

# EU + UK Feed Protein Balance Sheet

2013/14	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)
<b>CROPS</b>					<b>168.4</b>	<b>152.7</b>		<b>16.87</b>	<b>15.53</b>	<b>92%</b>	<b>21%</b>
<b>CEREALS (of which)</b>	<b>304.8</b>	<b>19.2</b>	<b>43.5</b>	<b>280.5</b>	<b>164.9</b>	<b>149.4</b>		<b>15.94</b>	<b>14.63</b>	<b>92%</b>	<b>20%</b>
Common wheat	135.2	1.8	30.0	107.0	42.6	40.8	11.0%	4.68	4.48		
Barley	60.6	0.0	8.8	51.9	36.6	36.6	10.0%	3.66	3.66		
Durum	7.9	1.9	1.1	8.8	0.1	0.1	12.0%	0.01	0.01		
Maize	66.8	15.0	3.1	78.7	61.2	47.7	8.0%	4.89	3.81		
Rye	10.3	0.1	0.2	10.2	4.2	4.2	11.0%	0.46	0.46		
Sorghum	0.6	0.2	0.0	0.8	0.5	0.4	11.0%	0.06	0.04		
Oats	8.3	0.0	0.3	8.0	6.2	6.2	11.0%	0.68	0.68		
Triticale	11.4	0.0	0.0	11.4	10.2	10.2	11.0%	1.12	1.12		
Others	3.8	0.1	0.0	3.9	3.4	3.3	11.0%	0.37	0.36		
<b>OILSEEDS (feed use without crushing) (columns (E) and (F))</b>	<b>31.5</b>	<b>17.4</b>	<b>1.1</b>	<b>47.8</b>	<b>1.6</b>	<b>1.6</b>		<b>0.46</b>	<b>0.46</b>	<b>100%</b>	<b>1%</b>
Soya beans	1.2	13.6	0.1	14.7	1.2	1.2	33.0%	0.40	0.40		
Rapeseed	21.0	3.5	0.3	24.2	0.2	0.2	18.8%	0.04	0.04		
Sunflowerseed	9.3	0.3	0.7	8.9	0.2	0.2	14.8%	0.03	0.03		
<b>PULSES (of which)</b>	<b>2.5</b>	<b>0.3</b>	<b>0.4</b>	<b>2.3</b>	<b>1.9</b>	<b>1.7</b>		<b>0.47</b>	<b>0.43</b>	<b>92%</b>	<b>1%</b>
Field Peas	1.3	0.2	0.1	1.4	1.1	1.0	22.5%	0.24	0.22		
Broad beans	1.0	0.0	0.3	0.7	0.6	0.6	26.0%	0.16	0.16		
Lupins	0.2	0.1	0.0	0.2	0.2	0.2	35.0%	0.07	0.05		
<b>CO-PRODUCTS</b>					<b>84.2</b>	<b>46.7</b>		<b>25.12</b>	<b>9.81</b>	<b>39%</b>	<b>31%</b>
<b>OILSEED MEALS</b>	<b>27.9</b>	<b>24.3</b>	<b>0.9</b>	<b>51.3</b>	<b>51.2</b>	<b>15.3</b>		<b>20.24</b>	<b>5.16</b>	<b>25%</b>	<b>25%</b>
<b>SOYA BEAN MEALS (of which)</b>	<b>9.6</b>	<b>18.5</b>	<b>0.3</b>	<b>27.7</b>	<b>27.6</b>	<b>0.0</b>		<b>12.59</b>	<b>-0.01</b>	<b>0%</b>	<b>16%</b>
Soya bean meal (from EU soyabean production)	0.0			0.0	0.0	0.0	43.0%	-0.01	-0.01		
Soya bean meal (imported soyabeans crushing)	9.3		0.3	9.0	8.8	0.0	45.5%	4.02	0.00		
Soya bean meal (traded as such)		18.5		18.5	18.5	0.0	45.5%	8.40	0.00		
Soya bean Protein Concentrate	0.3			0.3	0.3	0.0	62.5%	0.19	0.00	0%	0%
<b>RAPESEED MEALS (of which)</b>	<b>13.4</b>	<b>0.5</b>	<b>0.4</b>	<b>13.5</b>	<b>13.5</b>	<b>11.1</b>		<b>4.45</b>	<b>3.65</b>	<b>82%</b>	<b>6%</b>
Rapeseed meal (from EU rapeseed production)	11.4		0.4	11.1	11.1	11.1	33.0%	3.65	3.65		
Rapeseed meal (imported rapeseed crushing)	1.9			1.9	1.9	0.0	33.0%	0.64	0.00		
Rapeseed meal (traded as such)		0.5		0.5	0.5	0.0	33.0%	0.15	0.00		
<b>SUNFLOWER MEALS (of which)</b>	<b>4.3</b>	<b>3.1</b>	<b>0.2</b>	<b>7.3</b>	<b>7.3</b>	<b>4.0</b>		<b>2.62</b>	<b>1.43</b>	<b>55%</b>	<b>3%</b>
Sunflower meal (from EU sunflowerseed production)	4.2		0.2	4.0	4.0	4.0	36.0%	1.43	1.43		
Sunflower meal (imported sunflowerseed crushing)	0.2			0.2	0.2	0.0	36.0%	0.06	0.00		
Sunflower meal (traded as such)		3.1		3.1	3.1	0.0	36.0%	1.12	0.00		
<b>OTHER OILSEED MEALS (of which)</b>	<b>0.6</b>	<b>2.3</b>	<b>0.0</b>	<b>2.8</b>	<b>2.8</b>	<b>0.2</b>		<b>0.58</b>	<b>0.08</b>	<b>14%</b>	<b>1%</b>
Palmkern meal	0.0	2.2	0.0	2.2	2.2	0.0	16.0%	0.35	0.00		
Linseed meal	0.4	0.0	0.0	0.4	0.4	0.0	34.0%	0.12	0.00		
Other oilseed meals	0.2	0.1	0.0	0.3	0.3	0.2	37.0%	0.12	0.08		
<b>OTHERS CO-PRODUCTS</b>	<b>33.2</b>	<b>4.2</b>	<b>0.6</b>	<b>36.8</b>	<b>33.0</b>	<b>31.4</b>		<b>4.87</b>	<b>4.65</b>	<b>95%</b>	<b>6%</b>
Starch industry's medium protein products (15%-30%)	3.9	0.6	0.2	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%	0.48	0.48		
Distiller's Dried Grains with Solubles	3.7	0.5	0.2	4.1	4.1	3.5	30% wheat 27% maize	1.20	1.06		
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	0.1	8.2	8.2	8.2	15.5%	1.27	1.27		
Citrus pulp	0.0	0.4	0.0	0.4	0.4	0.0	7.5%	0.03	0.00		
Beet pulp pellets	6.4	0.7	0.1	6.9	6.9	6.2	7.9%	0.55	0.49		
Molasses	3.3	1.9	0.0	5.2	1.7	1.7	10.7% beet 4.2% cane	0.18	0.18		
<b>NON-PLANT SOURCES</b>					<b>9.1</b>	<b>8.9</b>		<b>2.54</b>	<b>2.41</b>	<b>95%</b>	<b>3%</b>
(excluding on-farm use)											
Fish Meal	0.4	0.3	0.2	0.5	0.5	0.4	65.0%	0.34	0.25		
Whey Powder	1.8	0.1	0.6	1.3	0.9	0.9	12.5%	0.11	0.11		
Skimmed Milk Powder	1.3	0.0	0.5	0.7	0.2	0.2	34.0%	0.06	0.06		
Processed Animal Proteins	2.8	0.1	0.4	2.5	2.5	2.4	62.3%	1.55	1.51		
Former Foodstuff					5	5	9.5%	0.48	0.48		
<b>ROUGHAGE</b>					<b>1270</b>	<b>1270</b>		<b>36</b>	<b>36</b>	<b>100%</b>	<b>44%</b>
Grass	983			983	983	983	2.5%	25	25		
Silage maize	230			230	230	230	2.9%	7	7		
Fodder legumes	55			55	55	55	7.2%	4	4		
Dried Fodder	3.3	0.0	1.4	1.9	1.9	1.9	17.0%	0.3	0.3		
<b>TOTAL</b>								<b>80</b>	<b>63</b>	<b>79%</b>	

## 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	

53.01	51.62	97%
4.38	3.88	88%
20.23	5.66	28%
2.55	2.24	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).