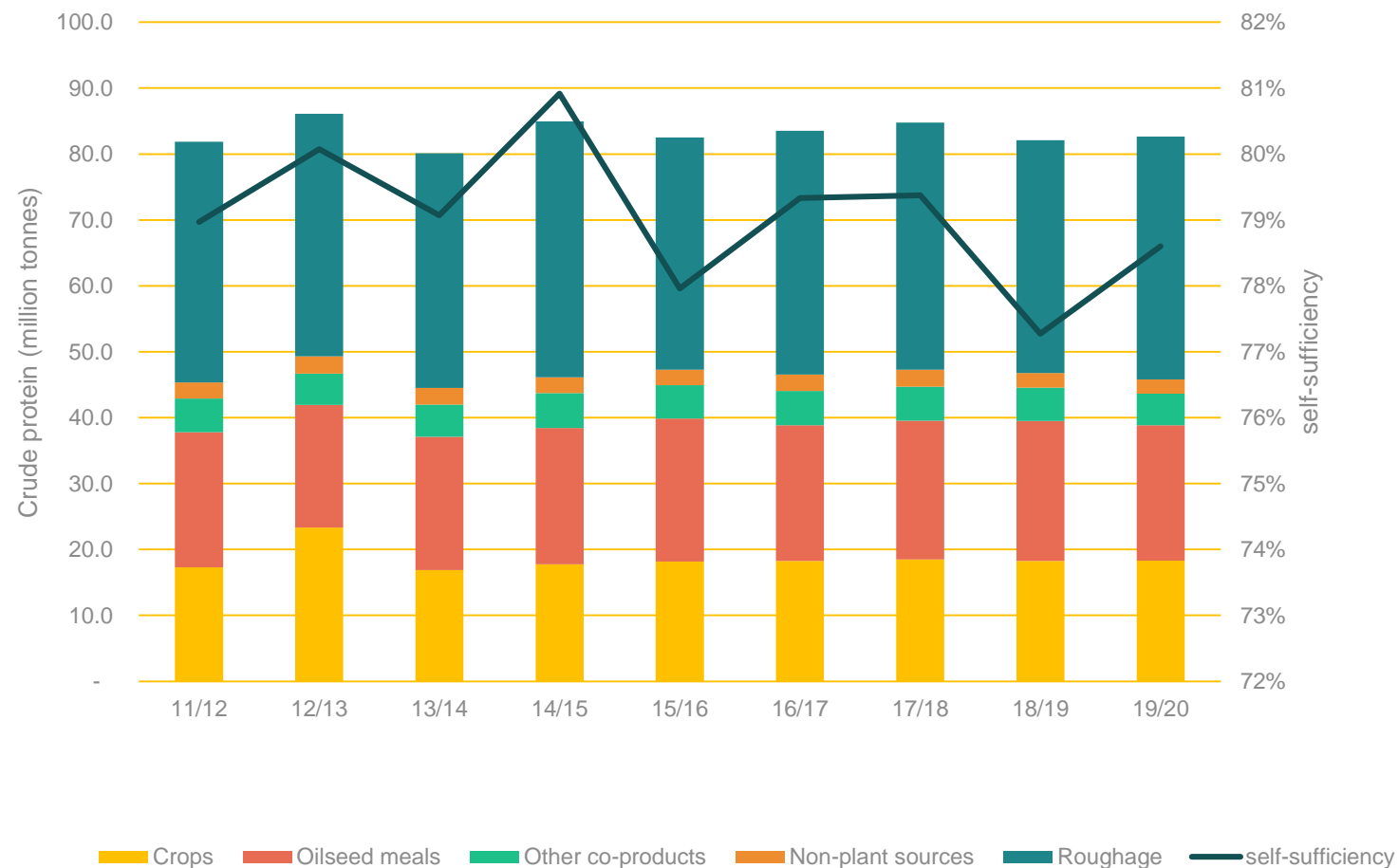


EU Feed Protein Balance Sheet

CDG ARABLE CROPS – DRIED FODDER, ENERGY AND
NON-FOOD CROPS

12 November 2020

EU+UK Feed Protein Balance Sheet 2019/20



EU+UK Feed Protein Balance Sheet 2019/20

September 2020

EU + UK Feed Protein Balance Sheet

2019/20	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					181.7	162.0		18.32	16.59	91%	22%
CO-PRODUCTS					84.6	45.4		25.32	9.49	37%	31%
OILSEED MEALS	30.1	23.0	1.4	51.7	51.5	14.3		20.53	4.96	24%	25%
OTHERS CO-PRODUCTS	34.1	3.8	1.3	36.6	33.1	31.1		4.80	4.52	94%	6%
NON-PLANT SOURCES					8.2	8.0		2.15	2.02	94%	3%
ROUGHAGE					1302	1302		37	37	100%	45%
TOTAL								83	65	79%	

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

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).



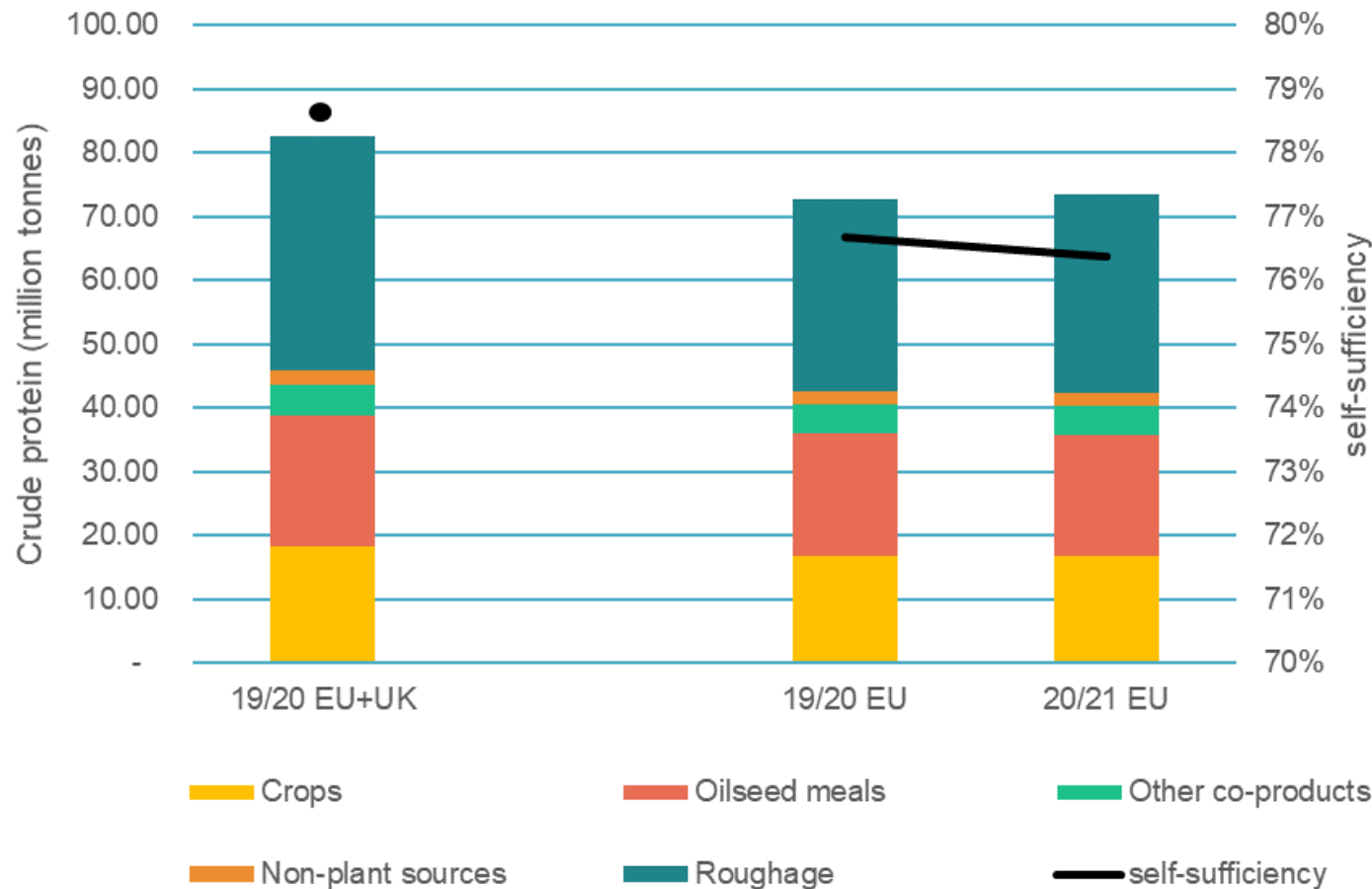
European
Commission

EU Feed Protein Balance Sheet 2020/21

Changes:

- First time forecasting at the beginning of the season
- First balance sheet for EU-27
 - Import–export figures are based on trend or averages.
- Under the heading ‘Pulses’ a new line: ‘Other protein crops’
 - Vetches, chickpeas, lentils and other pulses

Comparison EU-27 vs EU-28



Self sufficiency 1,5% lower

UK: represents 11% of the total EU-28 feed use

...but 16% of the EU-28 roughage consumption

EU Feed Protein Balance Sheet 2020/21

October 2020

EU Feed Protein Balance Sheet (forecast)

2020/21	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					166.5	142.8		16.70	14.65	88%	23%
CO-PRODUCTS					77.9	40.5		23.65	8.50	36%	32%
OILSEED MEALS	28.4	21.6	2.0	48.0	47.8	12.6		19.19	4.37	23%	26%
OTHERS CO-PRODUCTS	30.9	4.1	1.6	33.3	30.1	27.9		4.46	4.14	93%	6%
NON-PLANT SOURCES					8.0	7.8		2.05	1.91	93%	3%
ROUGHAGE					1062	1062		31	31	100%	42%
TOTAL								73	56	76%	

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

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).

47.82	45.71	96%
3.97	3.49	88%
19.33	4.91	25%
2.12	1.80	85%



European
Commission

EU Feed Protein Balance Sheet (forecast)

2020/21	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				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	change last year	change last year
CROPS					166.5	142.8		16.70	14.65	88%	23%	-0.05	-0.3%
CEREALS (of which)	271.5	29.4	39.2	261.7	161.9	138.4		15.47	13.48	87%	21%	-	0.08 -0.5%
Common wheat	115.9	3.5	24.0	95.4	39.5	36.0	11.0%	4.35	3.96			-0.11	-2.5%
Barley	54.3	1.0	10.5	44.8	34.8	34.8	10.0%	3.48	3.48			0.03	0.9%
Durum	7.2	2.5	1.3	8.4	0.4	0.3	12.0%	0.05	0.04			0.00	0.0%
Maize	60.2	22.0	3.0	79.2	66.5	46.7	8.0%	5.32	3.74			-0.13	-2.3%
Rye	8.9	0.0	0.2	8.8	2.6	2.6	11.0%	0.29	0.29			0.00	0.8%
Sorghum	1.2	0.1	0.0	1.3	0.5	0.4	11.0%	0.05	0.05			0.00	0.5%
Oats	8.1	0.1	0.2	8.0	5.3	5.3	11.0%	0.58	0.58			0.02	3.9%
Triticale	11.1	0.0	0.0	11.1	9.0	9.0	11.0%	0.99	0.99			0.10	11.1%
Others	4.6	0.2	0.0	4.7	3.3	3.2	11.0%	0.37	0.36			0.00	1.2%
OILSEEDS (feed use without crushing) (columns (E) and (F))	27.3	21.7	1.0	48.1	1.5	1.5		0.45	0.45	100%	1%	-	0.00 -0.7%
Soya beans	2.6	15.7	0.2	18.0	1.2	1.2	33.0%	0.40	0.40			0.00	0.0%
Rapeseed	15.9	5.0	0.2	20.7	0.2	0.2	18.8%	0.03	0.03			0.00	3.8%
Sunflowerseed	8.9	1.0	0.5	9.3	0.2	0.2	14.8%	0.03	0.03			-0.00	-13.4%
PULSES (of which)	4.5	1.3	0.5	5.2	3.1	2.9		0.78	0.72	92%	1%	0.04	5.1%
Field peas	2.2	0.3	0.2	2.3	1.4	1.4	22.5%	0.32	0.31			0.01	2.4%
Broad beans	1.2	0.1	0.3	1.0	0.9	0.9	26.0%	0.22	0.22			0.02	10.6%
Lupins	0.2	0.1	0.0	0.4	0.4	0.2	35.0%	0.13	0.08			-0.02	-12.7%
Other protein crops	0.8	0.8	0.1	1.6	0.4	0.4	25.0%	0.11	0.11			0.03	36.6%



EU Feed Protein Balance Sheet (forecast)




2020/21	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				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	change last year	change last year
CROPS					166.5	142.8		16.70	14.65	88%	23%	-0.05	-0.3%
CO-PRODUCTS					77.9	40.5		23.65	8.50	36%	32%	-0.05	-0.2%
OILSEED MEALS	28.4	21.6	2.0	48.0	47.8	12.6		19.19	4.37	23%	26%	-	0.14 -0.7%
SOYA BEAN MEALS (of which)	11.8	16.5	0.7	27.6	27.4	0.9		12.47	0.38	3%	17%	0.15	1.3%
Soya bean meal (from EU soya bean production)	0.9			0.9	0.9	0.9	43.0%	0.38	0.38			-0.06	-13.4%
Soya bean meal (imported soya bean crushing)	10.6		0.7	9.9	9.7	0.0	45.5%	4.40	0.00			0.35	8.6%
Soya bean meal (traded as such)		16.5		16.5	16.5	0.0	45.5%	7.51	0.00			-0.13	-1.8%
Soya bean protein concentrate	0.3			0.3	0.3	0.0	62.5%	0.19	0.00			0.00	0.0%
RAPESEED MEALS (of which)	11.4	0.4	0.6	11.2	11.2	8.0		3.71	2.65	72%	5%	-	0.09 -2.5%
Rapeseed meal (from EU rapeseed production)	8.6		0.6	8.0	8.0	8.0	33.0%	2.65	2.65			0.14	5.5%
Rapeseed meal (imported rapeseed crushing)	2.7			2.7	2.7	0.0	33.0%	0.91	0.00			-0.22	-19.8%
Rapeseed meal (traded as such)		0.4		0.4	0.4	0.0	33.0%	0.14	0.00			-0.01	-6.2%
SUNFLOWER MEALS (of which)	4.6	3.0	0.5	7.1	7.1	3.6		2.54	1.28	51%	3%	-	0.21 -7.6%
Sunflower meal (from EU sunflowerseed production)	4.1		0.5	3.6	3.6	3.6	36.0%	1.28	1.28			-0.21	-14.0%
Sunflower meal (imported sunflowerseed crushing)	0.5			0.5	0.5	0.0	36.0%	0.18	0.00			0.01	3.0%
Sunflower meal (traded as such)		3.0		3.0	3.0	0.0	36.0%	1.08	0.00			-0.01	-0.6%
OTHER OILSEED MEALS (of which)	0.7	1.7	0.2	2.2	2.2	0.1		0.47	0.05	11%	1%	0.01	2.3%
Palmkern meal	0.0	1.6	0.1	1.5	1.5	-0.1	16.0%	0.24	-0.01			0.01	3.1%
Linseed meal	0.4	0.0	0.0	0.5	0.5	0.0	34.0%	0.16	0.00			0.00	2.2%
Other oilseed meals	0.2	0.0	0.1	0.2	0.2	0.2	37.0%	0.07	0.07			-0.00	-0.5%

EU Feed Protein Balance Sheet (forecast)

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NON-PLANT SOURCES					8.0	7.8		2.05	1.91	93%	3%	0.01	0.3%
ROUGHAGE					1062	1062		31	31	100%	42%	0.73	2.4%
Grass	741			741	741	741	2.5%	19	19			0.09	0.5%
Silage maize	254			254	254	254	2.9%	7	7			0.46	6.5%
Fodder legumes	65			65	65	65	7.2%	5	5			0.21	4.6%
Dried fodder	3.3	0.0	2.0	1.3	1.3	1.3	17.0%	0.2	0.2			-0.02	-8.3%
TOTAL								73	56	76%		0.64	0.9%
Legend								47.82	45.71	96%		0.65	1.4%
Low-Pro: Less than 15% protein content								3.97	3.49	88%		0.12	3.1%
Medium-Pro: 15-30% protein content								19.33	4.91	25%		-0.17	-0.9%
High-Pro: 30-50% protein content								2.12	1.80	85%		0.01	0.3%
Super-Pro: Over 50% protein content													

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).

EU Feed Protein Balance Sheet 2020/21

- Decrease in cereal use by 0.5%:
 - wheat and maize
- Decrease in oilseed meal use by 0.7%:
 - sunflower and rapeseed meal
 - soya meal
- Increase in roughage use by 2.4%:
 - green maize and fodder legumes
 - grass production
 - **dried fodder**