

# 2020 European Union and United Kingdom FAPRI Baseline Briefing Book





AGRI-FOOD & BIOSCIENCES INSTITUTE

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# Forward

The 2020 Baseline projections that are presented here are generated as part of the FAPRI-UK project. The FAPRI-UK Baseline projections are generated annually and provide a medium-term outlook for the UK agricultural sector. Agriculture at the start of 2021 in Europe is in a period of unprecedented uncertainty for the sector. The implementation of the UK's withdrawal from the European Union (EU) has coincided with the COVID-19 outbreak which have impacted almost every part of the agri-food supply chain. It is always stressed that the Baseline is not a forecast given the many uncertainties that impact the sector each year, but for this year even short run projections presented here should be treated with caution as the full impacts of Brexit and COVID-19 play out.

The Baseline includes projections over a ten-year period for agricultural activity, production, trade, prices and consumption. Although it is hoped that Baseline projections provide an insight into emerging issues and market directions based on the continuation of current policy, its main purpose is as a point of comparison for impact analyses. The projections were based on information available in January 2021. Note that at that time many of the data sources that are used for the EU were changing as a result of Brexit and not as much updated data was available as there usually is. As data sources are updated the EU model will evolve to include them.

The UK model captures the dynamic interrelationships among the variables affecting supply and demand in the main agricultural sectors of England, Wales, Scotland and Northern Ireland. The model consists of a system of equations covering the dairy, beef, sheep, pigs, poultry, wheat, barley, oats, rapeseed and biofuel sectors. The UK model is embedded within an EU-wide modelling system (EU-GOLD model) and thereby takes account of interactions among the agricultural sectors in regional, EU and world markets.

The 2021 baseline uses global prices from the January simulation of the FAPRI-MU global system of models. The global models include policies that were agreed at that time and assumptions regarding the impact of COVID-19 that are analogous with those assumed for the AFBINI Baseline. The EU model does not include any estimate of the impact of new CAP policy in the form of Member State strategic plans as they were not available when these projections were estimated. It is not clear how the changes to EU policy will impact agricultural markets, but they will have an impact and this is an example where it is important not to treat the Baseline as a forecast.

The baseline projections presented here are single annual point estimates for prices, livestock numbers etc, which are based on specific underlying conditions. A stochastic analysis incorporating uncertainty in the future paths of key variables, including macroeconomic conditions and crop yields, is generated separately to provide a range of alternative market outcomes, reflecting the uncertainty of agricultural commodity markets.

#### The 2020 Baseline

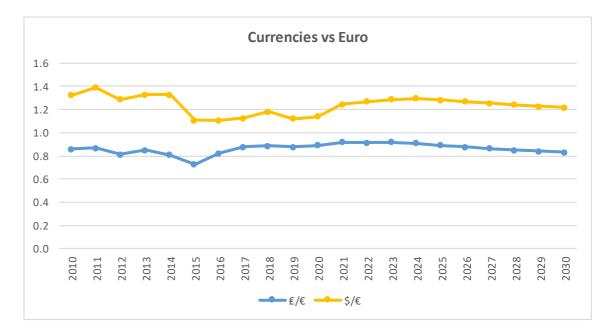
The future path of COVID-19 is impossible to predict. For this baseline there is assumed to be a recovery in 2021 but that there is not a return to something like "normal" conditions until 2022. Details of the assumptions for the macroeconomic data and each of the sectors is included in the discussions below, as the impacts have differed considerably across sectors.

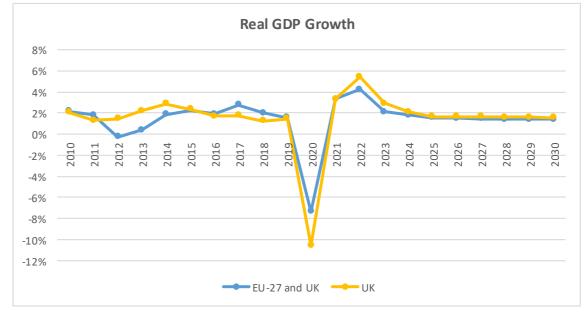
This Baseline was simulated in January 2021 using data that were available at that time. Macroeconomic projections are from IHS Markit from January. Historical data for biofuels are from *Strategie Grains* and Renewable Transport Fuel Obligation (RTFO) Statistics by Department of Transport (UK). Agricultural sector data are taken from EUROSTAT, European Commission, *Strategie Grains, COCERAL*, and the USDA's PS and D database from that available early in 2021. Figures for 2020 are official statistics where available, but as most were not available at the time of generating the baseline estimates have been used based on markets and the model where appropriate. The world prices that are used here are generated from the results of the FAPRI-MU 2021 Outlook.

### Macroeconomics

Macroeconomic data used in the model comes from IHS Markit's forecast from January 15<sup>th,</sup> 2021. The path of the major economies is far from clear at the time of writing given the continued impact of COVID-19. A key uncertainty for the projections for the agrifood sector are the exchange rates. In 2021, the euro is projected to strengthen in relation to the dollar and then remain at around \$1.3 per euro for the remainder of the forecast. The pound weakens against the euro slightly in the short run. In reality, exchange rates are expected to continue to be volatile.

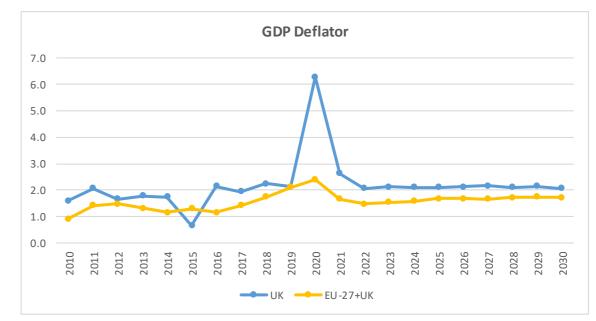
National income contracted significantly in 2020 as a result of the fall in economic activity as COVID-19 restrictions were enforced. UK growth is estimated to have fallen 10.6% and EU+UK by 7.3% (EU-27 fell 6.7%). Positive growth rates are projected for 2022 and 2023 of above the 2% that has been the average in recent years. However, given the magnitude of the drop in 2020, it takes until 2023 for the UK to return to levels of real GDP seen in the projections.

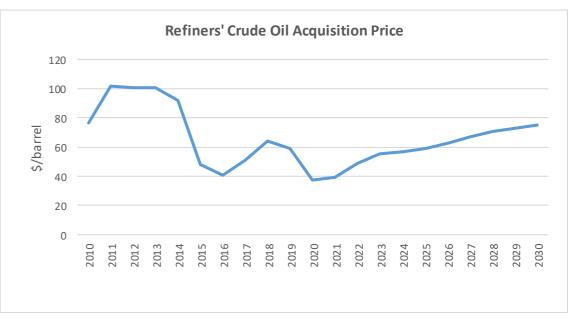




Inflation rates had been relatively stable in recent years. 2020 GDP deflator rates are projected to peak in 2020 as a result of Brexit and COVID-19. Differences in approaches adjusting GDP to changes in public sector economic activity between the UK and EU contribute to the relatively large departure in 2020. Projections for inflation for 2022 and after are forecast to be stable at 2% for the UK and around 1.7% for the EU-27.

The oil price is an important driver of both agricultural costs and the demand for biofuels. The oil price has dropped significantly after starting the last decade at \$100 per barrel. COVID-19 saw a collapse in demand and an end to the slight rally in 2018 and 2019. A recovery in the major economies and a return to normal fuel usage levels is expected to result in higher oil prices over the period, although it is not expected to exceed \$80 per barrel.





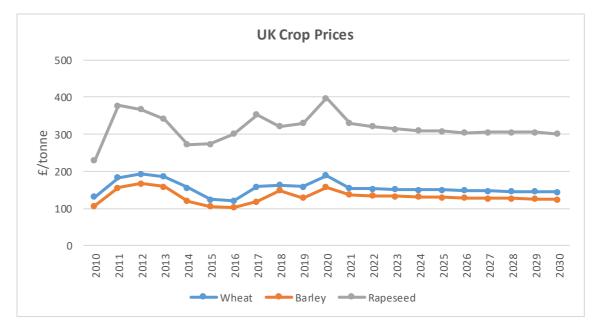
#### Table 1. Macroeconomics

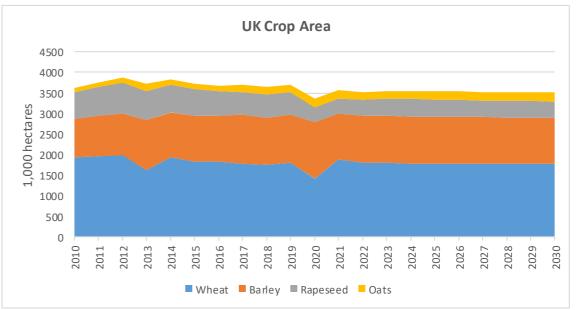
| Year                     | 2010  | 2011  | 2012   | 2013   | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020        | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|--------------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Real GDP Growth          |       |       |        |        |       |       |       |       |       |       |             |       | `     |       |       |       |       |       |       |       |       |
| EU-27+UK                 | 2.16% | 1.82% | -0.28% | 0.37%  | 1.84% | 2.28% | 1.92% | 2.77% | 2.00% | 1.55% | -7.35%      | 3.31% | 4.25% | 2.12% | 1.81% | 1.57% | 1.49% | 1.45% | 1.42% | 1.41% | 1.41% |
| France                   | 1.85% | 2.23% | 0.38%  | 0.61%  | 0.98% | 1.03% | 1.03% | 2.42% | 1.81% | 1.49% | -9.11%      | 4.11% | 3.90% | 1.91% | 1.52% | 1.34% | 1.36% | 1.36% | 1.35% | 1.34% | 1.31% |
| Germany                  | 4.04% | 3.99% | 0.62%  | 0.55%  | 2.21% | 1.24% | 2.14% | 2.91% | 1.30% | 0.59% | -5.35%      | 2.78% | 3.98% | 1.69% | 1.41% | 1.28% | 1.18% | 1.13% | 1.11% | 1.10% | 1.15% |
| Italy                    | 1.67% | 0.84% | -3.01% | -1.86% | 0.07% | 0.66% | 1.41% | 1.73% | 0.82% | 0.34% | -8.99%      | 3.59% | 3.78% | 1.48% | 1.10% | 0.82% | 0.72% | 0.67% | 0.63% | 0.60% | 0.54% |
| UK                       | 2.07% | 1.28% | 1.43%  | 2.19%  | 2.86% | 2.36% | 1.72% | 1.74% | 1.25% | 1.43% | -<br>10.55% | 3.31% | 5.42% | 2.94% | 2.13% | 1.63% | 1.66% | 1.65% | 1.62% | 1.58% | 1.58% |
| Poland                   | 3.76% | 4.79% | 1.42%  | 1.09%  | 3.35% | 4.21% | 3.17% | 4.85% | 5.37% | 4.55% | -3.29%      | 2.95% | 4.78% | 2.67% | 2.79% | 2.80% | 2.56% | 2.37% | 2.41% | 2.50% | 2.44% |
| Hungary                  | 1.07% | 1.95% | -1.24% | 1.89%  | 4.14% | 3.77% | 2.10% | 4.46% | 5.44% | 4.58% | -6.00%      | 3.96% | 4.00% | 1.92% | 2.62% | 3.20% | 2.76% | 2.10% | 1.82% | 1.97% | 2.29% |
| Inflation (GDP Deflator) |       |       |        |        |       |       |       |       |       |       |             |       |       |       |       |       |       |       |       |       |       |
| EU-27+UK                 | 0.92% | 1.42% | 1.49%  | 1.31%  | 1.15% | 1.29% | 1.15% | 1.42% | 1.74% | 2.10% | 2.40%       | 1.66% | 1.48% | 1.53% | 1.59% | 1.68% | 1.68% | 1.66% | 1.71% | 1.73% | 1.71% |
| France                   | 1.07% | 0.94% | 1.16%  | 0.78%  | 0.58% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14%       | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% | 1.14% |
| Germany                  | 0.64% | 1.08% | 1.49%  | 1.96%  | 1.87% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86%       | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% | 1.86% |
| Italy                    | 0.44% | 1.61% | 1.55%  | 1.15%  | 0.91% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93%       | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% |
| UK                       | 1.61% | 2.07% | 1.66%  | 1.78%  | 1.73% | 0.66% | 2.15% | 1.94% | 2.25% | 2.11% | 6.28%       | 2.63% | 2.06% | 2.13% | 2.11% | 2.10% | 2.13% | 2.16% | 2.11% | 2.14% | 2.07% |
| Poland                   | 1.67% | 3.21% | 2.35%  | 0.39%  | 0.56% | 0.86% | 0.45% | 1.78% | 1.21% | 3.11% | 4.16%       | 3.28% | 3.20% | 1.96% | 2.05% | 3.07% | 2.26% | 1.85% | 2.24% | 2.11% | 2.01% |
| Hungary                  | 2.55% | 1.98% | 2.87%  | 2.75%  | 3.76% | 2.73% | 1.41% | 3.78% | 4.77% | 4.86% | 3.74%       | 1.80% | 3.35% | 2.89% | 2.35% | 1.19% | 1.52% | 1.80% | 1.82% | 1.79% | 1.81% |
| Exchange Rate            |       |       |        |        |       |       |       |       |       |       |             |       |       |       |       |       |       |       |       |       |       |
| \$/euro                  | 1.32  | 1.39  | 1.28   | 1.33   | 1.33  | 1.11  | 1.11  | 1.13  | 1.18  | 1.12  | 1.14        | 1.25  | 1.27  | 1.29  | 1.30  | 1.28  | 1.27  | 1.25  | 1.24  | 1.23  | 1.22  |
| UK pounds/euro           | 0.86  | 0.87  | 0.81   | 0.85   | 0.81  | 0.73  | 0.82  | 0.88  | 0.88  | 0.88  | 0.89        | 0.92  | 0.91  | 0.92  | 0.91  | 0.89  | 0.88  | 0.86  | 0.85  | 0.84  | 0.83  |
| Zloty/euro               | 3.99  | 4.12  | 4.18   | 4.20   | 4.19  | 4.18  | 4.36  | 4.26  | 4.26  | 4.30  | 4.44        | 4.47  | 4.33  | 4.21  | 4.14  | 4.08  | 4.02  | 4.03  | 4.03  | 4.03  | 4.02  |
| Florin/euro              | 275   | 280   | 289    | 297    | 309   | 310   | 311   | 309   | 319   | 325   | 351         | 356   | 362   | 368   | 372   | 377   | 381   | 386   | 387   | 387   | 387   |
| Population               |       |       |        |        |       |       |       |       |       |       | million     |       |       |       |       |       |       |       |       |       |       |
| EU-27+UK                 | 498.3 | 499.6 | 500.8  | 501.9  | 503.0 | 504.0 | 505.1 | 506.2 | 507.2 | 508.1 | 508.8       | 509.2 | 509.4 | 509.4 | 509.4 | 509.3 | 509.2 | 509.0 | 508.8 | 508.6 | 508.4 |
| France                   | 62.9  | 63.2  | 63.6   | 63.9   | 64.2  | 64.5  | 64.7  | 64.8  | 65.0  | 65.1  | 65.3        | 65.4  | 65.6  | 65.7  | 65.9  | 66.1  | 66.2  | 66.3  | 66.5  | 66.6  | 66.7  |
| Germany                  | 80.8  | 80.9  | 81.0   | 81.2   | 81.5  | 81.8  | 82.2  | 82.7  | 83.1  | 83.5  | 83.8        | 83.9  | 83.9  | 83.8  | 83.6  | 83.5  | 83.4  | 83.3  | 83.3  | 83.2  | 83.1  |
| Italy                    | 59.3  | 59.6  | 59.9   | 60.2   | 60.4  | 60.6  | 60.7  | 60.7  | 60.6  | 60.6  | 60.5        | 60.4  | 60.3  | 60.1  | 60.0  | 59.9  | 59.7  | 59.6  | 59.4  | 59.2  | 59.0  |
| UK                       | 63.5  | 64.0  | 64.5   | 65.0   | 65.4  | 65.9  | 66.3  | 66.7  | 67.1  | 67.5  | 67.9        | 68.2  | 68.5  | 68.8  | 69.0  | 69.3  | 69.5  | 69.8  | 70.0  | 70.3  | 70.5  |
| Poland                   | 38.3  | 38.3  | 38.2   | 38.2   | 38.1  | 38.0  | 38.0  | 38.0  | 37.9  | 37.9  | 37.8        | 37.8  | 37.7  | 37.7  | 37.6  | 37.5  | 37.4  | 37.3  | 37.2  | 37.1  | 36.9  |
| Hungary                  | 9.9   | 9.9   | 9.9    | 9.8    | 9.8   | 9.8   | 9.8   | 9.7   | 9.7   | 9.7   | 9.7         | 9.6   | 9.6   | 9.6   | 9.5   | 9.5   | 9.5   | 9.4   | 9.4   | 9.4   | 9.3   |
| Refiners' crude oil      |       |       |        |        |       |       |       |       |       |       | US\$ per b  | arrel |       |       |       |       |       |       |       |       |       |
| acquisition price        | 76.7  | 101.8 | 101.0  | 100.5  | 92.2  | 48.4  | 40.6  | 50.7  | 64.5  | 59.4  | 37.4        | 39.0  | 49.1  | 55.1  | 56.6  | 59.1  | 63.0  | 66.8  | 70.5  | 73.1  | 75.1  |

# **UK Crops**

Crop prices in the UK were generally high in 2020 largely due to low yields caused by bad weather conditions and new pesticide restrictions. Looking forward, wheat and barley prices are not expected to change significantly over the projection period (setting aside short-term influences) with prices in 2030 £144 per tonne and £124 per tonne respectively, remaining above the recent low experienced in 2016. Rapeseed prices follow a similar trend, with the projected price averaging £310 per tonne over the ten-year projection period to 2030.

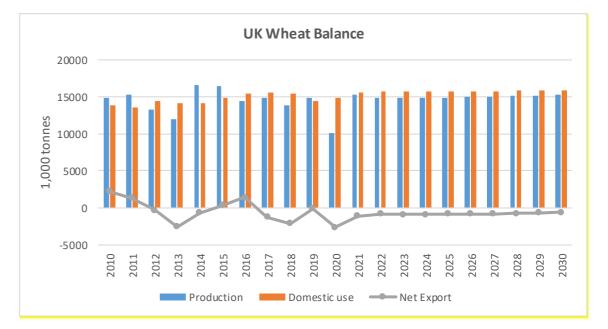
Crop area in the UK is 9% lower in 2020 than the preceding ten-year average. Rapeseed area declined 7% from 2015 to 2019, and a further 43% in 2020, likely related to revised regulations on pesticide use. Land has been shifting into barley and oats production. Rapeseed area recovers somewhat in the projection period, but does not get back to pre-2020 levels, assuming average weather conditions and availability of pest resistance varieties. Land in oats trends upwards, but remains the smallest share. Total UK crop area declines 5% between 2019 and 2030.

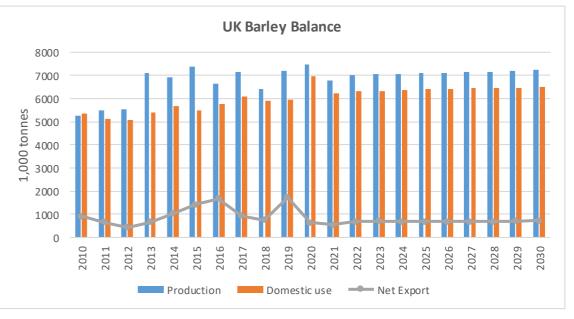




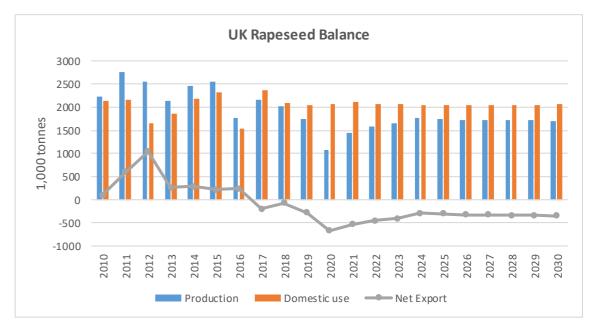
Wheat production has been variable in the 10 years to 2020 due to a succession of short-term factors. In 2020, wheat production in the UK faced a very bad season and production was 30% below that in 2019. Wheat domestic use has remained relatively stable, meaning the UK has been a net importer from 2017. Assuming average weather conditions wheat production stays close to 2% higher than the ten-year average leading up to 2020.

Barley production has been relatively high in recent years, as the early harvest for winter barley and decline in rapeseed area has made it more popular. Domestic use has also been increasing, however there has been a consistent surplus, positioning the UK as a net exporter. Looking forward, area increases to 4% above the ten-year average leading up to 2020. Despite an increase in domestic use, the UK continues to be a net exporter of barley throughout the projection period.





UK rapeseed production averaged over 2 million tonnes per year between 2010 and 2019. The year 2020 saw the lowest production level since 2010, with factors such as changes to pesticide regulations and weather conditions contributing to a reduction to both area and yield. Looking forward, upward pressure on price brings production levels back up, but it remains below pre-2019 levels, averaging close to 1.7 million tonnes per year. Domestic use is consistent with the historic average, meaning the UK continues to be a net importer of rapeseed throughout the projection period.



#### Table 2. UK Wheat

| Year                     | 2010   | 2011   | 2012   | 2013    | 2014   | 2015   | 2016   | 2017    | 2018   | 2019       | 2020    | 2021    | 2022   | 2023   | 2024   | 2025   | 2026   | 2027   | 2028   | 2029   | 2030   |
|--------------------------|--------|--------|--------|---------|--------|--------|--------|---------|--------|------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| _                        |        |        |        |         |        |        |        |         | tho    | usand hec  | tares   |         |        |        |        |        |        |        |        |        |        |
| <b>Area</b><br>harvested | 1,939  | 1,969  | 1,992  | 1,615   | 1,936  | 1,835  | 1,828  | 1,786   | 1,753  | 1,809      | 1,416   | 1,879   | 1,807  | 1,804  | 1,787  | 1,784  | 1,780  | 1,774  | 1,770  | 1,766  | 1,764  |
|                          |        |        |        |         |        |        |        |         | th     | ousand tor | nnes    |         |        |        |        |        |        |        |        |        |        |
| Production               | 14,878 | 15,257 | 13,261 | 11,921  | 16,606 | 16,444 | 14,384 | 14,837  | 13,886 | 14,856     | 10,056  | 15,253  | 14,801 | 14,861 | 14,846 | 14,932 | 14,991 | 15,038 | 15,093 | 15,163 | 15,253 |
|                          |        |        |        |         |        |        |        |         |        |            |         | ·       |        |        |        |        |        |        | -      |        |        |
| Domestic use             | 13,885 | 13,513 | 14,392 | 14,142  | 14,132 | 14,906 | 15,405 | 15,610  | 15,479 | 14,417     | 14,828  | 15,567  | 15,682 | 15,707 | 15,720 | 15,743 | 15,774 | 15,799 | 15,813 | 15,827 | 15,844 |
| Net Export               | 2,224  | 1,385  | - 282  | - 2,517 | - 681  | 350    | 1,453  | - 1,247 | -2,133 | - 109      | - 2,589 | - 1,060 | - 834  | - 858  | - 875  | - 822  | - 796  | - 771  | - 730  | - 677  | - 605  |
|                          |        |        |        |         |        |        |        |         |        | £/100 kg   |         |         |        |        |        |        |        |        |        |        |        |
| Prices                   | 13.11  | 18.26  | 19.32  | 18.64   | 15.57  | 12.35  | 12.03  | 15.90   | 16.36  | 15.90      | 18.83   | 15.45   | 15.26  | 15.14  | 15.06  | 15.02  | 14.86  | 14.72  | 14.62  | 14.52  | 14.42  |
| A                        |        |        |        |         |        |        |        |         | the    | ousand hec | tares   |         |        |        |        |        |        |        |        |        |        |
| Area Harvestee           | 0      |        | 1.050  |         |        |        |        |         |        |            |         |         |        |        |        |        |        |        |        |        |        |
| England                  | 1,792  | 1,817  | 1,856  | 1,505   | 1,797  | 1,693  | 1,684  | 1,652   | 1,619  | 1,677      | 1,289   | 1,740   | 1,670  | 1,667  | 1,650  | 1,648  | 1,645  | 1,640  | 1,636  | 1,634  | 1,632  |
| Wales                    | 24     | 26     | 26     | 15      | 21     | 22     | 21     | 21      | 21     | 21         | 20      | 21      | 21     | 21     | 21     | 21     | 21     | 20     | 20     | 20     | 20     |
| Scotland<br>Northern     | 111    | 115    | 101    | 87      | 109    | 112    | 114    | 104     | 106    | 103        | 98      | 108     | 107    | 107    | 107    | 106    | 106    | 105    | 105    | 104    | 104    |
| Ireland                  | 11     | 12     | 9      | 8       | 8      | 8      | 9      | 9       | 7      | 8          | 9       | 9       | 9      | 9      | 9      | 9      | 9      | 9      | 9      | 8      | 8      |
|                          |        |        |        |         |        |        |        |         | te     | onnes/hect | are     |         |        |        |        |        |        |        |        |        |        |
| Yield                    |        |        |        |         |        |        |        |         |        |            |         |         |        |        |        |        |        |        |        |        |        |
| England                  | 7.6    | 7.7    | 6.7    | 7.4     | 8.6    | 9.0    | 7.9    | 8.3     | 8.0    | 8.2        | 7.1     | 8.1     | 8.2    | 8.2    | 8.3    | 8.4    | 8.4    | 8.5    | 8.5    | 8.6    | 8.6    |
| Wales                    | 7.1    | 7.5    | 5.8    | 6.5     | 7.6    | 8.0    | 7.3    | 7.4     | 7.7    | 8.5        | 7.1     | 8.0     | 8.1    | 8.2    | 8.3    | 8.3    | 8.4    | 8.5    | 8.6    | 8.6    | 8.7    |
| Scotland<br>Northern     | 8.6    | 8.3    | 6.7    | 7.5     | 9.1    | 9.1    | 8.1    | 8.6     | 6.7    | 8.2        | 7.1     | 8.2     | 8.3    | 8.3    | 8.4    | 8.5    | 8.5    | 8.6    | 8.6    | 8.7    | 8.8    |
| Ireland                  | 8.2    | 7.8    | 6.0    | 7.3     | 7.5    | 8.0    | 7.0    | 7.7     | 7.0    | 7.5        | 7.5     | 7.6     | 7.7    | 7.7    | 7.8    | 7.9    | 7.9    | 8.0    | 8.0    | 8.1    | 8.1    |
|                          |        |        |        |         |        |        |        |         | th     | ousand tor | nnes    |         |        |        |        |        |        |        |        |        |        |
| Production               |        |        |        |         |        |        |        |         |        |            |         |         |        |        |        |        |        |        |        |        |        |
| England                  | 13,664 | 14,040 | 12,383 | 11,111  | 15,389 | 15,185 | 13,241 | 13,722  | 12,964 | 13,768     | 9,155   | 14,121  | 13,676 | 13,728 | 13,708 | 13,791 | 13,849 | 13,895 | 13,948 | 14,016 | 14,103 |
| Wales                    | 172    | 193    | 148    | 99      | 164    | 176    | 157    | 158     | 162    | 179        | 142     | 171     | 169    | 171    | 172    | 172    | 173    | 173    | 174    | 174    | 175    |
| Scotland                 | 953    | 957    | 673    | 653     | 989    | 1019   | 926    | 889     | 713    | 848        | 695     | 890     | 884    | 893    | 897    | 900    | 901    | 902    | 903    | 905    | 908    |
| Northern<br>Ireland      | 89     | 90     | 56     | 58      | 64     | 64     | 60     | 67      | 48     | 61         | 64      | 72      | 71     | 70     | 70     | 69     | 69     | 68     | 68     | 68     | 67     |

| Year                 | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019      | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| UK                   |       |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
| Aroa                 |       |       |       |       |       |       |       |       | thou  | sand hec  | tares |       |       |       |       |       |       |       |       |       |       |
| Area<br>harvested    | 921   | 970   | 1,002 | 1,213 | 1,080 | 1,101 | 1,122 | 1,177 | 1,138 | 1,162     | 1,370 | 1,115 | 1,147 | 1,147 | 1,138 | 1,136 | 1,134 | 1,132 | 1,130 | 1,128 | 1,128 |
|                      |       |       |       |       |       |       |       |       | tho   | usand tor | nnes  |       |       |       |       |       |       |       |       |       |       |
| Production           | 5,252 | 5,494 | 5,522 | 7,092 | 6,911 | 7,370 | 6,655 | 7,169 | 6,426 | 7,204     | 7,467 | 6,802 | 7,033 | 7,069 | 7,063 | 7,099 | 7,123 | 7,144 | 7,167 | 7,198 | 7,239 |
| Domestic use         | 5,373 | 5,112 | 5,055 | 5,405 | 5,670 | 5,482 | 5,745 | 6,095 | 5,893 | 5,937     | 6,969 | 6,245 | 6,306 | 6,341 | 6,373 | 6,398 | 6,424 | 6,445 | 6,462 | 6,477 | 6,492 |
| Net Export           | 915   | 671   | 428   | 668   | 1,030 | 1,431 | 1,672 | 928   | 749   | 1,725     | 625   | 536   | 677   | 711   | 682   | 693   | 686   | 688   | 694   | 710   | 734   |
|                      |       |       |       |       |       |       |       |       |       | £/100 kg  |       |       |       |       |       |       |       |       |       |       |       |
| Prices               | 10.63 | 15.52 | 16.74 | 15.80 | 12.00 | 10.46 | 10.21 | 11.78 | 14.82 | 12.88     | 15.64 | 13.73 | 13.42 | 13.23 | 13.09 | 13.04 | 12.89 | 12.75 | 12.61 | 12.49 | 12.37 |
| Area Harvested       | d     |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
|                      |       |       |       |       |       |       |       |       | thou  | sand hec  | tares |       |       |       |       |       |       |       |       |       |       |
| England              | 586   | 615   | 623   | 828   | 709   | 748   | 791   | 842   | 807   | 832       | 981   | 785   | 823   | 825   | 818   | 820   | 820   | 821   | 821   | 822   | 824   |
| Wales                | 20    | 23    | 22    | 20    | 21    | 22    | 22    | 22    | 23    | 20        | 23    | 22    | 22    | 22    | 21    | 21    | 21    | 21    | 21    | 21    | 21    |
| Scotland<br>Northern | 290   | 308   | 332   | 339   | 327   | 308   | 287   | 291   | 288   | 291       | 343   | 285   | 281   | 279   | 277   | 274   | 272   | 270   | 267   | 265   | 263   |
| Ireland              | 24    | 24    | 26    | 26    | 24    | 23    | 22    | 21    | 21    | 20        | 23    | 22    | 22    | 21    | 21    | 21    | 21    | 21    | 20    | 20    | 20    |
| Yield                |       |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
|                      |       |       |       |       |       |       |       |       | tor   | nes/hect  | are   |       |       |       |       |       |       |       |       |       |       |
| England              | 5.5   | 5.6   | 5.7   | 5.9   | 6.5   | 6.9   | 6.0   | 6.1   | 5.7   | 6.1       | 5.4   | 6.2   | 6.2   | 6.2   | 6.3   | 6.3   | 6.3   | 6.4   | 6.4   | 6.4   | 6.5   |
| Wales                | 5.4   | 5.7   | 4.9   | 5.6   | 5.6   | 6.0   | 5.6   | 5.3   | 5.1   | 6.4       | 5.6   | 5.8   | 5.8   | 5.9   | 5.9   | 5.9   | 5.9   | 6.0   | 6.0   | 6.0   | 6.0   |
| Scotland<br>Northern | 6.0   | 6.1   | 5.2   | 5.9   | 6.3   | 6.3   | 5.7   | 6.1   | 5.6   | 6.3       | 5.6   | 6.0   | 6.0   | 6.1   | 6.1   | 6.1   | 6.1   | 6.2   | 6.2   | 6.2   | 6.3   |
| Ireland              | 5.7   | 5.7   | 5.0   | 5.4   | 5.8   | 6.2   | 5.6   | 5.4   | 5.1   | 6.4       | 5.6   | 5.8   | 5.8   | 5.8   | 5.8   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 6.0   |
| Production           |       |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
|                      |       |       |       |       |       |       |       |       | tho   | usand tor | nnes  |       |       |       |       |       |       |       |       |       |       |
| England              | 3,247 | 3,428 | 3,565 | 4,844 | 4,583 | 5,171 | 4,782 | 5,154 | 4,560 | 5,102     | 5,292 | 4,836 | 5,090 | 5,129 | 5,128 | 5,170 | 5,203 | 5,233 | 5,264 | 5,301 | 5,346 |
| Wales                | 109   | 130   | 106   | 115   | 116   | 132   | 123   | 115   | 115   | 126       | 131   | 127   | 126   | 126   | 126   | 126   | 126   | 126   | 126   | 126   | 126   |
| Scotland<br>Northern | 1,756 | 1,867 | 1,723 | 1,994 | 2,076 | 1,927 | 1,625 | 1,785 | 1,611 | 1,836     | 1,904 | 1,711 | 1,692 | 1,689 | 1,685 | 1,680 | 1,672 | 1,664 | 1,657 | 1,651 | 1,648 |
| Ireland              | 139   | 138   | 127   | 140   | 136   | 140   | 125   | 114   | 105   | 126       | 131   | 128   | 125   | 124   | 124   | 123   | 122   | 121   | 121   | 120   | 119   |

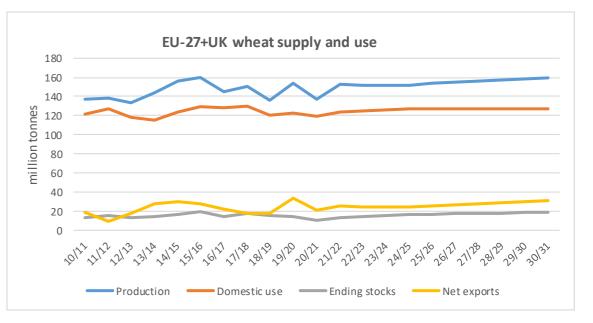
Table 4. UK Rapeseed

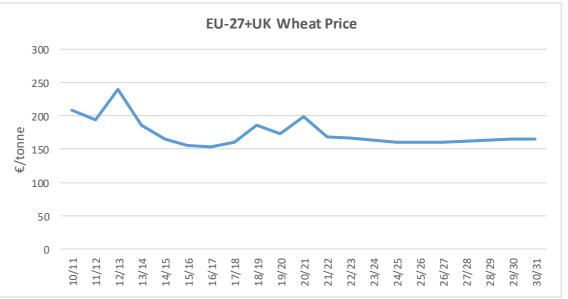
| Year                   | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019      | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| UK                     |       |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
|                        |       |       |       |       |       |       |       |       | thous | and hecta | res   |       |       |       |       |       |       |       |       |       |       |
| Area                   |       |       |       |       |       |       |       |       |       |           |       |       |       |       |       |       |       |       |       |       |       |
| harvested              | 642   | 705   | 756   | 715   | 675   | 652   | 579   | 562   | 583   | 530       | 356   | 353   | 383   | 399   | 425   | 419   | 414   | 410   | 407   | 404   | 400   |
|                        |       |       |       |       |       |       |       |       | thou  | sand tonn | es    |       |       |       |       |       |       |       |       |       |       |
| Production<br>Domestic | 2,230 | 2,758 | 2,557 | 2,128 | 2,460 | 2,542 | 1,775 | 2,167 | 2,012 | 1,752     | 1,069 | 1,452 | 1,577 | 1,649 | 1,762 | 1,747 | 1,731 | 1,723 | 1,716 | 1,712 | 1,705 |
| use                    | 2,134 | 2,164 | 1,658 | 1,867 | 2,176 | 2,322 | 1,539 | 2,369 | 2,083 | 2,032     | 2,069 | 2,109 | 2,076 | 2,057 | 2,047 | 2,050 | 2,052 | 2,049 | 2,051 | 2,054 | 2,055 |
| Net Export             | 96    | 595   | 1,039 | 262   | 284   | 220   | 236   | - 203 | - 71  | - 280     | - 672 | - 528 | - 454 | - 410 | - 287 | - 303 | - 322 | - 326 | - 335 | - 341 | - 350 |
|                        |       |       |       |       |       |       |       |       | f     | E/100 kg  |       |       |       |       |       |       |       |       |       |       |       |
| Prices                 | 22.94 | 37.70 | 36.71 | 34.12 | 27.24 | 27.44 | 30.18 | 35.37 | 32.19 | 33.00     | 39.82 | 32.95 | 32.11 | 31.40 | 30.96 | 30.84 | 30.36 | 30.54 | 30.52 | 30.49 | 30.20 |

# EU-27+UK Crops<sup>1</sup>

The impact of the weather on 2020 crop area was huge. Wheat area fell by more than 2 million hectares. Some of this area was offset by higher barley and other crops but overall crop area was still down. Wheat area is projected to increase again in 2021 to above 26 million hectares for EU-27+UK. Production in 2021 is projected to be higher as yields recover. Net exports are projected to increase over the period, as demand does not grow as fast as yield growth.

Prices are based on information available in January 2021. In the years following the commodity price spike in 2007 cereal prices exhibited several years of high volatility, peaking again in 2012 as drought hit the Midwest of the U.S. Since then prices have been less volatile and settled at lower levels as global yields have exceeded trends. Short crops are expected to boost prices in the 20/21 crop year. Thereafter an assumption of normal yields results in prices level at just over 150 euro per tonne on average for the region.

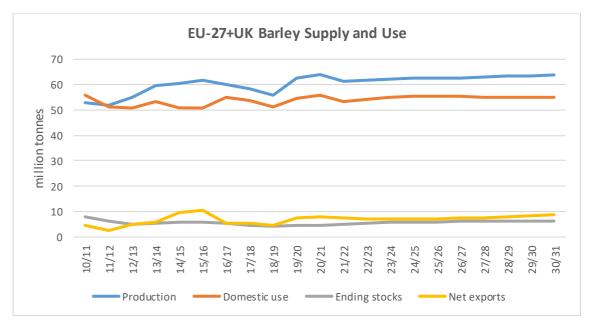


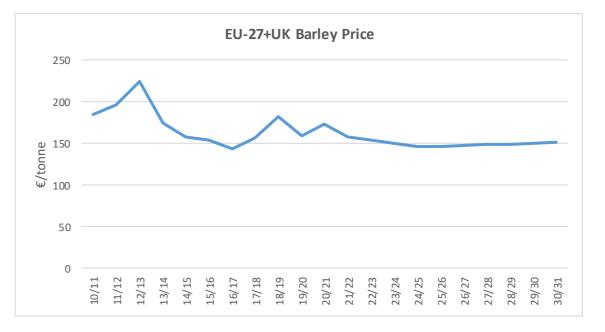


<sup>&</sup>lt;sup>1</sup> Figures and tables are labelled as crop marketing years

Barley area increased in 2020 as wheat area fell, and is estimated to have reached 12.6 million hectares for the EU-27+UK, significantly higher than it had been in the previous decade. Area is expected to fall back in 2021 to about 12.1 million hectares. As we assume average weather conditions barley area is not projected to be as high as 12.6 million hectares, but 2020 shows how unusual weather patterns can impact area. Another uncertainty surrounds rapeseed area. In these projections we assume a modest recovery in rapeseed area and some of this comes at the cost of barley area.

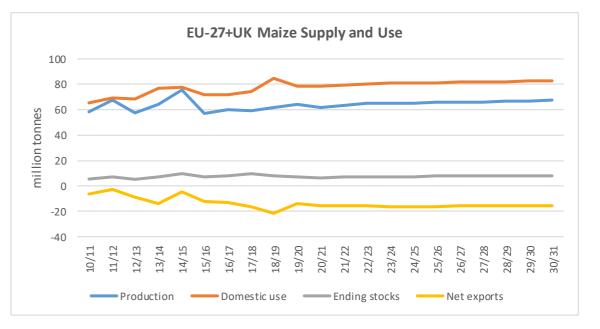
Despite the fall in area over the projections, increases in yields result in a production levels rising to end the period close to the levels seen in 2020. Increases in domestic use are projected to be smaller than production so there is an increase in net exports but these do not exceed 10 million tonnes. Barley prices are projected to be lower than that of wheat for the EU customs union area, slightly lower than those for wheat around €150 per tonne.

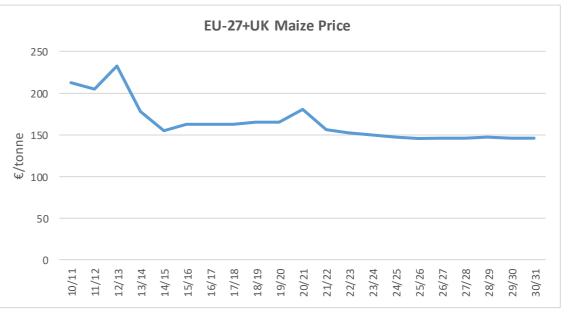




Maize prices peaked in 2012 and 2013 after a series of poor yield years globally but especially in the midwest of the U.S.A. These peaks were followed by below trend global yields and this resulted in prices falling, and along with it maize area in the EU. In recent years, as maize prices have recovered (and internal demand in the EU has been strong), area has risen again. In 2020, area harvested is expected to have risen to 8.9 million hectares. Projected lower prices mean that future area is projected to fall.

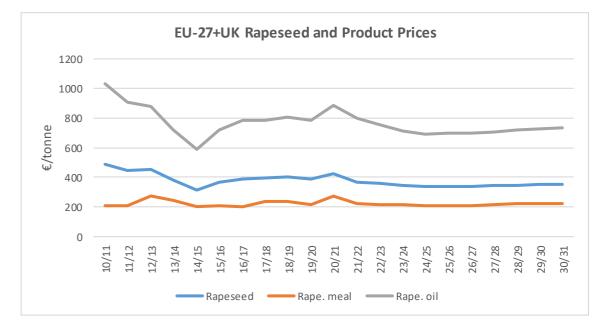
Maize prices had begun to increase in early 2021 when these projections were finalised. Since then prices have continued to rise as a result of 2020 production levels but also aggressive purchasing from China. If these levels of purchases continue, it is likely that prices might rise further and see a higher area for corn than is projected here. The Chinese market is a major driver for most commodities, but its patterns of purchases are not always easily predictable. In this case, the rapid re-build of the pig herd and increased concentration of production has dramatically increased the demand for feedstocks.

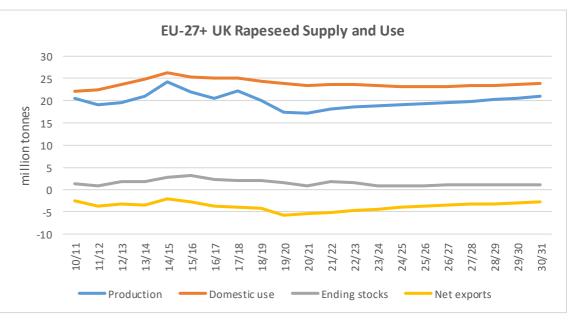




As recently as 2018, EU-27+UK rapeseed area stood at 6.9 million hectares. Since then a combination of bad weather at planting and neonicotinoid related restrictions has seen area fall dramatically. In 2020, area was 5.5 million hectares. *Strategie Grains* is projecting a total area of around that amount for 2021 as well. An improvement in weather at planting could lead to an increase in area. In the projections we have a small increase in area over the projections but we do not have area over 6 million hectares for any of the years.

Along with the uncertainty regarding the regulations surrounding rapeseed cultivation there are also uncertainties regarding the demand for rapeseed oil. The biodiesel sector in the EU has been a source of demand for the rapeseed sector. 2020 saw a dramatic drop in the number of miles driven due to COVID-19. Demand for fuel will recover but the scope for expansion of the biodiesel market is limited and alternative feedstocks have become more popular, so demand for rapeseed oil in the future appears unlikely to expand much.





| Table 5. | EU-27+UK | Wheat Suppl | y and Utilization |
|----------|----------|-------------|-------------------|
|----------|----------|-------------|-------------------|

| Crop year           | 10/11  | 11/12  | 12/13  | 13/14  | 14/15  | 15/16  | 16/17  | 17/18  | 18/19  | 19/20              | 20/21             | 21/22  | 22/23  | 23/24  | 24/25  | 25/26  | 26/27  | 27/28  | 28/29  | 29/30  | 30/31  |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |        |        |        |        |        |        |        |        |        | thousand           | l hectares        |        |        |        |        |        |        |        |        |        |        |
| Area                |        |        |        |        |        |        |        |        |        |                    |                   |        |        |        |        |        |        |        |        |        |        |
| harvested           | 26,199 | 26,320 | 25,754 | 25,663 | 26,855 | 26,829 | 27,076 | 26,189 | 25,583 | 26,004<br>tonnes/ł | 24,229<br>nectare | 26,080 | 25,932 | 25,855 | 25,715 | 25,794 | 25,840 | 25,883 | 25,906 | 25,962 | 26,036 |
| Yield               | 5.22   | 5.25   | 5.18   | 5.59   | 5.82   | 5.96   | 5.37   | 5.75   | 5.30   | 5.94<br>million t  | 5.64<br>onnes     | 5.86   | 5.83   | 5.87   | 5.91   | 5.95   | 5.98   | 6.01   | 6.05   | 6.09   | 6.13   |
| Production          | 136.7  | 138.1  | 133.4  | 143.5  | 156.4  | 159.9  | 145.3  | 150.6  | 135.5  | 154.4              | 136.6             | 152.7  | 151.2  | 151.8  | 152.0  | 153.4  | 154.5  | 155.6  | 156.8  | 158.1  | 159.5  |
| Beginning<br>stocks | 17.1   | 13.5   | 15.6   | 13.8   | 14.0   | 16.7   | 19.5   | 14.8   | 17.9   | 15.9               | 14.3              | 10.4   | 13.4   | 14.6   | 15.6   | 16.3   | 16.9   | 17.4   | 17.8   | 18.2   | 18.6   |
| Imports             | 4.6    | 7.4    | 5.3    | 4.0    | 6.0    | 6.9    | 5.3    | 5.8    | 5.8    | 4.8                | 4.9               | 4.9    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.9    | 4.9    | 4.9    | 4.9    |
| Total supply        | 158.4  | 158.9  | 154.3  | 161.2  | 176.4  | 183.5  | 170.2  | 171.2  | 159.2  | 175.1              | 155.8             | 168.1  | 169.5  | 171.4  | 172.6  | 174.7  | 176.4  | 178.0  | 179.5  | 181.2  | 183.0  |
| Domestic use        | 121.8  | 126.6  | 117.7  | 115.2  | 124.2  | 129.2  | 128.0  | 129.8  | 120.0  | 122.4              | 119.1             | 124.0  | 125.2  | 126.3  | 126.7  | 126.8  | 127.1  | 127.3  | 127.3  | 127.4  | 127.6  |
| Feed                | 51.5   | 57.0   | 50.0   | 48.0   | 55.0   | 59.0   | 56.0   | 58.0   | 51.5   | 52.5               | 48.2              | 50.7   | 51.1   | 51.8   | 51.9   | 52.1   | 52.3   | 52.5   | 52.5   | 52.5   | 52.6   |
| Fuel                | 4.6    | 4.3    | 3.3    | 3.2    | 3.5    | 3.5    | 4.4    | 4.1    | 3.4    | 3.0                | 3.4               | 3.8    | 3.9    | 4.0    | 4.0    | 3.9    | 3.8    | 3.7    | 3.7    | 3.6    | 3.6    |
| Other               | 65.7   | 65.3   | 64.4   | 64.0   | 65.7   | 66.7   | 67.6   | 67.8   | 65.1   | 66.9               | 67.6              | 69.5   | 70.2   | 70.5   | 70.8   | 70.9   | 71.0   | 71.1   | 71.2   | 71.3   | 71.3   |
| Exports             | 23.1   | 16.7   | 22.8   | 32.0   | 35.5   | 34.8   | 27.4   | 23.4   | 23.3   | 38.4               | 26.3              | 30.7   | 29.7   | 29.5   | 29.6   | 30.9   | 31.8   | 32.8   | 34.0   | 35.2   | 36.4   |
| Ending stocks       | 13.5   | 15.6   | 13.8   | 14.0   | 16.7   | 19.5   | 14.8   | 17.9   | 15.9   | 14.3               | 10.4              | 13.4   | 14.6   | 15.6   | 16.3   | 16.9   | 17.4   | 17.8   | 18.2   | 18.6   | 19.0   |
| Net exports         | 18.5   | 9.4    | 17.5   | 28.1   | 29.5   | 27.8   | 22.1   | 17.6   | 17.5   | 33.6               | 21.4              | 25.8   | 24.8   | 24.5   | 24.6   | 25.9   | 26.9   | 27.9   | 29.0   | 30.3   | 31.5   |
|                     |        |        |        |        |        |        |        |        | €ŗ     | per tonne,         | July-June         |        |        |        |        |        |        |        |        |        |        |
| Market price        | 208.0  | 194.6  | 239.7  | 186.5  | 165.6  | 156.2  | 153.4  | 161.1  | 186.4  | 173.6              | 199.5             | 168.1  | 166.4  | 163.0  | 160.5  | 160.2  | 160.8  | 161.9  | 163.5  | 164.7  | 165.6  |

| Table 6. EU-2 | 7 and UK Barl | ey Supply | y and Utilization |
|---------------|---------------|-----------|-------------------|
|---------------|---------------|-----------|-------------------|

| Crop year         | 10/11  | 11/12  | 12/13  | 13/14  | 14/15  | 15/16  | 16/17  | 17/18  | 18/19     | 19/20             | 20/21             | 21/22  | 22/23  | 23/24  | 24/25  | 25/26  | 26/27  | 27/28  | 28/29  | 29/30  | 30/31  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   |        |        |        |        |        |        |        |        |           | thousan           | d hectares        |        |        |        |        |        |        |        |        |        |        |
| Area              |        |        |        |        |        |        |        |        |           |                   |                   |        |        |        |        |        |        |        |        |        |        |
| harvested         | 12,238 | 11,928 | 12,458 | 12,321 | 12,391 | 12,181 | 12,301 | 12,021 | 12,301    | 12,211<br>tonnes/ | 12,611<br>hectare | 12,091 | 12,023 | 12,033 | 12,033 | 11,932 | 11,860 | 11,817 | 11,783 | 11,752 | 11,726 |
| Yield             | 4.33   | 4.35   | 4.40   | 4.84   | 4.88   | 5.06   | 4.87   | 4.86   | 4.53      | 5.12<br>million   | 5.07<br>connes    | 5.07   | 5.13   | 5.17   | 5.21   | 5.25   | 5.29   | 5.33   | 5.36   | 5.41   | 5.45   |
| Production        | 52.9   | 51.9   | 54.8   | 59.7   | 60.5   | 61.7   | 59.9   | 58.4   | 55.7      | 62.5              | 64.0              | 61.3   | 61.7   | 62.3   | 62.7   | 62.7   | 62.7   | 62.9   | 63.2   | 63.5   | 63.9   |
| Beginning         |        |        |        |        |        |        |        |        |           |                   |                   |        |        |        |        |        |        |        |        |        |        |
| stocks<br>Imports | 15.6   | 7.9    | 6.1    | 5.0    | 5.6    | 5.8    | 5.9    | 5.4    | 4.6       | 4.2               | 4.6               | 4.7    | 5.1    | 5.4    | 5.6    | 5.9    | 6.0    | 6.1    | 6.1    | 6.1    | 6.2    |
| Total supply      | 0.2    | 0.5    | 0.1    | 0.0    | 0.1    | 0.3    | 0.4    | 0.5    | 0.1       | 0.6               | 0.3               | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    |
| · oopp./          | 68.7   | 60.3   | 60.9   | 64.8   | 66.2   | 67.7   | 66.2   | 64.3   | 60.5      | 67.4              | 68.8              | 66.2   | 67.0   | 67.9   | 68.6   | 68.8   | 69.0   | 69.3   | 69.6   | 69.9   | 70.3   |
| Domestic use      | 55.9   | 51.2   | 50.9   | 53.4   | 50.9   | 51.0   | 55.1   | 53.8   | 51.3      | 54.7              | 55.8              | 53.3   | 54.2   | 55.1   | 55.4   | 55.3   | 55.3   | 55.2   | 55.1   | 55.0   | 55.0   |
| Feed              | 41.3   | 35.8   | 35.5   | 38.0   | 35.7   | 36.5   | 40.1   | 39.0   | 36.5      | 40.2              | 41.2              | 38.0   | 38.6   | 39.3   | 39.6   | 39.7   | 39.8   | 39.8   | 39.9   | 39.9   | 39.9   |
| Fuel              | 0.5    | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    | 0.2    | 0.3       | 0.3               | 0.2               | 0.2    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.2    | 0.2    | 0.2    |
| Other             | 14.0   | 15.1   | 15.1   | 15.1   | 14.9   | 14.3   | 14.8   | 14.5   | 14.6      | 14.2              | 14.4              | 15.1   | 15.3   | 15.5   | 15.5   | 15.4   | 15.2   | 15.1   | 15.0   | 14.9   | 14.8   |
| Exports           | 4.9    | 3.0    | 5.0    | 5.7    | 9.5    | 10.8   | 5.7    | 5.9    | 4.9       | 8.1               | 8.2               | 7.9    | 7.5    | 7.2    | 7.3    | 7.5    | 7.7    | 8.0    | 8.4    | 8.7    | 9.1    |
| Ending stocks     | 7.9    | 6.1    | 5.0    | 5.6    | 5.8    | 5.9    | 5.4    | 4.6    | 4.2       | 4.6               | 4.7               | 5.1    | 5.4    | 5.6    | 5.9    | 6.0    | 6.1    | 6.1    | 6.1    | 6.2    | 6.2    |
| Net exports       | 4.7    | 2.6    | 4.9    | 5.7    | 9.5    | 10.5   | 5.3    | 5.4    | 4.8<br>€∣ | 7.5<br>per tonne, | 8.0<br>July-June  | 7.6    | 7.2    | 6.9    | 7.0    | 7.2    | 7.4    | 7.7    | 8.1    | 8.5    | 8.9    |
| Market price      | 184.4  | 195.5  | 224.0  | 173.9  | 156.9  | 153.6  | 143.1  | 156.2  | 181.6     | 159.4             | 173.0             | 157.4  | 154.1  | 149.8  | 146.5  | 146.1  | 146.8  | 147.9  | 148.9  | 149.8  | 150.5  |

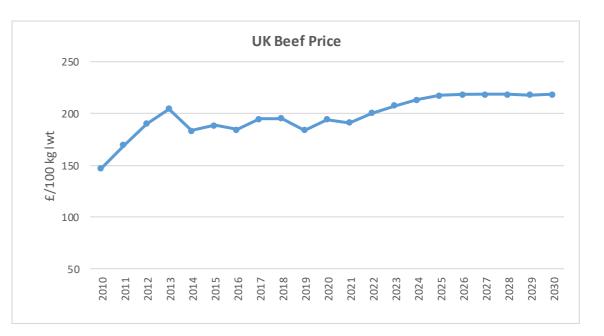
| Crop year               | 10/11 | 11/12 | 12/13 | 13/14 | 14/15 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 20/21       | 21/22        | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 | 30/31 |
|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         |       |       |       |       |       |       |       |       |       |       | thousand h  | nectares     |       |       |       |       |       |       |       |       |       |
| Area<br>harvested       | 8,404 | 9,259 | 9,590 | 9,770 | 9,600 | 9,340 | 8,620 | 8,510 | 8,230 | 8,830 | 8,910       | 8,620        | 8,403 | 8,328 | 8,329 | 8,324 | 8,319 | 8,312 | 8,309 | 8,308 | 8,302 |
|                         |       |       |       |       |       |       |       |       |       |       | tonnes/heo  | tare         |       |       |       |       |       |       |       |       |       |
| Yield                   | 6.99  | 7.34  | 6.01  | 6.61  | 7.87  | 6.10  | 6.94  | 6.97  | 7.48  | 7.29  | 6.93        | 7.37         | 7.71  | 7.78  | 7.82  | 7.87  | 7.90  | 7.94  | 8.00  | 8.05  | 8.11  |
|                         |       |       |       |       |       |       |       |       |       |       | million ton | nes          |       |       |       |       |       |       |       |       |       |
| Production<br>Beginning | 58.7  | 67.9  | 57.6  | 64.6  | 75.5  | 57.0  | 59.8  | 59.3  | 61.6  | 64.4  | 61.8        | 63.5         | 64.8  | 64.8  | 65.2  | 65.5  | 65.7  | 66.0  | 66.4  | 66.9  | 67.3  |
| stocks                  | 5.6   | 5.2   | 6.7   | 5.1   | 6.9   | 9.6   | 6.9   | 7.5   | 9.2   | 7.7   | 7.2         | 6.4          | 6.7   | 7.0   | 7.2   | 7.4   | 7.5   | 7.7   | 7.7   | 7.8   | 7.9   |
| Imports                 | 7.4   | 6.1   | 11.4  | 16.0  | 8.9   | 14.0  | 15.0  | 18.5  | 25.3  | 18.6  | 18.1        | 18.2         | 18.2  | 18.3  | 18.3  | 18.2  | 18.2  | 18.2  | 18.2  | 18.1  | 18.1  |
| Total supply            | 71.7  | 79.3  | 75.6  | 85.7  | 91.3  | 80.6  | 81.7  | 85.4  | 96.0  | 90.6  | 87.1        | 88.1         | 89.7  | 90.0  | 90.6  | 91.1  | 91.5  | 91.9  | 92.3  | 92.8  | 93.3  |
| Domestic use            | 65.3  | 69.3  | 68.3  | 76.4  | 77.7  | 71.8  | 71.9  | 74.4  | 84.7  | 78.7  | 78.3        | 79.0         | 80.5  | 80.7  | 81.1  | 81.4  | 81.6  | 81.8  | 82.0  | 82.3  | 82.6  |
| Feed                    | 49.9  | 54.0  | 53.0  | 58.0  | 59.5  | 55.5  | 55.0  | 57.0  | 67.0  | 60.0  | 61.1        | 60.8         | 61.8  | 61.8  | 62.1  | 62.4  | 62.6  | 62.9  | 63.1  | 63.4  | 63.6  |
| Fuel                    | 3.3   | 3.8   | 4.9   | 5.7   | 5.8   | 5.1   | 4.9   | 6.1   | 5.9   | 4.9   | 4.7         | 5.2          | 5.4   | 5.5   | 5.5   | 5.4   | 5.2   | 5.2   | 5.1   | 5.0   | 5.0   |
| Other                   | 12.1  | 11.5  | 10.4  | 12.7  | 12.4  | 11.2  | 12.0  | 11.4  | 11.8  | 13.8  | 12.4        | 13.0         | 13.3  | 13.4  | 13.6  | 13.7  | 13.7  | 13.8  | 13.9  | 13.9  | 14.0  |
| Exports                 | 1.1   | 3.3   | 2.2   | 2.4   | 4.0   | 2.0   | 2.2   | 1.8   | 3.6   | 4.8   | 2.4         | 2.4          | 2.2   | 2.1   | 2.1   | 2.2   | 2.2   | 2.3   | 2.5   | 2.6   | 2.7   |
| Ending stocks           | 5.2   | 6.7   | 5.1   | 6.9   | 9.6   | 6.9   | 7.5   | 9.2   | 7.7   | 7.2   | 6.4         | 6.7          | 7.0   | 7.2   | 7.4   | 7.5   | 7.7   | 7.7   | 7.8   | 7.9   | 8.0   |
| Net exports             | -6.3  | -2.8  | -9.2  | -13.6 | -4.9  | -12.1 | -12.8 | -16.7 | -21.6 | -13.8 | -15.7       | -15.7        | -16.0 | -16.2 | -16.2 | -16.1 | -16.0 | -15.9 | -15.7 | -15.5 | -15.4 |
|                         |       |       |       |       |       |       |       |       |       |       | € per tonne | e, July-June |       |       |       |       |       |       |       |       |       |
| Market price            | 211.8 | 205.1 | 232.4 | 178.2 | 154.1 | 162.2 | 162.0 | 162.9 | 164.9 | 164.6 | 180.6       | 156.5        | 152.4 | 150.0 | 146.7 | 145.4 | 145.5 | 146.0 | 146.4 | 146.3 | 146.2 |

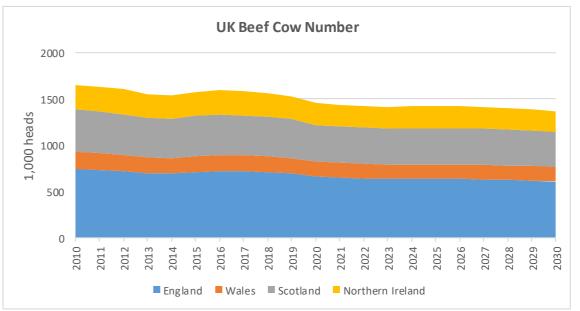
Table 7. EU-27 and UK Maize for Grain Supply and Utilization

### UK Cattle and Beef

The UK beef price has been on an upward trend since 2010, averaging £184 per 100 kg between 2010 and 2019 and £189 per 100 kg between 2015 and 2019. In the projection period, the UK beef price continues to increase, then flattens out from 2025 at 12% above the 2020 value. The increase in beef price is partially due to the decreasing trend in UK (and EU) suckler cow numbers.

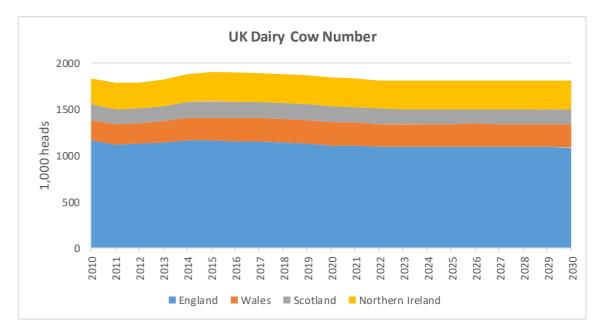
Historically the number of beef cows in the UK have been contracting. Looking forward, this trend in beef cow number continues, resulting in 13% fewer beef cows in 2030 compared to the ten-year average leading up to 2020.

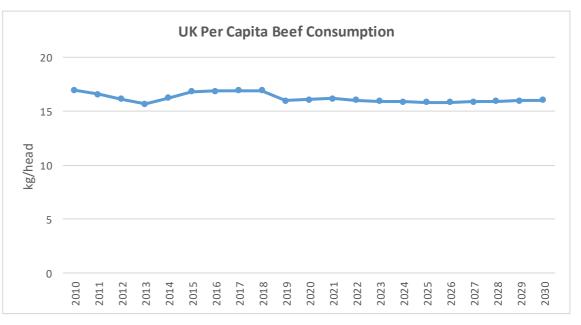




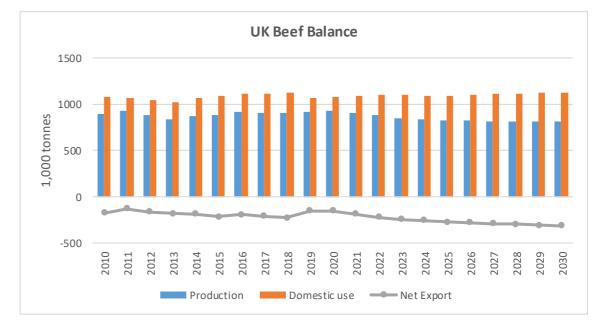
Dairy cow numbers have also been declining, partly due to productivity increases sustaining production by higher yields and smaller herds. This trend continues in the projection period, resulting in 2% fewer dairy cows in 2030 compared to the ten-year average leading up to 2020.

Prior to COVID-19 it appears that the long run downward trend in beef consumption in previous decades had ceased. Beef per capita consumption is projected to be relatively stable at approximately 16 kg per head throughout the projection period. This is 3% lower than the ten-year average leading up to 2020.





While per capita consumption is steady over the projection period, population growth leads to an increase in total beef consumption. Therefore, while domestic beef production will decrease, use increases. Given these trends, the UK remains a net importer of beef, with an increase of 27% in beef imports expected over the projection period.



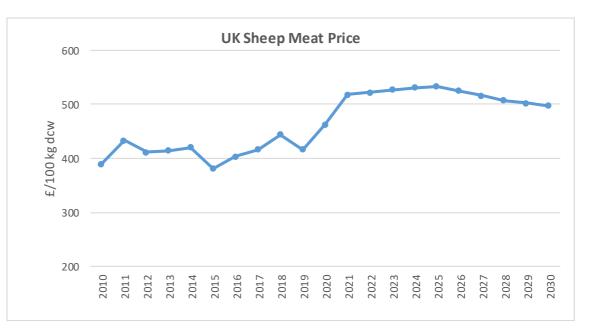
#### Table 8. UK Cattle and Beef

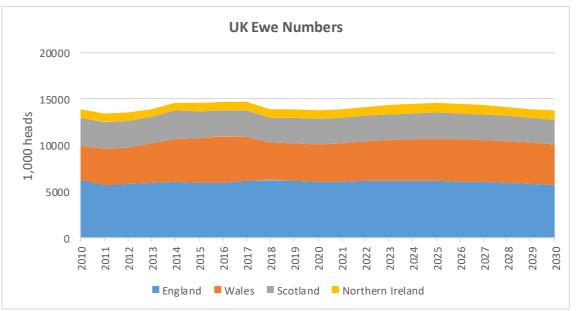
| Year             | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020      | 2021      | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cattle           |       |       |       |       |       |       |       |       |       |       |           |           |       |       |       |       |       |       |       |       |       |
| Suckler cows     |       |       |       |       |       |       |       |       |       | tho   | ousand he | ads       |       |       |       |       |       |       |       |       |       |
| England          | 745   | 730   | 718   | 699   | 695   | 713   | 721   | 721   | 712   | 699   | 665       | 654       | 645   | 639   | 638   | 637   | 636   | 632   | 626   | 619   | 610   |
| Wales            | 184   | 181   | 177   | 168   | 164   | 167   | 168   | 168   | 167   | 164   | 158       | 154       | 153   | 153   | 154   | 155   | 156   | 156   | 156   | 155   | 154   |
| Scotland         | 460   | 450   | 431   | 429   | 423   | 437   | 437   | 433   | 424   | 417   | 397       | 394       | 392   | 391   | 391   | 392   | 392   | 391   | 388   | 384   | 380   |
| Northern Ireland | 261   | 269   | 276   | 258   | 254   | 260   | 270   | 267   | 256   | 247   | 235       | 233       | 233   | 234   | 235   | 237   | 237   | 236   | 234   | 231   | 227   |
| Dairy cows       |       |       |       |       |       |       |       |       |       | tho   | ousand he | ads       |       |       |       |       |       |       |       |       |       |
| England          | 1,164 | 1,122 | 1,123 | 1,139 | 1,164 | 1,162 | 1,156 | 1,150 | 1,143 | 1,131 | 1,109     | 1,110     | 1,096 | 1,093 | 1,092 | 1,093 | 1,093 | 1,091 | 1,090 | 1,088 | 1,088 |
| Wales            | 222   | 218   | 222   | 229   | 238   | 246   | 249   | 251   | 254   | 252   | 253       | 249       | 245   | 246   | 247   | 249   | 250   | 250   | 251   | 252   | 253   |
| Scotland         | 168   | 162   | 163   | 167   | 174   | 176   | 175   | 174   | 175   | 176   | 171       | 166       | 162   | 161   | 161   | 161   | 161   | 160   | 160   | 159   | 159   |
| Northern Ireland | 278   | 281   | 278   | 282   | 306   | 312   | 317   | 316   | 311   | 314   | 313       | 305       | 307   | 306   | 307   | 308   | 308   | 308   | 308   | 308   | 308   |
| Total Cattle     | 9,924 | 9,687 | 9,749 | 9,682 | 9,693 | 9,816 | 9,806 | 9,787 | 9,610 | 9,495 | 9,371     | 9,130     | 8,944 | 8,810 | 8,725 | 8,677 | 8,647 | 8,622 | 8,593 | 8,556 | 8,514 |
| Beef and Veal    |       |       |       |       |       |       |       |       |       | tho   | usand ton | nes       |       |       |       |       |       |       |       |       |       |
| Production       | 897   | 931   | 877   | 840   | 871   | 880   | 916   | 904   | 901   | 917   | 930       | 902       | 877   | 853   | 835   | 824   | 819   | 818   | 816   | 815   | 812   |
| Domestic use     | 1,076 | 1,062 | 1,040 | 1,019 | 1,061 | 1,095 | 1,108 | 1,116 | 1,125 | 1,067 | 1,080     | 1,091     | 1,097 | 1,095 | 1,094 | 1,095 | 1,101 | 1,108 | 1,116 | 1,123 | 1,129 |
| Net export       | -178  | -132  | -163  | -180  | -190  | -214  | -192  | -212  | -225  | -150  | -150      | -189      | -220  | -242  | -259  | -271  | -282  | -291  | -299  | -307  | -316  |
|                  |       |       |       |       |       |       |       |       |       |       | £/100 kg, | liveweigh | t     |       |       |       |       |       |       |       |       |
| Price (GB)       | 147   | 169   | 190   | 204   | 183   | 189   | 184   | 195   | 195   | 184   | 194       | 191       | 200   | 208   | 213   | 217   | 218   | 218   | 218   | 218   | 218   |

# UK Sheep and Sheep Meat

UK sheep meat price shows an increasing trend with the exception of 2019 when price declined 6% (to £416 per 100 kg dead weight), before recovering in 2020 (showing a year on year increase of 11%). Prices remain relatively flat for the first half of the projection period, followed by a slight decline of about 1.5% a year. The EU sheep meat price is on average higher than the UK price by £0.66 per kg between 2020 and 2030. UK and EU price trends diverge from 2025, with EU prices remaining relatively static and the UK price declining.

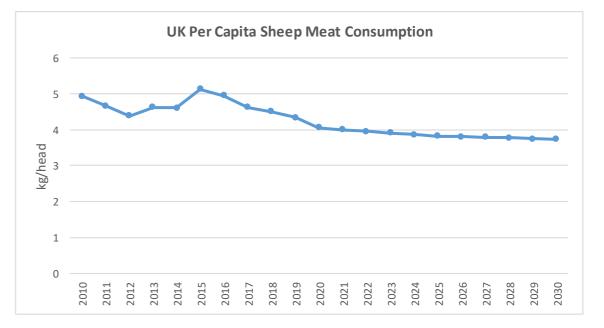
UK ewe numbers have fluctuated within a range of 4%, above and below the average number (14 million head) over the period between 2010 and 2020. Ewe numbers increase by about 1% per year, in response to increasing sheep meat prices in the first half of the projection period, peaking at 14.5 million head in 2025, then decline to under 14 million by 2030.





Per capita sheep meat consumption has been trending downwards in the UK, with a 20% decline in consumption between 2015 and 2020. The relatively high price of sheep meat leads consumers to substitute for other meats on the market. The downward trend in per capita sheep meat consumption continues over the projection period resulting in per capita consumption of less than 4 kg per head in 2030.

UK sheep meat production has averaged 300 thousand tonnes in the ten years leading up to 2020. Looking forward, sheep meat production remains close to the historic average. Domestic use of sheep meat declines over the projection period due to decreasing per capita consumption and strong prices. The UK is a net exporter throughout the projection period.



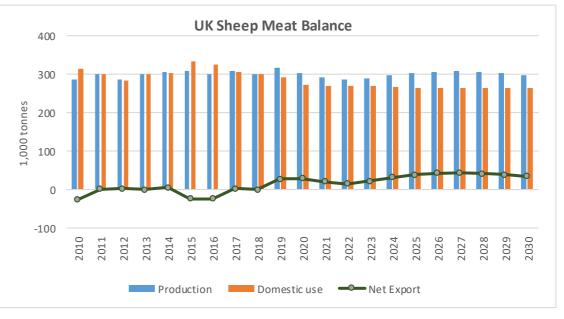


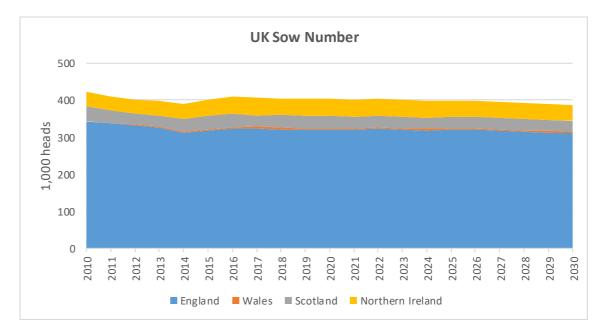
Table 9. UK Sheep and Sheep Meat

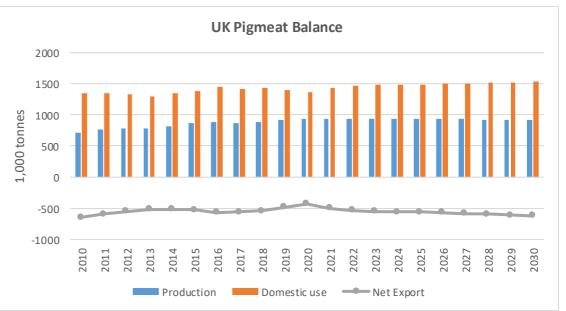
| Year                   | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019     | 2020       | 2021   | 2022   | 2023   | 2024   | 2025   | 2026   | 2027   | 2028   | 2029   | 2030   |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sheep                  |        |        |        |        |        |        |        |        |        |          |            |        |        |        |        |        |        |        |        |        |        |
| Ewes                   |        |        |        |        |        |        |        |        |        | thousand | heads      |        |        |        |        |        |        |        |        |        |        |
| England                | 6,227  | 5,651  | 5,791  | 5,982  | 6,053  | 5,902  | 5,920  | 6,153  | 6,230  | 6,119    | 6,067      | 6,058  | 6,112  | 6,159  | 6,166  | 6,145  | 6,089  | 6,003  | 5,893  | 5,776  | 5,660  |
| Wales                  | 3,792  | 3,988  | 3,923  | 4,197  | 4,635  | 4,923  | 5,050  | 4,763  | 4,030  | 4,053    | 4,019      | 4,116  | 4,261  | 4,387  | 4,481  | 4,542  | 4,567  | 4,562  | 4,539  | 4,512  | 4,477  |
| Scotland               | 2,933  | 2,900  | 2,939  | 2,882  | 3,039  | 2,883  | 2,798  | 2,815  | 2,752  | 2,763    | 2,740      | 2,750  | 2,787  | 2,820  | 2,833  | 2,831  | 2,811  | 2,776  | 2,729  | 2,677  | 2,626  |
| Northern<br>Ireland    | 891    | 927    | 922    | 865    | 890    | 914    | 913    | 928    | 886    | 906      | 898        | 916    | 957    | 989    | 1,006  | 1,015  | 1,015  | 1,006  | 992    | 975    | 959    |
| Total<br>sheep         | 21,347 | 22,007 | 23,029 | 22,027 | 22,687 | 23,106 | 23,671 | 23,239 | 22,283 | 22,756   | 22,563     | 22,455 | 22,800 | 23,176 | 23,417 | 23,517 | 23,472 | 23,289 | 22,986 | 22,655 | 22,309 |
| Sheep meat             |        |        |        |        |        |        |        |        |        | thousand | heads      |        |        |        |        |        |        |        |        |        |        |
| Production<br>Domestic | 287    | 301    | 286    | 300    | 306    | 309    | 300    | 309    | 299    | 318      | 303        | 291    | 285    | 290    | 298    | 303    | 307    | 308    | 306    | 302    | 297    |
| use                    | 313    | 299    | 283    | 300    | 302    | 334    | 325    | 306    | 300    | 291      | 273        | 270    | 271    | 269    | 267    | 265    | 264    | 264    | 264    | 264    | 263    |
| Net Export             | -26    | 2      | 2      | -1     | 5      | -24    | -25    | 3      | -1     | 27       | 29         | 21     | 14     | 22     | 31     | 38     | 42     | 44     | 42     | 38     | 34     |
|                        |        |        |        |        |        |        |        |        |        | £/100kg  | , deadweig | t      |        |        |        |        |        |        |        |        |        |
| Price (GB)             | 389.6  | 432.9  | 411.0  | 414.8  | 420.3  | 380.8  | 403.0  | 416.0  | 444.0  | 416.0    | 462.7      | 518.5  | 522.5  | 526.7  | 531.0  | 533.1  | 525.0  | 516.5  | 507.7  | 502.3  | 497.5  |

# UK Pig and Poultry

UK sow numbers have been stable at just over 400 thousand from 2015 to 2020. Sow numbers trend downwards slightly in the projection period, as there is an expectation that efficiency gains continue to reduce the number of sows needed for the same level of production.

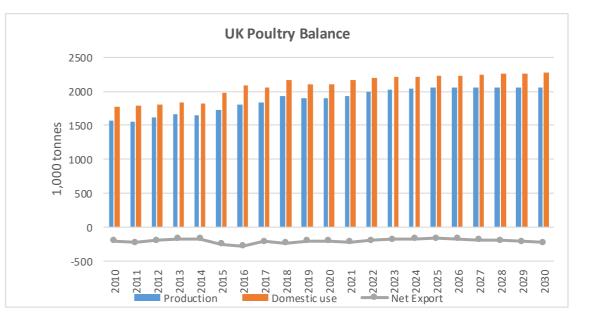
UK pig meat production has shown steady growth since 2017, driven largely by production efficiencies within the sector. Over the projection period however, pig meat production is expected to show a modest decline due to strong competition from imports, reaching about 913 thousand tonnes in 2030. Domestic use exceeds production, and the shortfall widens slightly during the projection period, therefore net imports increase.

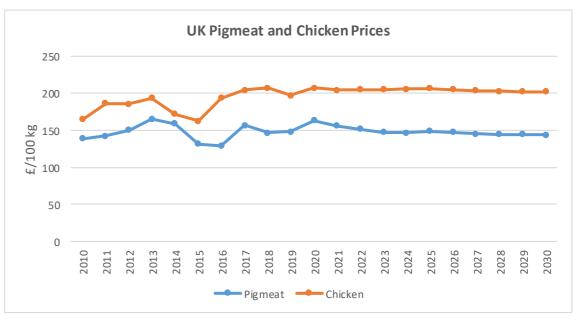




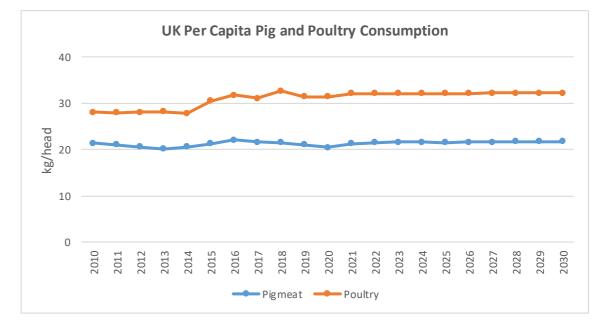
Poultry production has been trending upwards in the UK. In the projection period, this trend continues with production in 2030 18% above the ten-year average leading up to 2020. Domestic use has also increased, particularly from 2015, and this continues in the projection period. However, despite production increases, domestic use continues to exceed production, with the UK remaining a net importer.

Pig meat and chicken prices have fluctuated between 2010 and 2020. Projections cannot anticipate market volatility due to short-term shocks, and underlying conditions suggest pig and poultry prices will be relatively stable. Pig meat price remains close to the ten-year average leading up to 2020. In contrast chicken prices increase, on average 9% higher than the ten-year historic average for 2010 to 2020. From 2016, the UK chicken price has run above the EU price. This continues throughout the projection period, with an average gap of £0.29 per kg.





UK per capita poultry meat consumption has been increasing, particularly after 2014. In the projection period, consumption levels out after recovering from the dip in 2020 to around 32 kg per head. Pig meat consumption has been flatter in the recent past, and remains stable in the projection period, closing at 22 kg per head by 2030.



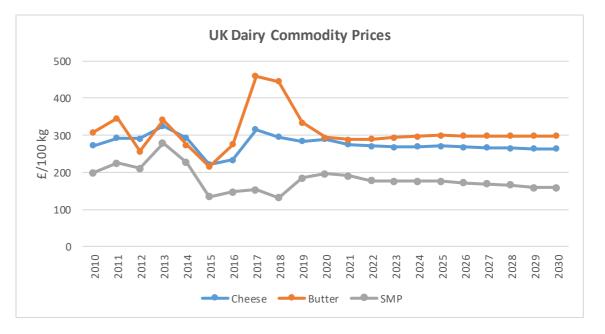
#### Table 10. UK Pigs, Pork and Poultry Meat

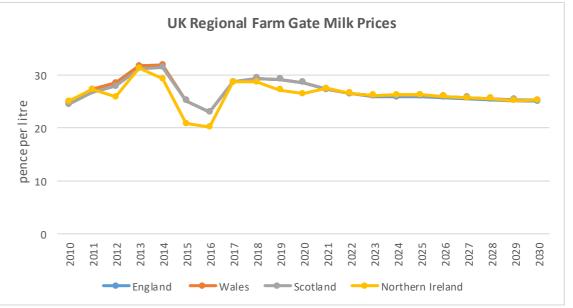
| Year             | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019     | 2020     | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Pigs             |       |       |       |       |       |       |       |       |       |          |          |       |       |       |       |       |       |       |       |       |      |
| Sows             |       |       |       |       |       |       |       |       |       | thousar  | nd heads |       |       |       |       |       |       |       |       |       |      |
| England          | 342   | 337   | 332   | 326   | 313   | 317   | 324   | 325   | 322   | 320      | 320      | 320   | 324   | 321   | 319   | 321   | 320   | 317   | 315   | 313   | 311  |
| Wales            | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3        | 3        | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4    |
| Scotland         | 39    | 32    | 28    | 28    | 33    | 37    | 38    | 31    | 36    | 34       | 34       | 32    | 32    | 31    | 31    | 31    | 31    | 30    | 30    | 30    | 30   |
| Northern Ireland | 39    | 38    | 37    | 41    | 41    | 43    | 44    | 47    | 44    | 47       | 46       | 45    | 45    | 44    | 44    | 44    | 44    | 44    | 43    | 43    | 43   |
| Pig meat         |       |       |       |       |       |       |       |       |       |          |          |       |       |       |       |       |       |       |       |       |      |
| Production       | 710   | 759   | 776   | 787   | 822   | 861   | 887   | 867   | 891   | 922      | 943      | 938   | 937   | 938   | 933   | 929   | 930   | 929   | 924   | 918   | 91   |
| Domestic use     | 1,354 | 1,347 | 1,327 | 1,305 | 1,345 | 1,383 | 1,450 | 1,422 | 1,430 | 1,404    | 1,373    | 1,438 | 1,469 | 1,485 | 1,492 | 1,491 | 1,499 | 1,510 | 1,518 | 1,523 | 1,53 |
| Net Export       | -644  | -589  | -546  | -515  | -517  | -523  | -563  | -555  | -539  | -482     | -430     | -499  | -533  | -548  | -559  | -562  | -569  | -580  | -594  | -606  | -61  |
| ·                |       |       |       |       |       |       |       |       | £/1   | .00 kg   |          |       |       |       |       |       |       |       |       |       |      |
| Pig meat Price   | 139   | 142   | 150   | 165   | 159   | 132   | 129   | 157   | 147   | 148      | 163      | 156   | 152   | 148   | 147   | 149   | 148   | 146   | 144   | 144   | 14   |
| Poultry meat     |       |       |       |       |       |       |       |       |       | thousar  | nd heads |       |       |       |       |       |       |       |       |       |      |
| Production       | 1,570 | 1,559 | 1,609 | 1,661 | 1,646 | 1,731 | 1,803 | 1,837 | 1,937 | 1,900    | 1,900    | 1,937 | 1,996 | 2,027 | 2,046 | 2,060 | 2,062 | 2,061 | 2,057 | 2,054 | 2,05 |
| Domestic use     | 1,776 | 1,784 | 1,807 | 1,832 | 1,818 | 1,983 | 2,086 | 2,051 | 2,170 | 2,100    | 2,110    | 2,164 | 2,195 | 2,206 | 2,214 | 2,222 | 2,233 | 2,244 | 2,254 | 2,264 | 2,27 |
| Net Export       | -207  | -225  | -198  | -169  | -170  | -249  | -281  | -211  | -232  | -200     | -201     | -215  | -198  | -180  | -168  | -161  | -171  | -183  | -197  | -210  | -22  |
| •                |       |       |       |       |       |       |       |       |       | £/1      | 00 kg    |       |       |       |       |       |       |       |       |       |      |
| Chicken Price    | 165   | 187   | 185   | 194   | 172   | 163   | 193   | 204   | 207   | ,<br>197 | 207      | 204   | 205   | 205   | 206   | 207   | 205   | 204   | 203   | 203   | 20   |

# **UK Dairy**

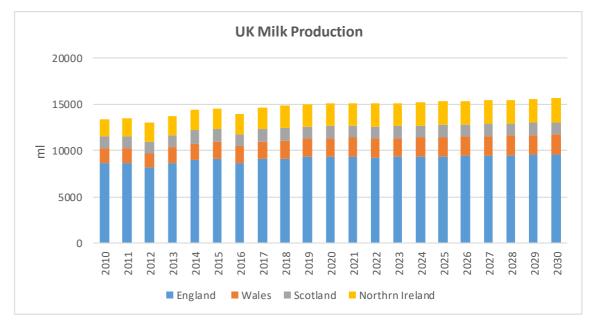
UK dairy commodity prices have fluctuated over recent years, with butter price peaking in 2017.. Looking forward, butter price and cheese price remain relatively flat over the projection period with cheese price tracking below the butter price. SMP trends down slightly post-2020, staying below the ten-year historic average price. Volatility is expected to continue in this market, and it could be that increasing demand as restaurants reopen could see butter prices in particular spike.

Due to a relatively greater dependence on commodity markets in Northern Ireland, producer prices tend to run below those in Great Britain (GB) as milk for liquid consumption achieves a price premium over manufacturing use and contributes relatively more to farm gate prices in GB. In 2020, Northern Ireland's farm-gate milk price was approximately 2 pence per litre below that of the GB. In the projection period, the gap narrows considerably due to the unique status of Northern Ireland with respect to EU trade. However, this does not prevent a downward trend, as farm-gate milk prices in all countriess of the UK decrease about 5% over the course of the projection period.





Milk production has been trending upwards. Looking forward this continues, with average production up 3% in the end of the projection period compared to the ten-years leading up to 2020. The only significant volumes of liquid milk entering or leaving the UK is in relation to the Republic of Ireland, which can continue due to the Northern Ireland Protocol.



**UK Milk Utilisation** 20000 15000 <u>E</u> 10000 5000 Ο 2010 2011 2012 2015 2016 2018 2019 2020 2024 2025 2026 2013 2014 2017 2021 2022 2023 2028 2030 2029 2027 Fluid milk for manufacture Liquid milk consumption

Liquid milk consumption has remained relatively stable historically, with manufacturing absorbing any variability in annual production. Due to the increase in production going forward, milk for manufacture also increases over the projection period.

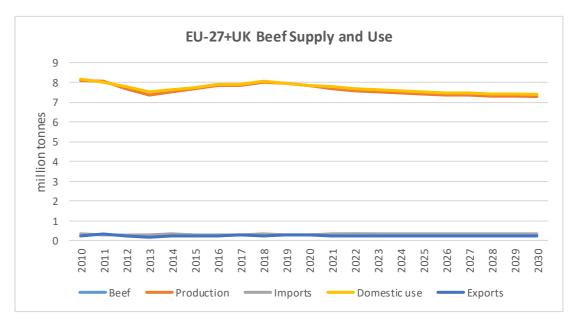
#### Table 11. Dairy Products

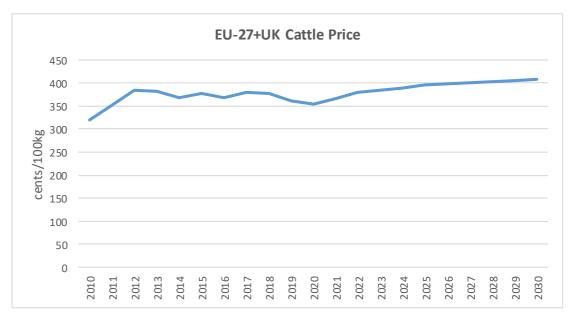
| Year                            | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020      | 2021     | 2022   | 2023   | 2024   | 2025   | 2026   | 2027   | 2028   | 2029   | 2030   |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                 |        |        |        |        |        |        |        |        |        |        | thousand  | d heads  |        |        |        |        |        |        |        |        |        |
| Dairy cows                      | 1,832  | 1,783  | 1,786  | 1,817  | 1,883  | 1,895  | 1,897  | 1,891  | 1,883  | 1,871  | 1,846     | 1,846    | 1,810  | 1,806  | 1,807  | 1,811  | 1,811  | 1,809  | 1,808  | 1,807  | 1,808  |
|                                 |        |        |        |        |        |        |        |        |        |        | ml        |          |        |        |        |        |        |        |        |        |        |
| Milk production                 | 13,332 | 13,494 | 12,974 | 13,680 | 14,394 | 14,541 | 13,930 | 14,582 | 14,801 | 14,981 | 15,066    | 15,130   | 15,033 | 15,071 | 15,162 | 15,276 | 15,358 | 15,419 | 15,487 | 15,553 | 15,639 |
|                                 |        |        |        |        |        |        |        |        |        |        | thousand  | d tonnes |        |        |        |        |        |        |        |        |        |
| Cheese                          |        |        |        |        |        |        |        |        |        |        |           |          |        |        |        |        |        |        |        |        |        |
| Production                      | 376    | 395    | 397    | 384    | 408    | 435    | 442    | 457    | 465    | 468    | 476       | 470      | 455    | 456    | 461    | 467    | 471    | 474    | 477    | 479    | 484    |
| Domestic use                    | 699    | 685    | 715    | 731    | 747    | 777    | 768    | 779    | 798    | 795    | 772       | 806      | 836    | 843    | 847    | 851    | 857    | 863    | 868    | 873    | 877    |
| Net export                      | -323   | -290   | -319   | -343   | -335   | -343   | -326   | -322   | -333   | -327   | -296      | -336     | -381   | -387   | -386   | -384   | -386   | -389   | -391   | -394   | -393   |
| Butter                          |        |        |        |        |        |        |        |        |        |        |           |          |        |        |        |        |        |        |        |        |        |
| Production                      | 120    | 130    | 145    | 142    | 143    | 150    | 143    | 161    | 152    | 188    | 185       | 186      | 186    | 188    | 189    | 192    | 193    | 193    | 194    | 196    | 197    |
| Domestic use                    | 199    | 194    | 209    | 203    | 188    | 205    | 178    | 197    | 174    | 198    | 198       | 204      | 206    | 207    | 207    | 207    | 208    | 208    | 209    | 210    | 211    |
| Net export                      | -75    | -64    | -66    | -61    | -44    | -56    | -35    | -36    | -22    | -9     | -13       | -18      | -20    | -19    | -17    | -15    | -15    | -15    | -15    | -14    | -14    |
| <b>Prices</b><br>Farm gate milk |        |        |        |        |        |        |        |        |        |        | ppl, £/10 | 00 kg    |        |        |        |        |        |        |        |        |        |
| (EN)                            | 24.7   | 27.3   | 28.5   | 31.7   | 31.9   | 25.1   | 23.0   | 28.7   | 29.4   | 29.2   | 28.6      | 27.3     | 26.4   | 26.0   | 25.9   | 26.0   | 25.8   | 25.5   | 25.4   | 25.2   | 25.1   |
| Cheese                          | 272.0  | 292.0  | 290.6  | 325.2  | 293.0  | 221.0  | 233.2  | 315.3  | 295.2  | 283.9  | 290.0     | 275.5    | 270.9  | 268.8  | 270.1  | 271.2  | 268.7  | 266.4  | 265.4  | 264.1  | 264.4  |
| Butter                          | 309.2  | 345.9  | 256.6  | 342.1  | 274.0  | 215.2  | 274.6  | 459.1  | 444.9  | 333.8  | 294.5     | 288.9    | 290.4  | 293.3  | 296.4  | 299.8  | 298.9  | 298.1  | 297.9  | 298.1  | 298.2  |
| SMP                             | 198.4  | 224.4  | 210.9  | 278.9  | 226.7  | 133.5  | 146.9  | 152.9  | 130.9  | 185.1  | 196.2     | 189.6    | 177.6  | 175.2  | 175.7  | 175.3  | 171.7  | 168.5  | 165.8  | 159.2  | 158.7  |
| WMP                             | 259.4  | 273.3  | 256.0  | 335.3  | 274.1  | 203.1  | 229.7  | 293.0  | 277.4  | 277.0  | 285.3     | 311.6    | 297.1  | 294.6  | 295.1  | 294.6  | 289.9  | 285.4  | 282.4  | 273.3  | 274.2  |

### EU-27+UK Livestock and Dairy

Given the relatively favourable price outlook and assumption of continued coupled payment schemes in some member states the beef cow herd for the EU-27+UK is stable, and even increases slightly in the latter years partly due to the relatively low feed prices. Dairy herds decline, however, as yields increase and this means that the volume of beef produced falls. Beef consumption falls also as prices rise and the EU population gets older.

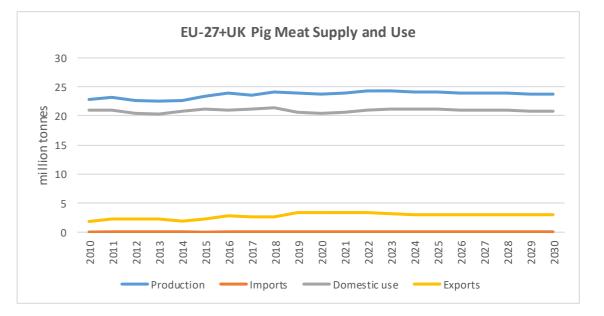
The price of beef has been relatively stable over the last decade fluctuating within a €50 band. The fall in the availability of beef as the cow herd declines pushes prices up over the projection period and ends at €40 per 1000 kg. With trade projected to be stable, the price outlook for the sector depends on the evolution of the dairy cow herd and consumer preferences.

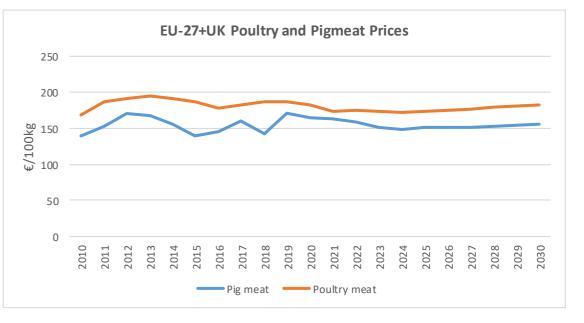




The rapid decline in the Chinese pig herd as a result of African Swine Fever (ASF) has had a huge impact on global pork markets. Although Europe has also been impacted by ASF, herd sizes have been maintained and when the Chinese market has been available for exports this has increased prices. Exports have increased at the expense of domestic use. In the longer term, China is assumed to recover from ASF and EU exports are projected to return to normal.

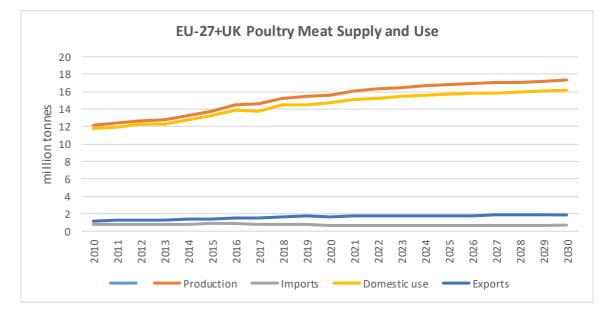
ASF in China has increased EU pork prices, with the experience between regions depending on whether China is taking exports or implements some sort of temporary ban. As exports fall the price falls – with the fall in price dependant to some extent on how much the Chinese rebuild their herd. The new herd will eventually be more efficient than the old, but probably at a smaller size. The relatively low cereals prices also pull down prices of poultry in the longer term.

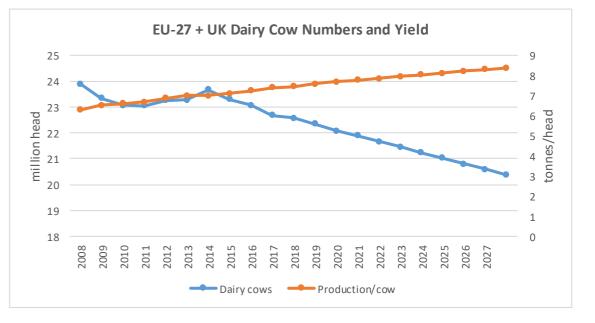




Favourable feed prices enable a continued expansion of the poultry flock in the EU. In the model poultry meat production and consumption are projected to increase at a slightly reduced rate relative to recent history. A small increase in net exports is projected.

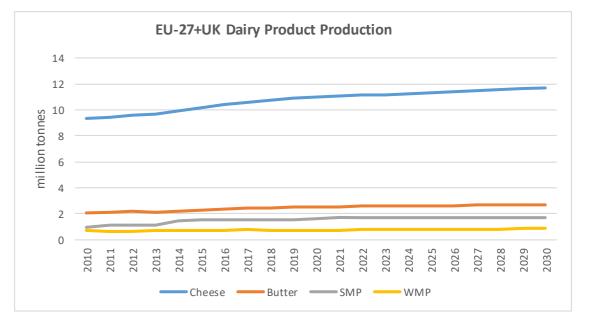
In the early part of the last decade, the elimination of quotas led to an expansion in the size of the dairy herd. In recent years, the long term trend of a reduction in dairy cow numbers has continued, and this is projected for the outlook period (note the truncated scale on the chart for cow numbers). Yields are projected to continue to rise at the same rate as recent history, and milk production rises over the projection. The low projected feed prices would encourage expansion but there are likely to be increasingly binding in the future.

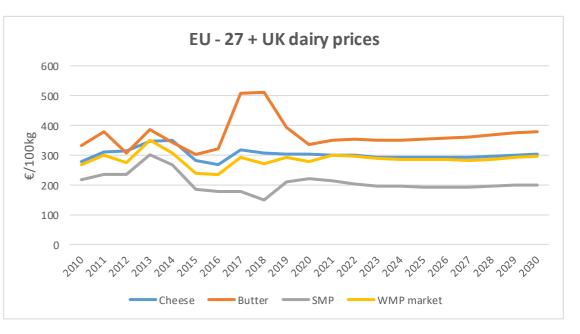




Much of the additional milk that is produced goes into cheese although the other products expand production as well. All of the four modelled dairy products show higher exports at the end of the projection period. Expanding global incomes should provide for market opportunities for the EU. It does appear that major competitors for Asian markets such as Australia and New Zealand will find it hard to expand production. The U.S.A. has been expanding production rapidly and is likely to also increase exports.

Dairy prices have been incredibly volatile in recent years and are expected to remain so. Both supply and demand for dairy products can be very unresponsive to price changes and this means that any disruption can lead to big price changes, as we have seen for butter in recent years. At time of writing butter prices are spiking again. In general, for product prices we would see higher global incomes and growth in consumption of dairy products having a positive impact on prices. But if feed prices moderate after their recent rise this will encourage milk production and have the opposite effect. The euro/dollar exchange rate will be an important determinant of the competitiveness of the sector.





| Table 12. | EU-27+  | and | UК  | Cattle | and | beef |
|-----------|---------|-----|-----|--------|-----|------|
| TUDIC IZ. | LO 2/ · | ana | 0.1 | Cuttic | ana | NCCI |

| Year             | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020     | 2021        | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cattle           |       |       |       |       |       |       |       |       |       |       | million  | head        |       |       |       |       |       |       |       |       |       |
| Beginning        |       |       |       |       |       |       |       |       |       |       |          |             |       |       |       |       |       |       |       |       |       |
| inventories      | 89.9  | 87.9  | 87.1  | 87.3  | 87.7  | 88.4  | 89.1  | 89.5  | 88.8  | 87.5  | 86.6     | 85.5        | 84.5  | 83.8  | 83.2  | 82.8  | 82.5  | 82.3  | 82.1  | 81.9  | 81.   |
| Dairy cows       | 23.9  | 23.3  | 23.1  | 23.0  | 23.3  | 23.3  | 23.3  | 23.7  | 23.1  | 22.7  | 22.7     | 22.6        | 22.2  | 22.0  | 21.8  | 21.6  | 21.4  | 21.2  | 21.0  | 20.7  | 20.   |
| Suckler cows     | 12.4  | 12.4  | 12.2  | 12.0  | 12.0  | 12.1  | 12.3  | 12.4  | 12.3  | 12.2  | 12.2     | 12.1        | 12.1  | 12.2  | 12.4  | 12.6  | 12.8  | 13.0  | 13.1  | 13.3  | 13.4  |
| Cattle slaughter | 29.0  | 28.7  | 27.4  | 26.1  | 26.1  | 26.3  | 26.9  | 26.9  | 27.1  | 27.1  | 27.1     | 26.4        | 26.1  | 25.7  | 25.5  | 25.4  | 25.3  | 25.2  | 25.1  | 25.0  | 24.9  |
| Slaughter weight | 279.5 | 279.7 | 280.7 | 282.3 | 288.2 | 291.5 | 291.5 | 292.4 | 294.9 | 292.8 | 288.4    | 291.0       | 291.0 | 291.3 | 291.4 | 291.6 | 291.8 | 291.8 | 291.9 | 292.0 | 292.1 |
| Beef and veal    |       |       |       |       |       |       |       |       |       |       | thousa   | nd tonnes   |       |       |       |       |       |       |       |       |       |
| Production       | 8,095 | 8,032 | 7,696 | 7,378 | 7,532 | 7,657 | 7,851 | 7,856 | 8,003 | 7,928 | 7,817    | 7,689       | 7,584 | 7,500 | 7,444 | 7,406 | 7,373 | 7,350 | 7,327 | 7,307 | 7,283 |
| Non-EU imports   | 321   | 286   | 275   | 304   | 308   | 300   | 304   | 285   | 312   | 296   | 299      | 322         | 343   | 340   | 335   | 331   | 326   | 322   | 325   | 328   | 331   |
| Domestic use     | 8,162 | 7,991 | 7,761 | 7,521 | 7,632 | 7,747 | 7,907 | 7,871 | 8,064 | 7,937 | 7,858    | 7,774       | 7,697 | 7,612 | 7,552 | 7,510 | 7,473 | 7,447 | 7,428 | 7,413 | 7,393 |
| Non-EU exports   | 253   | 327   | 210   | 161   | 208   | 211   | 248   | 270   | 251   | 287   | 258      | 237         | 229   | 227   | 227   | 226   | 225   | 225   | 223   | 221   | 220   |
| Stock change     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0           | 0     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | -     |
|                  |       |       |       |       |       |       |       |       |       |       | kg per ( | capita, cwe | 9     |       |       |       |       |       |       |       |       |
| Beef and veal    | 16.4  | 16.0  | 15.5  | 15.0  | 15.2  | 15.4  | 15.7  | 15.5  | 15.9  | 15.6  | 15.4     | 15.3        | 15.1  | 14.9  | 14.8  | 14.7  | 14.7  | 14.6  | 14.6  | 14.6  | 14.   |
|                  |       |       |       |       |       |       |       |       |       |       | €per 1   | 00 kilograr | ns    |       |       |       |       |       |       |       |       |
| Young cattle R3  | 319.7 | 352.1 | 383.8 | 381.6 | 367.6 | 377.2 | 367.5 | 379.7 | 378.3 | 361.0 | 353.9    | 366.0       | 379.6 | 384.9 | 389.0 | 394.8 | 399.1 | 401.7 | 404.0 | 406.0 | 408.3 |

| Table 13. EU-27+UK Pigs, Poultry and Pork |
|---|
|---|

| Year                                | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020           | 2021               | 2022   | 2023   | 2024   | 2025   | 2026   | 2027   | 2028   | 2029   | 2030   |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pigs                                |        |        |        |        |        |        |        |        |        |        | million h      | ead                |        |        |        |        |        |        |        |        |        |
| Beginning<br>inventories            | 152.9  | 152.5  | 149.9  | 147.0  | 146.2  | 148.3  | 148.7  | 147.2  | 150.3  | 148.2  | 147.9          | 150.1              | 152.0  | 153.4  | 153.0  | 151.6  | 150.9  | 150.7  | 150.1  | 149.3  | 148.7  |
| Sows                                | 14.1   | 13.7   | 13.3   | 12.7   | 12.5   | 12.5   | 12.3   | 12.0   | 12.2   | 11.8   | 11.8           | 11.9               | 12.0   | 12.0   | 11.9   | 11.8   | 11.7   | 11.7   | 11.6   | 11.5   | 11.4   |
| Pig slaughter                       | 256.0  | 259.3  | 252.5  | 250.8  | 252.8  | 258.4  | 261.6  | 258.3  | 261.7  | 258.4  | 257.8          | 261.2              | 264.2  | 265.5  | 264.2  | 262.2  | 261.4  | 260.9  | 259.7  | 258.5  | 257.6  |
| Slaughter weight<br><b>Pig meat</b> | 89.4   | 89.4   | 90.0   | 89.9   | 89.9   | 90.7   | 91.2   | 91.6   | 92.0   | 92.6   | 92.3           | 91.7               | 91.7   | 91.6   | 91.7   | 91.8   | 91.9   | 91.9   | 92.0   | 92.1   | 92.2   |
| Production                          | 22,879 | 23,189 | 22,714 | 22,555 | 22,737 | 23,436 | 23,866 | 23,660 | 24,082 | 23,916 | 23,797         | 23,954             | 24,226 | 24,323 | 24,212 | 24,079 | 24,020 | 23,980 | 23,898 | 23,810 | 23,750 |
| Non-EU imports                      | 30     | 18     | 20     | 16     | 14     | 11     | 12     | 14     | 15     | 17     | 17             | 17                 | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     |
| Domestic use                        | 21,065 | 21,018 | 20,543 | 20,333 | 20,803 | 21,229 | 21,065 | 21,101 | 21,419 | 20,590 | 20,436         | 20,568             | 20,935 | 21,162 | 21,228 | 21,109 | 21,061 | 21,024 | 20,953 | 20,852 | 20,772 |
| Non-EU exports                      | 1,844  | 2,189  | 2,191  | 2,238  | 1,948  | 2,218  | 2,813  | 2,574  | 2,678  | 3,344  | 3,378          | 3,381              | 3,294  | 3,161  | 2,989  | 2,984  | 2,974  | 2,969  | 2,958  | 2,973  | 2,993  |
| Stock change                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0              | 7                  | 14     | 17     | 11     | 3      | 4      | 4      | 3      | 2      | 3      |
|                                     |        |        |        |        |        |        |        |        |        |        | kg per ca      | ipita, cwe         |        |        |        |        |        |        |        |        |        |
| Pig meat                            | 42.3   | 42.1   | 41.0   | 40.5   | 41.4   | 42.1   | 41.7   | 41.7   | 42.2   | 40.5   | 40.2           | 40.4               | 41.1   | 41.5   | 41.7   | 41.5   | 41.4   | 41.3   | 41.2   | 41.0   | 40.9   |
| Pig meat                            |        |        |        |        |        |        |        |        |        |        | € per 10       | 0 kilogram         | S      |        |        |        |        |        |        |        |        |
| reference                           | 140.2  | 153.2  | 170.5  | 168.0  | 156.4  | 139.6  | 146.0  | 160.7  | 142.6  | 171.0  | 164.3          | 163.1              | 158.2  | 151.6  | 149.0  | 151.4  | 151.9  | 152.0  | 153.0  | 154.8  | 155.8  |
| Poultry meat                        |        |        |        |        |        |        |        |        |        |        |                |                    |        |        |        |        |        |        |        |        |        |
| Production                          | 12,154 | 12,381 | 12,716 | 12,805 | 13,263 | 13,788 | 14,494 | 14,557 | 15,253 | 15,492 | 15,647         | 16,111             | 16,331 | 16,489 | 16,643 | 16,801 | 16,926 | 17,023 | 17,125 | 17,233 | 17,344 |
| Non-EU imports                      | 796    | 831    | 841    | 791    | 821    | 855    | 882    | 789    | 802    | 814    | 716            | 710                | 708    | 707    | 705    | 704    | 703    | 702    | 702    | 701    | 700    |
| Domestic use                        | 11,800 | 11,922 | 12,233 | 12,285 | 12,719 | 13,254 | 13,831 | 13,817 | 14,464 | 14,552 | 14,714         | 15,123             | 15,282 | 15,423 | 15,558 | 15,698 | 15,810 | 15,897 | 15,986 | 16,080 | 16,178 |
|                                     |        |        | -      |        | ·      |        | -      |        |        |        |                |                    |        |        |        |        |        |        |        |        |        |
| Non-EU exports                      | 1,150  | 1,290  | 1,324  | 1,311  | 1,365  | 1,388  | 1,546  | 1,529  | 1,590  | 1,754  | 1,649          | 1,722              | 1,754  | 1,767  | 1,786  | 1,805  | 1,817  | 1,827  | 1,840  | 1,852  | 1,864  |
| Stock change                        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1<br>kg por cr | -1                 | 3      | 6      | 4      | 2      | 3      | 2      | 1      | 1      | 1      |
| Poultry meat                        | 23.7   | 23.9   | 24.4   | 24.5   | 25.3   | 26.3   | 27.4   | 27.3   | 28.5   | 28.6   | 28.9           | apita, cwe<br>29.7 | 30.0   | 30.3   | 30.5   | 30.8   | 31.1   | 31.2   | 31.4   | 31.6   | 31.3   |
|                                     |        |        |        |        |        |        |        |        |        |        |                | 0 kilogram         |        |        |        |        |        |        |        |        |        |
| Chicken price                       | 168.6  | 186.5  | 191.2  | 194.9  | 191.0  | 187.5  | 177.9  | 181.8  | 187.3  | 187.0  | 181.9          | 174.1              | 175.7  | 173.2  | 172.2  | 173.3  | 174.7  | 176.6  | 178.8  | 181.1  | 182.9  |

| Year                      | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020      | 2021       | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Sheep</b><br>Beginning |       |       |       |       |       |       |       |       |       |       | million h | ead        |       |       |       |       |       |       |       |       |       |
| inventories               | 89.0  | 87.4  | 87.1  | 86.1  | 85.0  | 85.0  | 86.0  | 87.0  | 86.7  | 85.5  | 85.4      | 84.8       | 87.5  | 88.8  | 89.7  | 90.3  | 90.6  | 90.5  | 90.3  | 89.8  | 89.3  |
| Ewes                      | 67.0  | 65.5  | 64.9  | 63.1  | 62.9  | 62.4  | 62.6  | 62.9  | 63.2  | 62.5  | 62.4      | 62.1       | 63.1  | 64.0  | 64.6  | 65.0  | 65.2  | 65.2  | 65.1  | 64.8  | 64.5  |
| Sheep slaughter           | 59.1  | 58.7  | 56.1  | 53.9  | 53.1  | 54.0  | 55.3  | 55.5  | 55.9  | 55.2  | 55.1      | 51.7       | 54.1  | 55.3  | 56.3  | 56.9  | 57.4  | 57.6  | 57.6  | 57.3  | 57.0  |
|                           |       |       |       |       |       |       |       |       |       |       | kg per he | ead        |       |       |       |       |       |       |       |       |       |
| Slaughter weight          | 15.6  | 15.7  | 15.7  | 16.0  | 16.2  | 16.1  | 15.6  | 15.7  | 15.6  | 16.7  | 16.2      | 16.5       | 16.2  | 16.2  | 16.3  | 16.3  | 16.3  | 16.3  | 16.3  | 16.3  | 16.3  |
| Sheep meat                |       |       |       |       |       |       |       |       |       |       |           |            |       |       |       |       |       |       |       |       |       |
| Production                | 920   | 922   | 883   | 866   | 862   | 869   | 862   | 872   | 870   | 923   | 895       | 851        | 879   | 899   | 916   | 927   | 936   | 940   | 939   | 934   | 929   |
| Non-EU imports            | 240   | 222   | 190   | 200   | 189   | 202   | 203   | 173   | 174   | 138   | 146       | 156        | 128   | 101   | 76    | 55    | 40    | 29    | 24    | 20    | 16    |
| Domestic use              | 1,148 | 1,129 | 1,049 | 1,029 | 1,019 | 1,051 | 1,046 | 1,011 | 1,016 | 1,024 | 1,007     | 995        | 987   | 980   | 972   | 962   | 956   | 948   | 942   | 934   | 925   |
| Non-EU exports            | 12    | 15    | 25    | 36    | 32    | 20    | 19    | 34    | 28    | 37    | 35        | 20         | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    |
| Stock change              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0         | 0          | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
|                           |       |       |       |       |       |       |       |       |       |       | kg per ca | ipita, cwe |       |       |       |       |       |       |       |       |       |
| Sheep meat                | 2.30  | 2.26  | 2.09  | 2.05  | 2.03  | 2.09  | 2.07  | 2.00  | 2.00  | 2.02  | 1.98      | 1.95       | 1.94  | 1.92  | 1.91  | 1.89  | 1.88  | 1.86  | 1.85  | 1.84  | 1.82  |
|                           |       |       |       |       |       |       |       |       |       |       | € per 10  | 0 kilogran | ns    |       |       |       |       |       |       |       |       |
| Sheep meat price          | 449.3 | 468.6 | 489.2 | 495.9 | 506.4 | 506.7 | 486.7 | 483.8 | 493.5 | 528.0 | 579.7     | 583.0      | 588.3 | 583.9 | 581.5 | 583.3 | 583.3 | 583.6 | 583.4 | 585.7 | 587.8 |

#### Table 14. EU-27+UK Sheep and Sheep meat

Table 15. EU-27+UK Dairy Supply and Utilisation

| Year                            | 2010   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018     | 2019      | 2020    | 2021     | 2022   | 2023   | 2024   | 2025   | 2026   | 2027   | 2028   | 2029   | 2030   |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                 |        |        |        |        |        |        |        |        | thousand | head, end | of year |          |        |        |        |        |        |        |        |        |        |
| Dairy cows                      | 23,892 | 23,337 | 23,076 | 23,041 | 23,257 | 23,282 | 23,670 | 23,293 | 23,064   | 22,670    | 22,575  | 22,352   | 22,082 | 21,891 | 21,667 | 21,463 | 21,243 | 21,032 | 20,803 | 20,592 | 20,370 |
|                                 |        |        |        |        |        |        |        |        |          |           |         |          |        |        |        |        |        |        |        |        |        |
| Production/cow                  | 6,282  | 6,515  | 6,599  | 6,681  | 6,872  | 6,986  | 7,006  | 7,100  | 7,233    | 7,395     | 7,456   | 7,567    | 7,683  | 7,765  | 7,857  | 7,944  | 8,034  | 8,116  | 8,204  | 8,287  | 8,372  |
| <b>Fluid milk</b><br>Cow's milk |        |        |        |        |        |        |        |        |          |           |         |          |        |        |        |        |        |        |        |        |        |
| production                      | 150    | 152    | 152    | 154    | 160    | 163    | 164    | 165    | 167      | 168       | 168     | 169      | 170    | 170    | 170    | 171    | 171    | 171    | 171    | 171    | 171    |
| Milk quota<br>Other milk        | 142    | 142    | 142    | 142    | 142    | 142    | 142    | 142    | 142      | 142       | 146     | 146      | 146    | 146    | 146    | 146    | 146    | 146    | 146    | 146    | 146    |
| production<br>Fluid             | 5      | 5      | 5      | 5      | 5      | 5      | 6      | 6      | 6        | 6         | 6       | 6        | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |
| consumption<br>Manufacturing    | 44     | 45     | 45     | 45     | 46     | 46     | 47     | 47     | 47       | 47        | 47      | 48       | 48     | 48     | 48     | 47     | 47     | 46     | 46     | 45     | 44     |
| use                             | 104    | 106    | 107    | 108    | 112    | 115    | 116    | 118    | 120      | 120       | 121     | 121      | 122    | 122    | 123    | 124    | 124    | 125    | 126    | 126    | 127    |
| Feed use, net<br>exports        | 66     | 65     | 64     | 64     | 66     | 67     | 68     | 68     | 65       | 67        | 68      | 70       | 70     | 71     | 71     | 71     | 71     | 71     | 71     | 71     | 71     |
| Cheese                          |        |        |        |        |        |        |        |        |          |           | thousan | d tonnes |        |        |        |        |        |        |        |        |        |
| Production                      | 9,341  | 9,391  | 9,604  | 9,712  | 9,938  | 10,205 | 10,450 | 10,608 | 10,717   | 10,915    | 10,991  | 11,033   | 11,110 | 11,163 | 11,248 | 11,342 | 11,422 | 11,497 | 11,563 | 11,626 | 11,686 |
| Non-EU imports                  | 80     | 74     | 77     | 75     | 77     | 61     | 71     | 60     | 59       | 63        | 64      | 66       | 68     | 70     | 70     | 71     | 72     | 73     | 74     | 74     | 75     |
| Domestic use                    | 8,755  | 8,793  | 8,913  | 9,001  | 9,281  | 9,534  | 9,747  | 9,839  | 9,944    | 10,098    | 10,132  | 10,273   | 10,435 | 10,545 | 10,620 | 10,682 | 10,741 | 10,799 | 10,841 | 10,881 | 10,926 |
| Non-EU exports                  | 666    | 672    | 768    | 786    | 721    | 719    | 800    | 828    | 832      | 880       | 924     | 824      | 742    | 685    | 697    | 730    | 752    | 770    | 795    | 819    | 835    |
| Ending stocks                   | 468    | 468    | 468    | 468    | 481    | 494    | 468    | 468    | 468      | 468       | 468     | 470      | 472    | 474    | 475    | 476    | 477    | 477    | 478    | 478    | 479    |
| Butter                          |        |        |        |        |        |        |        |        |          |           |         |          |        |        |        |        |        |        |        |        |        |
| Production                      | 2,073  | 2,102  | 2,165  | 2,124  | 2,239  | 2,301  | 2,393  | 2,414  | 2,436    | 2,507     | 2,532   | 2,556    | 2,577  | 2,593  | 2,607  | 2,626  | 2,644  | 2,666  | 2,676  | 2,685  | 2,693  |
| Non-EU imports                  | 32     | 32     | 33     | 21     | 25     | 3      | 3      | 3      | 9        | 5         | 5       | 5        | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      |
| Domestic use                    | 2,032  | 1,981  | 2,054  | 2,034  | 2,100  | 2,121  | 2,209  | 2,257  | 2,272    | 2,314     | 2,321   | 2,316    | 2,318  | 2,320  | 2,319  | 2,313  | 2,307  | 2,300  | 2,291  | 2,281  | 2,274  |
| Non-EU exports                  | 157    | 124    | 124    | 116    | 135    | 172    | 206    | 170    | 157      | 213       | 215     | 293      | 263    | 277    | 292    | 317    | 342    | 370    | 390    | 409    | 424    |
| Ending stocks                   | 50     | 80     | 100    | 95     | 125    | 135    | 115    | 106    | 120      | 105       | 105     | 56       | 56     | 57     | 58     | 58     | 58     | 59     | 58     | 58     | 58     |
|                                 |        |        |        |        |        |        |        |        |          |           |         |          |        |        |        |        |        |        |        |        |        |
| Skim powder                     |        |        |        |        |        |        |        |        |          |           |         |          |        |        |        |        |        |        |        |        |        |
| Production                      | 965    | 1,096  | 1,107  | 1,109  | 1,457  | 1,533  | 1,569  | 1,529  | 1,532    | 1,557     | 1,635   | 1,723    | 1,683  | 1,668  | 1,681  | 1,671  | 1,679  | 1,707  | 1,711  | 1,715  | 1,715  |

| Year           | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020      | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|----------------|------|------|------|------|------|------|------|------|------|------|-----------|------|------|------|------|------|------|------|------|------|------|
| Non-EU imports | 4    | 0    | 2    | 5    | 2    | 3    | 4    | 2    | 3    | 6    | 5         | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Domestic use   | 686  | 689  | 675  | 697  | 722  | 735  | 776  | 797  | 857  | 824  | 769       | 776  | 790  | 797  | 792  | 794  | 791  | 786  | 781  | 776  | 772  |
| Non-EU exports | 376  | 515  | 520  | 407  | 648  | 692  | 575  | 780  | 816  | 962  | 866       | 951  | 900  | 872  | 889  | 876  | 885  | 921  | 934  | 943  | 947  |
| Ending stocks  | 265  | 157  | 70   | 80   | 170  | 279  | 501  | 456  | 319  | 95   | 100       | 105  | 111  | 115  | 119  | 125  | 132  | 135  | 136  | 136  | 138  |
| Whole powder   |      |      |      |      |      |      |      |      |      |      |           |      |      |      |      |      |      |      |      |      |      |
| Production     | 698  | 682  | 649  | 724  | 756  | 725  | 733  | 778  | 732  | 743  | 749       | 757  | 764  | 775  | 786  | 798  | 810  | 800  | 834  | 866  | 891  |
| Non-EU imports | 2    | 2    | 3    | 3    | 1    | 4    | 6    | 2    | 2    | 5    | 5         | 23   | 23   | 23   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| Domestic use   | 255  | 296  | 266  | 353  | 368  | 329  | 357  | 386  | 400  | 451  | 456       | 454  | 457  | 460  | 462  | 463  | 464  | 467  | 467  | 466  | 467  |
| Non-EU exports | 445  | 388  | 386  | 374  | 390  | 400  | 381  | 393  | 334  | 297  | 297       | 342  | 339  | 343  | 349  | 359  | 370  | 357  | 391  | 424  | 449  |
| Ending stocks  | 97   | 97   | 97   | 97   | 97   | 97   | 97   | 97   | 97   | 97   | 97        | 81   | 73   | 70   | 68   | 68   | 68   | 68   | 68   | 67   | 66   |
| Consumption    |      |      |      |      |      |      |      |      |      |      | kg per ca | oita |      |      |      |      |      |      |      |      |      |
| Fluid milk     | 94.0 | 94.5 | 94.4 | 94.6 | 96.2 | 97.0 | 97.3 | 97.4 | 96.9 | 97.0 | 97.1      | 99.2 | 99.4 | 98.9 | 98.1 | 97.2 | 96.3 | 95.1 | 93.9 | 92.7 | 91.6 |
| Cheese         | 16.5 | 16.5 | 16.7 | 16.7 | 17.2 | 17.5 | 17.8 | 17.8 | 17.9 | 18.1 | 18.2      | 18.4 | 18.6 | 18.8 | 18.9 | 19.0 | 19.1 | 19.2 | 19.3 | 19.3 | 19.4 |
| Butter         | 4.3  | 4.2  | 4.3  | 4.3  | 4.4  | 4.4  | 4.6  | 4.7  | 4.7  | 4.8  | 4.2       | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.1  | 4.0  |

#### Table 16. EU-27+UK Dairy Prices

| Year                 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020      | 2021       | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|----------------------|------|------|------|------|------|------|------|------|------|------|-----------|------------|------|------|------|------|------|------|------|------|------|
| Prices               |      |      |      |      |      |      |      |      |      |      | € per 100 | ) kilogram | S    |      |      |      |      |      |      |      |      |
| Milk, 3.7% fat       | 31   | 34   | 33   | 37   | 37   | 31   | 28   | 35   | 34   | 35   | 34        | 34         | 34   | 33   | 33   | 33   | 33   | 34   | 34   | 34   | 34   |
| Cheese market        | 279  | 311  | 316  | 346  | 350  | 282  | 268  | 319  | 306  | 303  | 304       | 301        | 298  | 293  | 292  | 292  | 293  | 294  | 297  | 300  | 302  |
| Butter market        | 332  | 380  | 306  | 386  | 342  | 302  | 322  | 508  | 511  | 392  | 337       | 349        | 352  | 351  | 350  | 354  | 358  | 362  | 369  | 375  | 380  |
| SMP market           | 218  | 237  | 235  | 301  | 268  | 186  | 179  | 177  | 149  | 210  | 220       | 214        | 203  | 194  | 195  | 192  | 192  | 193  | 195  | 198  | 199  |
| WMP market<br>Butter | 268  | 299  | 274  | 350  | 307  | 241  | 235  | 292  | 272  | 291  | 279       | 299        | 295  | 289  | 286  | 286  | 285  | 281  | 287  | 293  | 298  |
| intervention<br>SMP  | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229       | 229        | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229  | 229  |
| intervention         | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175       | 175        | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175  | 175  |