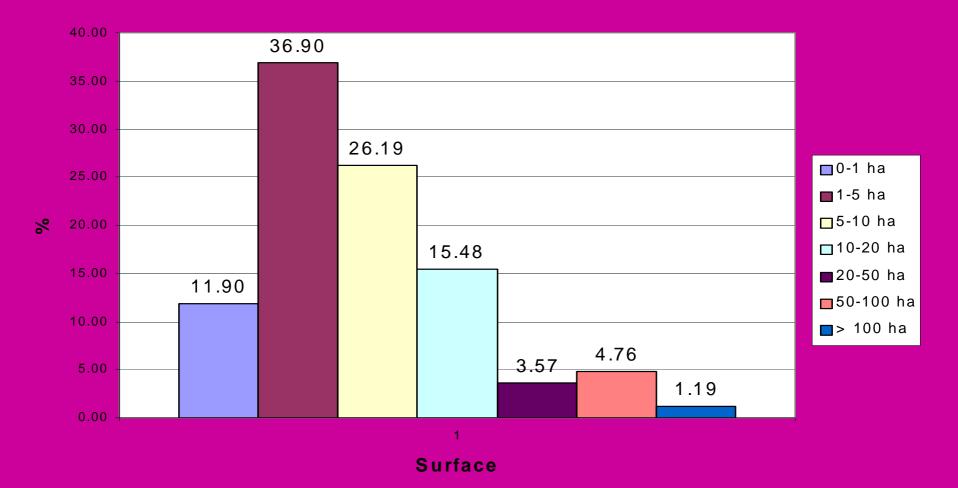
University of Agriculture and Veterinary Medicine 27/05/2006 Cluj-Napoca, Romania

Sabau Marius Mircea

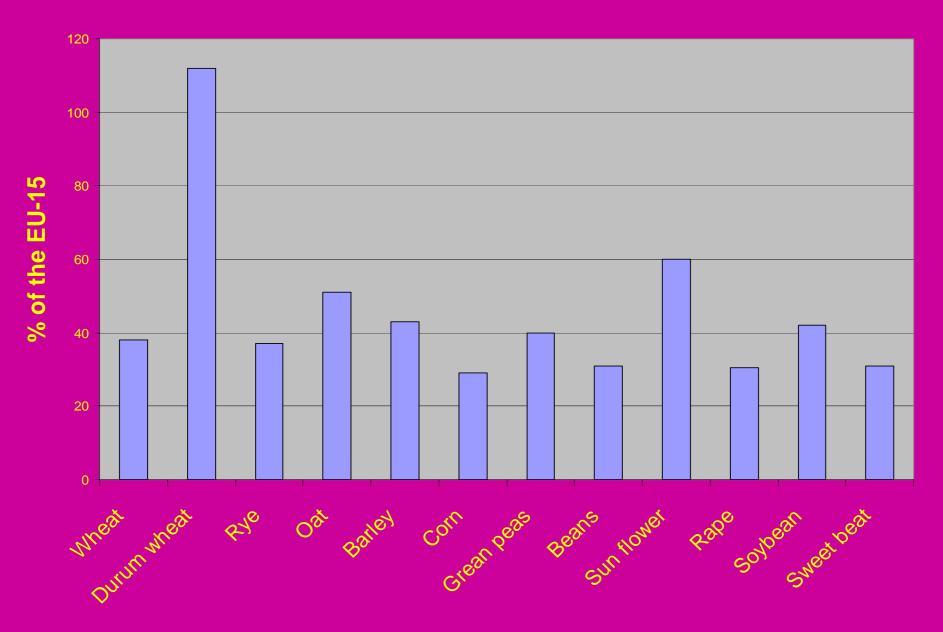
# **MATERIAL AND METHODS**

- 100 questionnaires were administered to BIOTERRA -association members, 93 were considered valid
- the questions concern the structure and the size of cultivated surfaces and also the obtained yields
- questionnaires were aleatory distributed

# Fig. 1: Distribution of holdings by size (ha)



#### The Romanian yields compared with EU yields



#### Comparative yields for wheat

In 2003 were obtained 2340 kg/ha

Yields/YEAR (kilos/ha)	1990	1991	<b>1992</b>	1993	1994	1995	1996
Private sector	2837	2333	2015	2189	2427	2957	1569
Total agriculture	3212	2507	2188	2321	2535	3082	1760

Yields/YEAR (kilos/ha)	1997	1998	1999	2000	2001	2002	2003
Private sector	2795	2437	2656	2172	3016	1917	1425
Total agriculture	2964	2561	2776	2280	3034	1923	1428

One-Sample Test									
Test Value = 2340									
				Mean	95% Cor Interva Differ	l of the			
	t	df	ig. (2-tailed)	Difference	Lower	Upper			
Wheat priva	008	13	.994	-1.07	-286.45	284.31			
Wheat total	.917	13	.376	129.36	-175.39	434.11			

#### Comparative yields for oat

In 2003 were obtained 1640 kg/ha

Yields/YEAR (kilos/ha)	1990	1991	<b>1992</b>	1993	<b>1994</b>	1995	1996
Private sector	1375	1167	1479	1370	1516	1685	1233
Total agriculture	1622	1230	1671	1519	1487	1693	1242

Yields/YEAR (kilos/ha)	1997	1998	1999	2000	2001	2002	2003
Private sector	1506	1591	1578	1057	1750	1375	1336
Total agriculture	1485	1588	1570	1050	1743	1368	1334

One-Sample Test								
Test Value = 1640								
				Mean	95% Cor Interva Differ	l of the		
	t	df	Sig. (2-tailed)	Difference	Lower	Upper		
Oat private	-4.024	13	.001	-210.14	-322.97	-97.32		
Oat total	-3.123	13	.008	-168.43	-284.95	-51.91		

# Comparative yields for barley

In 2003 were obtained 1940 kg/ha

Yields/YEAR (kilos/ha)	1990	1991	<b>1992</b>	1993	1994	1995	1996
Private sector	2692	2551	2246	2099	2563	2809	1839
Total agriculture	3577	2899	2670	2437	2718	3122	2149

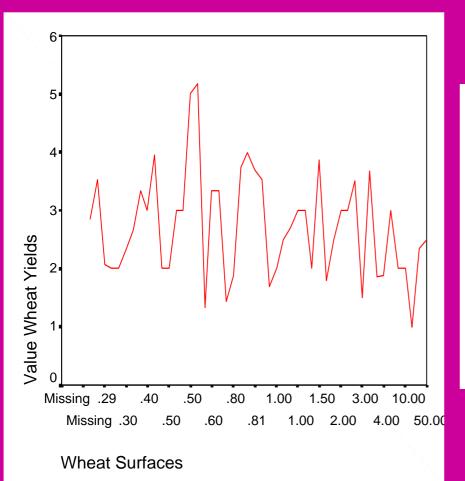
Yields/YEAR (kilos/ha)	1997	1998	1999	2000	2001	2002	2003
Private sector	2614	2205	2275	1876	2897	2011	1643
Total agriculture	3016	2394	2451	2105	2988	2005	1641

One-Sample Test									
Test Value = 1940									
	95% Confidence Interval of the Difference								
	t	df	Sig. (2-tailed)	Difference	Lower	Upper			
Barley priva	3.552	13	.004	368.57	144.42	592.72			
Barley total	4.663	13	.000	643.71	345.48	941.95			

### Comparative results

Organic	Conv	Multi-	Organic	Conv	Multi-
2003	2003	annual	2003	2003	annual
Wheat	>	=	Sun	>	>
			flower		
Rye	>	=	Potatoes	=	>
Oat	>	>	Fodder	<	<
			corn		
Corn	>	>	Sugar	>	>
			beat		
Barley	>	<	Meat	<	<

# Correlation between surfaces and yields for wheat



Correlation	าร	
		Wheat
	/heat Yield	Surfaces
Wheat Yield Pearson Corre	1.000	177
Sig. (2-tailed)		.229
N	48	48
Wheat Surfa Pearson Corre	177	1.000
Sig. (2-tailed)	.229	
N	48	48

# CONCLUSIONS

- 1. Unlike to western agriculture, we cannot assess for Romania that the yields (kg/ha) are lower for the ecological agriculture than for conventional agriculture
- 2. The production yield do not seem to be influenced by the size of cultivated surface
- 3. From the points no. 1 and 2 results that Romanian agriculture is less technologies intensive, the techniques of intensive agriculture beeing used on a small scale.
- 4. Taking in account also the market the Ecological Agriculture seems to be a valid alternative -in Romania- for conventional agriculture

THANK YOU FOR YOUR 27/05/2006 ATTENTION