

EU + UK Feed Protein Balance Sheet

2015/16	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				
	Protein source	Total EU production (A)	EU imports (B)	EU exports (C)	Total EU domestic use (D)	EU total feed use (E)		Feed use EU origin (F)	EU total feed use (H) = (E) * (G)	Feed use EU origin (I) = (F) * (G)	% feed use of EU origin (I) / (H)	% of total feed use
CROPS						177.8	161.0		18.17	16.68	92%	22%
CEREALS (of which)	311.7	20.8	50.8	281.7	173.4	156.7		17.00	15.53	91%	21%	
Common wheat	151.3	4.1	32.8	122.6	55.5	51.3	11.0%	6.10	5.65			
Barley	61.4	0.3	14.2	47.5	36.3	36.3	10.0%	3.63	3.63			
Durum	8.3	2.5	1.2	9.7	0.6	0.5	12.0%	0.07	0.06			
Maize	59.0	13.5	2.2	70.3	57.3	45.1	8.0%	4.58	3.61			
Rye	7.6	0.0	0.2	7.5	3.0	3.0	11.0%	0.33	0.33			
Sorghum	0.7	0.1	0.0	0.8	0.7	0.6	11.0%	0.08	0.07			
Oats	7.5	0.0	0.2	7.3	5.2	5.2	11.0%	0.57	0.57			
Triticale	12.5	0.0	0.0	12.5	11.0	11.0	11.0%	1.21	1.21			
Others	3.3	0.2	0.0	3.5	3.9	3.7	11.0%	0.43	0.41			
OILSEEDS (feed use without crushing) (columns (E) and (F))	32.1	18.5	0.9	49.7	1.4	1.4		0.42	0.42	100%	1%	
Soya beans	2.4	14.8	0.1	17.0	1.1	1.1	33.0%	0.35	0.35			
Rapeseed	21.8	3.2	0.3	24.7	0.2	0.2	18.8%	0.04	0.04			
Sunflowerseed	7.9	0.5	0.4	8.0	0.2	0.2	14.8%	0.02	0.02			
PULSES (of which)	4.4	0.1	0.7	3.6	2.9	2.9		0.76	0.73	97%	1%	
Field Peas	2.1	0.0	0.5	1.6	1.2	1.2	22.5%	0.28	0.28			
Broad beans	2.0	0.0	0.3	1.5	1.2	1.2	26.0%	0.32	0.32			
Lupins	0.4	0.1	0.0	0.5	0.4	0.4	35.0%	0.16	0.13			
CO-PRODUCTS					87.9	47.1		26.74	10.16	38%	32%	
OILSEED MEALS	29.3	26.4	1.0	54.7	54.5	15.8		21.67	5.40	25%	26%	
SOYA BEAN MEALS (of which)	11.3	20.2	0.3	31.2	31.0	0.9		14.13	0.39	3%	17%	
Soya bean meal (from EU soyabean production)	0.9			0.9	0.9	0.9	43.0%	0.39	0.39			
Soya bean meal (imported soyabeans crushing)	10.1		0.3	9.8	9.6	0.0	45.5%	4.37	0.00			
Soya bean meal (traded as such)		20.2		20.2	20.2	0.0	45.5%	9.19	0.00			
Soya bean Protein Concentrate	0.3			0.3	0.3	0.0	62.5%	0.19	0.00	0%	0%	
RAPESEED MEALS (of which)	13.6	0.4	0.5	13.5	13.5	11.4		4.47	3.75	84%	5%	
Rapeseed meal (from EU rapeseed production)	11.8		0.5	11.4	11.4	11.4	33.0%	3.75	3.75			
Rapeseed meal (imported rapeseed crushing)	1.8			1.8	1.8	0.0	33.0%	0.58	0.00			
Rapeseed meal (traded as such)		0.4		0.4	0.4	0.0	33.0%	0.13	0.00			
SUNFLOWER MEALS (of which)	3.8	3.2	0.2	6.8	6.8	3.4		2.45	1.21	49%	3%	
Sunflower meal (from EU sunflowerseed production)	3.6		0.2	3.4	3.4	3.4	36.0%	1.21	1.21			
Sunflower meal (imported sunflowerseed crushing)	0.2			0.2	0.2	0.0	36.0%	0.08	0.00			
Sunflower meal (traded as such)		3.2		3.2	3.2	0.0	36.0%	1.16	0.00			
OTHER OILSEED MEALS (of which)	0.6	2.6	0.0	3.2	3.2	0.2		0.63	0.07	10%	1%	
Palmkern meal	0.0	2.5	0.0	2.5	2.5	0.0	16.0%	0.40	0.00			
Linseed meal	0.4	0.0	0.0	0.4	0.4	0.0	34.0%	0.14	0.00			
Other oilseed meals	0.2	0.0	0.0	0.2	0.2	0.2	37.0%	0.08	0.07			
OTHERS CO-PRODUCTS	33.4	4.3	1.1	36.6	33.4	31.3		5.07	4.76	94%	6%	
Starch industry's medium protein products (15%-30%)	4.1	0.7	0.4	4.4	4.2	4.2	19.0%	0.80	0.80			
Starch industry's super protein products (60%-90%)	0.7	0.0	0.0	0.7	0.7	0.7	73.0%	0.50	0.50			
Distiller's Dried Grains with Solubles	4.2	0.8	0.2	4.8	4.8	4.0	30% wheat 27% maize	1.41	1.20			
Wet Distillers Grain	6.9	0.0	0.0	6.9	6.9	6.9	5.4%	0.37	0.37			
Wheat bran	8.3	0.0	0.2	8.2	8.2	8.2	15.5%	1.27	1.27			
Citrus pulp	0.0	0.3	0.0	0.3	0.3	0.0	7.5%	0.02	0.00			
Beet pulp pellets	6.0	1.0	0.1	6.8	6.8	5.8	7.9%	0.54	0.46			
Molasses	3.1	1.5	0.1	4.6	1.5	1.5	10.7% beet 4.2% cane	0.16	0.16			
NON-PLANT SOURCES					8.8	8.6		2.36	2.25	95%	3%	
(excluding on-farm use)												
Fish Meal	0.4	0.3	0.2	0.5	0.5	0.4	65.0%	0.34	0.27			
Whey Powder	1.6	0.1	0.6	1.1	0.9	0.9	12.5%	0.11	0.11			
Skimmed Milk Powder	1.7	0.0	0.6	1.0	0.2	0.2	34.0%	0.06	0.06			
Processed Animal Proteins	2.5	0.1	0.4	2.2	2.2	2.1	62.3%	1.37	1.33			
Former Foodstuff					5	5	9.5%	0.48	0.48			
ROUGHAGE					1266	1266		35	35	100%	43%	
Grass	986			986	986	986	2.5%	25	25			
Silage maize	227			227	227	227	2.9%	7	7			
Fodder legumes	52			52	52	52	7.2%	4	4			
Dried Fodder	3.1	0.0	1.8	1.3	1.3	1.3	17.0%	0.2	0.2			
TOTAL								83	64	78%		

Legend

Low-Pro: Less than 15% protein content	
Medium-Pro: 15-30% protein content	
High-Pro: 30-50% protein content	
Super-Pro: Over 50% protein content	

53.74	52.17	97%
4.75	4.13	87%
21.65	5.95	27%
2.40	2.11	88%

There is only limited inter-changeability between proteins from different categories, for instance between proteins from cereals and proteins from soya meal (due to its amino acid pattern, soya protein is used more efficiently than other plant proteins in animal nutrition).