

General information on feed

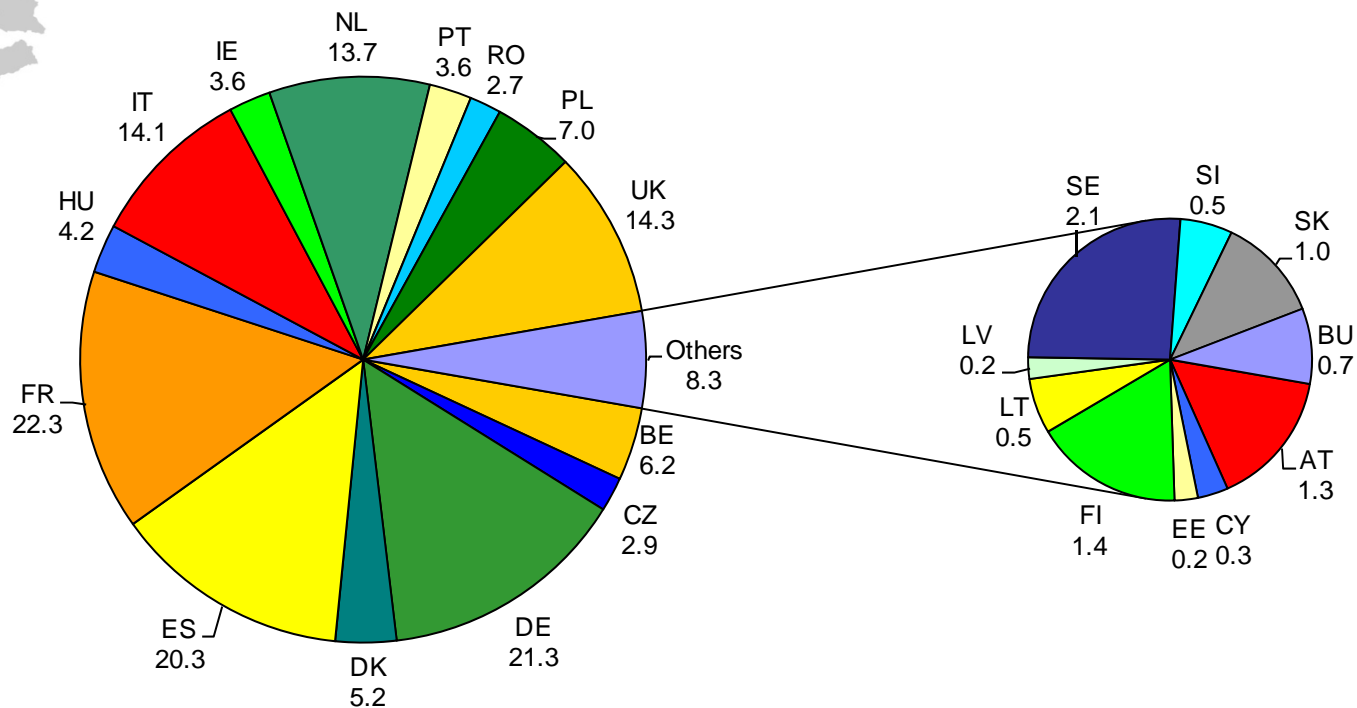
3. CRL workshop, Copenhagen 18./19. September 2008
Cereals and Feeding Stuff.

Finn V. Povlsen, DLG



Industrial compound feed production in EU27 per country

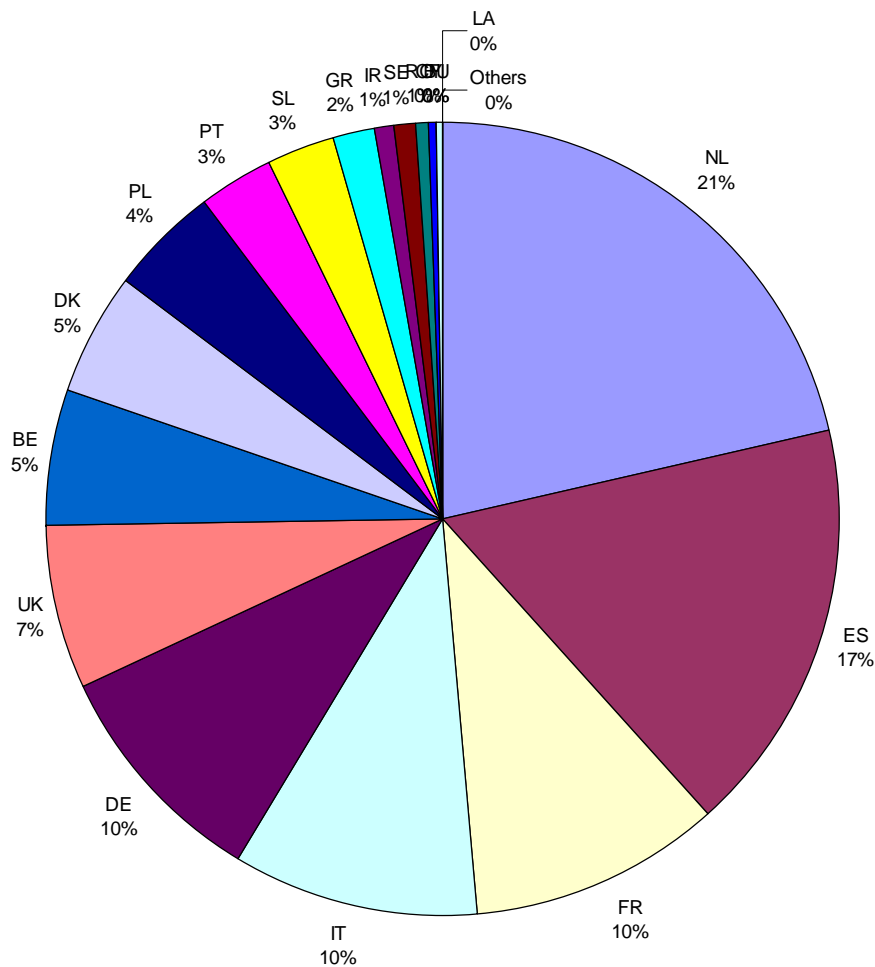
149.7 mill. ton in 2007



Import of soy (as soybean meal) in EU27 per country

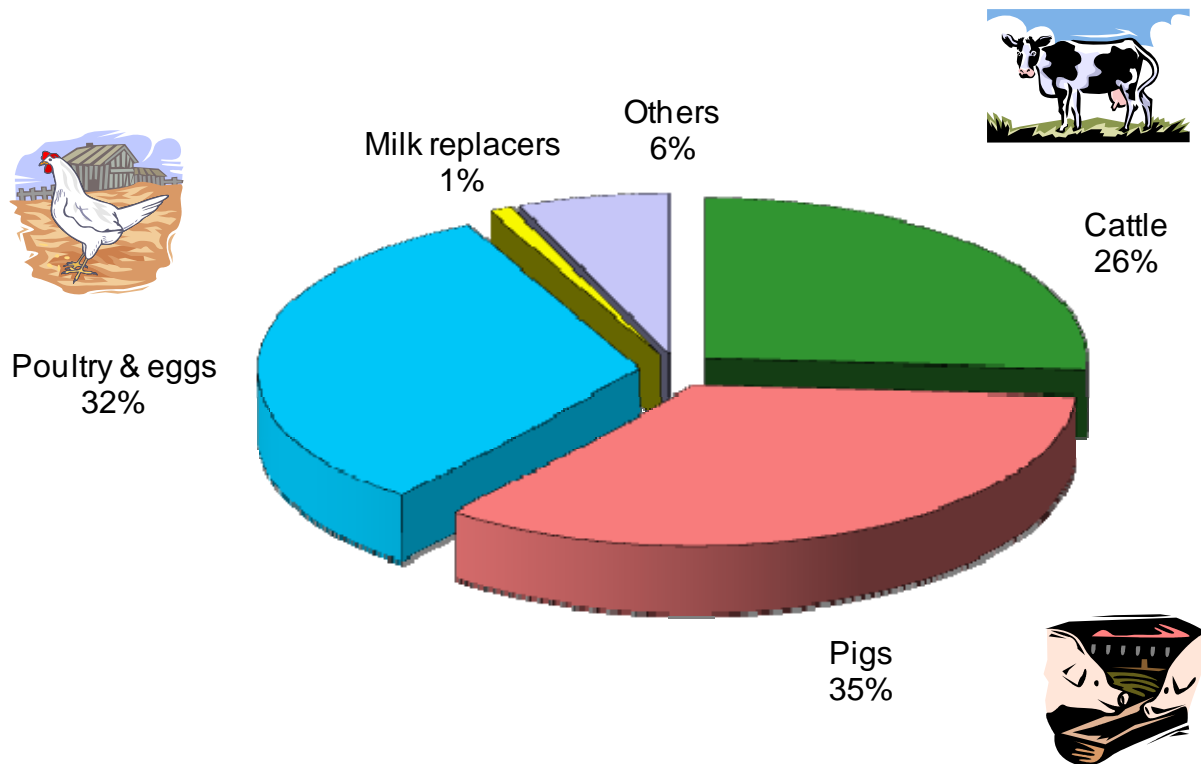


35.5 mill. ton in 2007

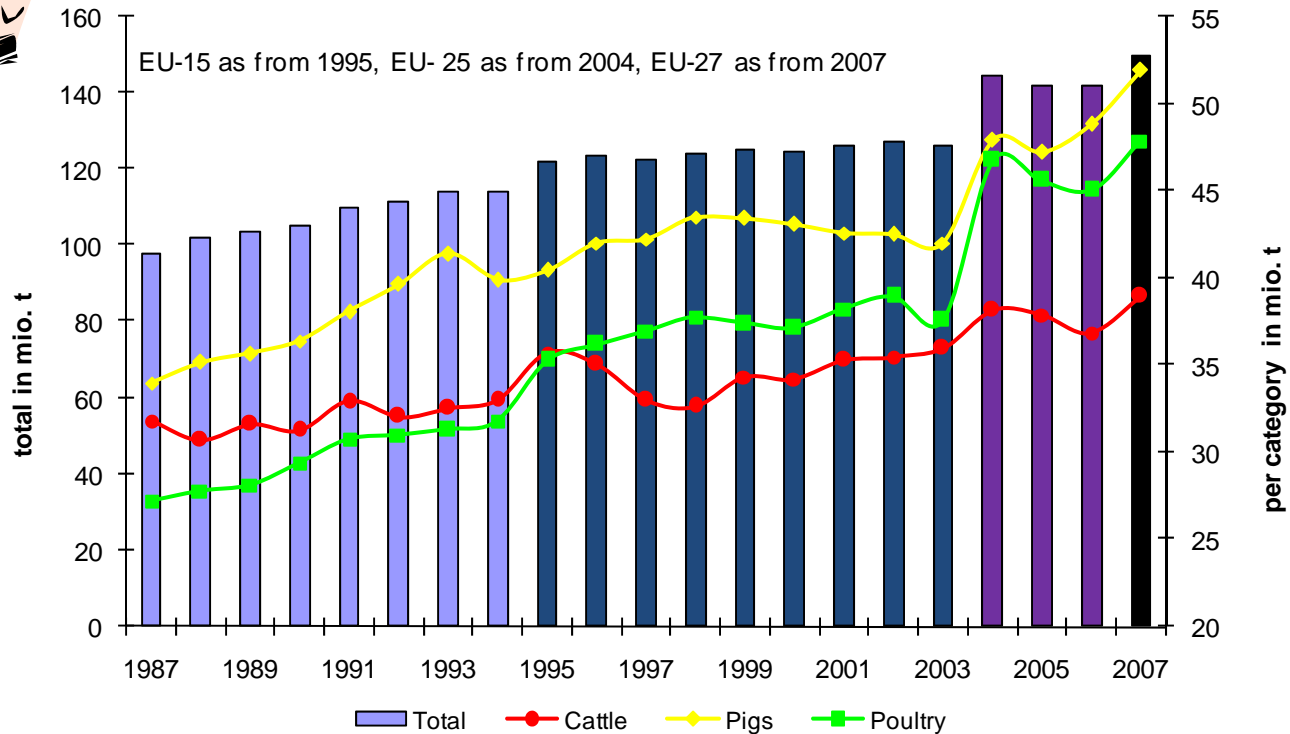


Industrial compound feed production in the EU27 in 2007

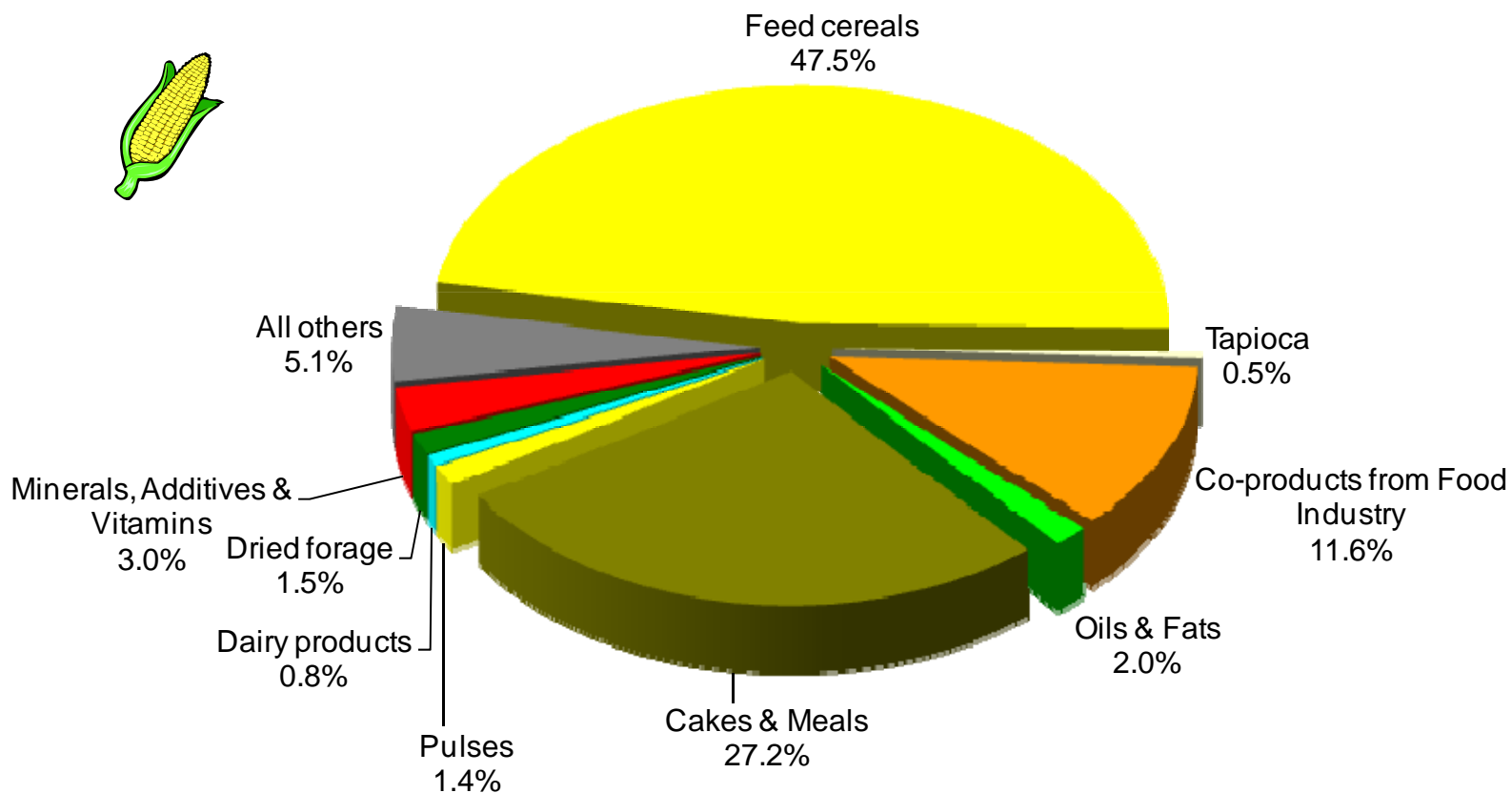
149.7 mill. ton (per category)



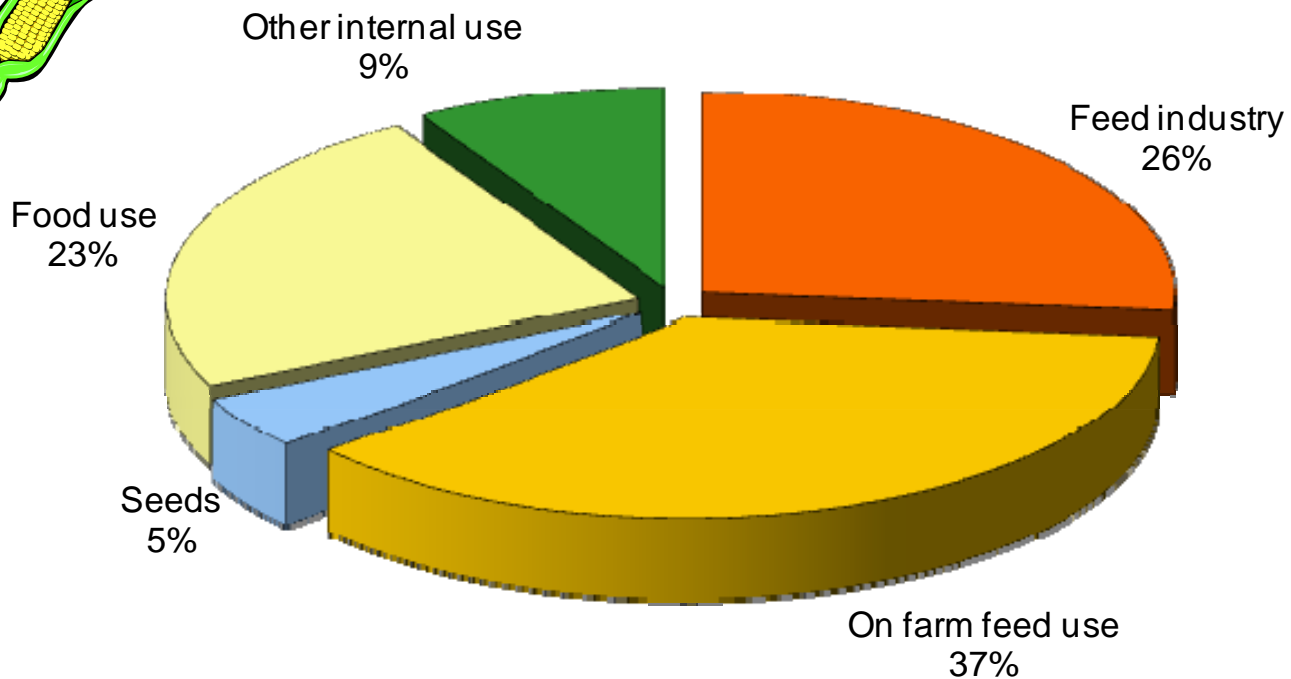
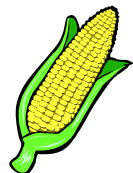
EU27 compound feed production development per category



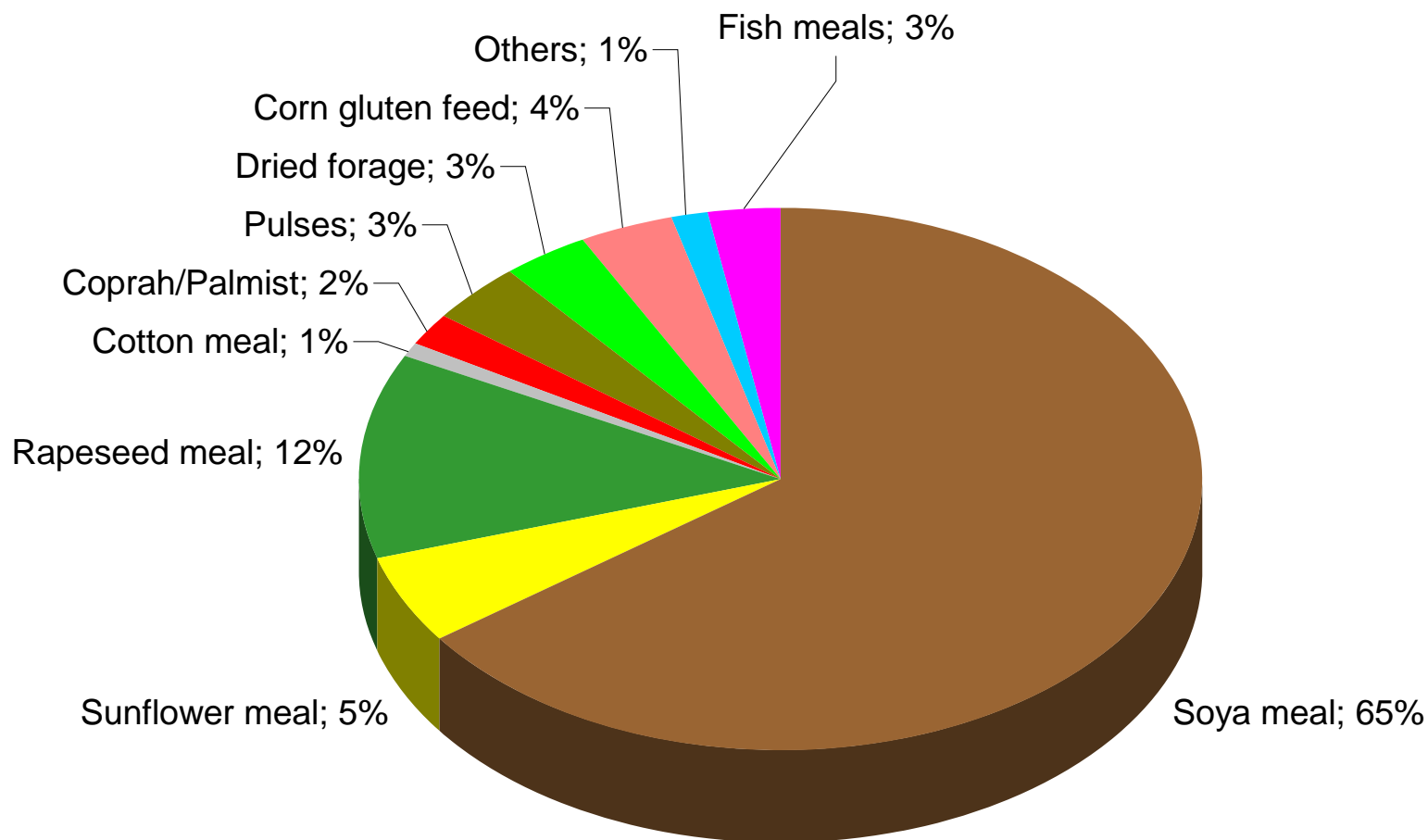
Feed material consumption by the EU27 feed industry in 2007



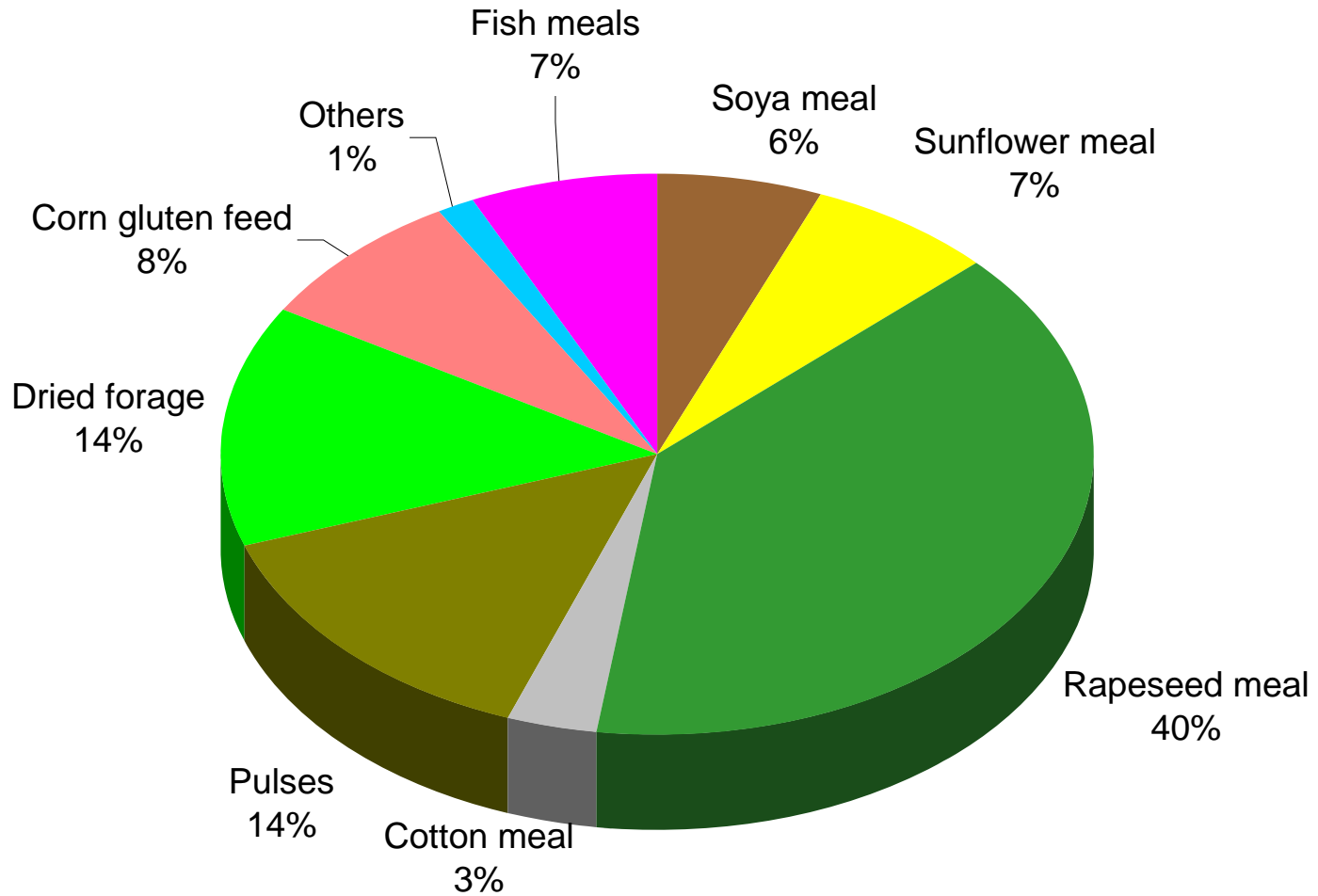
Usage of cereals in the EU27 in 200708



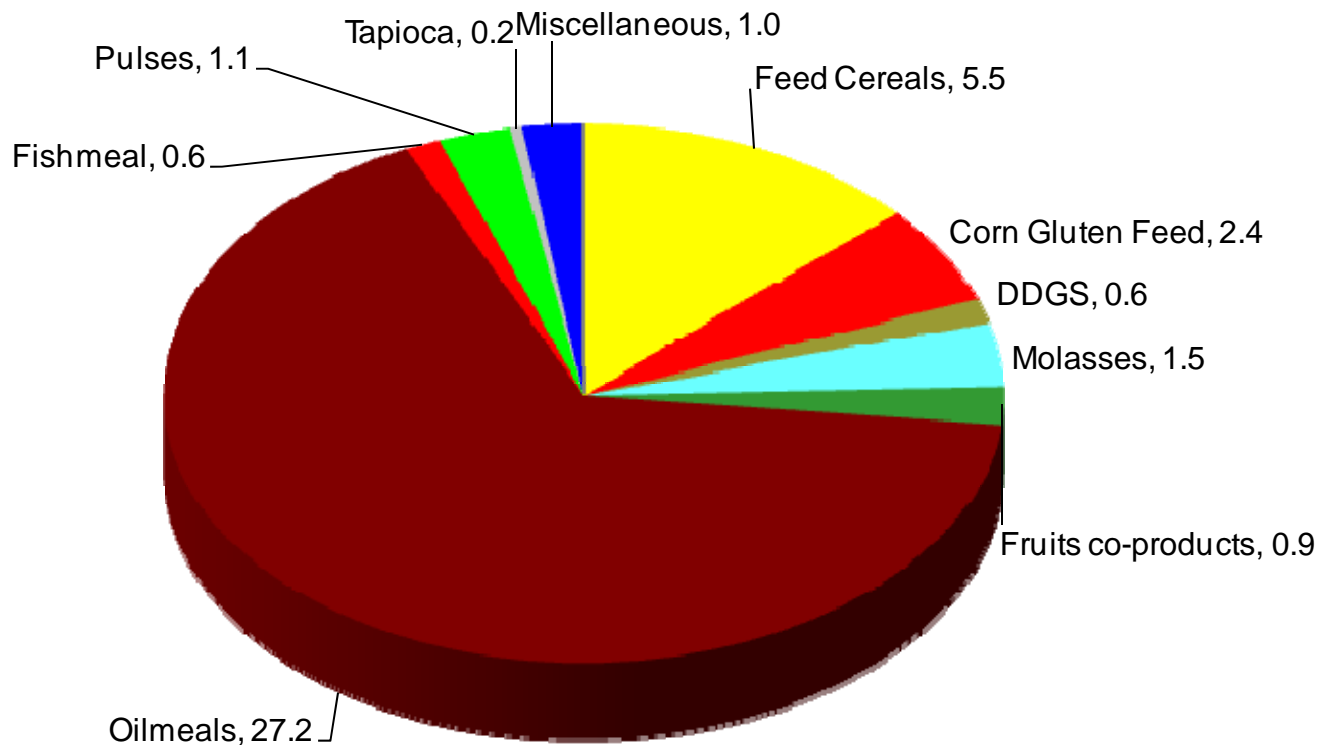
Origin of proteins used for animal feeding in the EU25 in 05/06



Origin of proteins produced for animal use by the EU25 in 05/06



Imports of feed materials in the EU25 in 2006: 41.0 mill.. t

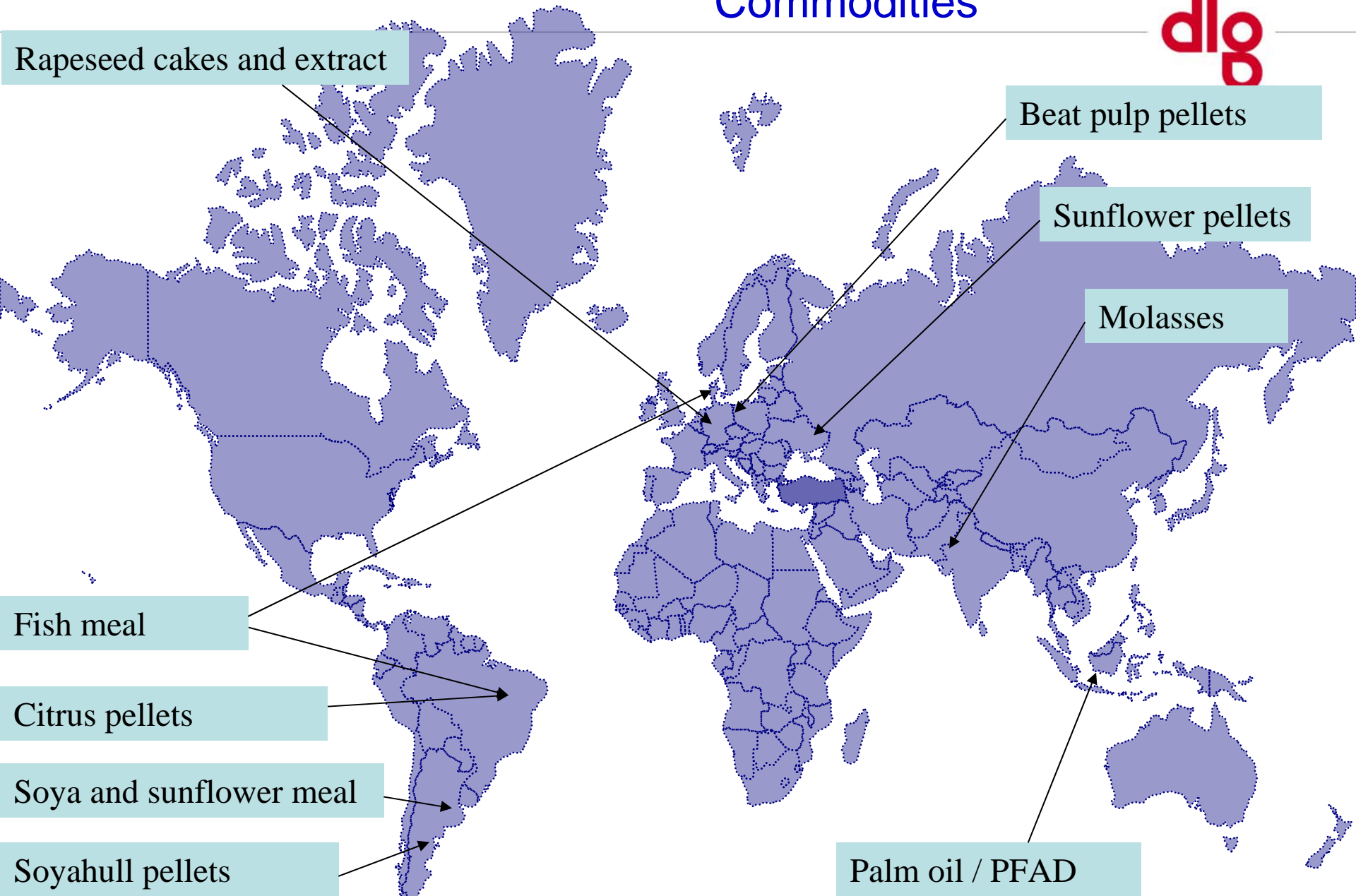


EU25 balance sheet for protein rich feed materials in 05/06

	EU production (*)		EU consumption (**)		Self-sufficiency (protein equivalent)
	Products	Proteins	Products	Proteins	
Soyabean meal	726	319	34,784	15,305	2%
Sunflower meal	1,988	381	4,503	1,225	31%
Rapeseed meal	8,291	2,079	9,254	2,868	72%
Cottonseed meal	512	179	511	198	90%
Copra-Palm meal	0	0	3,130	501	0%
Pulses	3,350	754	3,850	810	93%
Dried forage	4,600	736	4,400	784	94%
Corn gluten feed	2,193	430	4,550	893	48%
Miscellaneous	376	71	1,047	307	23%
Sub-Total	22,036	4,949	66,029	22,891	22%
Fishmeal	521	370	982	651	57%
Total	22,557	5,319	67,011	23,542	23%



Commodities



World market: 112,3 mill. tons

Canada: - 2,6 mill. t

East Centr. Euro: - 2,3 mill. t

EU25: 51,2 mill. t

USA: + 37,7 mill. t

North Africa/Turkey: - 3,2 mill. t

Kina - 23,2 mill. t

Mexico: - 5,6 mill. t

Peru a.o.: + 2,4 mill. t

Far East: - 22,0 mill. t
+ 4,0 mill. t

Brazil: + 38,6 mill. t

Paraguay: + 3,6 mill. t

Argentina: + 28,7 mill. t





Raw materials in Ruminant compound feed

Danish average composition

% of diet	Milkproduction	Milkproduction	Calf
	Low protein	High protein	
Grain, barley or wheat	12,2	2,1	47,0
Corn/Maize	9,6	0,4	4,6
DDGS	7,6	12,2	2,3
Soya hulls	4,5	1,7	1,2
Citrus pulp	7,3	1,5	2,8
Wheat bran	4,4	2,0	4,3
Soybean meal	7,7	19,7	8,4
Sunflower meal	3,0	7,9	2,8
Molasses	1,2	1,5	2,9
Grass pellets	4,5	0,2	1,7
Beet pulp	11,6	2,4	8,6
Rapeseed cakes	6,9	12,1	0,4
Rapeseed extraction	12,8	28,3	9,2
Vegetable fat	2,4	3,9	1,2
Vitamins and minerals	4,3	4,0	2,6



Daily ration for a Danish dairy cow

	Kg Drymatter
Clovergrass-silage	3,5
Maizesilage	9
Straw	0,5
Minerals	0,2
Concentrate	7
Total	20,2



Winter ratio for suckle cows

	Kg Drymatter
Clovergrass-silage	4
Straw	0,5
Minerals	0,2
Concentrate	1
Total	5,7



Raw materials in compound swine feed

Danish average composition



	Finisher	Sows	Piglets
Barley	20,5	27,6	31,5
Wheat	50,9	44,0	37,9
Oats	0,0	5,1	1,3
Sunflowermeal	0,3	0,0	0,0
Rapeseed extraction	4,4	3,2	0,0
Wheat bran	4,2	3,7	0,0
Soyameal	13,0	7,8	18,4
Vegetable fat	1,3	1,7	2,2
Molasses	2,4	2,2	1,5
Fishmeal	0,0	0,0	2,3
Vitamins and minerals	3,0	4,7	4,9

Small amounts of wet and dry by-products are used



Raw materials in Poultry feed

Danish average composition



	Layer	Broiler	Other poultry species
Grain, barley or wheat	61,6	58,0	62,8
Sunflower meal	3,4	0,0	0,4
Peas	0,2	0,0	0,0
Rapeseed	0	3,5	0,2
Wheat bran	0	0,0	0,0
Soyameal	18,8	31,7	27,8
Fishmeal	0	0,0	0,0
Vegetable fat	3,6	3,4	4,0
Vitamins and minerals	12,4	3,4	4,8

In general no use of other components beside these compounds



Summary

Food production of animal origin in EU is highly dependant on import.

- Predominantly of protein crops – soybean by far the most important.

Feed industry is big business – not in € but in ton

- One batch of soybean meal is normally between 40.000 and 100.000 ton

Relatively few major components – but local habits and availability of ex. byproducts may cause variation from the general picture.



Pesticide residues: A challenge for the feed industry

The operators in the food and feed industry are responsible to produce safe feed (or food).

If pesticides are found above MRL the consequences are enormous

- withdrawal from the market, stock in quarantine

Pesticides are used world wide – but not following common legislation.

The use of pesticides in countries outside EU is difficult to follow.

MRL are normally set for pesticides approved and used inside EU.

- i.e. if products in EU are redrawn from the market, MRL are reduced



Pesticide residues: A challenge for the feed industry

Analysis for pesticide residues are difficult

- not all pesticides and residues are covered by authorized methods

Analysis for all possible pesticides not possible

Knowledge of pesticide use outside EU is insufficient



Provisional list of problematic pesticide/ crop combination for Argentina under EU Regulation 396/2005

SOYBEAN:

- acifluorfen
- benazolin
- fenpropratrina
- fentoato
- fenvalerato
- fluazifop
- fluoroglicofen
- haloxyfop
- imazetapyr
- metolaclo-ro
- naptalan
- permetrina
- profenofos
- prometrina
- setoxydim
- endosulfán

SUNFLOWER:

- benazolin
- fenoxaprop
- fenpropratrina
- fentoato
- fenvalerato
- fluazifop
- haloxyfop
- metolaclo-ro
- permetrina
- profenofos
- prometrina
- setoxydim
- endosulfán

MAIZE:

- atrazina
- fentoato
- fenvalerato
- imazetapyr
- metolaclo-ro
- permetrina
- primisulfurón
- setoxydim
- dalapon
- simazina
- endosulfán



Questions ??

I have one:

Why are MRL's the same for feed and food ?

- They are different for ex. heavy metals, mycotoxins and other contaminants.

