

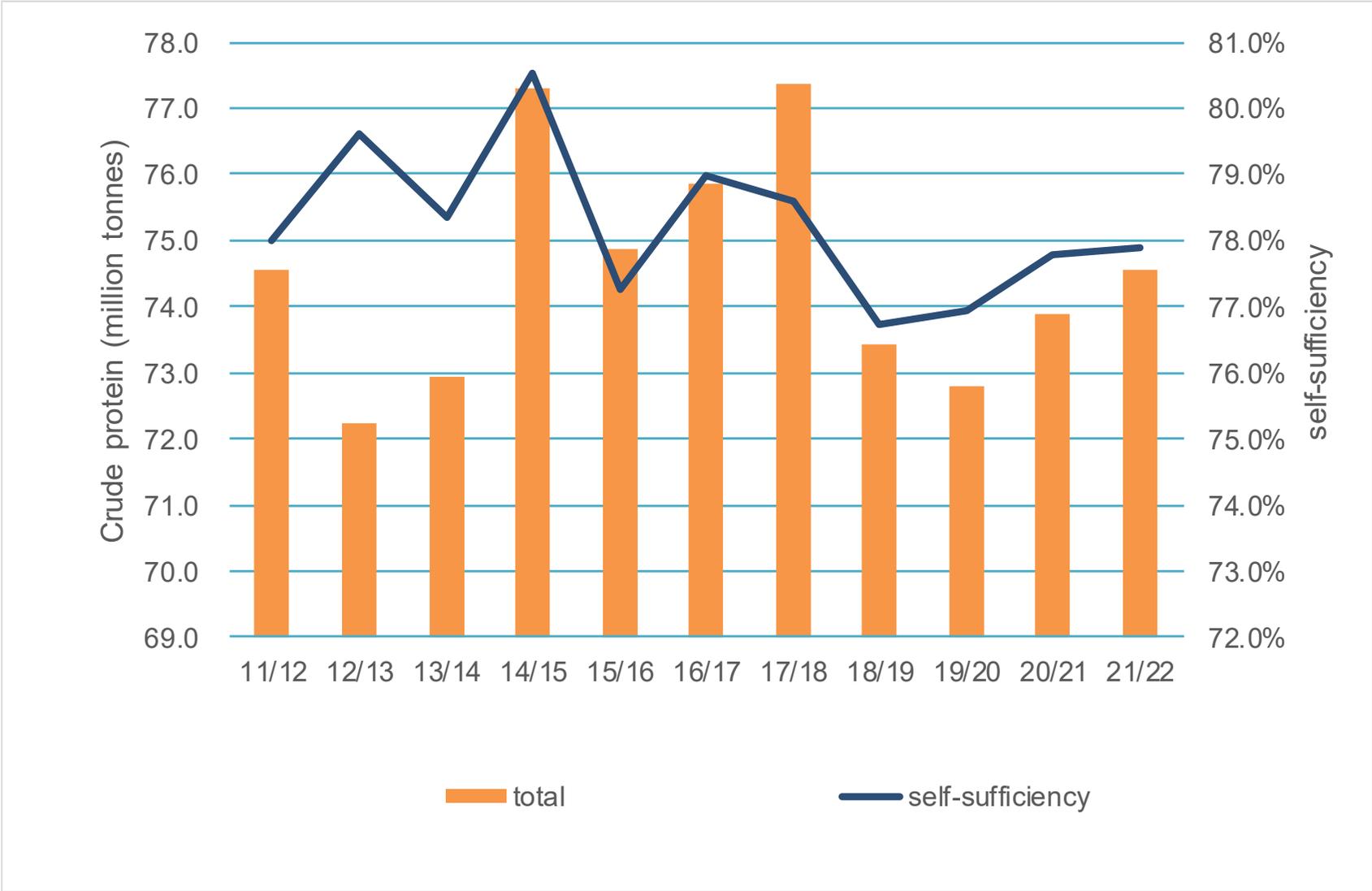


EU Feed Protein Balance Sheet

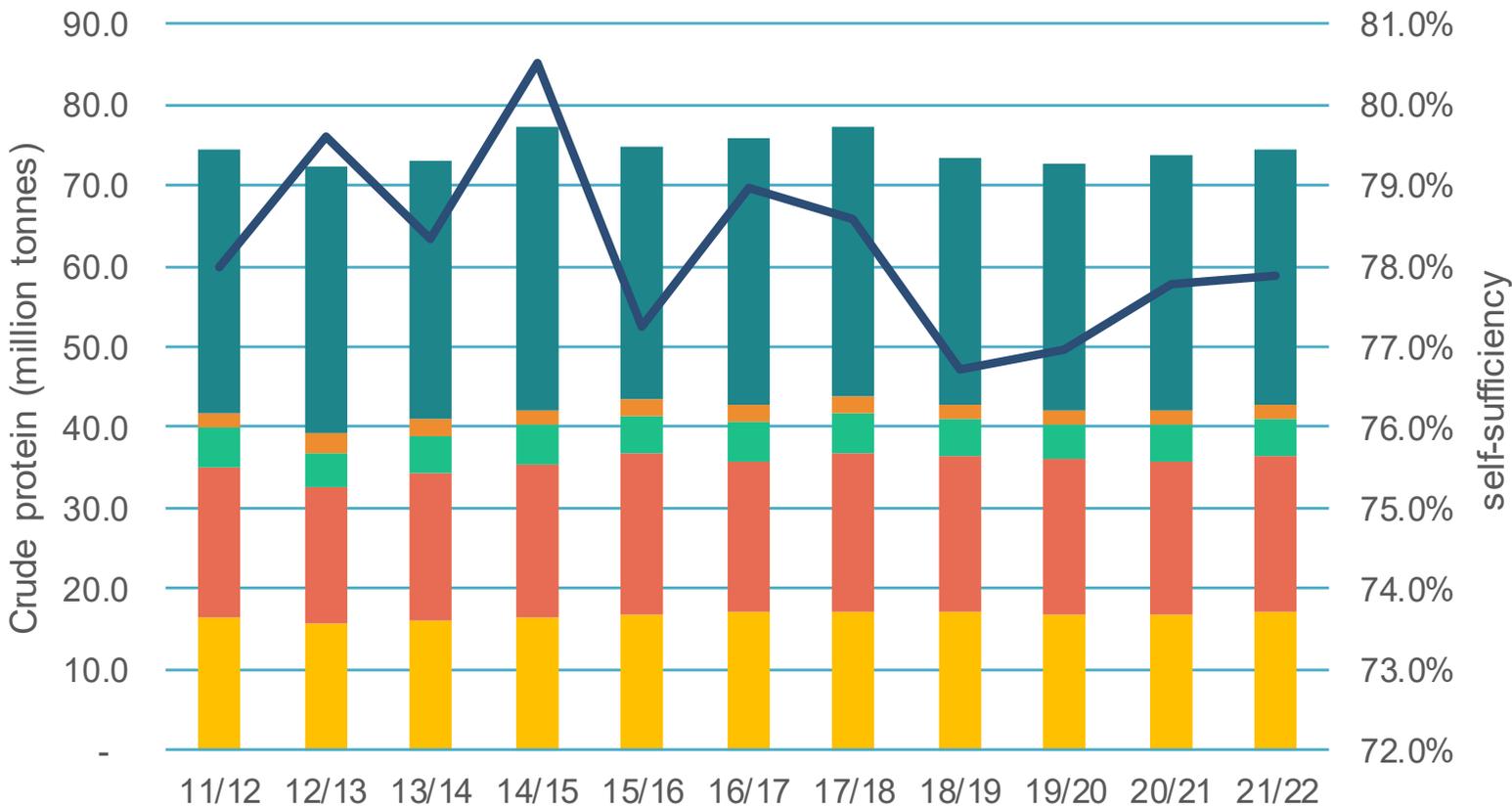
Crops Market observatory

30 June 2021

EU Feed Protein Balance Sheets

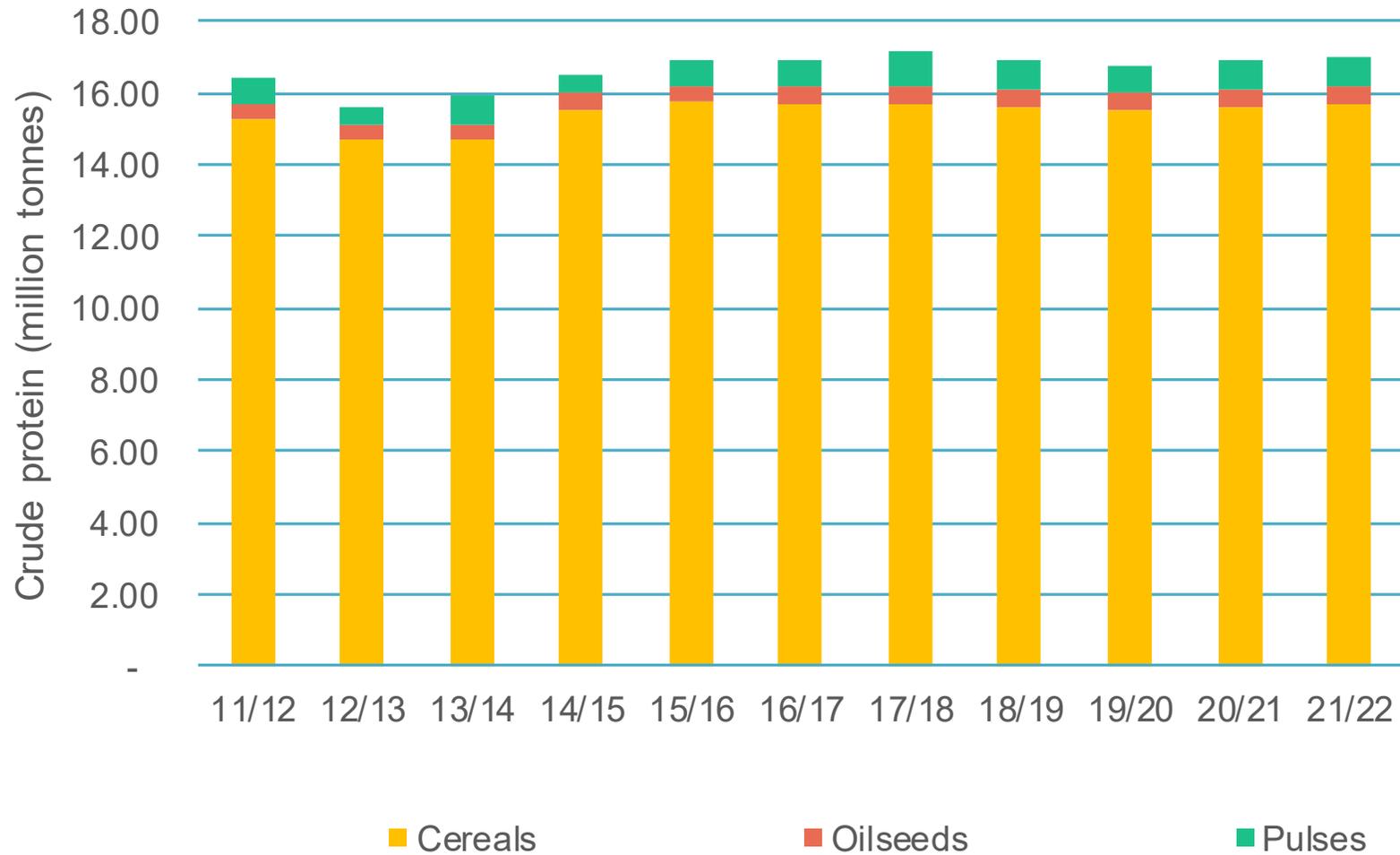


EU Feed Protein Balance Sheets

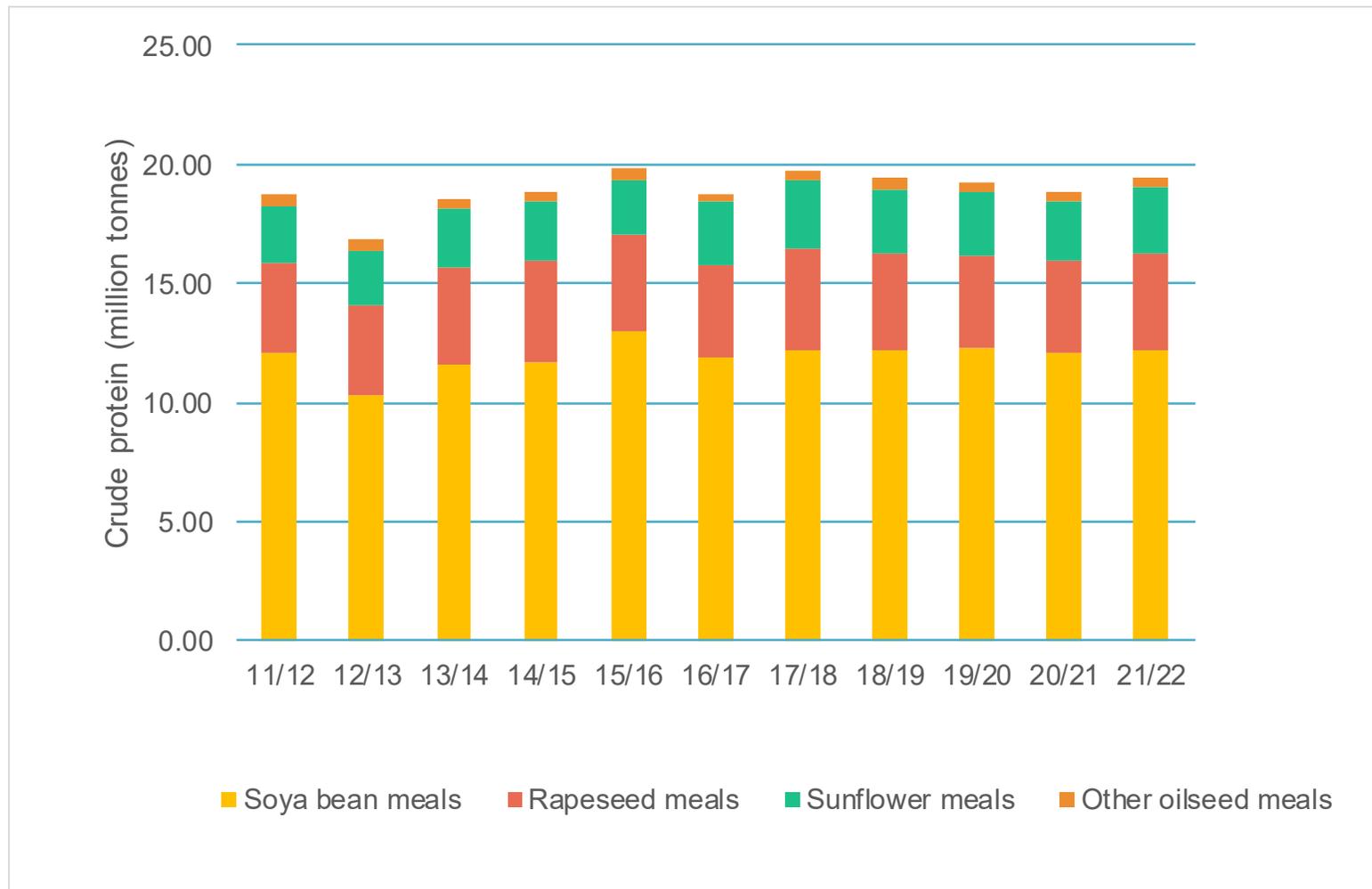


■ Crops ■ Oilseed meals ■ Other co-products
■ Non-plant sources ■ Roughage — self-sufficiency

Crops: Cereals, Oilseeds and Pulses



Oilseed meals



*Other Oilseed Meals = Palmkern Meal, Linseed Meal and Other Oilseed Meals

Oilseed meals



EU Feed Protein Balance Sheet 2020/21

June 2021

EU Feed Protein Balance Sheet (forecast)

2020/21 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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					167.4	150.6		16.92	15.42	91%	23%	0.21	1.3%
CO-PRODUCTS					76.9	40.0		23.27	8.46	36%	32%	-0.34	-1.4%
OILSEED MEALS	28.4	21.2	2.2	47.4	47.2	12.6		18.87	4.38	23%	26%	-0.40	-2.1%
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4		4.40	4.08	93%	6%	0.06	1.5%
NON-PLANT SOURCES					5.7	5.5		1.66	1.55	93%	2%	0.03	1.6%
ROUGHAGE					1091	1091		32	32	100%	43%	1.22	4.0%
TOTAL								74	57	78%		1.12	1.5%

2020/21 - Crops

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)		Million tonnes (crude protein)			
	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					167.4	150.6		16.92	15.42	91%	23%	0.21	1.3%
CEREALS (of which)	280.2	21.9	41.6	260.5	162.5	146.0		15.62	14.21	91%	21%	0.07	0.4%
Common wheat	117.2	2.7	27.0	92.9	38.2	35.5	11.0%	4.20	3.91			-0.25	-5.7%
Barley	56.9	1.0	10.5	47.4	35.6	35.6	10.0%	3.56	3.56			0.11	3.2%
Durum	7.1	2.8	0.6	9.3	0.4	0.3	12.0%	0.05	0.04			0.00	0.0%
Maize	65.0	15.0	3.2	76.8	63.5	50.0	8.0%	5.08	4.00			-0.37	-6.8%
Rye	8.9	0.0	0.2	8.7	3.8	3.8	11.0%	0.42	0.42			0.13	47.3%
Sorghum	1.1	0.1	0.0	1.2	1.4	1.3	11.0%	0.15	0.14			0.10	211.1%
Oats	8.3	0.1	0.1	8.2	5.7	5.7	11.0%	0.63	0.63			0.07	11.8%
Triticale	11.3	0.0	0.0	11.2	10.3	10.3	11.0%	1.13	1.13			0.24	27.2%
Others	4.5	0.2	0.0	4.6	3.6	3.5	11.0%	0.40	0.38			0.03	9.1%
OILSEEDS (feed use without crushing) (columns (E) and (F))	27.5	21.8	0.9	48.4	1.5	1.5		0.45	0.45	100%	1%	- 0.00	-0.7%
Soya beans	2.6	14.6	0.2	17.0	1.2	1.2	33.0%	0.40	0.40			0.00	0.0%
Rapeseed	16.1	6.2	0.2	22.1	0.2	0.2	18.8%	0.03	0.03			0.00	5.0%
Sunflowerseed	8.7	1.0	0.5	9.2	0.2	0.2	14.8%	0.03	0.03			-0.00	-14.9%
PULSES (of which)	4.3	1.6	0.6	5.3	3.4	3.1		0.85	0.76	89%	1%	0.14	20.4%
Field peas	2.0	0.5	0.2	2.3	1.7	1.6	22.5%	0.39	0.35			0.08	24.0%
Broad beans	1.3	0.1	0.3	1.1	0.9	0.9	26.0%	0.24	0.24			0.05	23.4%
Lupins	0.2	0.2	0.0	0.4	0.4	0.2	35.0%	0.13	0.07			-0.01	-3.9%
Other protein crops	0.8	0.8	0.1	1.5	0.4	0.4	25.0%	0.09	0.09			0.03	43.4%

2020/21 – Oilseeds Meals

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)		Million tonnes (crude protein)			
	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
CO-PRODUCTS					76.9	40.0		23.27	8.46	36%	32%	-0.34	-1.4%
OILSEED MEALS	28.4	21.2	2.2	47.4	47.2	12.6		18.87	4.38	23%	26%	-	0.40 -2.1%
SOYA BEAN MEALS (of which)	11.1	16.3	0.8	26.6	26.4	0.9		12.06	0.41	3%	16%	-	0.26 -2.1%
Soya bean meal (from EU soya bean production)	1.0			1.0	0.9	0.9	43.0%	0.41	0.41			-0.02	-5.8%
Soya bean meal (imported soya bean crushing)	9.9		0.8	9.1	8.9	0.0	45.5%	4.05	0.00			-0.01	-0.2%
Soya bean meal (traded as such)		16.3		16.3	16.3	0.0	45.5%	7.42	0.00			-0.23	-3.0%
Soya bean protein concentrate	0.3			0.3	0.3	0.0	62.5%	0.19	0.00			0.00	0.0%
RAPSEED MEALS (of which)	12.2	0.5	0.7	12.0	12.0	8.1		3.96	2.66	67%	5%	0.14	3.6%
Rapeseed meal (from EU rapeseed production)	8.8		0.7	8.1	8.1	8.1	33.0%	2.66	2.66			0.13	5.2%
Rapeseed meal (imported rapeseed crushing)	3.4			3.4	3.4	0.0	33.0%	1.13	0.00			-0.00	-0.4%
Rapeseed meal (traded as such)		0.5		0.5	0.5	0.0	33.0%	0.17	0.00			0.01	6.7%
SUNFLOWER MEALS (of which)	4.5	2.7	0.5	6.7	6.7	3.5		2.40	1.26	52%	3%	-	0.33 -12.1%
Sunflower meal (from EU sunflowerseed production)	4.0		0.5	3.5	3.5	3.5	36.0%	1.26	1.26			-0.22	-14.9%
Sunflower meal (imported sunflowerseed crushing)	0.5			0.5	0.5	0.0	36.0%	0.17	0.00			0.01	3.3%
Sunflower meal (traded as such)		2.7		2.7	2.7	0.0	36.0%	0.97	0.00			-0.11	-10.6%
OTHER OILSEED MEALS (of which)	0.6	1.7	0.2	2.1	2.1	0.1		0.45	0.05	11%	1%	0.05	11.6%
Palmkern meal	0.0	1.6	0.1	1.5	1.5	-0.1	16.0%	0.24	-0.01			0.06	34.8%
Linseed meal	0.4	0.0	0.0	0.4	0.4	0.0	34.0%	0.14	0.00			-0.00	-2.8%
Other oilseed meals	0.2	0.0	0.1	0.2	0.2	0.2	37.0%	0.06	0.06			-0.01	-15.6%
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4		4.40	4.08	93%	6%	0.06	1.5%

2020/21 – Other co-products

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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
CO-PRODUCTS					76.8	40.0		23.26	8.46	36%	31%	-0.36	-1.5%
OILSEED MEALS	28.4	21.2	2.2	47.4	47.2	12.6		18.86	4.39	23%	26%	- 0.42	-2.2%
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4		4.40	4.08	93%	6%	0.06	1.5%
Starch industry's medium protein products (15-30%)	4.1	0.6	0.6	4.1	4.1	4.1	19.0%	0.77	0.77			0.02	2.0%
Starch industry's super protein products (60-90%)	1.0			1.0	0.7	0.7	73.0%	0.49	0.49			0.01	1.2%
Distillers' dried grains with solubles	3.1	0.8	0.4	3.5	3.5	2.7	30% wheat 27% maize	1.02	0.81			0.07	6.8%
Wet distillers' grain	6.0			6.0	6.0	6.0	5.4%	0.33	0.33			0.00	0.0%
Wheat bran	7.4	0.0	0.2	7.2	7.2	7.2	15.5%	1.11	1.11			-0.01	-1.0%
Citrus pulp	0.0	0.3	0.0	0.2	0.2	0.0	7.5%	0.02	0.00			0.01	46.1%
Beet pulp pellets	5.7	1.2	0.2	6.7	6.7	5.5	7.9%	0.53	0.44			-0.02	-3.7%
Molasses	3.0	1.2	0.2	4.0	1.3	1.3	10.7% beet 4.2% cane	0.14	0.14			0.00	1.9%

2020/21 – Non-Plant Sources

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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
NON-PLANT SOURCES					5.7	5.5		1.66	1.55	93%	2%	0.03	1.6%
(excluding on-farm use)													
Fish meal	0.4	0.2	0.2	0.5	0.5	0.4	65.0%	0.31	0.25			0.03	9.1%
Whey powder	2.2	0.1	0.8	1.4	0.6	0.6	12.5%	0.07	0.07			0.00	0.0%
Skimmed milk powder	1.6	0.0	1.0	0.6	0.1	0.1	34.0%	0.05	0.05			0.00	0.0%
Processed animal proteins	2.7	0.1	0.9	1.9	1.5	1.4	62.3%	0.95	0.89			0.00	0.0%
Former foodstuff					3	3	9.5%	0.29	0.29			0.00	0.0%

2020/21 – Roughage

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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
ROUGHAGE					1091	1091		32	32	100%	43%	1.22	4.0%
Grass	786			786	786	786	2.5%	20	20			0.94	5.0%
Silage maize	233			233	233	233	2.9%	7	7			-0.18	-2.6%
Fodder legumes	71			71	71	71	7.2%	5	5			0.57	12.7%
Dried fodder	3.3	0.0	2.0	1.3	1.3	1.3	17.0%	0.2	0.2			-0.11	-32.6%

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
biomass	1 148.26	1 165.53	1 118.86	1 237.66	1 114.23	1 159.01	1 180.01	1 053.02	1 050.53	
temp grass	130.52	151.62	141.58	163.50	137.06	128.68	132.19	114.07	122.28	129.76
perm grass	727.09	722.47	699.40	755.10	705.76	736.00	736.26	649.27	626.10	656.28
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
grass	857.61	874.09	840.98	918.60	842.82	864.68	868.45	763.33	748.38	786.03
silage maize	236.65	236.07	223.01	262.79	220.00	232.62	255.43	228.23	239.47	233.21
fodder legumes	54.00	55.37	54.87	56.27	51.41	61.70	56.12	61.45	62.67	70.63

EU Feed Protein Balance Sheet 2021/22

June 2021

EU Feed Protein Balance Sheet (forecast)

2021/22	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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					168.2	151.4		17.00	15.48	91%	23%	0.08	0.5%
CO-PRODUCTS					78.5	41.5		23.88	8.99	38%	32%	0.61	2.6%
OILSEED MEALS	29.7	21.4	2.0	49.1	48.9	14.1	19.48	4.92	25%	26%	0.61	3.2%	
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4	4.40	4.08	93%	6%	-	0.0%	
NON-PLANT SOURCES					5.7	5.5		1.66	1.55	93%	2%	-0.00	-0.1%
ROUGHAGE					1091	1091		32	32	100%	43%	-	0.0%
TOTAL							74	58	78%			1.81	2.5%

2021/22 - Crops

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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					168.2	151.4		17.00	15.48	91%	23%	0.08	0.5%
CEREALS (of which)	288.7	21.3	44.5	265.5	163.3	146.8		15.70	14.29	91%	21%	0.08	0.5%
Common wheat	125.8	2.7	30.0	98.5	41.3	38.6	11.0%	4.54	4.25			0.34	8.1%
Barley	53.5	1.2	9.3	45.4	34.9	34.9	10.0%	3.49	3.49			-0.07	-2.0%
Durum	7.7	2.0	1.2	8.5	0.5	0.5	12.0%	0.06	0.05			0.01	25.0%
Maize	70.6	15.0	3.6	82.0	64.0	50.5	8.0%	5.12	4.04			0.04	0.8%
Rye	8.3	0.0	0.2	8.2	2.6	2.6	11.0%	0.29	0.29			-0.13	-31.6%
Sorghum	1.0	0.1	0.0	1.0	0.9	0.8	11.0%	0.10	0.09			-0.06	-35.7%
Oats	7.7	0.0	0.2	7.6	5.7	5.7	11.0%	0.63	0.63			0.00	0.0%
Triticale	10.8	0.0	0.0	10.8	9.8	9.8	11.0%	1.08	1.08			-0.05	-4.9%
Others	3.2	0.2	0.0	3.3	3.6	3.4	11.0%	0.40	0.38			0.00	0.0%
OILSEEDS (feed use without crushing) (columns (E) and (F))	30.1	21.6	0.9	50.8	1.6	1.6		0.46	0.46	100%	1%	0.01	1.4%
Soya beans	2.9	14.6	0.2	17.2	1.2	1.2	33.0%	0.40	0.40			0.00	0.0%
Rapeseed	16.7	6.2	0.1	22.8	0.2	0.2	18.8%	0.03	0.03			0.00	3.5%
Sunflowerseed	10.5	0.8	0.6	10.8	0.2	0.2	14.8%	0.03	0.03			0.01	20.7%
PULSES (of which)	4.6	1.0	0.5	5.1	3.4	3.0		0.85	0.73	87%	1%	- 0.01	-0.7%
Field peas	2.3	0.5	0.2	2.6	1.7	1.5	22.5%	0.38	0.34			-0.01	-2.8%
Broad beans	1.2	0.1	0.3	1.0	0.9	0.9	26.0%	0.22	0.22			-0.02	-8.8%
Lupins	0.2	0.2	0.0	0.5	0.4	0.2	35.0%	0.14	0.07			0.02	12.4%
Other protein crops	0.9	0.2	0.0	1.1	0.4	0.4	25.0%	0.10	0.10			0.01	10.6%

2021/22 – Oilseed meals

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)	
	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
CO-PRODUCTS					78.5	41.5		23.88	8.99	38%	32%	0.61	2.6%
OILSEED MEALS	29.7	21.4	2.0	49.1	48.9	14.1		19.48	4.92	25%	26%	0.61	3.2%
SOYA BEAN MEALS (of which)	11.3	16.3	0.7	26.9	26.7	1.1		12.15	0.48	4%	16%	0.09	0.8%
Soya bean meal (from EU soya bean production)	1.1			1.1	1.1	1.1	43.0%	0.48	0.48			0.07	18.1%
Soya bean meal (imported soya bean crushing)	9.9		0.7	9.1	8.9	0.0	45.5%	4.07	0.00			0.02	0.5%
Soya bean meal (traded as such)		16.3		16.3	16.3	0.0	45.5%	7.42	0.00			0.00	0.0%
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)	12.5	0.4	0.6	12.4	12.4	8.5		4.09	2.82	69%	6%	0.14	3.5%
Rapeseed meal (from EU rapeseed production)	9.1		0.6	8.5	8.5	8.5	33.0%	2.82	2.82			0.16	5.9%
Rapeseed meal (imported rapeseed crushing)	3.4			3.4	3.4	0.0	33.0%	1.13	0.00			-0.00	0.0%
Rapeseed meal (traded as such)		0.4		0.4	0.4	0.0	33.0%	0.15	0.00			-0.02	-10.9%
SUNFLOWER MEALS (of which)	5.2	3.0	0.5	7.7	7.7	4.3		2.77	1.56	56%	4%	0.37	15.2%
Sunflower meal (from EU sunflowerseed production)	4.9		0.5	4.3	4.3	4.3	36.0%	1.56	1.56			0.30	23.9%
Sunflower meal (imported sunflowerseed crushing)	0.4			0.4	0.4	0.0	36.0%	0.14	0.00			-0.04	-22.2%
Sunflower meal (traded as such)		3.0		3.0	3.0	0.0	36.0%	1.08	0.00			0.10	10.6%
OTHER OILSEED MEALS (of which)	0.6	1.7	0.2	2.1	2.1	0.1		0.46	0.06	12%	1%	0.01	2.5%
Palmkern meal	0.0	1.6	0.1	1.5	1.5	-0.1	16.0%	0.24	-0.01			0.00	0.0%
Linseed meal	0.4	0.0	0.0	0.4	0.4	0.0	34.0%	0.15	0.00			0.01	3.7%
Other oilseed meals	0.2	0.0	0.1	0.2	0.2	0.2	37.0%	0.07	0.07			0.01	9.5%
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4		4.40	4.08	93%	6%	-	0.0%

2021/22 – Other co-products

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)		Million tonnes (crude protein)			
	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
OTHERS CO-PRODUCTS	30.3	4.1	1.6	32.7	29.6	27.4		4.40	4.08	93%	6%	-	0.0%
Starch industry's medium protein products (15-30%)	4.1	0.6	0.6	4.1	4.1	4.1	19.0%	0.77	0.77			0.00	0.0%
Starch industry's super protein products (60-90%)	1.0			1.0	0.7	0.7	73.0%	0.49	0.49			0.00	0.0%
Distillers' dried grains with solubles	3.1	0.8	0.4	3.5	3.5	2.7	30% wheat 27% maize	1.02	0.81			0.00	0.0%
Wet distillers' grain	6.0			6.0	6.0	6.0	5.4%	0.33	0.33			0.00	0.0%
Wheat bran	7.4	0.0	0.2	7.2	7.2	7.2	15.5%	1.11	1.11			0.00	0.0%
Citrus pulp	0.0	0.3	0.0	0.2	0.2	0.0	7.5%	0.02	0.00			0.00	0.0%
Beet pulp pellets	5.7	1.2	0.2	6.7	6.7	5.5	7.9%	0.53	0.44			0.00	0.0%
Molasses	3.0	1.2	0.2	4.0	1.3	1.3	10.7% beet 4.2% cane	0.14	0.14			0.00	0.0%

2021/22 – Non-Plant sources and Roughage

2021/22 Protein source	Million tonnes						Protein content (feed use) (G)	Million tonnes (crude protein)				Million tonnes (crude protein)						
	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					
NON-PLANT SOURCES											5.7	5.5	1.66	1.55	93%	2%	-0.00	-0.1%
(excluding on-farm use)																		
Fish meal	0.4	0.2	0.2	0.5	0.5	0.4	65.0%	0.31	0.25			-0.00	-0.4%					
Whey powder	2.2	0.1	0.8	1.4	0.6	0.6	12.5%	0.07	0.07			0.00	0.0%					
Skimmed milk powder	1.6	0.0	1.0	0.6	0.1	0.1	34.0%	0.05	0.05			0.00	0.0%					
Processed animal proteins	2.7	0.1	0.9	1.9	1.5	1.4	62.3%	0.95	0.89			0.00	0.0%					
Former foodstuff					3	3	9.5%	0.29	0.29			0.00	0.0%					
ROUGHAGE											1091	1091	32	32	100%	43%	-	0.0%
Grass	786			786	786	786	2.5%	20	20			0.00	0.0%					
Silage maize	233			233	233	233	2.9%	7	7			0.00	0.0%					
Fodder legumes	71			71	71	71	7.2%	5	5			0.00	0.0%					
Dried fodder	3.3	0.0	2.0	1.3	1.3	1.3	17.0%	0.2	0.2			0.00	0.0%					

Thank you for your attention!