



The use of existing administrative data of CAP recipients for FADN purposes

Searching for an alternative of FSS

Andras Molnar, PhD

Farm Business Analysis Department

Research Institute of Agriculture Economics

Do we miss any land/livestock?

Missing areas under CAP

	FSS	SAPS
UAA2007	4 228 581 ha	5 101 033 ha
UAA2010	4 610 331 ha	4 966 912 ha
UAA2013	4 589 439 ha	4 945 206 ha

Uncertain livestock figures

- FSS registers stock, that does not necessary reflect avg. annual heads
 - Significant seasonal differences
 - Avg. annual head might significantly higher for quick rotation livestock (poultry, pig finishing)
 - Does not count the fact of „aging” (switching between age groups)



FSS2010 National

Methodological Report (NMR)

Due to significant structural changes in Hungarian agriculture data of 2007 (based on results AC2000) should be handled carefully. Statistically they are correct but as they were not full scope information available regarding the whole population, the reality could differ from the aggregated figures. Part of the permanent grassland reported in 2007 as unutilised agricultural area could be reused again due to economical reasons.

Structural dynamics?

The case of switching between specialist horticulture (22x) and specialist field crops (15x+16x)

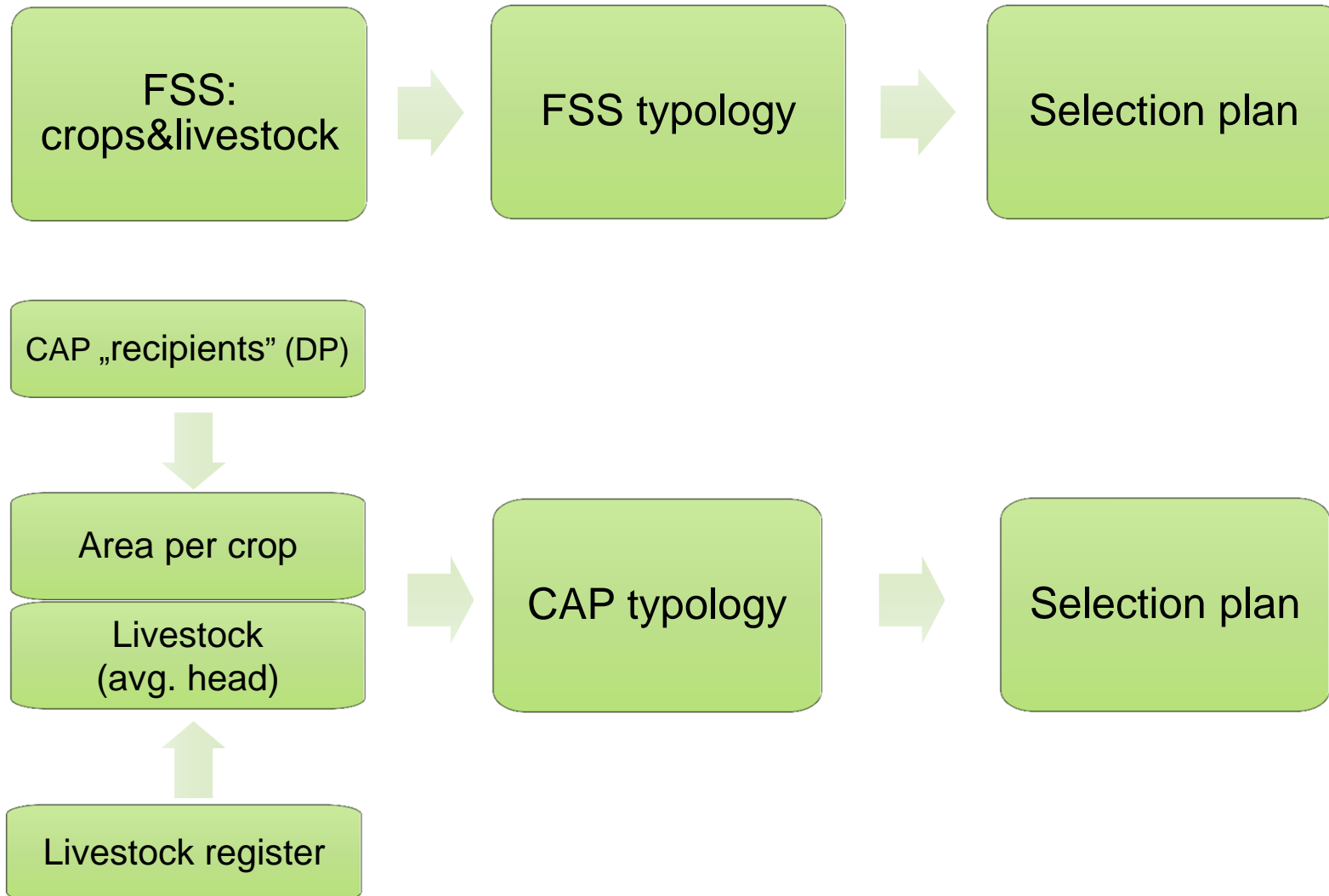
- Assuming no change in SO, it requires to check the change of area for „Field scale fresh vegetables, melons and strawberries grown in the open” + „Flowers and ornamental plants grown in the open (excluding nurseries)” and „Cereals+oil seeds+pulse”

		2007	2008	2009	2010	2011	2012	2013
Open field hort. area	IACS	87 773	79 861	75 206	66 182	69 338	72 148	67 800
	FSS	45 198			42 412			58 710*
Cereals +oil seeds +pulse	IACS	3 630 255	3 657 713	3 643 924	3 513 145	3 464 992	3 524 703	3 640 810
	FSS	3 017 260			3 132 102			3 220 366

*including market gardening and under glass area

Flow diagram

- FADN field of observation (above 4000€)
- SO2007





Uncertainties related to livestock identification database

Inconsistency of the database:

- Missing data (no guarantee for complete records)
- Multiple events (not necessary in chronological order)
- Unreliable separators

Calculation of avg. annual heads:

- Cattle: „dairy or not”
- Sheep: „lambled or not”
- Pig: „calculated” breeding sows
- Poultry: „laying hen or broiler”



Preliminary results for 2007

Population (SO>4000€)

Selection plan (Neyman)

CAP recipients

	Size class 3	Size class 4-5	Size class 6-7	Size class 8-9	Size class 10-11	Size class 12-14	SUM		Size class 3	Size class 4-5	Size class 6-7	Size class 8-9	Size class 10-11	Size class 12-14	SUM
Field crop	22 289	21 952	10 071	3023	287	157	57 779	Field crop	163	322	307	192	23	28	1035
Hort.(cover)	3	150	301	78	12	6	550	Hort.(cover)	0	2	9	6	1	2	19
Hort.(open)	1541	2083	1080	239	39	18	5000	Hort.(open)	11	31	31	16	3	4	97
Grapes	1974	1497	371	51			3893	Grapes	14	22	11	3	-	-	50
Permanent	2438	2668	1104	199	11	1	6421	Permanent	18	40	33	13	1	-	105
Dairy	318	1487	1581	460	64	260	4170	Dairy	2	22	48	33	5	90	201
Grazing	2211	2825	1471	228	17	8	6760	Grazing	16	42	44	14	1	1	119
Pigs	342	559	311	162	40	78	1492	Pigs	2	8	10	11	3	43	78
Poultry	3	34	194	272	79	122	704	Poultry	0	1	6	20	7	57	91
Mixed	844	1346	601	163	16	99	3069	Mixed	6	20	18	11	1	49	105
SUM	31 963	34 601	17 085	4875	565	749	89 838	SUM	234	510	518	318	46	274	1 900

FSS2007

	Size class 3	Size class 4-5	Size class 6-7	Size class 8-9	Size class 10-11	Size class 12-14	SUM		Size class 3	Size class 4-5	Size class 6-7	Size class 8-9	Size class 10-11	Size class 12-14	SUM
Field crop	11 991	13 555	8186	2350	280	166	36 527	Fieldcrop	88	204	253	164	23	35	766
Hort.(cover)	1260	1553	709	78		8	3608	Hort.(cover)	9	24	22	5	-	0	60
Hort.(open)	1696	1412	716	236	40	38	4138	Hort.(open)	13	21	22	16	3	10	85
Grapes	1968	1331	334	42	2		3677	Grapes	14	20	10	3	0	-	47
Permanent	2051	2054	817	144	10	2	5078	Permanent	15	30	25	10	1	0	81
Dairy	1757	3923	1582	235	73	157	7727	Dairy	13	57	49	17	6	44	186
Grazing	2962	2852	1304	182	8	6	7314	Grazing	22	43	41	12	1	1	119
Pigs	2210	1092	311	137	30	87	3868	Pigs	16	16	10	10	3	30	84
Poultry	3020	1491	462	346	93	108	5520	Poultry	22	21	15	26	8	48	139
Mixed	14 276	7779	1374	192	40	159	23 820	Mixed	104	110	40	14	3	62	333
SUM	43 191	37 041	15 795	3943	576	731	101 277	SUM	315	545	486	276	47	230	1 900

Pros & Cons

- Promptly available on yearly bases
- Easier to link with other detailed CAP data
- Land use data at parcel level, possibility to link with LPIS, GIS analysis
- Missing minor livestock: rabbits, bees
- Can't handle „merged farms” (FSS does promise)
- Livestock register uncertainties
- Requires development of livestock head calculation



Thank you for your
attention!