

# Farm Business Survey 2019/20

# Pig Production in England



## **Simon Walton & David Hildreth**

**RBR** 

Independent research, data and analysis

**Rural Business Research** 

## Farm Business Survey 2019/20

### **Pig Production in England**

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#### Foreword to the First Series

This report is one of a series being produced based on the results of the Farm Business Survey (FBS) for England. The annual Farm Business Survey is the most comprehensive and independent survey of farm incomes and provides a definitive data source on the economic and physical performance of farm businesses in England. It is conducted by a Consortium comprising the Universities of Cambridge, Newcastle upon Tyne, Nottingham and Reading, and Askham Bryan, Duchy and Imperial Colleges. The Consortium is led by the University of Nottingham and its members work in partnership, using uniform and standard practices in reporting on their findings to ensure consistent data quality, accuracy and validity. The Survey is financed by Defra and the Consortium values greatly the input of their staff.

These detailed reports for various farm types and enterprises are in addition to the comprehensive Farm Business Survey Reports for Government Office Regions published at <a href="www.farmbusinesssurvey.co.uk">www.farmbusinesssurvey.co.uk</a>. The Consortium is seeking by these additional reports to ensure that timely and relevant information is available to farmers, consultants, advisers and other organisations and individuals interested in farming and land management. The analysis and publication of these reports uses data from farm businesses across England, with an individual member of the Consortium undertaking the research analysis. In line with the ethos of the Consortium, these reports present results in such a way as to ensure a significant element of continuity and consistency from one report to the other, whilst also ensuring that each report captures the contemporary issues of relevance to the sector of agriculture in England to which it relates.

We believe these reports will make a valuable and useful contribution to the farming industry and we commend them to you.

#### Prof. Martin Seabrook

(Chief Executive of the Consortium)

Spring 2007

#### 1 Foreword to the Fifteenth Series

Welcome to the fifteenth series of reports on the economics of agriculture and horticulture in England from *Rural Business Research (RBR)*. At a time of change, uncertainty and opportunity, planning ahead on the basis of data and evidence is crucial. Some key points below outline the market, policy, physical and biological environments through which agriculture and horticulture have operated in the last 12 months. These also highlight the importance of our work on the Farm Business Survey (FBS) that is only achieved through the highly valued co-operation of participating agricultural and horticultural businesses.

The new Agriculture Act that received Royal Ascent in the closing weeks of 2020 now means that the sector no longer operates within the Common Agricultural Policy. The development of the Agriculture Act relied extensively on evidence from the FBS that demonstrated the reliance of key sectors on the Basic Payment Scheme (BPS) and the need for a longer 'transition period' than was initially proposed. The recently published Path to Sustainable Farming outlines the broad direction of the policy environment over the 2021-2027 period, as the phased decline in BPS support makes way for increased payments for public goods. There will be opportunities for businesses to be supported to increase farm efficiency and productivity, enhance animal welfare and reduce agriculture's 'carbon footprint'. The UK-EU trade agreement has been broadly welcomed by the industry. During the last 12 months our industry has endured an exceptionally wet winter of 19/20 that impacted crop establishment and gave way to a spring drought followed by a low yielding and sometimes difficult harvest. The impact of challenging weather and the Covid-19 pandemic have been felt in very diverse ways across agricultural and horticultural businesses. While the full impact of these challenges on the economics of agriculture and horticulture won't be collected and analysed until later in 2021, the FBS was once again drawn upon by Government to evidence the need for specific Covid-19 related support packages including the Dairy Response Fund.

For the 2019/20 financial year, which covers the 2019 harvest, average Farm Business Income (FBI), derived from our work on the FBS, fell to £46,000 per business, from £50,400 in 2018/19. Seldom are the fortunes of the different agricultural and horticultural sectors aligned. In 2019/20 Upland Grazing Livestock saw an increase of 47% in FBI, from a low base to a slightly higher one (£22,800); by contrast the average Mixed farm business income fell by 36% to £28,900. Generally lower cereal prices negatively impacted Cereals farm businesses, while livestock farms, in particular Pig and Poultry businesses, benefited from lower feed costs.

As with our previous editions of these reports, available at <a href="https://www.ruralbusinessresearch.co.uk">www.ruralbusinessresearch.co.uk</a>, our core aim is to inform agricultural and horticultural businesses about the economics in their sector. This series of reports, and our work on the FBS more generally, would not be possible without the cooperation of the farmers and growers who participate in the FBS to ensure that the data we provide for policy making, and in our reports and free to use online data services at <a href="https://www.farmbusinesssurvey.co.uk">www.farmbusinesssurvey.co.uk</a>, is truly representative of the sectors. Our sincere thanks therefore go to the farmers and growers for their most valuable contribution.

#### **Professor Paul Wilson**

Chief Executive Officer, Rural Business Research February 2021

www.ruralbusinessresearch.co.uk

#### 2 Acknowledgements

The Rural Business Research (RBR) Consortium thanks sincerely all those farmers and growers who have voluntarily provided records and information on which the annual Farm Business Survey, and this report, is based. Thanks also to Keith Robbins (Duchy College) for extracting the data.

The basic information on which this report is based was collected on behalf of, and largely financed by, the Department for Environment, Food and Rural Affairs (Defra) and is Crown Copyright. The views expressed in this report are those of the authors and are not necessarily shared by other members of RBR or by Defra.

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"It is important to note that all surveys are subject to sampling error as they are not measuring the whole population, the FBS is no exception. It is common practice to publish 95% confidence intervals and error bars alongside any published estimated figures to give the reader an indication of the size of the sampling error. These signify that we are 95% confident that this range contains the true value. For simplicity within these reports, the confidence intervals have not always been published. Readers should be aware that the figures calculated from the FBS data have a level of uncertainty around them and that all figures are estimates. Generally, the smaller the sample size the greater the sampling error and the less confidence we have in the estimates. For details on the FBS confidence intervals, please refer to Defra FBS publications https://www.gov.uk/government/collections/farm-business-survey"

#### 1.0 Commentary on the English Pig Industry

Sources used as part of this commentary on the pig industry are not from the Farm Business Survey but have been included to give the reader an overview of the wider industry for the period covered.

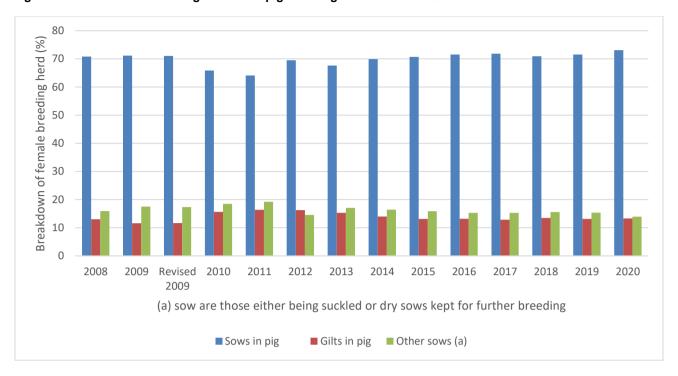
- Total pig numbers have remained fairly stable between 2008 and 2020 with near 4,000,000 pigs across the period.
   Reduced numbers were seen between 2009 and 2012 though numbers improved in 2013 and have remained fairly steady ever since.
- Total number of pigs in England in 2020 decreased by 0.6% when compared to 2019 remaining at over 4 million animals. The decrease was driven by the drop in the female breeding herd, by 3.3%.
- The total number of Specialist Pig Holdings in England decreased by 0.72% in 2019 in comparison to 2018. All
  regions apart from the North East and West Midlands saw a decrease of pig holdings.
- In 2019 Yorkshire and the Humber accounted for 36.90% of the total pigs in England, the Eastern region accounted for a further 25.84% and the South West for another 11.05%.
- UK clean pig slaughtering's increased from 10,679 thousand head in 2018 to 10,889 thousand head in 2019. An increase in slaughtering's of clean pigs of 23.4% has been evident from 2009 to 2019.
- Although UK sow and boar carcase weights have been reducing over the last decade clean pig carcase weights have gradually increased to 89.4Kg in 2019.
- UK pig prices started over 5p lower at the beginning of 2019 than the previous month though pig prices were still over 9p lower than they were the January before. Prices dipped marginally in the first quarter of 2019 though noticeable price increases were seen from April onwards. Prices continued to grow to highs of 159.03p/kg in December, over 17p higher than the same period in 2018.

Table 1.1 Breeding Pigs on Agricultural Holdings in England 1st June ('000)

|                                   | 2008 | 2009 | Revised<br>2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | % change<br>2019/2020 |
|-----------------------------------|------|------|-----------------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|
| Total pigs                        | 3854 | 3872 | 3689            | 3606 | 3600 | 3662 | 4066 | 3954 | 3826 | 3911 | 3969 | 4038 | 4060 | 4035 | -0.6%                 |
| Total<br>breeding<br>pigs         | 410  | 444  | 421             | 423  | 433  | 437  | 434  | 411  | 413  | 417  | 416  | 408  | 410  | 402  | -1.9%                 |
| Female<br>breeding<br>herd        | 346  | 371  | 352             | 346  | 354  | 351  | 346  | 329  | 328  | 334  | 334  | 327  | 327  | 316  | -3.3%                 |
| Sows in pig                       | 245  | 264  | 250             | 228  | 227  | 244  | 234  | 230  | 232  | 239  | 240  | 232  | 234  | 231  | -1.5%                 |
| Gilts in pig                      | 45   | 43   | 41              | 54   | 58   | 57   | 53   | 46   | 43   | 44   | 43   | 44   | 43   | 42   | -2.2%                 |
| Other sows                        | 55   | 65   | 61              | 64   | 68   | 51   | 59   | 54   | 52   | 51   | 51   | 51   | 50   | 44   | -12.4%                |
| Other<br>breeding<br>pigs         | 64   | 73   | 69              | 77   | 79   | 85   | 88   | 82   | 85   | 82   | 82   | 82   | 83   | 86   | 3.4%                  |
| Boars for<br>service              | 15   | 16   | 15              | 14   | 14   | 14   | 13   | 12   | 13   | 13   | 11   | 11   | 10   | 10   | -6.4%                 |
| Gilts not yet in pig              | 49   | 57   | 54              | 63   | 65   | 72   | 75   | 70   | 72   | 69   | 71   | 71   | 73   | 76   | 4.8%                  |
| Fattening<br>pigs<br>(liveweight) | 3499 | 3445 | 3428            | 3268 | 3183 | 3167 | 3225 | 3632 | 3542 | 3413 | 3494 | 3553 | 3630 | 3633 | -0.5%                 |

Source: Defra, 2020 Department for Environment Food and Rural Affairs – Defra June Survey of Agriculture (c) Either being suckled or dry sows being kept for further breeding.

Figure 1.1 Breakdown of the English female pig breeding herd 1st June 2008-2020



Source: Defra, 2020 Department for Environment Food and Rural Affairs - Defra June Survey of Agriculture

Table 1.2 Specialist Pig Holdings by Region 2013-2019\*

|                                 | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| North East                      | 45    | 48    | 37    | 47    | 49    | 47    | 52    |
| North West<br>and<br>Merseyside | 114   | 131   | 102   | 136   | 171   | 123   | 117   |
| Yorkshire<br>and The<br>Humber  | 485   | 499   | 480   | 515   | 525   | 517   | 516   |
| East<br>Midlands                | 167   | 174   | 156   | 190   | 218   | 174   | 173   |
| West<br>Midlands                | 137   | 163   | 131   | 153   | 181   | 153   | 156   |
| Eastern                         | 393   | 406   | 410   | 422   | 438   | 418   | 416   |
| South East                      | 134   | 172   | 133   | 170   | 208   | 169   | 167   |
| South West                      | 260   | 330   | 252   | 320   | 397   | 334   | 324   |
| England                         | 1,735 | 1,923 | 1,701 | 1,953 | 2,187 | 1,935 | 1,921 |

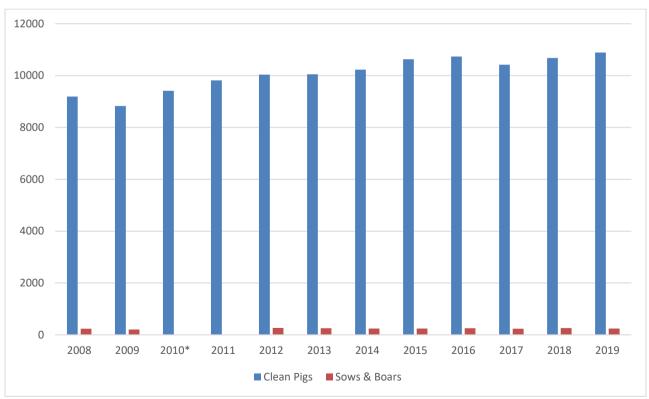
https://www.gov.uk/guidance/structure-of-the-agricultural-industry-survey-notes-and-guidance

Table 1.3 Number of Pigs by Region 2013-2019

|                                 | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| North East                      | 76,780    | 71,704    | 69,924    | 84,381    | 87,448    | 129,559   | 122,222   |
| North<br>West and<br>Merseyside | 122,932   | 115,403   | 99,333    | 112,815   | 110,565   | 133,462   | 130,410   |
| Yorkshire<br>and The<br>Humber  | 1,112,342 | 1,090,853 | 1,078,610 | 1,145,337 | 1,161,789 | 1,500,834 | 1,498,063 |
| East<br>Midlands                | 301,143   | 287,896   | 277,785   | 299,486   | 281,848   | 377,989   | 364,735   |
| West<br>Midlands                | 164,078   | 155,057   | 137,067   | 133,713   | 145,078   | 209,680   | 222,138   |
| Eastern                         | 894,763   | 844,314   | 818,347   | 839,666   | 826,259   | 1,040,896 | 1,048,964 |
| South East                      | 136,977   | 118,858   | 143,267   | 150,675   | 164,814   | 217,102   | 225,069   |
| South<br>West                   | 329,961   | 326,314   | 279,379   | 279,829   | 344,689   | 428,974   | 448,600   |
| England                         | 3,138,976 | 3,010,399 | 2,903,712 | 3,045,901 | 3,122,491 | 4,038,496 | 4,060,201 |

Source: Defra, June Survey https://www.gov.uk/guidance/structure-of-the-agricultural-industry-survey-notes-and-guidance

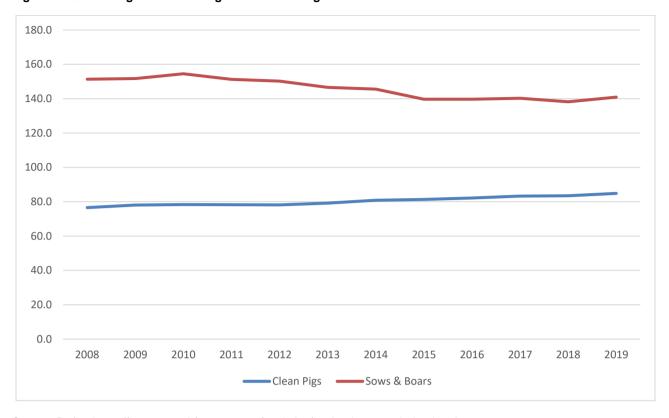
Figure 1.2 Pigs Slaughtered in England and Wales 2008-2019 (thousand head)



Source: Defra, https://www.gov.uk/government/statistics/cattle-sheep-and-pig-slaughter Footnotes: Sow and boar data missing in years 2010 and 2011 due to confidentiality constraints.

<sup>\*</sup> Denotes a 53 week statistical year

Figure 1.3 UK Average Carcase Weights 2008-2019 Kg



Source: Defra, https://www.gov.uk/government/statistics/cattle-sheep-and-pig-slaughter

Figure 1.4 UK Deadweight Average Pig Price (SPP) 2008-2019



Source: AHDB, http://pork.ahdb.org.uk/prices-stats/prices/pig-prices-uk-spec/

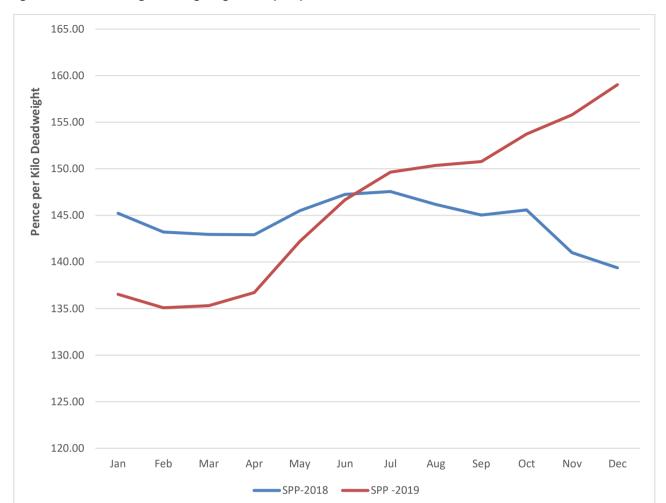


Figure 1.5 UK Deadweight Average Pig Prices (SPP) 2018-2019

Source: AHDB, http://pork.ahdb.org.uk/prices-stats/prices/pig-prices-uk-spec/

Footnotes: SPP (Standard Pig Price) is the average price for GB standard pigs, those that have not received a premium for the production system, feed regime or breed.

#### 2.0 Financial Performance of Specialist Pig Farms

The data in this report has been extracted from the 2019/20 Farm Business Survey (FBS). This presents data for all farm types on both a national and Government Office region (GOR) basis. The basis for the classification of farms in the FBS is described in Appendix A.

In the 2019/20 FBS there were 66 farm businesses that were classified as Specialist Pig farms. This is lower than the previous year when there were 76 recorded pig farms. Farms are classified according to Standard Outputs (SO). Please see the explanatory document at https://www.gov.uk/government/collections/farm-business-survey for further details on Standard Outputs.

To be classified as a Specialist Pig farm at least two-thirds of the total SO from the enterprises on the farm must have been generated by pigs.

All the results presented in this report are based on weighted data to produce population estimates for England.

#### 2.1 Classification of farms

The 66 Specialist Pig farms subdivided into three EU Particular Farm Types (PFT) as follows:

| EU PFT | No of farms | Description                         |
|--------|-------------|-------------------------------------|
| 5110   | 6           | Specialist pig rearing              |
| 5130   | 21          | Pigs rearing and fattening combined |
| 5120   | 39          | Specialist pig fattening            |

Due to the small sample numbers for type 5110, types 5110 and 5130 have been combined. Thus this group refers to farms predominantly with sows selling either weaners or fat pigs and type 5120 are predominantly farms without sows but selling fat pigs, many on a contract basis.

#### 2.2 Financial Results

Across all Specialist pig farms, average farm business income amounted to £37,743 (Table 2.1) which was 28% higher than the previous year.

Total output was 10% less than the previous financial year, averaging £554,920 per farm. Variable costs reduced by around 8% on the previous year, and also fixed costs reduced by around 11%.

Table 2.2 shows the range in performance in terms of FBI for Specialist Pig Farms. The table demonstrates the range of farm business incomes seen in the sector with the top performing 25% achieving an average FBI of £143,054 whilst the bottom 25% have a negative income of £33,525. The range between the top quartile by FBI and bottom quartile has decreased compared to last year, (£176,579 difference this year, compared to £214,022).

Table 2.3 shows the range in performance in terms of MII for Specialist Pig farms, with the top 25% achieving £136,142 and the bottom making a loss of -£11,770 in terms of MII.

An analysis of the results split between businesses classed as 'predominantly sows' and those classed as 'predominantly growing and fattening pigs' is presented in Table 2.4. The overall gross margin and FBI per farm is higher for 'predominately sows' businesses.

In order to examine the influence of size on financial performance the results have been analysed in terms of SO. Table 2.5 shows the results and indicates the range of SO for each size category. The results show a clear difference between the largest sized group and those of the other two groups. The largest sized group records an average MII of £128,355; whilst the other two size groups record MII's of £19,853 and -£11,359.

The farms have been grouped by performance ratio, this is a measure of farm business output in comparison to farm business costs, including unpaid labour. The farms are then grouped into quartiles, high, medium (2 quartiles) and low. Interestingly, the low performing group have a much smaller pig output than the other 2 groups, but also the group with the highest pig output was the middle group, despite the high group having the highest farm business income. The highest performing group had much smaller variable costs as a percentage of the total output when compared to the other 2 groups, 38%, compared to 59% and 60% when compared to the low and medium group respectively.

Table 2.1 Specialist Pig Farms – Financial Results

|                       |                                  | 2018/19 | 2019/20 | % Change |
|-----------------------|----------------------------------|---------|---------|----------|
| Number of farms       |                                  | 76      | 66      |          |
| Output                |                                  | £       | £       |          |
| Pigs                  |                                  | 481,069 | 447,298 | -7       |
| Other livestock       |                                  | 6,165   | 5,441   | -12      |
| Crops                 |                                  | 41,658  | 47,072  | 13       |
| Miscellaneous         |                                  | 87,273  | 55,108  | -36      |
| Total output          |                                  | 616,165 | 554,920 | -10      |
| Variable costs        |                                  |         |         |          |
| Feed                  |                                  | 248,837 | 223,311 | -10      |
| Vet and medicines     |                                  | 12,628  | 12,820  | 2        |
| Other livestock costs | S                                | 40,249  | 37,697  | -6       |
| Crop costs            |                                  | 18,699  | 20,395  | 9        |
| Total variable cost   | s                                | 320,413 | 294,223 | -8       |
| Farm gross margin     | 1                                | 295,752 | 260,697 | -11      |
| Fixed costs           |                                  |         |         |          |
| Labour                | - Paid                           | 75,149  | 59,740  | -20      |
|                       | - Unpaid                         | 28,858  | 29,709  | 3        |
| Machinery             | - Contract                       | 13,386  | 12,713  | -5       |
|                       | <ul> <li>Depreciation</li> </ul> | 35,520  | 30,476  | -14      |
|                       | - Repairs                        | 20,625  | 15,681  | -24      |
|                       | <ul> <li>Fuel and oil</li> </ul> | 16,210  | 12,695  | -21      |
| Occupiers repairs     |                                  | 12,555  | 12,684  | 1        |
| Rent and rates        |                                  | 40,123  | 42,986  | 8        |
| Other farm costs (in  | cluding bad debts)               | 36,390  | 30,939  | -15      |
| Total fixed costs     |                                  | 278,815 | 247,623 | -11      |
| Management and in     | nvestment income                 | 16,938  | 13,503  | -20      |
| Less management o     | charges                          | 362     | 430     | 19       |
| Plus farmer and spo   |                                  | 23,483  | 24,659  | 5        |
| Net farm income       |                                  | 40,058  | 37,732  | -5       |
| Less net interest pay |                                  | 11,583  | 10,149  | -12      |
|                       | ciation and insurance            | 25,002  | 22,256  | -11      |
| Less directors remu   |                                  | 4,394   | 1,796   | -59      |
| Plus rental value and |                                  | 25,153  | 29,162  | 16       |
| Plus imputed labour   |                                  | 5,375   | 5,049   | -6       |
| Farm business inc     | ome                              | 29,607  | 37,743  | 28       |

Table 2.2 Specialist Pig Farms 2019/20 – Grouped by FBI per Farm

|  | Top 25% | Middle 50% | Bottom 25%      |
|--|---------|------------|-----------------|
| Number of farms                          | 28      | 26         | 12*             |
| Output                                   | £       | £          | £               |
| Pigs                                     | 712,988 | 242,350    | 585,317         |
| Other livestock                          | 9,543   | 5,950      | 482             |
| Crops                                    | 85,277  | 22,858     | 56,770          |
| Miscellaneous                            | 124,407 | 27,539     | 41,121          |
| Total output                             | 932,214 | 298,696    | 683,690         |
| Variable costs                           |         |            |                 |
| Feed                                     | 298,990 | 127,639    | 334,640         |
| Vet and medicines                        | 15,277  | 8,158      | 19,438          |
| Other livestock costs                    | 57,796  | 24,001     | 44,647          |
| Crop costs                               | 32,031  | 11,075     | 27,103          |
| Total variable costs                     | 404,094 | 170,873    | 425,829         |
| Farm gross margin                        | 528,120 | 127,823    | 257,861         |
| Fixed costs                              |         |            |                 |
| Labour - Paid                            | 98,491  | 21,073     | 95,139          |
| - Unpaid                                 | 37,632  | 26,509     | 28,200          |
| Machinery - Contract                     | 17,742  | 8,733      | 15,519          |
| - Depreciation                           | 57,632  | 11,699     | 40,393          |
| - Repairs                                | 28,017  | 7,563      | 19,392          |
| - Fuel and oil                           | 22,473  | 5,044      | 17,985          |
| Occupiers repairs                        | 23,431  | 7,719      | 11,844          |
| Rent and rates                           | 78,803  | 22,986     | 46,863          |
| Other farm costs (including bad debts)   | 55,537  | 18,915     | 30,296          |
| Total fixed costs                        | 419,759 | 130,240    | 305,632         |
| Management and investment income         | 108,361 | -2,417     | -47,771         |
| Less management charges                  | 1,429   | 0          | 291             |
| Plus farmer and spouse labour            | 26,364  | 22,907     | 26,389          |
| Net farm income                          | 133,297 | 20,489     | -21,382         |
| Less net interest payments               | 17,379  | 6,940      | 0 222           |
| Less building depreciation and insurance | 35,686  | 10,903     | 9,332<br>31,152 |
| Less directors remuneration              | 3,197   | 1,181      | 1,625           |
| Plus rental value and imputed rent       | 54,754  | 16,678     | 28,533          |
| Plus imputed labour                      | 11,268  | 3,603      | 1,811           |
| ·  | , -     | •          | ,               |
| Farm business income                     | 143,054 | 21,746     | -33,525         |

<sup>\*</sup>A part of this table was derived from data with less than 15 observations in the sample which could reduce the robustness of the results

Table 2.3 Specialist Pig Farms 2019/20 – Grouped by MII per Farm

|   |                       | Top 25%          | Middle 50%     | Bottom 25%   |
|---|-----------------------|------------------|----------------|--------------|
| Number of farms                                 |                       | 31               | 22             | 13*          |
| Output  |                       | £                | £              | £            |
| Pigs  |                       | 1,373,728        | 81,233         | 47,967       |
| Other livestock                                 |                       | 10,276           | 2,695          | 727          |
| Crops   |                       | 98,065           | 12,394         | 10,709       |
| Miscellaneous                                   |                       | 134,096          | 19,915         | 6,373        |
| Total output                                    |                       | 1,616,164        | 116,237        | 65,777       |
| Variable costs                                  |                       |                  |                |              |
| Feed  |                       | 654,617          | 34,491         | 32,460       |
| Vet and medicines                               | S                     | 36,634           | 2,269          | 1,864        |
| Other livestock co                              | osts                  | 113,045          | 7,256          | 4,275        |
| Crop costs                                      |                       | 37,419           | 6,142          | 5,065        |
| Total variable costs                            |                       | 841,714          | 50,157         | 43,663       |
| Farm gross margin                               |                       | 774,450          | 66,080         | 22,113       |
| Fixed costs                                     |                       |                  |                |              |
| Labour  | - Paid                | 183,474          | 10,067         | 6,524        |
|   | - Unpaid              | 36,112           | 16,266         | 6,456        |
| Machinery                                       | - Contract            | 34,796           | 3,345          | 1,507        |
|   | - Depreciation        | 96,279           | 5,444          | 2,871        |
|   | - Repairs             | 42,021           | 4,012          | 2,071        |
|   | - Fuel and oil        | 36,777           | 2,487          | 1,632        |
| Occupiers repairs                               |                       | 33,300           | 3,764          | 1,507        |
| Rent and rates                                  | (including had dahta) | 108,743          | 11,869         | 6,278        |
| Other farm costs (                              | (including bad debts) | 66,807           | 11,098         | 5,037        |
| Total fixed costs                               |                       | 638,308          | 68,352         | 33,883       |
| Management and inv                              | restment income       | 136,142          | -2,272         | -11,770      |
| Less management cha                             | arges                 | 1,530            | 53             | 25           |
| Plus farmer and spous                           |                       | 28,151           | 13,460         | 5,686        |
| Net farm income                                 |                       | 162,762          | 11,135         | -6,109       |
| Logo not interest no                            | oonto                 | 27 722           | 2.074          | 4.040        |
| Less net interest paym                          |                       | 27,720<br>57,662 | 2,971<br>5,560 | 1,049        |
| Less building deprecia<br>Less directors remune |                       | 57,662<br>6,248  | 5,560<br>0     | 3,342<br>248 |
| Plus rental value and i                         |                       | 61,996           | 9,480          | 5,445        |
| Plus imputed labour                             | mpatou font           | 7,962            | 2,806          | 771          |
|   |                       |                  |                |              |
| Farm business incon                             | ne                    | 141,091          | 14,891         | -4,533       |

**Note:** The farms are ranked in descending order according to performance and allocated to quartiles with the top quartile (25percent) representing the top band (Premium Group). Note that the farm weights are used to allocate farms to quartiles so the number of farms in a quartile will not necessarily be equivalent to a quarter of the sample.

<sup>\*</sup>A part of this table was derived from data with less than 15 observations in the sample which could reduce the robustness of the results

Table 2.4 Financial Data for Specialist Pig Farms 2019/20 – Grouped by Type

|                          |  | Predominantly<br>sows | Predominantly<br>growing/fattening<br>pigs |
|--------------------------|--|-----------------------|--|
| Number of farms          |  | 27                    | 39   |
| Output                   |  | £/farm                | £/farm                                     |
| Pigs                     |  | 1,254,592             | 188,111                                    |
| Other livestock<br>Crops |  | 8,705<br>112,316      | 4,394<br>26,125                            |
| Miscellaneous            |  | 79,027                | 47,429                                     |
| Total output             |  | 1,454,640             | 266,060                                    |
| Variable costs           |  |                       |  |
| Feed                     |  | 679,009               | 77,007                                     |
| Vet and medicine         | es   | 38,016                | 4,731                                      |
| Other livestock c        | osts   | 97,621                | 18,458                                     |
| Crop costs               |  | 47,732                | 11,618                                     |
| Total variable costs     |  | 862,378               | 111,814                                    |
| Farm gross margin        |  | 592,262               | 154,246                                    |
| Fixed costs              |  |                       |  |
| Labour                   | - Paid   | 154,877               | 28,628                                     |
|                          | - Unpaid                                       | 36,817                | 27,426                                     |
| Machinery                | - Contract                                     | 36,249                | 5,156                                      |
|                          | <ul><li>Depreciation</li><li>Repairs</li></ul> | 67,352<br>34,549      | 18,637<br>9,624                            |
|                          | - Repairs<br>- Fuel and oil                    | 28,301                | 7,685                                      |
| Occupiers repairs        |  | 30,631                | 6,922                                      |
| Rent and rates           |  | 95,591                | 26,098                                     |
|                          | (including bad debts)                          | 60,375                | 21,488                                     |
| Total fixed costs        |  | 544,742               | 151,664                                    |
| Management and in        | vestment income                                | 47,520                | 2,582                                      |
| Less management ch       | narges   | 1,433                 | 108  |
| Plus farmer and spou     |  | 28,162                | 23,534                                     |
| Net farm income          |  | 74,249                | 26,009                                     |
| Less net interest payr   | ments  | 20,721                | 6,754                                      |
| Less building depreci    | ation and insurance                            | 56,470                | 11,271                                     |
| Less directors remune    |  | 4,672                 | 873  |
| Plus rental value and    | imputed rent                                   | 64,443                | 17,834                                     |
| Plus imputed labour      |  | 8,654                 | 3,892                                      |
| Farm business inco       | me   | 65,484                | 28,836                                     |

Table 2.5 Financial Data for Specialist Pig Farms 2019/20 – Grouped by Standard Output per Farm

| 000 SO                         |              | 0-500           | 500-1000 | 1000+     |
|--------------------------------|--------------|-----------------|----------|-----------|
| Number of farms                |              | 22              | 25       | 19        |
| Output                         |              | £               | £        | £         |
| Pigs                           |              | 79,9 <b>4</b> 2 | 262,894  | 2,191,518 |
| Other livestock                |              | 1,954           | 12,721   | 6,161     |
| Crops                          |              | 7,154           | 75,758   | 163,499   |
| Miscellaneous                  |              | 19,501          | 99,363   | 109,722   |
| Total output                   |              | 108,550         | 450,736  | 2,470,900 |
| Variable costs                 |              |                 |          |           |
| Feed                           |              | 39,369          | 122,571  | 1,110,720 |
| Vet and medicines              |              | 2,032           | 7,890    | 63,780    |
| Other livestock costs          |              | 9,021           | 27,869   | 162,470   |
| Crop costs                     |              | 4,274           | 32,552   | 64,384    |
| Total variable costs           |              | 54,695          | 190,882  | 1,401,354 |
| Farm gross margin              |              | 53,855          | 259,854  | 1,069,547 |
| Fixed costs                    |              |                 |          |           |
| Labour - Paid                  |              | 9,019           | 32,733   | 303,144   |
| - Unpa                         | aid          | 20,138          | 35,373   | 30,960    |
| Machinery - Conti              |              | 2,797           | 8,569    | 57,510    |
|                                | eciation     | 6,422           | 33,615   | 119,281   |
| - Repa                         |              | 3,269           | 18,249   | 60,104    |
|                                | and oil      | 2,234           | 12,389   | 54,770    |
| Occupiers repairs              |              | 2,119           | 14,749   | 51,710    |
| Rent and rates                 |              | 9,282           | 48,370   | 165,451   |
| Other farm costs (including    | g bad debts) | 9,934           | 35,953   | 98,260    |
| Total fixed costs              |              | 65,214          | 240,001  | 941,191   |
| Management and investment      | t income     | -11,359         | 19,853   | 128,355   |
| Less management charges        |              | 47              | 615      | 1,717     |
| Plus farmer and spouse labour  | r            | 17,296          | 28,283   | 23,966    |
| Net farm income                |              | 5,890           | 47,521   | 150,605   |
| Less net interest payments     |              | 1,833           | 15,605   | 34,674    |
| Less building depreciation and | insurance    | 4,892           | 21,548   | 90,567    |
| Less directors remuneration    |              | 0               | 2,077    | 9,098     |
| Plus rental value and imputed  | rent         | 7,733           | 38,130   | 95,592    |
| Plus imputed labour            |              | 2,842           | 7,090    | 6,993     |
| Farm business income           |              | 9,740           | 53,511   | 118,852   |

Table 2.6 Financial Data for Specialist Pig Farms 2019/20- Grouped by Performance Ratio

| Ratio                            |                             | Low *                    | Medium           | High              |
|----------------------------------|-----------------------------|--------------------------|------------------|-------------------|
| Number of farms                  |                             | 7                        | 33               | 26                |
| Output                           |                             | £                        | £                | £                 |
| Pigs                             |                             | 70,048                   | 626,271          | 468,841           |
| Other livestock                  |                             | 434                      | 7,219            | 6,875             |
| Crops<br>Miscellaneous           |                             | 9,791<br>3,047           | 57,876<br>54,509 | 62,415<br>106,648 |
| Miscellaneous                    |                             | 3,047                    | 54,509           | 100,040           |
| Total output                     |                             | 83,320                   | 745,875          | 644,779           |
| Variable costs                   |                             |                          |                  |                   |
| Feed                             |                             | 34,342                   | 347,053          | 168,657           |
| Vet and medicine                 |                             | 3,538                    | 20,035           | 7,953             |
| Other livestock c                | osts                        | 5, 12 1                  | 52,589           | 40,636            |
| Crop costs                       |                             | 5,435                    | 25,618           | 24,847            |
| Total variable costs             |                             | 48,436                   | 445,295          | 242,092           |
| Farm gross margin                |                             | 34,884                   | 300,580          | 402,686           |
| Fixed costs                      |                             |                          |                  |                   |
| Labour                           | - Paid                      | 7,674                    | 77,317           | 74,720            |
|                                  | - Unpaid                    | 31,121                   | 28,333           | 30,982            |
| Machinery                        | - Contract                  | 2,171                    | 20,111           | 8,712             |
|                                  | - Depreciation              | 7,570                    | 32,821           | 48,146            |
|                                  | - Repairs<br>- Fuel and oil | 4,267<br>2,201           | 18,880           | 20,589            |
| Occupiore repair                 |                             | 3,391                    | 14,905<br>17,804 | 17,459            |
| Occupiers repairs Rent and rates | 5                           | 3,0 <b>4</b> 9<br>10,917 | 17,894<br>53,373 | 12,006<br>54,086  |
|                                  | (including bad debts)       | 10,867                   | 37,047           | 38,640            |
|                                  | (including bad debts)       |                          | 37,047           | 30,040            |
| Total fixed costs                |                             | 81,025                   | 300,681          | 305,341           |
| Management and in                | vestment income             | -46,141                  | -100             | 97,345            |
| Less management ch               |                             | 0                        | 424              | 857               |
| Plus farmer and spou             | ise labour                  | 29,256                   | 22,630           | 24,106            |
| Net farm income                  |                             | -16,885                  | 22,105           | 120,594           |
| Less net interest pay            | ments                       | 3,719                    | 13,369           | 10,190            |
| Less building depreci            |                             | 8,010                    | 31,403           | 18,484            |
| Less directors remun             |                             | 0                        | 2,569            | 2,051             |
| Plus rental value and            | imputed rent                | 9,443                    | 37,018           | 33,165            |
| Plus imputed labour              |                             | 1,865                    | 5,703            | 6,876             |
| Farm business inco               | me                          | -17,306                  | 17,486           | 129,911           |
|                                  |                             | ,                        | ,                | ,                 |

<sup>\*</sup>A part of this table was derived from data with less than 15 observations in the sample which could reduce the robustness of the results

#### 3.0 Margins for Pig Enterprises

The data in the following section utilises the net margins gathered from specialist pig farms. More data is available for other farm types who keep pigs but not as their sole interest, however, only those farms specialising in pigs have been included due to the nature of the way the data is collected. Variable costs are allocated to different farm enterprise by estimation; however, some of the fixed costs are allocated econometrically, according to the set coefficients that are estimated. Data on the validity of these coefficients is being accumulated with a view to improving them over time. For specialist pig farms, the net margins for the pig enterprise should be reasonably accurate. This is because these farms have few or no other enterprises and therefore the majority of fixed costs are rightly attributable to the pig enterprise.

#### 3.1 Classification of farms

Net and gross margins were completed for 66 Specialist Pig farms. These were classified as follows:

| Туре | No of farms | Definition                            |
|------|-------------|---------------------------------------|
| 112  | 23          | Breeders selling fat pigs (finishers) |
| 114  | 29          | Contract rearing                      |
| 115  | 14          | Other                                 |

Due to the small sample sizes it is not possible to show the results for each type listed above. Consequently, results have only been presented for types 112 and 114, from table 3.2 onwards. Due to changes in the sample year on year it is difficult to compare year on year changes exactly as some pig farms in the sample have dropped out or joined, hence not an exact like for like comparison.

#### 3.2 Net Margin results

Table 3.1 shows the average Net Margin has increased from £3,772 in 2018/19 to £17,966 in 2019/20. There seemed to be a considerable increase in output on the year, but also an increase in costs.

Table 3.2 presents the results split into two different categories, namely breeding farms selling finished pigs, and contract rearing only. Breeding farms selling finished pigs made a net margin of £3,881 and the contract rearing showed a net margin of £15,672

Table 3.3 shows the costs and margins per £100 output for breeders selling finished pigs, (type 112). The feed costs for breeders selling fat pigs are by far the biggest proportion of the costs, 59.1% of the total output in 2019/20, whereas in 2018/19 the feed costs accounted for 61.6% of output, showing the slightly lower feed costs in comparison to the finished pig price.

Table 3.4 presents the results in terms of Net Margins per sow for breeder finisher farms. In 2019/20 there was a total Net Margin of £17 per sow compared to a net margin of -£35 in 2018/19. It is difficult to compare year on year due to some changes in the sample of pig farms, however this was mainly due to pig output greater on the year.

Table 3.1 Specialist Pig Farms – Average Net Margins (£/farm)

|                               | 2018/19    | 2019/20    | % Change |
|-------------------------------|------------|------------|----------|
| Number of farms               | 72         | 66         |          |
|                               | £ per farm | £ per farm |          |
| Output                        | 339,927    | 447,298    | 32       |
| Variable costs                |            |            |          |
| Feed                          | 169,633    | 221,839    | 31       |
| Vet and medicines             | 8,925      | 12,447     | 39       |
| Other variable costs          | 30,142     | 34,818     | 16       |
| Total variable costs          | 208,700    | 269,104    | 29       |
| Gross Margin                  | 131,227    | 178,194    | 36       |
| Fixed costs                   |            |            |          |
| Paid labour                   | 39,958     | 53,727     | 34       |
| Unpaid labour                 | 4,358      | 3,580      | -18      |
| Contract hire                 | 3,884      | 6,962      | 79       |
| Machinery depreciation        | 13,925     | 18,469     | 33       |
| Machinery repairs             | 7,961      | 8,859      | 11       |
| Fuel and oil                  | 5,420      | 7,523      | 39       |
| Electricity and heating fuel  | 6,053      | 7,145      | 18       |
| Water                         | 1,621      | 2,569      | 58       |
| Insurance                     | 3,175      | 3,990      | 26       |
| Professional fees             | 2,603      | 3,317      | 27       |
| General farm costs            | 4,190      | 4,557      | 9        |
| Occupiers repairs             | 8,056      | 8,406      | 4        |
| Rent and rates                | 9,429      | 11,623     | 23       |
| Total fixed costs             | 110,631    | 140,728    | 27       |
| Net farm income               | 20,597     | 37,466     | 82       |
|                               |            |            |          |
| Less farmer and spouse labour | 17,162     | 19,898     | 16       |
| Plus managerial input         | 337        | 399        | 18       |
| Net margin                    | 3,772      | 17,966     | 376      |

Table 3.2 Specialist Pig Farms 2018/19 – Average Net Margins by Farm Type

| Farm type                       | Breeders selling<br>fat pigs | Contract rearing |
|---------------------------------|------------------------------|------------------|
| Number of farms                 | 23                           | 29               |
| Average number of sows per farm | 230                          | 17               |
|                                 | £ per farm                   | £ per farm       |
| Output                          | 618,463                      | 100,882          |
| Variable costs                  |                              |                  |
| Feed                            | 365,562                      | 0                |
| Vet and medicines               | 16,788                       | 16               |
| Other variable costs            | 45,797                       | 6,578            |
| Total variable costs            | 428,147                      | 6,594            |
| Gross Margin                    | 190,315                      | 94,287           |
| Fixed costs                     |                              |                  |
| Paid labour                     | 53,530                       | 20,763           |
| Unpaid labour                   | 5,909                        | 2,751            |
| Contract hire                   | 8,983                        | 1,498            |
| Machinery depreciation          | 11,040                       | 9,540            |
| Machinery repairs               | 7,052                        | 4,797            |
| Fuel and oil                    | 5,841                        | 3,856            |
| Electricity and heating fuel    | 15,595                       | 1,776            |
| Water                           | 3,652                        | 1,395            |
| Insurance                       | 6,562                        | 2,181            |
| Professional fees               | 5,598                        | 1,409            |
| General farm costs              | 6,911                        | 2,535            |
| Occupiers repairs               | 13,125                       | 3,375            |
| Rent and rates                  | 16,751                       | 6,217            |
| Total fixed costs               | 160,548                      | 62,091           |
| Net farm income                 | 29,767                       | 32,196           |
| Less farmer and spouse labour   | 26,537                       | 16,905           |
| Plus managerial input           | 650                          | 381              |
|                                 |                              |                  |
| Net margin                      | 3,881                        | 15,672           |

Table 3.3 Specialist Pig Farms – Breeders Selling Fat Pigs, Costs and Margins per £100 Pig Output

| Farm type                    | £ per £100 output |         |
|------------------------------|-------------------|---------|
|                              | 2018/19           | 2019/20 |
| Feed                         | 61.6              | 59.1    |
| Other variable costs         | 10.4              | 10.1    |
| Gross margin                 | 28.0              | 30.8    |
| Labour costs                 | 10.2              | 10.2    |
| Contract and machinery costs | 4.5               | 4.6     |
| Occupiers repairs            | 1.8               | 2.3     |
| Rent and rates               | 2.1               | 2.9     |
| Other fixed costs            | 10.8              | 10.1    |
| Net margin                   | -1.4              | 0.7     |

Table 3.4 Specialist Pig Farms – Average Net Margins per Sow (£/sow)

|                                 | 2018/19                   | 2019/20            |  |
|---------------------------------|---------------------------|--------------------|--|
| Farm Type                       | Breeders selling fat pigs |                    |  |
| Number of farms                 | 26                        | 23                 |  |
| Number of sows                  | 230                       | 230                |  |
| Output                          | £ per sow<br>2,510        | £ per sow<br>2,688 |  |
|                                 | ,-                        | ,                  |  |
| Variable costs Feed             | 1,547                     | 1,589              |  |
| Vet and medicines               | 62                        | 73                 |  |
| Other variable costs            | 198                       | 199                |  |
| Total variable costs            | 1,807                     | 1,861              |  |
| Gross Margin                    | 703                       | 827                |  |
| Fixed costs                     |                           |                    |  |
| Paid labour                     | 230                       | 233                |  |
| Unpaid labour                   | 26                        | 26                 |  |
| Contract hire                   | 25                        | 39                 |  |
| Machinery depreciation          | 48                        | 48                 |  |
| Machinery repairs  Fuel and oil | 39<br>28                  | 31<br>25           |  |
| Electricity and heating fuel    | 57                        | 68                 |  |
| Water                           | 15                        | 16                 |  |
| Insurance                       | 23                        | 29                 |  |
| Professional fees               | 17                        | 24                 |  |
| General farm costs              | 33                        | 30                 |  |
| Occupiers repairs               | 62                        | 57                 |  |
| Rent and rates                  | 52                        | 73                 |  |
| Total fixed costs               | 655                       | 698                |  |
| Net farm income                 | 48                        | 129                |  |
| Less farmer and spouse labour   | 86                        | 115                |  |
| Add Management                  | 3                         | 3                  |  |
| Net margin                      | -35                       | 17                 |  |

#### 4.0 Appendix A

#### **Notes and Definitions**

#### Classification of Farms in the FBS

Farms in the Farm Business Survey are grouped by type of farm based on the EC system of classification defined by Commission Regulation 1242/2008 (with minor modifications to adapt it to United Kingdom conditions). This classification system uses Standard Outputs per hectare of crop area and per head of livestock estimated over a 5 year period. For 2010/11 (in line with the EU regulation) Standard Outputs were first introduced and were calculated for the period 2005-2009 (referred to as 2007 Standard Outputs). Prior to 2010, farm classification was based on using Standard Gross Margins. From 2013/14, Standard Outputs were recalculated for the period 2008-2012 (referred to as 2010 Standard Outputs). From 2018/19, the classification of farms is based on 2013 standard output coefficients. For more information please see <a href="https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/365564/fbs-uk-farmclassification-2014-21oct14.pdf">https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file/365564/fbs-uk-farmclassification-2014-21oct14.pdf</a>

**Management and Investment Income (MII)** is defined as the return to the farmer and spouse for their management and on the tenant-type capital of the business. Management and investment income is NFI minus an imputed cost for the manual labour of the farmer and spouse plus paid management.

**Net Farm Income (NFI)** assumes all farms are tenanted and that all tenant type assets are owned by the farmer. It represents the return to the farmer and spouse for their manual and managerial labour and on tenant type capital in livestock, crops, machinery, etc., but excluding land and buildings. It is calculated before deduction of interest payments on any farming loans and also excludes interest earned on any financial assets owned. (Breeding livestock appreciation (BLSA) is excluded from total farm output and, therefore, is not included in net farm income).

Farm Business Income (FBI) for sole traders and partnerships represents the financial return to all unpaid labour (farmers and spouses, directors, non-principal partners and directors and their spouses and family workers) and on all their capital invested in the farm business, including land and buildings. For corporate businesses it represents the financial return on the shareholders capital invested in the farm business. It is used when assessing the impact of new policies or regulations on the individual farm business. Although Farm Business Income is equivalent to financial Net Profit, in practice they are likely to differ because Net Profit is derived from financial accounting principles whereas Farm Business Income is derived from management accounting principles. For example in financial accounting output stocks are usually valued at cost of production, whereas in management accounting they are usually valued at market price. In financial accounting depreciation is usually calculated at historic cost whereas in management accounting it is often calculated at replacement cost.

**Unpaid Labour costs** are based on the time spent in manual work on the farm, valued at the appropriate prevailing hourly earnings of agricultural workers. Farmer and spouse unpaid labour costs are added back in order to calculate NFI from MII.

#### Weighting of results

All data presented in this report has been weighted to reflect the relative significance of each farm in the population. The weighting adopted has been the same as that used in the main FBS results (see <a href="https://www.farmbusinesssurvey.co.uk">www.farmbusinesssurvey.co.uk</a>).

All FBS results are weighted so as to represent the whole population of farms rather than just the sample. The population in this case is all farms in England has a Standard Output of 25,000 euros. Weighting of FBS data is a two-stage procedure. The first stage applies a multiple to each farm to bring the number of farms to population level and to correct for differing probabilities of selection from the June agricultural census sampling frame; the second stage readjusts these weights to correct for biases identified from a range of variables in external data sources.

#### Average number of sows

The average number of sows is an annual average calculated from the number of sows and in-pig gilts on the farm.

5.0 Appendix B: Reports in Series

Reports in this series:

Crop Production in England 2019/20

Dairy Farming in England 2019/20

Hill Farming in England 2019/20

Horticulture Production in England 2019/20

Lowland Grazing Livestock Production in England 2019/20

Organic Farming in England 2019/20

Pig Production in England 2019/20

Details available at www.ruralbusinessresearch.co.uk

Poultry Production in England 2019/20



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