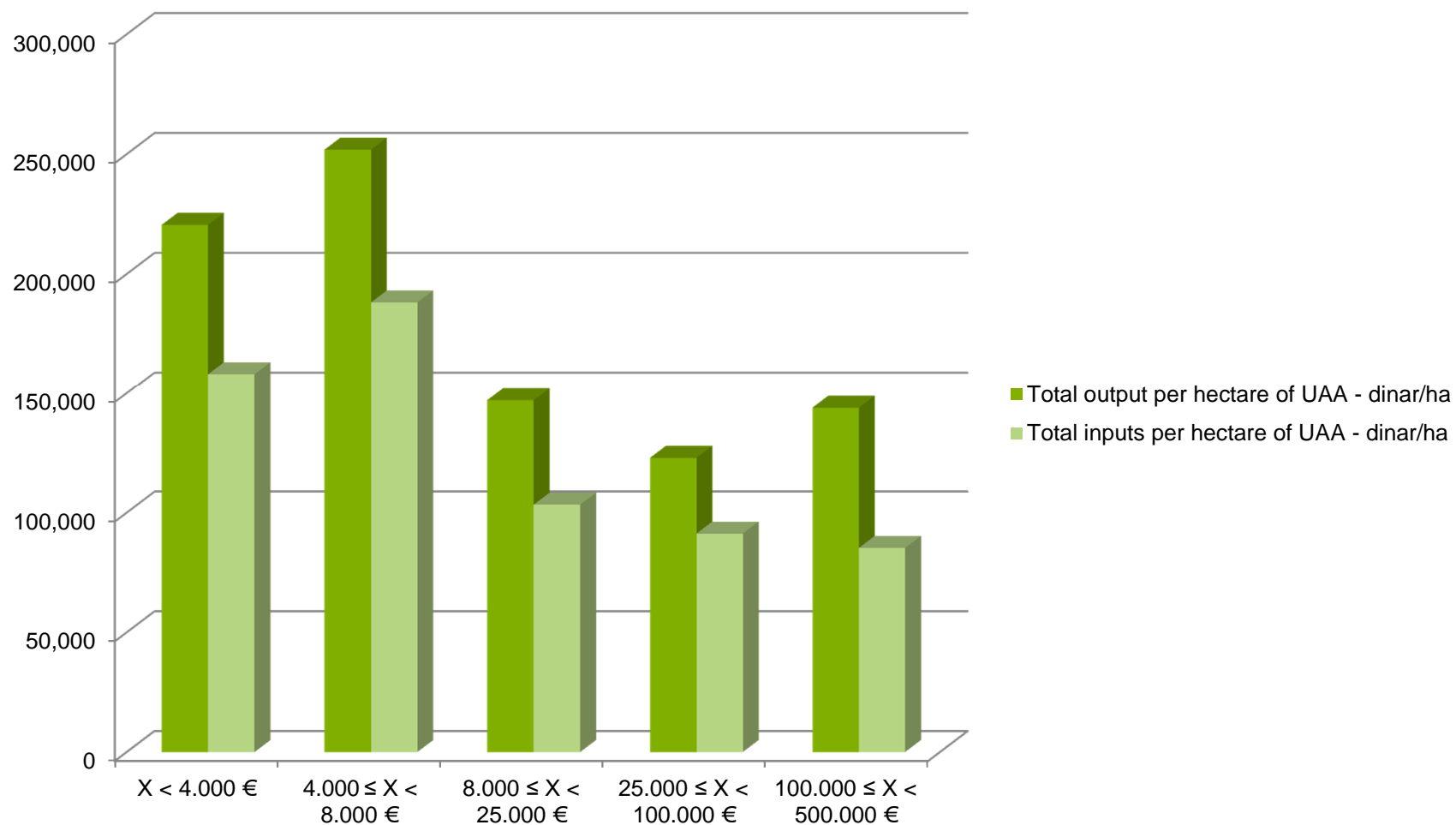


Labour - AWU/ha

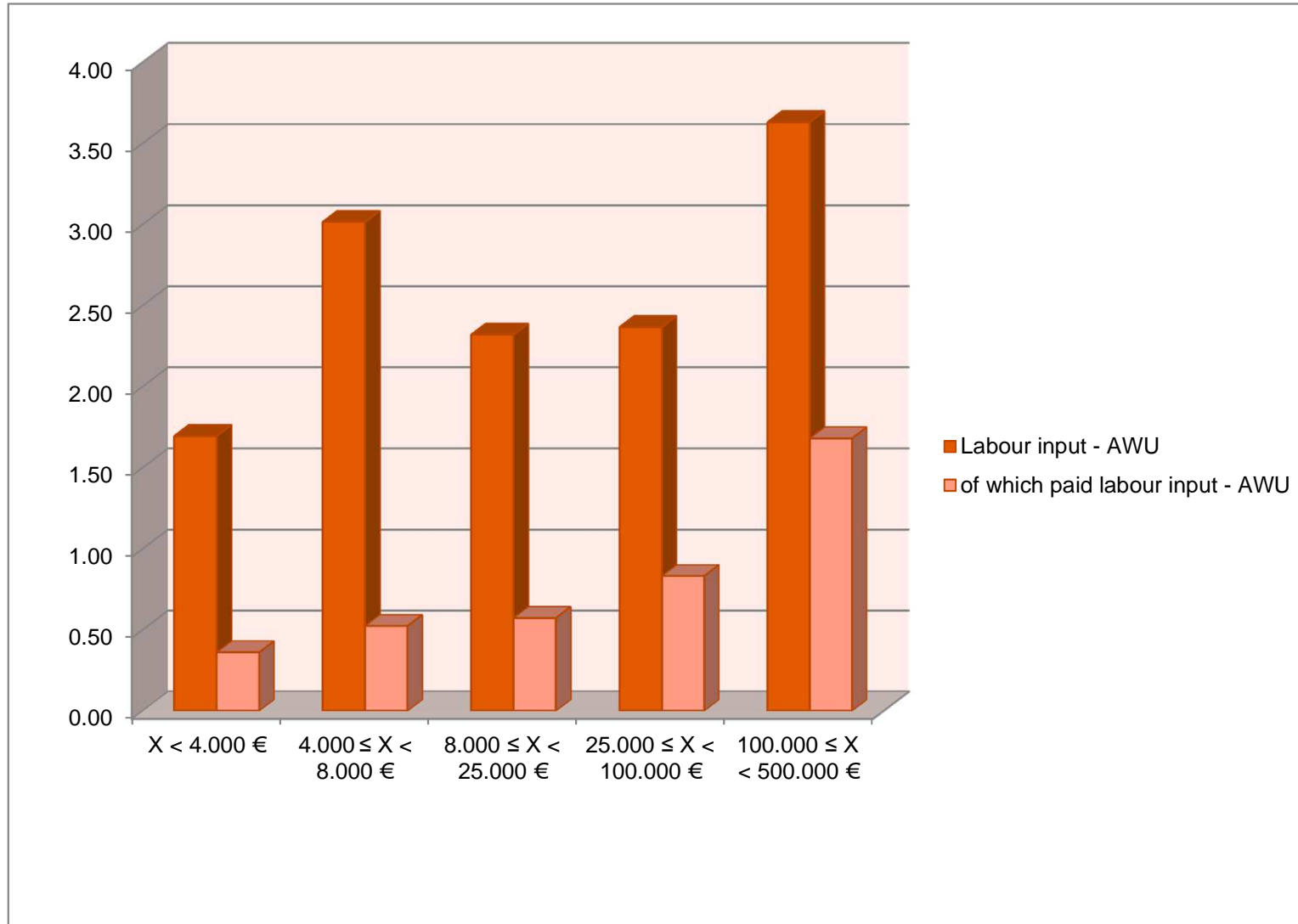


- Smaller farms have bigger labour input per hectare comparing to holdings from bigger size group. Bigger holdings use labour more efficient.

Specialist cropping – economic coefficient (input/output)



Labour input on specialist cropping farms



Average results for specialist dairying farms



	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 500.000 €	Average
Number of farms in sample	6	48	23	77
General indicators				
Labour input - AWU	2,54	2,63	3,88	3,00
of which paid labour input - AWU	0,15	0,05	1,07	0,36
Total utilised agricultural area (UAA) - ha	11,18	15,01	42,68	22,98
Maize	0,88	2,30	9,90	4,46
Wheat	1,23	1,59	8,21	3,54
Other cereals	0,58	0,84	1,94	1,15
Potatoes	0,00	0,06	0,00	0,04
Forage crops	4,74	9,35	15,90	10,94
Vegetables	0,00	0,00	0,00	0,00
Permanent crops	0,72	0,19	0,00	0,18
Other agricultural land	3,03	0,68	6,73	2,67
Average number of livestock				
Dairy cows	4,52	9,61	27,90	14,68
Breeding sows	0,00	0,38	0,87	0,50
Pigs for fattening	0,00	1,22	2,72	1,57
Ewes	0,00	1,39	0,39	0,99
Yield of maize - t/ha	7,22	6,22	6,03	6,21
Yield of wheat - t/ha	4,74	4,48	4,26	4,43
Milk production per cow - kg/cow	4.514	4.144	5.356	4.535

Average results for specialist dairying farms



	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 500.000 €	Average
Number of farms in sample	6	48	23	77
Balance sheet (dinars) - the end of the year				
+ Total fixed assets	27.024.242	13.460.381	27.310.414	18.654.328
Land, permanent crops & quotas	22.783.754	5.860.701	10.137.990	8.457.013
Buildings	2.065.404	3.766.955	6.671.265	4.501.888
Machinery	1.570.417	2.322.211	5.921.494	3.338.740
Breeding livestock	604.667	1.510.513	4.579.665	2.356.687
+ Total current assets	702.443	1.194.391	4.412.119	2.117.197
= Total assets	27.726.685	14.654.772	31.722.533	20.771.525
- Total liabilities	0	28.841	1.762.782	544.524
Long & medium-term loans	0	19.731	1.522.893	467.190
Short-term loans	0	9.110	239.889	77.334
= Net worth	27.726.685	14.625.931	29.959.751	20.227.001

Average results for specialist dairying farms



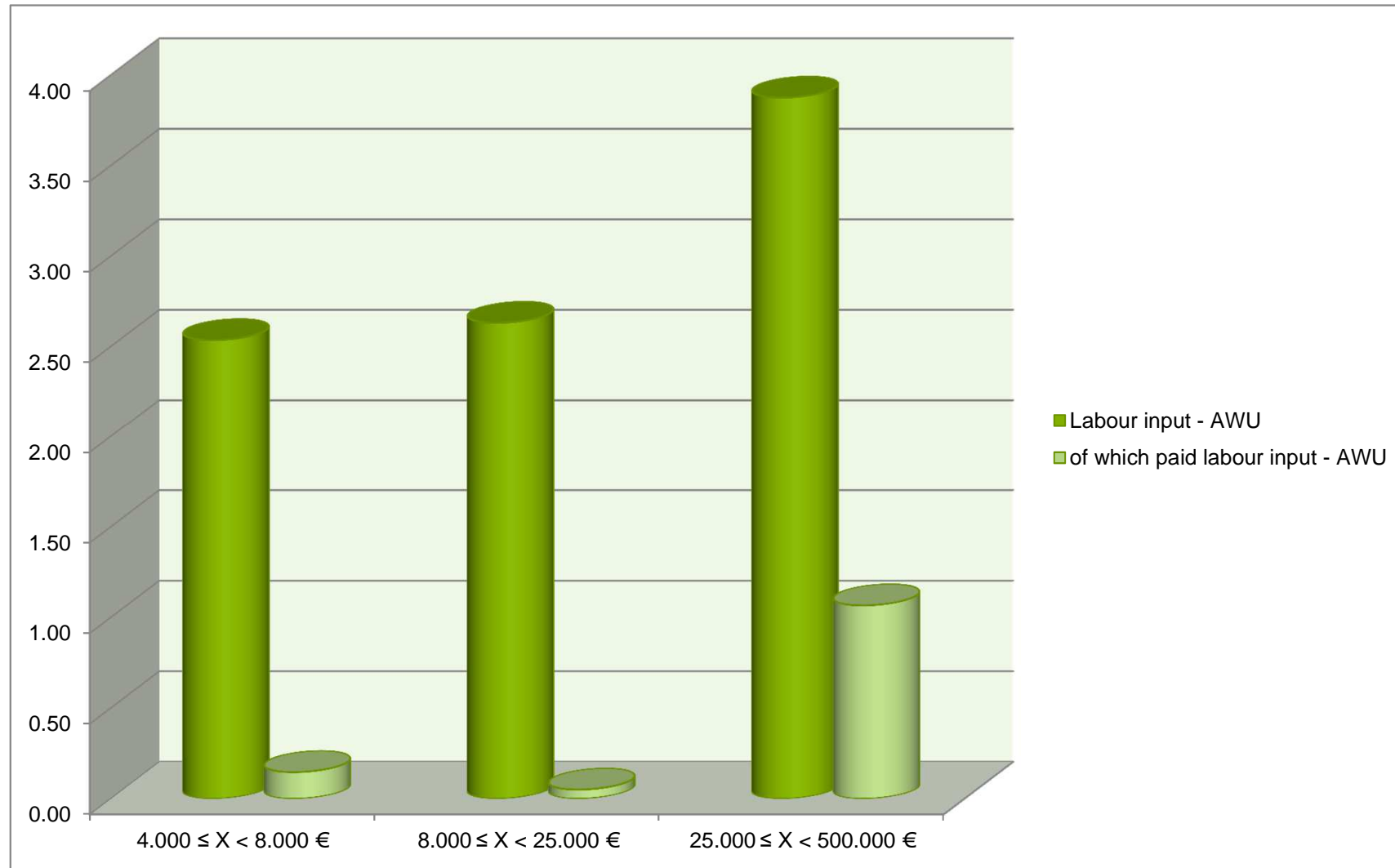
	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 500.000 €	Average
Number of farms in sample	6	48	23	77
Financial indicators (dinars)				
+ Total output	1.745.266	3.669.013	11.227.824	5.776.937
Crop production	826.324	1.631.510	3.749.467	2.201.405
Livestock production	918.942	2.022.711	7.478.357	3.566.312
Other production	0	14.792	0	9.221
- Total intermediate consumption	850.239	2.485.600	7.802.660	3.946.382
Specific costs	655.355	2.138.999	6.431.291	3.305.503
Farming overheads	194.884	346.601	1.371.369	640.878
+ Balance current subsidies & taxes	141.148	409.749	1.944.698	847.311
= Gross Farm Income	1.036.175	1.593.162	5.369.863	2.677.866
- Depreciation	199.428	326.041	737.246	439.003
= Farm Net Value Added	836.746	1.267.121	4.632.616	2.238.863
+ Balance subsidies & taxes on investments	0	3.702	0	2.308
- Total external factors	152.333	70.857	1.260.171	432.456
Wages paid	123.667	19.729	263.178	100.547
Rent paid	28.667	44.988	675.452	232.036
Interest paid	0	6.140	321.541	99.873
= Family Farm Income	684.413	1.199.966	3.372.445	1.808.715

Average results for specialist dairying farms

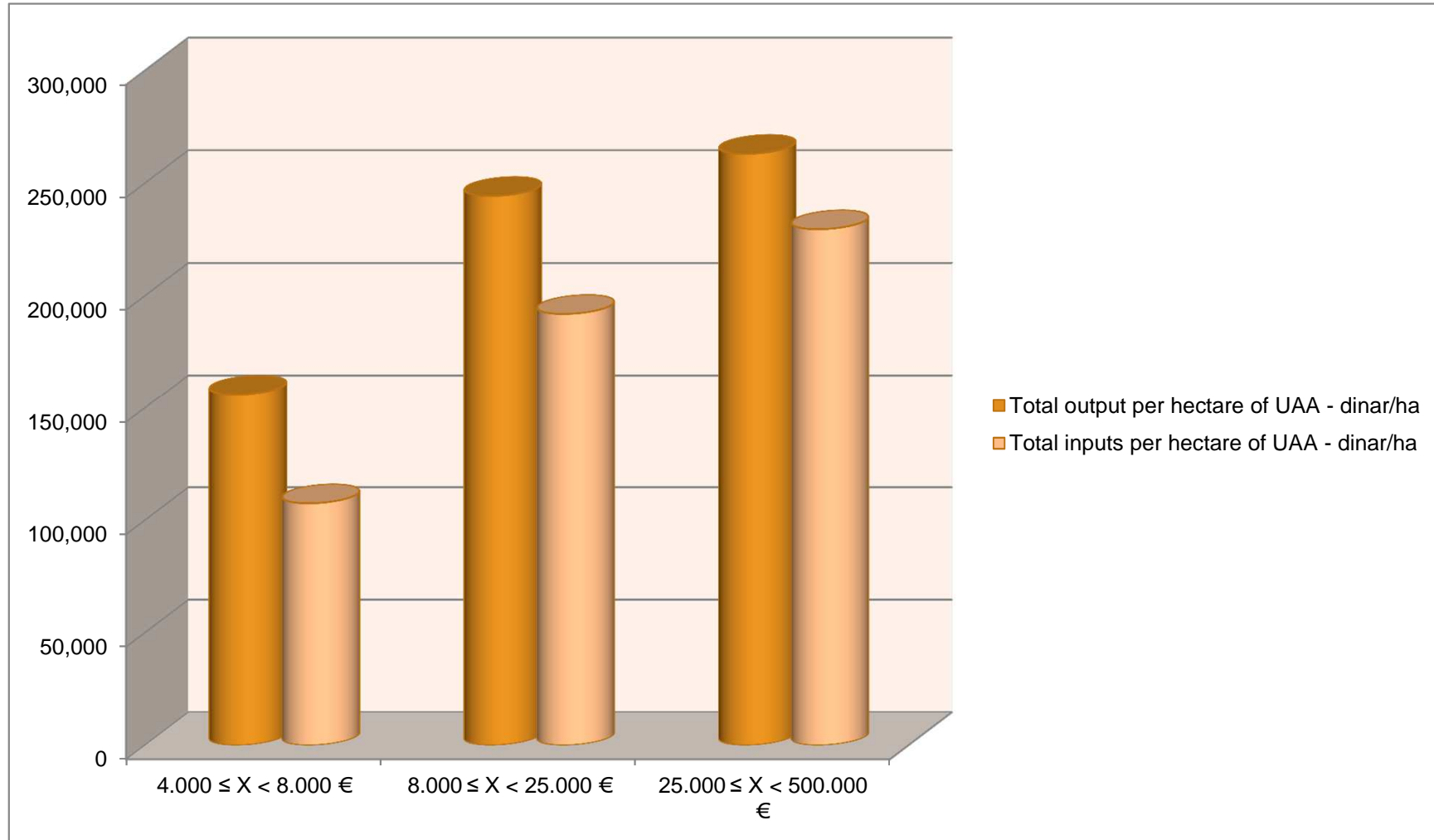


	4.000 ≤ X < 8.000 €	8.000 ≤ X < 25.000 €	25.000 ≤ X < 500.000 €	Average
Number of farms in sample	6	48	23	77
Additional data				
Total output per hectare of UAA - dinar/ha	156.129	244.377	263.040	251.387
Total inputs per hectare of UAA - dinar/ha	107.530	191.991	229.592	209.651
Output-input ratio (total output/total input)	1,45	1,27	1,15	1,20
Total subsidies (excl. on invest.) per ha of UAA - dinar/ha	15.278	32.881	49.755	36.549
Gross Investment in fixed assets per ha of UAA - dinar/ha	3.279	5.986	20.008	9.964
Debt ratio (total debt/total assets) - %	0,00%	0,20%	5,56%	2,62%
Family Farm Income /Net worth - %	2,47%	8,20%	11,26%	8,94%

Specialist dairying farms- labour input



Specialist dairying farms - economic coefficient



Thank you



Пројекат финансира
Европска Унија



Република Србија
МИНИСТАРСТВО ПОЉОПРИВРЕДЕ
И ЗАШТИТЕ ЖИВОТНЕ СРЕДИНЕ