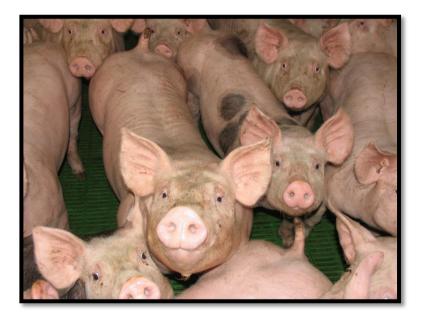


Farm Business Survey

2012/2013

Pig Production in England



Mervyn Lewis



independent research, data and analysis

Rural Business Research

Contents

| Foreword | | iii-iv |
|------------|---|--------|
| Summary | | v |
| Chapter 1 | Economic Background | 1 |
| Chapter 2 | Financial Performance of Specialist Pig Farms | 8 |
| Chapter 3 | Margins for Pig Enterprises | 16 |
| Appendix A | Notes and Definitions | 22 |
| Appendix B | Reports in this Series | 24 |

List of Tables

| Table 1.1 Pigs on Agricultural Holdings in England 1 st June | 2 |
|--|----|
| Table 1.2 Specialist Pig Holdings by Region 2012 | 3 |
| Table 1.3 Number of Pigs by Region 2012 | 3 |
| Table 1.4 Pigs Slaughtered in England 2001-2013 | 4 |
| Table 1.5 Supply and Use of Pigmeat 2005-2012 | 5 |
| Table 1.6 Pig Prices 2001-2013 | 6 |
| Table 2.1 Specialist Pig Farms – Financial Results | 10 |
| Table 2.2 Specialist Pig Farms 2012/13 – Grouped by MII per Farm | 11 |
| Table 2.3 Specialist Pig Farms 2012/13 – Grouped FBI per Farm | 12 |
| Table 2.4 Specialist Pig Farms 2012/13 – Grouped by Type | 13 |
| Table 2.5 Specialist Pig Farms 2012/13 – Grouped by Standard Output per Farm | 14 |
| Table 2.6 Specialist Pig Farms 2012/13 – Grouped by Performance Ratio | 15 |
| Table 3.1 Specialist Pig Farms – Net Margins | 18 |
| Table 3.2 Specialist Pig Farms 2012/13 – Net Margins by Farm Type | 19 |
| Table 3.3 Specialist Pig Farms 2012/13 - Costs and Margins per £100 Pig Output | 20 |
| Table 3.4 Specialist Pig Farms – Net Margins per Sow | 21 |

List of Figures

| Figure 1 Dea | adweight Averag | ge Pig Prices (DAF | P) 2001-2013 | 7 |
|--------------|-----------------|--------------------|--------------|---|
|--------------|-----------------|--------------------|--------------|---|

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 lead 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 <u>www.farmbusinesssurvey.co.uk</u>. 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 new 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

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.

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.

Cover photograph kindly supplied by Pig World.

Foreword to the Eighth Series

Drawing upon data from the financial year 2012 to 2013, this eighth series of reports arguably represents a turning point in the average financial fortunes of agricultural and horticultural businesses in England. Across the sectors, average Farm Business Income (FBI) fell by 30% from the previous year's results, albeit with specialist pig and poultry farms bucking this trend. Looking across the most recent five years' FBI performance, we may yet look back to the harvest of 2011, and the 2011-12 financial year more generally, and conclude this represented a high point for the industry, in aggregate, at the start of the 2000s. Therefore, as we provide the 2012-13 results for particular farm types and enterprises, it is opportune to consider the driving forces of economic performance as we look to the future.

Having written about Common Agricultural Policy (CAP) reform numerous times within the forewords to these series, one would be forgiven for thinking that we must have by now arrived at a point of certainty and clear policy direction. However, at the start of 2014, while the direction of the CAP is certainly clearer, there remains considerable uncertainty over how the broad CAP reform package that has been agreed will be implemented. The modulation rules over the movement of monies from Pillar I to Pillar II of the CAP will almost certainly lead to a more uncommon implementation of the CAP is how the greening rules will be implemented by member states – discussions of crop rotation and permanent pasture will take on a whole new meaning and focus around the kitchen tables of farm households, while understanding what is meant by an Ecological Focus Area is already bringing forward yet more terminology and rules for farmers and producers to get to grips with.

No preface to the 2012-13 agricultural and horticultural financial year data analysis would be complete without reference to the prevailing climatic conditions over the April 2012 to March 2013 period. After the early spring 2012 drought conditions gave way to one of the wettest summers on record, the main grass and crop growing and harvest season of 2012 will not quickly fade from the memories of those at the sharp end of primary food production. The exceptionally cold late winter of 2012/13 and spring 2013 then placed increased pressures on many businesses, placing immediate financial pressures on livestock farmers. The results presented in this eighth series must therefore be set against the prevailing conditions of this. hopefully atypical, 12 month period. However, the impacts of yields and costs are only part of the story; output prices, exchange rate fluctuations, policy support and diversification opportunities all contribute to the changing fortunes of the various sectors that we report on in our series. As businesses look to the future, all of these aspects, and many more, will be at the forefront of their thinking. To help businesses assess their own strengths, weaknesses, opportunities and threats, we hope that the data and independent analyses contained within Rural Business Research's (RBR) series of reports provide useful and essential information to facilitate the task.

Once again, I particularly thank all the farmers and producers who take part in the FBS research programme; without the voluntary contribution of these individual businesses it would not be possible to provide such a breadth and depth of data and information to the wider industry.

Dr Paul Wilson

Chief Executive Officer, Rural Business Research January 2014

www.ruralbusinessresearch.co.uk

Summary

This report presents the results collated from those farms with pig enterprises in the 2012/13 Farm Business Survey. They relate to farm businesses with financial year ends between 31st December 2012 and 31st March 2013. Most of the data is drawn from those farms defined as Specialist Pig Farms, that is, more than two-thirds of their total standard output is derived from pigs.

Pig numbers have declined by 36% in the last two decades between 1990 and 2013. In 2013 there was a slight fall in the number of breeding pigs (-0.6%), however, fattening pig numbers rose quite substantially (12.6%), which has resulted in an increase in overall pig numbers (11%), compared to the previous year.

The Yorkshire and the Humber and Eastern regions taken together account for 62% of the pigs in England. In consequence, the other six regions only account for the remaining 38%.

Slaughter statistics indicate that 7831 thousand head of pigs were killed in 2012, an increase of 3% on the previous year. In consequence of these increasing numbers the percentage contribution made by home produced meat to total supply increased to 59%. This is the highest level recorded for some years.

Since 2011 pig prices have improved. In 2011 and 2012 prices averaged 145 pence per kg and 150 pence per kg respectively for the year. In 2013 prices improved again and the annual average price was 165 pence per kg.

The full sample of 70 Specialist pig farms recorded an average gross margin of £204,333 after deduction of variable costs amounting to £311,362. Feed costs accounted for 82% of total variable costs and just over half of all costs. Compared to the previous year, feed costs rose by 2%. Fixed costs amounted to £183,963 resulting in an average Management and Investment Income (MII) of £20,371 (previous year £13,870). Average Net Farm Income (NFI) was £40,820 (£34,833). Average Farm Business Income (FBI) was £40,889 (£37,980). This is the third year in succession that pig producers have experienced low returns.

There is always a great variation in profit performance between farms and it was noticeable that, as in the previous year, one-half of all farms showed a negative MII figure (35 out of 70). Furthermore, nearly one-quarter (16 farms) showed negative FBI figures. The top 25% show an average MII of £128,022 whilst the bottom 25% show an average negative MII of £33,127. The high MII farms are significantly larger than the others with a pig output five times larger than the middle 50% band. The gap between the top and bottom performers remains very wide.

In 2013, pig prices have strengthened and feed prices have fallen and consequently there has been considerable improvement in the compound feed price to pig price ratio. Most pig producers are enjoying positive margins and the 2013/14 results should show a considerable upturn in profitability. It would be a great boost to the pig sector in the UK if there could be a sustained period where there is stability in pig margins.

Enterprise Net Margins for pigs derived from the FBS sample are also presented in this report. On a sample of 65 Specialist Pig Farms there was an average Net Margin of £17,124 which compares with a negative Net Margin of £296 for the previous year. Within this figure there are 34 farms (52%) making a negative Net Margin. This is very similar to the previous year indicating that many farms are experiencing a sustained period of loss making.

Breeding farms selling finished pigs made a Net Margin of £19,009. The contract rearing only farms and the 'other' farm type showed positive Net Margins of £15,670 and £15,042 respectively.

Chapter 1

Economic Background

The purpose of this chapter is to collate relevant pig data for England. Data has been presented for different time series in order to show the key changes. The following figures clearly portray the dramatic structural change that has taken place in the industry during this period.

Pig Population – June Survey

Table 1.1 shows the pig population in England according to the June survey data. Data for the five years 2009-2013 is presented together with historic data for 1990 and 2000 as a comparison. The 2009 data has been revised so there is a break in the data series.

Pig numbers have declined by 36% in the last two decades between 1990 and 2013. In 2013 there was a slight fall in the number of breeding pigs (-0.6%), however, fattening pig numbers rose quite substantially (12.6%), which has resulted in an increase in overall pig numbers (11%), compared to the previous year.

Regional Specialist Pig Holdings and number of pigs

Table 1.2 shows the number of holdings in 2012 classified as specialist pig holdings according to region in England. Pre 2010 farm type was classified by the predominant farming activity taking place on the holdings, based on economic measure and profitability (Standard Gross Margin, SGM). The farm type is defined as the activity which contributes more than two thirds of the total SGM for the holding. For 2010 onwards the methodology for classifying farms has changed to one based on Standard Outputs (SO). The table shows that the switch to SO in 2009 increased the number of farms classified as pig holdings by 15%. In 2012, the number of holdings classified as pigs, using SO typology, fell by 2%. The greatest percentage decrease was seen in the North East, with a fall of 7%. In terms of absolute numbers, however, the largest decrease was seen in the Eastern region.

Table 1.3 shows the distribution of pigs by region in 2012. This highlights the fact that the Yorkshire and the Humber account for 35% of the total pigs in England with the Eastern region accounting for a further 27%. There was an overall decrease of 23% of the total number of pigs in 2012, compared with 2011. The South East saw the biggest decrease of 30%.

Collectively data from Table 1.2 and 1.3 suggests that in 2012, the number of pig holdings in England and the average number of pigs on each holding decreased.

Pig slaughter data for England

Table 1.4 shows the number of clean pigs and sows and boars slaughtered in England for the period 2001-2013. In 2010 and 2011 Defra were unable to release data on the number of sows and boars slaughtered. This is for confidentiality reasons.

In 2009 the number of pigs slaughtered in England reached its lowest recorded level at 6886 thousand. However, over the last couple of years we have seen a steady increase to 8164 thousand pigs slaughtered in 2013, an increase of 19% compared to 2009. Not shown in the table is the average carcase weight. In 2000 the average carcase weight was 70kg, however over the last decade this has increased by over 10%, with average carcass figures reported in 2013 at 79.5kg.

UK Supply and use of Pork and Bacon

Table 1.5 shows the impact of the changing numbers of pigs on the percentage contribution made by home produced meat to total supply. In the period 2005-2009 home production of pig meat has fluctuated around 50% of total supply. In recent years there has been a modest improvement and in 2012 home production increased to 59% of total supply. There was a fall in exports of 9% to EU countries; however, exports to the rest of the world rose by 10% when compared with the previous year's figures.

UK Pig prices

Table 1.6 shows pig prices for the period 2001-2013. In the late 1990s pig prices collapsed and the sector contracted considerably as a consequence of these low prices. In the period 2004-2007 the monthly pig price was relatively stable. In the period 2007-2009 prices improved and peaked at 155 pence per kg in July of 2009. In 2010, prices fell back 3% on the previous year. In 2011 and 2012 prices improved and averaged 145 pence per kg and 150 pence per kg respectively for the year. In 2013 prices improved again and the annual average price was 165 pence per kg.

| | 1990 | 2000 | 2009 | Revised 2009 | 2010 | 2011 | 2012 | 2013 | % change 2013/2012 |
|--------------------------------|------|------|------|-----------------|------|------|------|------|-----------------------|
| Total pigs | 6308 | 5442 | 3872 | 3689 | 3606 | 3600 | 3662 | 4066 | 11% |
| Breeding pigs | 757 | 595 | 444 | 421 | 423 | 433 | 437 | 434 | -0.6% |
| Sows in pig | 417 | 340 | 264 | 250 | 228 | 227 | 244 | 234 | -3.9% |
| Gilts in pig | 92 | 60 | 43 | 41 | 54 | 58 | 57 | 53 | -6.7% |
| Other sows | 137 | 103 | 65 | 61 | 64 | 68 | 51 | 59 | 16.1% |
| Boars | 37 | 25 | 16 | 15 | 14 | 14 | 14 | 13 | -6.4% |
| Gilts not yet in pig | 73 | 68 | 57 | 54 | 63 | 65 | 72 | 75 | 4.8% |
| Fattening pigs (liveweight) | 5552 | 4847 | 3428 | 3268 | 3183 | 3167 | 3225 | 3632 | 12.6% |
| 110kg and over | 52 | 47 | 39 | 38 | 38 | 38 | 39 | 40 | 3.7% |
| 80-110kg | 513 | 643 | 532 | 511 | 503 | 500 | 510 | 559 | 9.8% |
| 50-80kg | 1473 | 1280 | 821 | 770 | 796 | 792 | 806 | 868 | 7.6% |
| 20-50kg | 1785 | 1468 | 1029 | 982 | 921 | 917 | 934 | 1041 | 11.5% |
| Under 20kg | 1728 | 1409 | 1006 | 967 | 925 | 920 | 937 | 1123 | 19.9% |

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

Source:

https://www.gov.uk/government/statistical-data-sets/structure-of-the-agricultural-industry-in-england-and-the-uk-at-june

Table 1.2 Specialist Pig Holdings by Region 2012

| | 2009 | 2009 | 2010 | 2011 | 2012 |
|---------------------------|------|------|------|------|------|
| | sgm | SO | SO | SO | SO |
| North East | 42 | 50 | 39 | 46 | 43 |
| North West and Merseyside | 106 | 117 | 110 | 125 | 127 |
| Yorkshire and The Humber | 301 | 421 | 410 | 464 | 464 |
| East Midlands | 128 | 156 | 159 | 174 | 178 |
| West Midlands | 137 | 138 | 133 | 161 | 153 |
| Eastern | 330 | 398 | 369 | 398 | 382 |
| South East | 149 | 154 | 137 | 159 | 159 |
| South West | 269 | 253 | 244 | 283 | 274 |
| England | 1462 | 1687 | 1601 | 1810 | 1780 |

Source: DEFRA Farming Statistics

Table 1.3 Number of Pigs by Region 2012

| | 2010 | 2011 | 2012 |
|---------------------------|-----------|-----------|-----------|
| North East | 89,056 | 89,832 | 68557 |
| North West and Merseyside | 138,284 | 141,882 | 115782 |
| Yorkshire and The Humber | 1,222,505 | 1,257,909 | 971222 |
| East Midlands | 344,131 | 332,655 | 276616 |
| West Midlands | 188,840 | 193,304 | 145102 |
| Eastern | 1,032,016 | 989,187 | 749944 |
| South East (incl. London) | 204,756 | 201,053 | 140746 |
| South West | 386,529 | 393,737 | 295118 |
| England | 3,606,117 | 3,599,559 | 2,763,086 |

Source: DEFRA Farming Statistics

Table 1.4 Pigs Slaughtered in England 2001-2013 (thousand head)

| Year | Clean pigs | Sows and boars |
|------|------------|----------------|
| 2001 | 8646 | 163 |
| 2002 | 8231 | 289 |
| 2003 | 7074 | 226 |
| 2004 | 7126 | 227 |
| 2005 | 6984 | 198 |
| 2006 | 7020 | 196 |
| 2007 | 7231 | 206 |
| 2008 | 7223 | 231 |
| 2009 | 6886 | 196 |
| 2010 | 7282 | С |
| 2011 | 7592 | С |
| 2012 | 7831 | 263 |
| 2013 | 8164 | 249 |

Footnotes:

C data are confidential

Source:

https://www.gov.uk/government/publications/cattle-sheep-and-pig-slaughter

Table 1.5 Supply and Use of Pigmeat 2005-2012 (thousand tonnes)

| | | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--|-----------------------|------|------|------|------|------|------|------|------|
| | | | | | | | | | |
| Home-fed pr | oduction | 669 | 667 | 707 | 706 | 681 | 712 | 759 | 781 |
| Imports from: | the EU (a) | 836 | 837 | 864 | 801 | 804 | 801 | 770 | 719 |
| | the rest of the world | 6 | 7 | 5 | 12 | 12 | 12 | 11 | 10 |
| Exports to: | the EU | 101 | 110 | 113 | 130 | 109 | 146 | 154 | 140 |
| | the rest of the world | 12 | 10 | 12 | 25 | 26 | 25 | 39 | 43 |
| Total new supply | | 1398 | 1391 | 1451 | 1364 | 1362 | 1353 | 1347 | 1327 |
| Home-fed production as % of total new supply for use in the UK | | 48% | 48% | 49% | 52% | 50% | 53% | 56% | 59% |

Footnotes: The figures for 2012 are provisional and have been adjusted from a 53-week to a 52-week basis where appropriate.

(a) Includes meat from imports of live finished animals.

Source: Agriculture in the United Kingdom 2012

5

Table 1.6 Pig Prices 2001-2013

Clean Pigs (AESA) UK (a)

pence per kg dwt

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|-------|-------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|
| 2001 | 98.14 | 96.50 | 97.40 | 95.96 | 96.44 | 103.01 | 104.20 | 95.74 | 92.81 | 94.11 | 99.50 | 102.60 |
| 2002 | 93.38 | 88.29 | 95.03 | 98.06 | 101.07 | 103.39 | 95.55 | 88.76 | 88.07 | 88.66 | 90.31 | 91.50 |
| 2003 | 94.78 | 98.93 | 108.36 | 105.88 | 110.02 | 112.39 | 102.32 | 96.52 | 97.48 | 103.75 | 106.90 | 101.97 |
| 2004 | 98.71 | 99.35 | | | | | | | | | | |

Deadweight Pig Prices (DAPP GB (EU)) (a)

pence per kg dwt

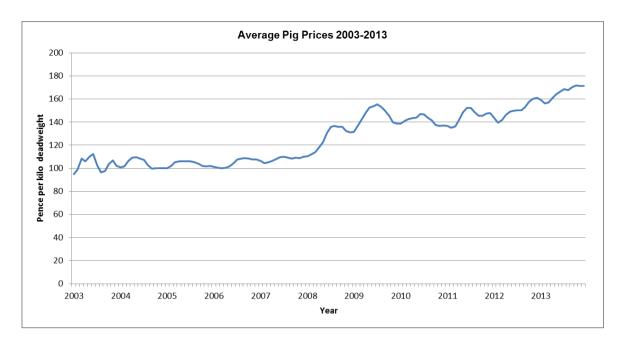
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2003 | | | | | 109.24 | 111.53 | 104.00 | 98.26 | 98.49 | 103.75 | 107.27 | 103.28 |
| 2004 | 100.80 | 101.56 | 106.26 | 109.27 | 109.64 | 108.54 | 107.52 | 102.96 | 99.57 | 100.08 | 99.95 | 100.18 |
| 2005 | 99.99 | 102.09 | 105.39 | 106.03 | 106.01 | 106.19 | 106.06 | 105.12 | 103.95 | 102.07 | 101.74 | 101.95 |
| 2006 | 101.23 | 100.61 | 99.96 | 100.54 | 101.68 | 104.37 | 107.59 | 108.42 | 108.87 | 108.42 | 107.47 | 107.82 |
| 2007 | 106.45 | 104.54 | 105.28 | 106.40 | 108.13 | 109.55 | 109.96 | 109.37 | 108.52 | 109.04 | 108.99 | 110.17 |
| 2008 | 110.34 | 111.85 | 113.86 | 118.00 | 122.87 | 130.21 | 136.03 | 136.70 | 136.06 | 135.86 | 132.48 | 131.14 |
| 2009 | 131.46 | 137.14 | 142.32 | 148.30 | 152.81 | 154.04 | 155.27 | 153.06 | 150.05 | 145.62 | 140.01 | 138.79 |
| 2010 | 138.89 | 140.92 | 142.51 | 143.60 | 143.86 | 147.04 | 146.54 | 143.74 | 141.43 | 137.57 | 136.69 | 137.23 |
| 2011 | 136.69 | 134.93 | 136.21 | 141.84 | 148.76 | 152.24 | 152.46 | 148.62 | 145.34 | 145.52 | 147.41 | 147.74 |
| 2012 | 143.46 | 139.66 | 141.85 | 146.17 | 148.97 | 149.79 | 150.45 | 150.40 | 152.91 | 157.74 | 160.25 | 160.95 |
| 2013 | 159.32 | 156.21 | 156.96 | 160.94 | 164.06 | 166.79 | 168.55 | 167.90 | 170.07 | 171.87 | 171.56 | 171.31 |

Footnotes:

(a) In 2003 the Meat and Livestock Commission, with the support of the British Pig Executive, launched a new deadweight pig price reporting survey – the Deadweight Average Pig Price (DAPP). The DAPP replaced the Adjusted Euro Spec Average (AESA), the price formally reported. In March 2004 the AESA ceased to be calculated and the DAPP became the official pig price indicator.

Source: ADHB/Defra





Chapter 2

Financial Performance of Specialist Pig Farms

The data in this report has been extracted from the 2012/13 Farm Business Survey (FBS). Full results for this survey, together with previous years, can be accessed at http://www.farmbusinesssurvey.co.uk. 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 2012/13 FBS there were 70 farm businesses that were classified as Specialist Pig farms. This is similar to the previous year when there were 74 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.

Classification of farms

The 70 Specialist Pig farms subdivided into three EU Particular Farm Types as follows :

| EU PFT | No of farms | Description |
|--------|----------------|-------------------------------------|
| | Taims | |
| 5110 | 7 | Specialist pig rearing |
| 5130 | 41 | Pigs rearing and fattening combined |
| 5120 | 22 | 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 with predominantly sows selling either weaners or fat pigs and type 5120 are predominantly farms without sows but selling fat pigs, many on a contract basis.

Financial Results

For the full sample of 70 farms total farm output amounted to £515,696 (Table 2.1) which was 2% higher than the previous year. Pig output accounted for 86% of total output with miscellaneous income accounting for 6%. Receipts from the Single Payment Scheme (SPS) are included in the account under miscellaneous income. SPS income is not significant on these farms because they have very little land area on which to claim the regional payment.

These farms recorded an average gross margin of £204,000 after deduction of variable costs amounting to £311,000. This margin is slightly higher than the one recorded last year, mainly due to an increase in total output. Feed costs accounted for 82% of total variable costs which is the same as the previous year. Fixed costs amounted to £184,000 resulting in a Management and Investment Income (MII) of just over £20,000. Net Farm Income (NFI) averaged £40,820. Farm Business Income (FBI) was slightly higher at £40,889. In summary, incomes have increased by 8%. Average prices in 2012/13 were 8 pence per kg higher than in the previous year and were higher in every corresponding month for the period April 2012 to March 2013 apart from June and July 2012.

There is always a great variation in profit performance between farms and it was noticeable that one-half of all farms showed a negative MII figure (35 out of 70). The number of farms showing negative FBI figures was 16 representing 23% of the sample. In other words, despite an improvement in average levels of profit across the sample the number of farms showing either negative MII or negative FBI figures has not changed from the previous year. Table 2.2 shows the range in performance in terms of MII for Specialist Pig farms. The top 25% recorded an average MII of £128,022 whilst the middle and bottom 25% recorded negative MII of £5,619 and £33,127 respectively. The high MII farms are significantly larger than the other farms with a pig output five times as large as the middle 50% band.

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. On this sample of farms, the 'predominantly sows' farm type is considerably larger than for that of the other farm types. Whilst the associated variable and fixed costs are also higher the overall profit measures are still higher. For instance the average FBI recorded for the 'predominantly sows' group is £54,420 compared to £24,191 for the other farms.

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. There is a good distribution of farms across the three size categories.

The results show a clear difference between the largest size group and those of the other two groups. The largest size group records an average MII of £109,044; whilst the other two size groups record MII's of £966 and £-3,353. When these results are compared with those from previous years it appears that the gap in profitability between the different size groups is growing.

A note on 2013/14

We have seen how the 2012/13 results represented a modest increase in profitability compared to those of the previous year. Indeed, the pig sector was one of the few sectors of the agricultural economy which saw such an increase. Looking ahead, the situation for pig farmers for the 2013/14 year looks encouraging. In contrast to 2012 when feed prices rose, feed prices have now fallen again. In February 2014 feed wheat is valued at £145 per tonne compared to £220 per tonne in December 2012. Forward feed wheat prices for November 2014 are £145 indicating that feed prices will remain stable. Based on the net margin calculation presented in Table 3.1 feed represents 61% of total costs and therefore this change will have a large impact on profitability.

The other key factor is that pig prices have been consistently higher in 2013 compared to 2012. Indeed, prices reached a record high in October with an average recorded price of 172 p per kg. The better returns have also been reflected in an increase in weaner prices. EU output from pigs has fallen and is expected to continue to do so at least in the short term. This has been brought about partly by the impact of the stall and tether ban.

The combination of higher prices and lower feed costs has seen a considerable improvement in the compound feed price to pig price ratio. This, in turn, has meant that according to ADHB figures, producers have been experiencing positive pig margins since the summer of 2013 compared to a very long run of negative margins over the previous three years. Defra predicts that income on pig farms will jump 90% from £41, 000 to £78,000 in 2013/14. Even if this optimistic prediction falls somewhat short there is the real possibility that the pig sector will see a reasonably sustained period of both profitability and stability. This in turn is likely to result in an increase in the breeding herd offsetting at last some of the declines of recent years.

Table 2.1 Specialist Pig Farms – Financial Results

| | | 2011/12 | 2012/13 |
|---|---|---|---|
| Number of farms | | 74 | 70 |
| Output | | £ | £ |
| Pigs Other livestock Crops Miscellaneous | | 419787 9054 33497 40849 | 444218 7607 33419 30451 |
| Total output | | 503187 | 515696 |
| Variable costs Feed Vet and medici Other livestock Crop costs Total variable cost | costs | 251438 12246 27959 12588 304231 | 256223 10860 32699 11581 311362 |
| | 15 | 304231 | 311302 |
| Farm gross margi | n | 198956 | 204333 |
| Fixed costs | | | |
| Labour Machinery | Paid Unpaid Contract Depreciation Repairs Fuel and oil | 53666 21021 9549 16807 11459 10651 | 54238 20706 9745 21002 12603 13047 |
| Occupiers repa Rent and rates Other farm cos | | 11791 27679 22463 | 7874 23869 20879 |
| Total fixed costs | | 185086 | 183963 |
| Management and | investment income | 13870 | 20371 |
| Less management Plus farmer and spo | | 58 21021 | 257 20706 |
| Net farm income | | 34833 | 40820 |
| Less net interest Less building dep Less directors remu Plus rental value Plus imputed labo | reciation and insurance uneration and imputed rent | 6388 11465 1188 18881 3308 | 6821 10559 596 14626 3419 |
| Farm business inc | come | 37980 | 40889 |

Table 2.2 Specialist Pig Farms 2012/13 – Grouped by MII per Farm

| | | Top 25% | Middle 50% | Bottom 25% |
|--|--|--|---|---|
| Output Pigs Other livestock Crops Miscellaneous | < c | £ 1179169 6770 78790 60417 | £ 230862 7340 25182 28113 | £ 145706 8897 5827 6466 |
| Total output | | 1325147 | 291497 | 166895 |
| Variable costs Feed Vet and medic Other livestock Crop costs Total variable cos | costs | 640360 27140 82154 19523 769176 | 145644 6452 19924 11387 183406 | 98462 3658 9674 4434 116227 |
| Farm gross margi | n | 555971 | 108091 | 50668 |
| Fixed costs Labour Machinery Occupiers repa Rent and rates Other farm cos | 6 | 150969 19305 25160 53789 31149 35957 15692 55445 40484 | 24390 21224 5075 12522 7168 6430 4512 16273 16116 | 18230 21068 3846 5757 5165 3682 6728 8127 11193 |
| Total fixed costs | investment income | 427949 128022 | -5619 | 83795 -33127 |
| Less management Plus farmer and sp Net farm income | charges | 694 19305 146632 | 173 21224 15432 | 0 21068 -12058 |
| Less net interest pa Less building depre Less directors remu Plus rental value ar Plus imputed labou | eciation and insurance uneration nd imputed rent | 16713 23347 2122 30015 3986 | 3676 6810 141 11032 3467 | 3313 5432 0 6755 2796 |
| Farm business inc | come | 138452 | 19304 | -11253 |

Table 2.3 Specialist Pig Farms 2012/13 – Grouped by FBI per Farm

| | | Top 25% | Middle 50% | Bottom 25% |
|----------------------|------------------------|---------|------------|------------|
| | | | | |
| Output | | £ | £ | £ |
| Pigs | | 1042785 | 212331 | 308668 |
| Other livestock | K | 6633 | 7253 | 9279 |
| Crops | | 86564 | 18928 | 9299 |
| Miscellaneous | | 65163 | 25925 | 4909 |
| Total output | | 1201145 | 264437 | 332155 |
| Variable costs | | | | |
| Feed | | 567558 | 123482 | 209759 |
| Vet and medic | ines | 21673 | 6487 | 8777 |
| Other livestock | < costs | 75259 | 16552 | 22385 |
| Crop costs | | 22172 | 10157 | 3873 |
| Total variable cos | ts | 686662 | 156677 | 244793 |
| Farm gross margi | in | 514483 | 107760 | 87362 |
| Fixed costs | | | | |
| Labour | - Paid | 137963 | 21649 | 35580 |
| Labour | - Unpaid | 21776 | 21488 | 18091 |
| Machinery | - Contract | 22815 | 5820 | 4527 |
| maoninory | - Depreciation | 51783 | 11601 | 9029 |
| | - Repairs | 27205 | 8368 | 6479 |
| | - Fuel and oil | 32315 | 6312 | 7241 |
| Occupiers repa | | 13093 | 4814 | 8750 |
| Rent and rates | | 51240 | 15275 | 13688 |
| Other farm cos | | 36255 | 15627 | 16001 |
| Total fixed costs | | 394445 | 110954 | 119386 |
| | • | 100000 | 0404 | 00004 |
| Management and | investment income | 120039 | -3194 | -32024 |
| Less management | charges | 690 | 1.8 | 332 |
| Plus farmer and sp | | 21776 | 21488 | 18091 |
| | | - | | |
| Net farm income | | 141125 | 18292 | -14264 |
| Less net interest pa | avments | 14872 | 3410 | 5578 |
| | eciation and insurance | 18653 | 8321 | 6945 |
| Less directors rem | | 2109 | 0 | 274 |
| Plus rental value a | | 27890 | 11370 | 7893 |
| Plus imputed labou | | 6426 | 3095 | 1073 |
| Farm business in | come | 139806 | 21026 | -18096 |
| | | | | |

Table 2.4 Specialist Pig Farms 2012/13 – Grouped by Type

| | Predominantly sows | Predominantly growing/fattening pigs |
|--|---|---|
| Number of farms | 48 | 22 |
| Output Pigs Other livestock Crops Miscellaneous | £ 700458 10033 45688 45605 | £ 128026 4615 18280 11752 |
| Total output | 801783 | 162673 |
| Variable costs Feed Vet and medicines Other livestock costs Crop costs Total variable costs | 443477 18979 47698 17159 527313 | 25157 841 14190 4698 44886 |
| Farm gross margin | 274470 | 117787 |
| Fixed costs | | |
| Labour - Paid - Unpaid Machinery - Contract - Depreciation - Repairs - Fuel and oil Occupiers repairs Rent and rates Other farm costs | 74651 23727 14853 26524 15970 17787 11426 29959 28734 | 29048 16978 3441 14188 8448 7199 3491 16354 11187 |
| Total fixed costs | 243631 | 110334 |
| Management and investment income | 30839 | 7453 |
| Less management charges Plus farmer and spouse labour | 176 23727 | 357 16978 |
| Net farm income | 54390 | 24074 |
| Less net interest payments Less building depreciation and insurance Less directors remuneration Plus rental value and imputed rent Plus imputed labour | 9149 14232 1080 19637 4853 | 3950 6026 0 8443 1650 |
| Farm business income | 54420 | 24191 |

Table 2.5 Specialist Pig Farms 2012/13 – Grouped by Standard Output per Farm

| 000 SO | | 0-200 | 200-500 | 500+ |
|--|---|---------------------------------------|---------------------------------------|---|
| Number of farms | | 17 | 27 | 26 |
| | | | | |
| Output Pigs Other livestock Crops Miscellaneous | | £ 144251 3328 8907 1174 | £ 225999 7196 34978 31829 | £ 1515445 17913 85237 93233 |
| Total output | | 157661 | 300002 | 1711827 |
| Variable costs Feed Vet and medici Other livestock | | 60264 1885 15671 | 132838 6550 19111 | 920709 38823 95719 |
| Crop costs | | 569 | 12681 | 34123 |
| Total variable cost | ts | 78389 | 171180 | 1089374 |
| Farm gross margi | n | 79272 | 128822 | 622453 |
| Fixed costs Labour | - Paid - Unpaid | 21542 18859 | 30965 21949 | 170054 22539 |
| Machinery Occupiers repa | - Contract - Depreciation - Repairs - Fuel and oil airs | 1973 10519 5432 4618 1861 | 4732 11724 7855 6935 5072 | 36316 61482 37348 43113 26450 |
| Rent and rates Other farm cos | | 8921 8900 | 17430 21195 | 69081 47026 |
| Total fixed costs | | 82625 | 127856 | 513409 |
| Management and | investment income | -3353 | 966 | 109044 |
| Less management Plus farmer and spo | | 363 18859 | 232 21949 | 66 22539 |
| Net farm income | | 15143 | 22683 | 131517 |
| Less net interest pa | ayments | 2684 | 3870 | 21490 |
| | eciation and insurance | 2639 0 | 9379 994 | 30402 1194 |
| Plus rental value ar Plus imputed labou | nd imputed rent | 3330 1421 | 14268 4595 | 40488 5711 |
| Farm business inc | come | 14571 | 27304 | 124631 |

Table 2.6 Specialist Pig Farms 2012/13 – Grouped by Performance Ratio

| Ratio | | 102-147 | 91-102 | 44-91 |
|----------------------|----------------------------------|---------|--------|--------|
| Number of farms | | 29 | 27 | 14 |
| | | | | |
| Output | | £ | £ | £ |
| Pigs | | 824338 | 431231 | 70789 |
| Other livestock | | 6755 | 8388 | 7691 |
| Crops | | 71972 | 22139 | 5544 |
| Miscellaneous | | 48885 | 40345 | 1782 |
| Total output | | 951950 | 502103 | 85805 |
| Variable costs | | | | |
| Feed | | 438589 | 280565 | 46386 |
| Vet and medici | | 16930 | 14198 | 1340 |
| Other livestock | costs | 58583 | 33804 | 5273 |
| Crop costs | | 17131 | 16459 | 1042 |
| Total variable cost | S | 531232 | 345027 | 54040 |
| Farm gross margir | n | 420717 | 157076 | 31765 |
| | | | | |
| Fixed costs | | | | |
| Labour | - Paid | 109791 | 42309 | 9728 |
| | - Unpaid | 20217 | 22579 | 19324 |
| Machinery | - Contract | 18559 | 8569 | 1964 |
| | Depreciation | 42227 | 15794 | 4648 |
| | - Repairs | 22538 | 11364 | 3746 |
| | - Fuel and oil | 25914 | 10336 | 2687 |
| Occupiers repa | iirs | 11555 | 10379 | 1618 |
| Rent and rates | | 44066 | 22636 | 4572 |
| Other farm cos | ts | 30766 | 23647 | 8050 |
| Total fixed costs | | 325633 | 167612 | 56339 |
| Management and i | nvestment income | 95085 | -10536 | -24574 |
| management and i | | 50005 | 10000 | 24014 |
| Less management | charges | 513 | 254 | 0 |
| Plus farmer and spo | | 20217 | 22579 | 19324 |
| | | | | |
| Net farm income | | 114788 | 11789 | -5249 |
| | | | | |
| Less net interest pa | vments | 12092 | 6604 | 1681 |
| | ciation and insurance | 15837 | 12733 | 3010 |
| Less directors remu | | 1567 | 207 | 0 |
| Plus rental value an | | 23432 | 17662 | 2626 |
| Plus imputed labour | | 2518 | 6086 | 1660 |
| | | | | |
| Farm business inc | ome | 111242 | 15992 | -5653 |
| | | | | |

Chapter 3

Margins for Pig Enterprises

Since 2004 additional data has been collected from a sub-set of FBS farms to enable Gross and Net Margins to be calculated for specific enterprises. This was introduced as an alternative to the full survey approach previously undertaken as part of the Special Studies Programme commissioned by Defra. The last full Special Studies survey concerned with Pig production was published in 2004 and related to the financial year ending September 2003 (see Shepherd 2004 at http://centres.exeter.ac.uk/crpr). This was a comprehensive survey of over 300 farms recruited from a stratified sample.

The data presented in this section is not directly comparable to the Special Study report. This data comes from a smaller sample based on farms already participating in the FBS, no additional physical data was collected and, crucially, the methodology for calculating net margins is completely different. In the Special Studies approach fixed costs are estimated by the researcher in conjunction with the co-operator. In the FBS based approach, the variable costs are allocated to enterprises by estimation but some of the fixed costs are allocated to the different enterprises according to co-efficients for each enterprise. Data on the validity of these co-efficients is being accumulated with a view to improving them over time. For Specialist Pig farms, the net margins for the pig enterprises and therefore the majority of fixed costs are rightly attributable to the pig enterprise.

Classification of farms

Net and gross margins were completed for 65 Specialist Pig farms. This is because of the 70 farms reported in Chapter 2 data for net margins were not available for five farms.

These were classified as follows:

| Туре | No of farms | Definition |
|------|-------------|---------------------------------------|
| 111 | 6 | Breeders selling weaners (rearers) |
| 112 | 35 | Breeders selling fat pigs (finishers) |
| 113 | 1 | Buying weaners, selling fat pigs |
| 114 | 20 | Contract rearing |
| 115 | 3 | Other |

Due to the small sample sizes it is not possible to show the results for each type listed above. Consequently, results have been presented for types 112, 114 and combined types 111, 113, and 115.

Net Margin results

Table 3.1 shows that the full sample of 65 Specialist Pig Farms recorded an average Net Margin of £17,124. In the previous year there was a negative Net Margin of £296. This average figure masks a huge variation in performance. Within this figure there are 34 farms (52%) making a negative Net Margin. This is very similar to the previous year indicating that many farms are experiencing a sustained period of loss making.

Table 3.2 presents the results split into three different categories, namely breeding farms selling finished pigs, contract rearing only farms and all other farms. The latter comprises both breeders selling weaners and also a number of farms that do not easily fit into one specific category. This analysis shows that the different farm types all recorded a positive Net Margin in contrast to the previous year when those breeding farms selling finished pigs showed a large negative margin. Breeding farms selling finished pigs made a profit of

£19,009. The contract rearing only farms and the 'other' farm type showed positive Net Margins of £15,670 and £15,042 respectively.

Table 3.3 presents the costs and margins per £100 output for two categories of farms – combined breeding and finishing units (type 112) and others (excluding contract rearing).

Table 3.4 presents the results in terms of Net Margins per sow. It is only possible to do this for the breeder-finisher farms because sample sizes are too small for the other groups. In 2012/13 there is a Net Margin of £58 per sow compared to a margin loss of £40 in 2011/12. One of the reasons for this increase in profitability per sow is that output was higher at £2,110, compared to £2,095 the previous year. Variable costs per sow were very similar at £1536. However, more importantly, fixed costs fell quite significantly from £525 in 2011/12 to £451 in 2012/13. This may be partly because average sow numbers per farm increased from 288 to 327 although it should be noted that it is not an identical sample.

Table 3.1 Specialist Pig Farms – Net Margins

| | 2011/12 | 2012/13 |
|-------------------------------|---------|---------|
| Number of farms | 70 | 65 |
| | | |
| Output | 420208 | 452065 |
| Variable costs | | |
| Feed | 248400 | 255714 |
| Vet and medicines | 12031 | 10742 |
| Other variable costs | 26657 | 32278 |
| | 20037 | 52276 |
| Total variable costs | 287088 | 298734 |
| Gross Margin | 133120 | 153331 |
| | | |
| Fixed costs | | |
| Paid labour | 45039 | 45751 |
| Unpaid labour | 2508 | 3264 |
| Contract hire | 4228 | 5592 |
| Machinery depreciation | 10011 | 15759 |
| Machinery repairs | 7034 | 8410 |
| Fuel and oil | 6799 | 9452 |
| Electricity and heating fuel | 5982 | 4923 |
| Water | 2272 | 2176 |
| Insurance | 3147 | 2910 |
| Professional fees | 2568 | 2704 |
| General farm costs | 3047 | 3060 |
| Occupiers repairs | 9387 | 5890 |
| Rent and rates | 14568 | 9610 |
| Total fixed costs | 116589 | 119500 |
| Net farm income | 16531 | 33831 |
| Less farmer and spouse labour | 16877 | 16982 |
| Plus managerial input | 49 | 275 |
| Net margin | -296 | 17124 |

Table 3.2 Specialist Pig Farms 2012/13 – Net Margins by Farm Type

| Farm type | Breeders selling fat pigs | Others | Contract rearing |
|-------------------------------|------------------------------|--------|---------------------|
| Number of farms | 35 | 10 | 20 |
| Average number of sows | 327 | 278 | 34 |
| | £ | £ | £ |
| Output | 690206 | 574341 | 121030 |
| Variable costs | | | |
| Feed | 440987 | 346057 | 0 |
| Vet and medicines | 16760 | 20029 | 8 |
| Other variable costs | 44615 | 38428 | 15197 |
| Total variable costs | 502362 | 404514 | 15205 |
| Gross Margin | 187844 | 169827 | 105824 |
| Fixed costs | | | |
| Paid labour | 57371 | 53167 | 29045 |
| Unpaid labour | 5352 | 0 | 2021 |
| Contract hire | 9292 | 4130 | 1734 |
| Machinery depreciation | 18956 | 12648 | 13132 |
| Machinery repairs | 10126 | 9420 | 5976 |
| Fuel and oil | 11878 | 10815 | 6035 |
| Electricity and heating fuel | 6681 | 9867 | 935 |
| Water | 2694 | 3689 | 978 |
| Insurance | 3871 | 3237 | 1638 |
| Professional fees | 3213 | 3029 | 1972 |
| General farm costs | 3881 6287 | 3783 | 1802 |
| Occupiers repairs | | 15168 | 1867 |
| Rent and rates | 7952 | 13157 | 10233 |
| Total fixed costs | 147554 | 142110 | 77367 |
| Net farm income | 40291 | 27716 | 28457 |
| Less farmer and spouse labour | 21476 | 12758 | 13231 |
| Plus managerial input | 195 | 84 | 443 |
| Net margin | 19009 | 15042 | 15670 |

| Farm type | Breeders selling Others exe fat pigs contract rea | |
|------------------------------|--|------|
| | £ per £100 output | |
| Feed | 63.9 | 60.3 |
| Other variable costs | 8.9 | 10.2 |
| Gross margin | 27.2 | 29.6 |
| Labour costs | 12.2 | 11.5 |
| Contract and machinery costs | 7.3 | 6.4 |
| Occupiers repairs | 0.9 | 2.6 |
| Rent and rates | 1.2 | 2.3 |
| Other fixed costs | 3.0 | 4.1 |
| Net margin | 2.8 | 2.6 |

Table 3.3 Specialist Pig Farms 2012/13 - Costs and Margins per £100 Pig Output

Table 3.4 Specialist Pig Farms – Net Margins per Sow

| | 2011/12 | 2012/13 |
|-------------------------------|------------------|--------------|
| Farm Type | Breeders selling | fat pigs |
| Number of farms | 36 | 35 |
| Number of sows | 288.2 | 327.0 |
| | | |
| Quint | £ | £ |
| Output | 2095.0 | 2110.7 |
| Variable costs | | |
| Feed | 1357.2 | 1348.6 |
| Vet and medicines | 59.3 | 51.3 |
| Other variable costs | 124.6 | 136.4 |
| Total variable costs | 1541.1 | 1536.3 |
| Gross Margin | 553.8 | 574.4 |
| Fixed costs | | |
| Paid labour | 193.4 | 175.4 |
| Unpaid labour | 14.8 | 16.4 |
| Contract hire | 22.8 | 28.4 |
| Machinery depreciation | 44.0 | 58.0 |
| Machinery repairs | 34.1 | 31.0 |
| Fuel and oil | 23.8 | 36.3 |
| Electricity and heating fuel | 35.0 | 20.4 |
| Water | 10.5 | 8.2 |
| Insurance | 13.9 | 11.8 |
| Professional fees | 10.8 | 9.8 |
| General farm costs | 13.6 34.9 | 11.8 19.2 |
| Occupiers repairs | | 24.3 |
| Rent and rates | 74.1 | 24.3 |
| Total fixed costs | 525.6 | 451.2 |
| Net farm income | 28.3 | 123.2 |
| Less farmer and spouse labour | 69.0 | 65.7 |
| Add Management | 0.0 | 0.6 |
| Net margin | -40.7 | 58.1 |

Appendix A

Notes and Definitions

Classification of Farms in the FBS

Farms are classified by both type and size. Standard Outputs (SOs) are calculated per hectare of crops and per head of livestock and used to calculate the standard output associated with each part of the Farm Business. They are expressed in terms of euros per ha or per head of livestock. The SOs now in use are based on a five-year average centred on 2007. This is done in order to lessen the impact of yearly fluctuations on calculated SOs. Holdings on which pigs account for more than two thirds of their total SO are classified as Specialist Pig holdings.

Farms are classified by size by utilising the Standard Labour Requirements (SLR). These are based on standard figures for different enterprises – they are not based on the actual labour utilised on a particular farm. In order to be included in the FBS they generally require at least 0.5 SLR.

Further details on the classification system can be accessed at:

http://webarchive.nationalarchives.gov.uk/20130123162956/http:/www.defra.gov.uk/statistics/ files/defra-stats-foodfarm-farmmanage-fbs-UK_Farm_Classification.pdf/

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 Accounting principles whereas Farm Business Income is derived from financial 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 <u>http://www.farmbusinesssurvey.co.uk</u>).

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 of size at least 0.5 SLR. 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.

Appendix B: Reports in Series

Reports in this series:

Crop Production in England 2012/13

Dairying Farming in England 2012/13

Hill Farming in England 2012/13

Horticulture Production in England 2012/13

Lowland Grazing Livestock Production 2012/13

Organic Farming in England 2012/13

Pig Production in England 2012/13

Poultry Production in England 2012/13

Details available at <u>www.ruralbusinessresearch.co.uk</u>

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