

Standard Output and typology

Component C: Infrastructures for Agricultural Statistics

Activity C.2 Methodology for the implementation of the recommendations adopted regarding the establishment of farms frame
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Topics

- SO codes
- SO coefficients
- Calculations – examples
- Classification
 - Regrouping codes and classification tables
 - Examples from account statistic

List of valid SO codes

Annex 4: List of valid SO codes for crop and livestock characteristics from FSS 2010

New FSS Code	Old FSS Code ²²	Unit: Euro per	Label
2.01.01.01	D01	ha	Common wheat and spelt
2.01.01.02	D02	ha	Durum wheat
2.01.01.03	D03	ha	Rye
2.01.01.04	D04	ha	Barley
2.01.01.05	D05	ha	Oats
2.01.01.06	D06	ha	Grain maize
2.01.01.07	D07	ha	Rice
2.01.01.99	D08	ha	Other cereals for the production of grain
2.01.02	D09	ha	Dried pulses and protein crops for the production of grain (including seed and mixtures of cereals and pulses)
2.01.02.01	D09E	ha	Peas, field beans and sweet lupins
2.01.02.99		ha	Other dried pulses and protein crops for the production of grain
2.01.03	D10	ha	Potatoes (including early potatoes and seed potatoes)
2.01.04	D11	ha	Sugar beet (excluding seed)
2.01.05	D12	ha	Fodder roots and brassicas (excluding seed)
2.01.06.01	D23	ha	Tobacco

SO coefficients

- 5 years average divided by regions
- SO coefficients are reported to eurostat
 - Only for years with FSS
- Values reported:
 - Main product: quantity, price and value in national currency
 - Secondary product: value in national currency
 - Other main product: quantity, price and value in national currency
 - Replacement value (animals) in national currency
 - **SO in national currency and in EURO**

Calculations - crops



D/01 Wheat, Denmark	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005							
	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average	2013	2012	2011	2010	2009	2008	2007
Gross output per ha													
Quantity, hkg	72,00	70,21	70,91	72,30	71,11	69,58		72,91	65,13	65,25	78,76	77,97	63,94
Price per hkg, DKK	124,33	121,44	113,46	102,15	105,21	100,73		168,93	132,52	132,59	78,69	108,94	154,44
Value per ha, DKK	8 858,23	8 369,75	7 915,90	7 282,94	7 412,07	6 930,52		12 317,20	8 630,63	8 651,97	6 197,56	8 493,77	9 874,83
Byproduct- straw, DKK	608,80	563,40	525,80	497,80	485,60	482,00		+ 765,00	648,0	600,0	526,0	505,0	538,0
Total output, DKK./ha	9 467,03	8 933,15	8 441,70	7 780,74	7 897,67	7 412,52		13082,2	9278,6	9252,0	6723,6	8998,8	10412,8

Numbers from Accounts Statistics for Agriculture – means all farms

Numbers from Economics of Agricultural activities – single product

Calculations - crops



D/01 Wheat, Denmark	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005							
	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average	2013	2012	2011	2010	2009	2008	2007
Gross output per ha													
Quantity, hkg	72,00	70,21	70,91	72,30	71,11	69,58	72,91	65,13	65,25	78,76	77,97	63,94	
Price per hkg, DKK	124,33	121,44	113,46	102,15	105,21	100,73	168,93	132,52	132,53	73,58	108,94	154,44	
Value per ha, DKK	8 858,23	8 369,75	7 915,90	7 282,94	7 412,07	6 930,52	12 317,20	8 630,63	8 651,97	6 197,56	8 493,77	9 874,83	
Byproduct- straw, DKK	608,80	563,40	525,80	497,80	485,60	482,00	765,00	648,0	600,0	526,0	505,0	538,0	
Total output, DKK./ha	9 467,03	8 933,15	8 441,70	7 780,74	7 897,67	7 412,52	13082,2	9278,6	9252,0	6723,6	8998,8	10412,8	

Numbers from Accounts Statistics for Agriculture – means all farms

Numbers from Economics of Agricultural activities – single product

Calculations – dairy cows



	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005	2013	2012	2011	2010	2009	2008	2007
J/07 Dairy cows, Denmark	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average							
Gross output per head													
<i>Increase of meat</i>													
Quantity, heads	0,4	0,4	0,4	0,4	0,4	0,4	→	0,4	0,4	0,4	0,4	0,4	0,4
Price per head, DKK	4695,4	4421,5	4233,9	4042,3	3828,0	3494,6		5695,9	5112,3	4318,3	3845,0	4505,4	4326,3
Value, DKK	1972,1	1856,2	1776,5	1695,4	1617,6	1460,0		2392,3	2147,2	1813,7	1614,9	1892,3	1812,7
<i>Other main produkt, milk</i>													
Quantity, kg	8399,2	8336,7	8346,5	8315,9	8263,9	8203,7		8540,4	8359,2	8497,1	8353,9	8245,3	8228,1
DKK pr kg	2,6	2,6	2,4	2,4	2,4	2,3		2,7	2,7	2,5	2,2	2,9	2,5
Value, DKK	21788,9	21264,9	20407,8	19845,1	19871,8	18883,6		22876,6	22976,9	21343,5	18080,6	23667,1	20256,6
<i>Byproduct, new born calves</i>													
Quantity, heads	1,0	1,0	1,0	1,0	1,0	1,0	→	1,0	1,0	1,0	1,0	1,0	1,0
Price per headd, DKK	717,0	707,6	792,4	817,2	840,1	896,9	→	855,0	833,0	708,0	658,0	531,0	808,0
Value, DKK	738,5	728,0	814,1	838,9	865,3	923,3		880,7	858,0	729,2	677,7	546,9	828,2
Specific costs per head													
<i>Replacement</i>													
Quantity, heads	0,4	0,4	0,4	0,4	0,4	0,4	→	0,4	0,4	0,4	0,4	0,4	0,4
Price per head, DKK	8142,3	8051,5	7772,9	7548,2	7099,5	6547,8		7939,3	7728,3	7495,4	8383,8	9164,7	7485,3
Value, DKK	3256,9	3249,0	3161,7	3096,0	2968,1	2733,4		3175,7	3091,3	2998,1	3353,5	3665,9	3136,3
Total output, DKK per head	21242,6	20600,0	19836,8	19283,4	19386,6	18533,5		22973,8	22890,7	20888,3	17019,7	22440,5	19761,1

Calculations – dairy cows



	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005	2013	2012	2011	2010	2009	2008	2007
J/07 Dairy cows, Denmark	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average							
Gross output per head													
<i>Increase of meat</i>													
Quantity, heads	0,4	0,4	0,4	0,4	0,4	0,4		0,4	0,4	0,4	0,4	0,4	0,4
Price per head, DKK	4695,4	4421,5	4233,9	4042,3	3828,0	3494,6		5695,9	5112,3	4318,3	3845,0	4505,4	4326,3
Value, DKK	1972,1	1856,2	1776,5	1695,4	1617,6	1460,0	+	2392,3	2147,2	1813,7	1614,9	1892,3	1812,7
<i>Other main produkt, milk</i>													
Quantity, kg	8399,2	8336,7	8346,5	8315,9	8263,9	8203,7		8540,4	8359,2	8497,1	8353,9	8245,3	8228,1
DKK pr kg	2,6	2,6	2,4	2,4	2,4	2,3		2,7	2,7	2,5	2,2	2,9	2,5
Value, DKK	21788,9	21264,9	20407,8	19845,1	19871,8	18883,6	+	22876,6	22976,9	21343,5	18080,6	23667,1	20256,6
<i>Byproduct, new born calves</i>													
Quantity, heads	1,0	1,0	1,0	1,0	1,0	1,0		1,0	1,0	1,0	1,0	1,0	1,0
Price per headd, DKK	717,0	707,6	792,4	817,2	840,1	896,9		855,0	833,0	708,0	658,0	531,0	808,0
Value, DKK	738,5	728,0	814,1	838,9	865,3	923,3	+	880,7	858,0	729,2	677,7	546,9	828,2
Specific costs per head													
<i>Replacement</i>													
Quantity, heads	0,4	0,4	0,4	0,4	0,4	0,4		0,4	0,4	0,4	0,4	0,4	0,4
Price per head, DKK	8142,3	8051,5	7772,9	7548,2	7099,5	6547,8		7939,3	7728,3	7495,4	8383,8	9164,7	7485,3
Value, DKK	3256,9	3249,0	3161,7	3096,0	2968,1	2733,4	-	3175,7	3091,3	2998,1	3353,5	3665,9	3136,3
Total output, DKK per head	21242,6	20600,0	19836,8	19283,4	19386,6	18533,5		22973,8	22890,7	20888,3	17019,7	22440,5	19761,1

Calculations – bovine males 1-2 years

	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005							
	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average							
J/03 Bovine, 1-2 years, males, Denmark													
							Animals per year = 1 / ((age slaughter - 365) / 365)						
							2013	2012	2011	2010	2009	2008	2007
Gross output per head													
<i>Increase of meat</i>													
Quantity, heads	4,1	4,1	4,8	5,5	5,8	6,3	→ 4,1	4,1	4,0	4,1	4,2	4,4	
Price per head, DKK	6524,3	6164,2	5602,6	5181,8	5011,5	4447,9	→ 7369,1	6879,9	6239,9	6033,4	6099,4	5568,3	
Value, DKK	26715,7	25500,1	25842,8	26653,9	27090,9	26357,1		30564,8	27901,7	24756,3	24468,7	25886,8	24487,2
Specific costs per head													
<i>Replacement</i>													
Quantity, heads	4,1	4,1	4,8	5,5	5,8	6,3	→ 4,1	4,1	4,0	4,1	4,2	4,4	
Price per head, DKK	5157,0	4833,4	4457,0	4231,4	4165,7	3800,3	→ 6017,8	5618,0	4770,2	4560,1	4819,0	4399,6	
Value, DKK	21123,2	20000,7	20856,4	22242,6	22992,3	22953,4		24960,2	22784,0	18925,2	18493,9	20452,6	19347,7
Total output, DKK per head	7055,1	5839,6	4986,4	4411,3	4098,6	3403,7		11217,1	6818,5	5831,1	5974,8	5434,2	5139,5

Calculations – bovine males 1-2 years

	SO 2010	SO 2009	SO 2008	SO 2007	SO 2006	SO 2005								
J/03 Bovine, 1-2 years, males, Denmark	2010 5 year average	2009 5 year average	2008 5 year average	2007 5 year average	2006 5 year average	2005 5 year average	2013	2012	2011	2010	2009	2008	2007	
Gross output per head														
Increase of meat														
Quantity, heads	4,1	4,1	4,8	5,5	5,8	6,3		4,1	4,1	4,0	4,1	4,2	4,4	
Price per head, DKK	6524,3	6164,2	5602,6	5181,8	5011,5	4447,9		7369,1	6879,9	6239,9	6033,4	6099,4	5568,3	
Value, DKK	26715,7	25500,1	25842,8	26653,9	27090,9	26357,1	+	30564,8	27901,7	24756,3	24468,7	25886,8	24487,2	
Specific costs per head														
Replacement														
Quantity, heads	4,1	4,1	4,8	5,5	5,8	6,3		4,1	4,1	4,0	4,1	4,2	4,4	
Price per head, DKK	5157,0	4833,4	4457,0	4231,4	4165,7	3800,3		6017,8	5618,0	4770,2	4560,1	4819,0	4399,6	
Value, DKK	21123,2	20000,7	20856,4	22242,6	22992,3	22953,4	-	24960,2	22784,0	18925,2	18493,9	20452,6	19347,7	
Total output, DKK per head	7055,1	5839,6	4986,4	4411,3	4098,6	3403,7		5604,6	5117,7	5831,1	5974,8	5434,2	5139,5	

Conversion to Euro

- All SO coefficients are converted into Euro
 - Used exchange rate are a 5 years means



Ready for classification

- Place hectare and animals at valid SO codes
- Calculate SO from each activity
- Calculate main groups

Regrouping codes

- P45. *Cattle, dairying* = 3.02.01. (bovine animals under one year old male and females) + 3.02.03. (bovine animals, one but less than two years old, female) + 3.02.05. (heifers, two years old and over) + 3.02.06. (dairy cows).
- P46. *Cattle* = P45 (cattle, dairying) + 3.02.02. (bovine animals, one but less than two years old, male) + 3.02.04. (male bovine animals two years old and over) + 3.02.99. (other cows).
- GL *Grazing livestock* = 3.01. (equidae) + P46 (cattle) + 3.03.01.01. (sheep breeding females) + 3.03.01.99 (other sheep) + 3.03.02.01. (goats breeding females) + 3.03.02.99. (other goats)
- If FCP1 *Forage for sale* = 2.01.05. (fodder roots and brassicas) + 2.01.09. (plants harvested green) +
GL=0 2.03.01. (pasture and meadow excluding rough grazings) + 2.03.02. (Rough grazings)
- FCP4 *Forage for grazing livestock* = 0
- P17 *Roots* = 2.01.03. (potatoes) + 2.01.04. (sugar beet) + 2.01.05. (fodder roots and brassicas)
- If FCP1 *Forage for sale* = 0
GL>0
- FCP4 *Forage for grazing livestock* = 2.01.05. (fodder roots and brassicas) + 2.01.09. (plants harvested green) + 2.03.01. (pasture and meadow excluding rough grazings) + 2.03.02. (Rough grazings)
- P17 *Roots* = 2.01.03. (potatoes) + 2.01.04. (sugar beet)
- P151. *Cereals without rice* = 2.01.01.01. (common wheat and spelt) + 2.01.01.02. (durum wheat) + 2.01.01.03. (rye) + 2.01.01.04. (barley) + 2.01.01.05. (oats) + 2.01.01.06. (grain maize) + 2.01.01.99. (other cereals for the production of grain)

- P51. *Pigs* = 3.04.01. (piglets of less than 20 kilograms live weight) + 3.04.02. (breeding sows of 50 kilograms or more) + 3.04.99. (other pigs).
- P52. *Poultry* = 3.05.01. (broilers) + 3.05.02. (laying hens) + 3.05.03. (other poultry).
- P1. *General cropping* = P15 (cereals) + 2.01.02. (dried pulses and protein crops) + 2.01.03. (potatoes) + 2.01.04. (sugar beet) + 2.01.06.01. (tobacco) + 2.01.06.02. (hops) + 2.01.06.03. (cotton) + P16 (oilseeds) + 2.01.06.09. (flax) + 2.01.06.10. (hemp) + 2.01.06.11. (other fibre crops) + 2.01.06.12. (aromatic plants, medicinal and culinary plants) + 2.01.06.99. (other industrial crops not mentioned elsewhere) + 2.01.07.01.01. (fresh vegetables, melons, strawberries – outdoor or under low (not accessible) protective cover – open field) + 2.01.10. (arable land and seedlings) + 2.01.11. (other arable land) + 2.01.12.01. (fallow land without any subsidies) + FCP1 (forage for sale)
- P2. *Horticulture* = 2.01.07.01.02. (fresh vegetables, melons, strawberries – outdoor or under low (not accessible) protective cover – market gardening) + 2.01.07.02. (fresh vegetables, melons, strawberries – under glass or other (accessible) protective cover) + 2.01.08.01. (flowers and ornamental plants – outdoor or under low (not accessible) protective cover) + 2.01.08.02. (flowers and ornamental plants – under glass or other (accessible) protective cover) + 2.06.01. (mushrooms) + 2.04.05. (nurseries)
- P3. *Permanent crops* = 2.04.01. (fruit and berry plantations) + 2.04.02. (citrus plantations) + 2.04.03. (olive plantations) + 2.04.04. (vineyards) + 2.04.06. (other permanent crops) + 2.04.07. (permanent crops under glass)
- P4. *Grazing livestock and forage* = GL (grazing livestock) + FCP4 (forage for grazing livestock)
- P5. *Granivores* = P51 (pigs) + P52 (poultry) + 3.06. (rabbits, breeding females)

Main group 5 - granivores

P5	>	2/3	Total SO	5
P51	>	2/3	Total SO	51
3.04.02	>	2/3	Total SO	511
3.04.01 + 3.04.99	>	2/3	Total SO	512
Other cases				513
P52	>	2/3	Total SO	52
3.05.02	>	2/3	Total SO	521
3.05.01 + 3.05.03	>	2/3	Total SO	522
Other cases				523
Other cases				53
Other cases				530

Breeding sows
 Piglets
 Other pigs
 Laying hens
 Broilers
 Other poultry

5. Specialist granivores

51. Specialist pigs

- 511. Specialist pig rearing
- 512. Specialist pig fattening
- 513 Pigs rearing and fattening combined

52. Specialist poultry

- 521. Specialist layers
- 522. Specialist poultry-meat
- 523. Layers and poultry-meat combined

53. Various granivores combined

- 530. Various granivores combined

Thank you for your attention !

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