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Central Statistics Office

# **Agricultural Price Indices**

**Introduction of New Series  
to Base Year 2010=100**

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# Agricultural Price Indices

## Introduction of New Series to Base 2010 as 100

### Introduction

This publication introduces the new series of agricultural output and input price indices with the base year 2010 as 100. The rebasing of the two series is in line with EU recommendations to update the base reference periods at regular five-year intervals. This new series replaces the existing series to base year 2005 as 100.

Details of previous Agriculture Price Indices updatings are presented in Appendix 1.

Changing to base 2010 as 100 has meant that base year average prices, for each item refer to the year 2010. Monthly and annual output and input price indices have been calculated from January 2007 onwards using as weights the estimated value of sales off farms and the estimated expenditure on farm inputs respectively, averaged over the years 2009, 2010 and 2011. Monthly and annual indices for 2005 to 2006 have been rescaled to the new base year to provide a longer time perspective in the index series. Data from 2005 can be found on the CSO website [www.cso.ie](http://www.cso.ie).

### Definition

The Agricultural Price Indices comprise of:

- ◆ The index of producer prices of agricultural products – the Output Price Index.
- ◆ The index of purchase prices of the means of agricultural production – the Input Price Index.

The Output Price Index is based on the sales of agricultural products and the Input Price Index is based on the purchases of the means of agricultural production by agricultural producers. Both indices are compiled on the basis of the *average farm* concept. The *average farm* concept includes both sales to other economic sectors as well as sales/purchases of agricultural output between agricultural units for intermediate consumption purposes, excluding trade in animals between agricultural units.

### Legal Basis

The Agricultural Price Indices are compiled on the basis of a voluntary agreement between Eurostat<sup>1</sup> and Member States. The agricultural price indices are required for the compilation of the Economic Accounts for Agriculture which are compiled in compliance with Council Regulation (EC) No 138/2004.

### Price Coverage

#### **Output prices:**

For consistency with similar price indices at EU level, the prices used are based on the market price concept. The market price is defined as the price received by the producer without the deduction of bonuses, taxes or levies (except deductible VAT and third party levies) and without the inclusion of subsidies.

Monthly prices are used for most products. Annual prices are only available for some items e.g. cereals and for these products the annual price (or the price for the crop year) is used each month to calculate the monthly indices until the beginning of the next season or harvest.

Standardised prices are used for milk and cereals to ensure that products of identical quality are priced in successive periods. In the case of milk for manufacturing, this means pricing each month at a fixed butterfat (3.7%) and protein (3.3%) content. In the case of cereals, prices are standardised at 20% moisture content each year.

<sup>1</sup> Eurostat is the Statistical Office of the European Union.

**Input prices:**

The input prices used are those actually paid by farmers, excluding VAT. Monthly prices are used for most products. For seasonal products, such as seeds and plant protection products, for which prices are only available at certain times during the year, the monthly prices returned during the last selling period remain unchanged until the product can be priced again for the next season. Some items are only priced annually e.g. veterinary fees and veterinary products and for these products the annual price is used each month to calculate the monthly indices.

Appendices 2 and 3 detail the data sources used in compiling the output and input price indices

**Weights**

The agricultural output price indices are intended to measure trends in the price of agricultural produce sold by farmers. The monthly total output price indices are the weighted average of the individual output price indices using the average annual value of sales off farms from the Economic Accounts for Agriculture in the period 2009 to 2011 as weights. A spread of three years is used to counteract any abnormalities which might have occurred in agricultural production in a single year. The annual output indices are calculated as the weighted arithmetic mean of the monthly indices.

The agricultural input price indices are designed to measure trends in the price of farm inputs purchased for current consumption (i.e. non-capital materials and services). The monthly total input price indices are the weighted average of the individual input price indices using the expenditure on farm inputs from the Economic Accounts for Agriculture in the period 2009 to 2011 as weights. A spread of three years is also used to counteract any abnormalities which might have occurred in purchases of inputs in a single year. The annual input indices are calculated as the simple arithmetic mean of the monthly indices.

While Eurostat require quarterly and annual output and input indices, the indices published in this national publication are of a monthly and annual frequency to provide continuity with the previous monthly series. It is important to note that there are differences between the methodology used to calculate the quarterly output indices for Eurostat and the methodology used to calculate the monthly output indices for the Agriculture Price Indices release. The weighting scheme used in the calculation of the quarterly output indices for Eurostat is compiled using base year quarterly weights to reflect the seasonal character of output products. The weighting scheme used in the calculation of the monthly output indices is compiled using fixed annual weights.

The Output and Input base year value weights used are presented in Appendix 4.

**Index Calculation**

The Laspeyres index formula, involving the use of fixed base year weights, has been used in the compilation of the monthly index numbers for all commodity groupings except vegetables, potatoes and sheep. Since the weights used are based on average values of sales, not on quantities, the following adapted Laspeyres index formula is used:

$$I_t = \sum_j W_{jo} (P_{jt} / P_{jo}) \times 100$$

$$= \sum_j (\text{base period value weight} \times \text{price relative})_j \times 100$$

where

$I_t$  = the overall index in month  $t$

$$W_{jo} = \frac{P_{jo} Q_{jo}}{\sum_j P_{jo} Q_{jo}}$$

(i.e. the base year value weight of item  $j$ )

$P_{jo}$  = the price of item  $j$  in the base year (i.e. the average price in the year 2010)

$P_{jt}$  = the price of item  $j$  in month  $t$

$\frac{P_{jo} Q_{jo}}{\sum_j P_{jo} Q_{jo}}$  = the average annual sales/purchases of item  $j$  around the base year (i.e. the average value of sales/purchases in the years 2009 to 2011)

$P_{jt} / P_{jo}$  = the "price relative" of item  $j$  for month  $t$  compared with the base year

With the exception of vegetables, potatoes and sheep the price index of a given commodity  $j$  in month  $t$  is given by the expression:

$$P_{jt} / P_{jo} \times 100$$

i.e. the price relative multiplied by 100.

As vegetables, potatoes (i.e. early and main varieties) and sheep (i.e. lambs and hoggets) are highly seasonal commodities, it is not appropriate to use fixed annual weights when calculating these price indices. Accordingly, an approach using variable monthly baskets is used for these sub-indices. The composition of each monthly basket is based on the monthly pattern of sales of vegetables, potatoes and sheep respectively averaged over the three years 2009 to 2011 inclusive. The monthly index is then calculated using the following formula:

$$I_{mt} = \frac{\sum_i Q_{imo} P_{imt}}{\sum_i Q_{imo} P_{io}} \times 100$$

i.e. (value of monthly basket at reference month prices/value of basket at average base year prices) x 100

where

$I_{mt}$  = price index in month  $m$  in year  $t$

$Q_{imo}$  = quantity of vegetable  $i$  / potato  $i$  / sheep  $i$  in basket in month  $m$  in the base year 2010

$P_{imt}$  = price of vegetable  $i$  / potato  $i$  / sheep  $i$  in month  $m$  in year  $t$

$P_{io}$  = weighted annual average price of vegetable  $i$  / potato  $i$  / sheep  $i$  in the base year 2010

**Linking of the Former and New Series**

Monthly and annual indices from 2007 have been recalculated using base year 2010 weights. Monthly and annual indices for 2005 to 2006 have been rescaled to the new base year by dividing the former index number by the corresponding 2010 annual index number and multiplying by 100. Thus the series to the new base 2010 as 100 for the period 2005 to 2006 show the same trends as the former series to base 2005 as 100. However, as the sub-indices and aggregate indices have been separately rescaled, the aggregate indices for these years are not the systematically weighted averages of the relevant sub-indices. The recalculated and rescaled monthly and annual indices are available on the CSO website [www.cso.ie](http://www.cso.ie)

**Presentation of Results**

Table 1 shows the monthly and annual output price indices from January 2010 to December 2013, with base 2010 as 100.

Table 2 contains monthly and annual input price indices for the same period.

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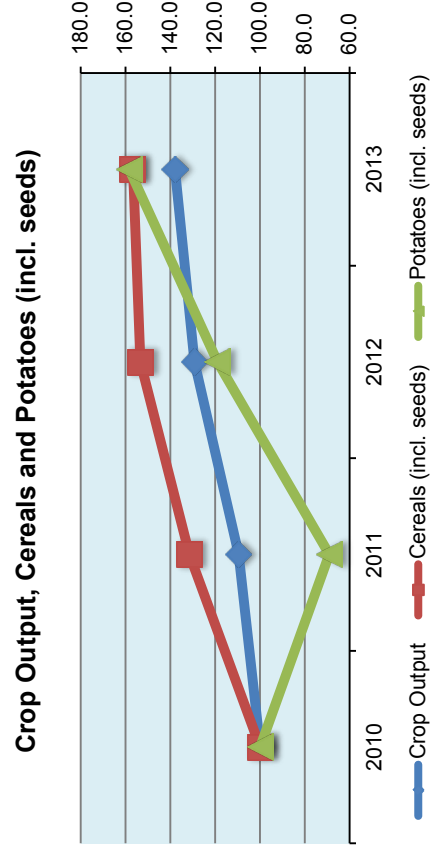
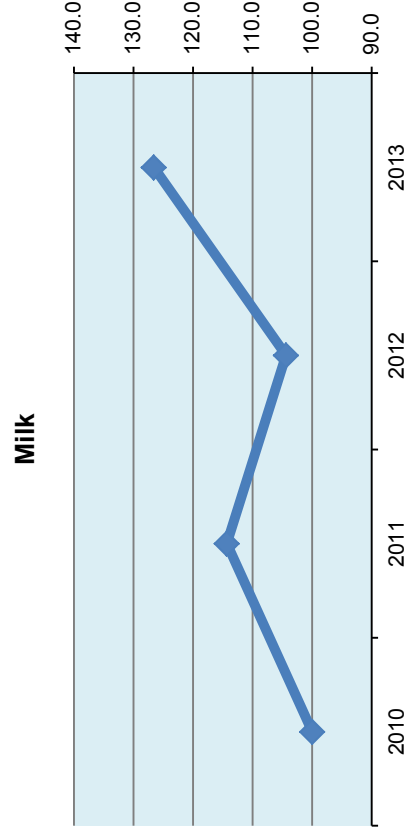
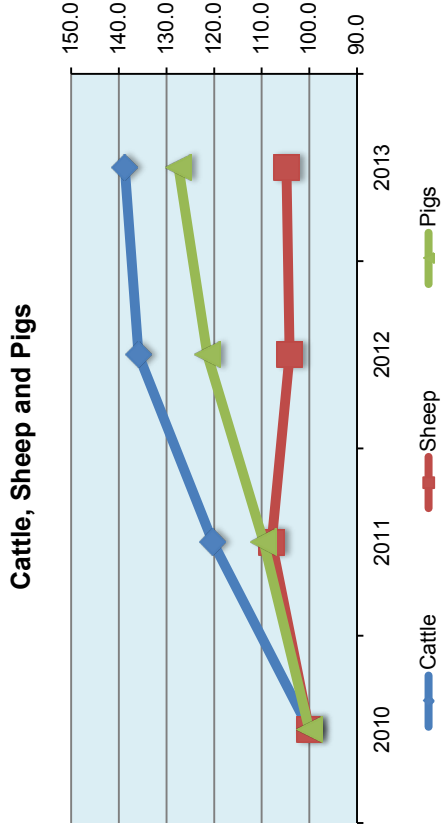
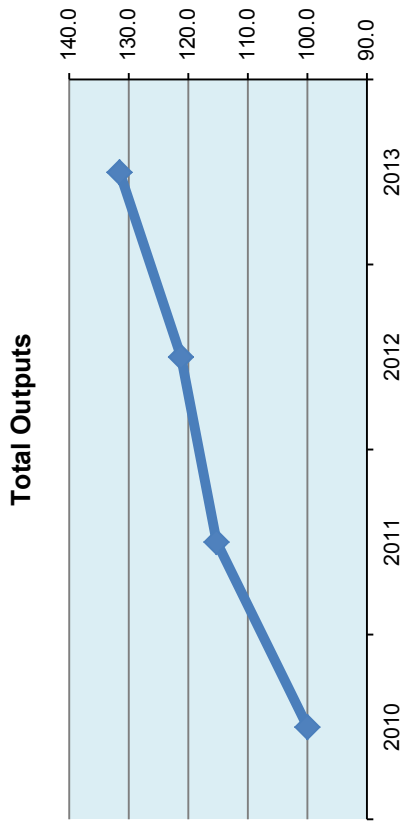
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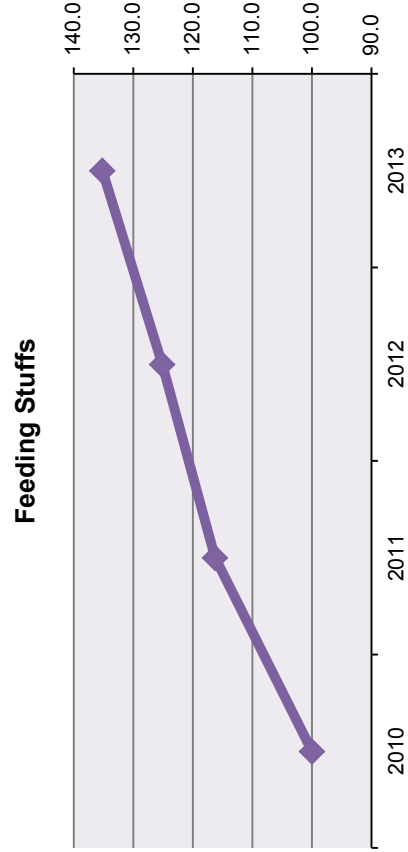
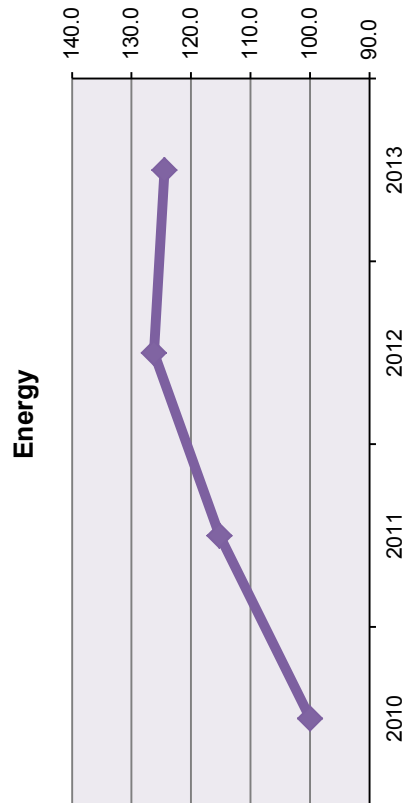
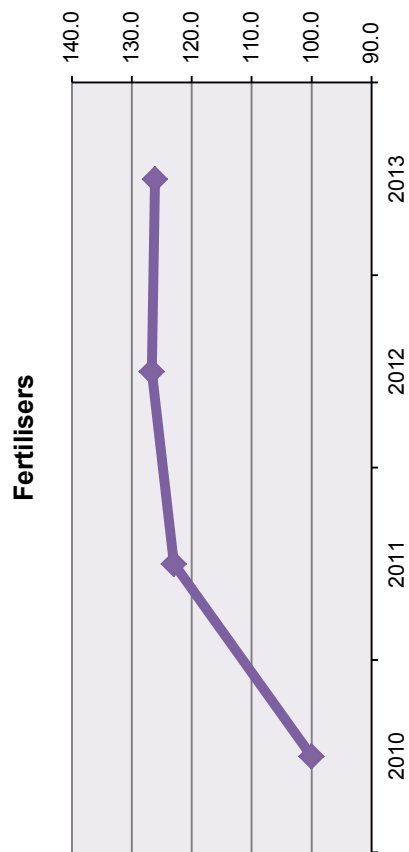
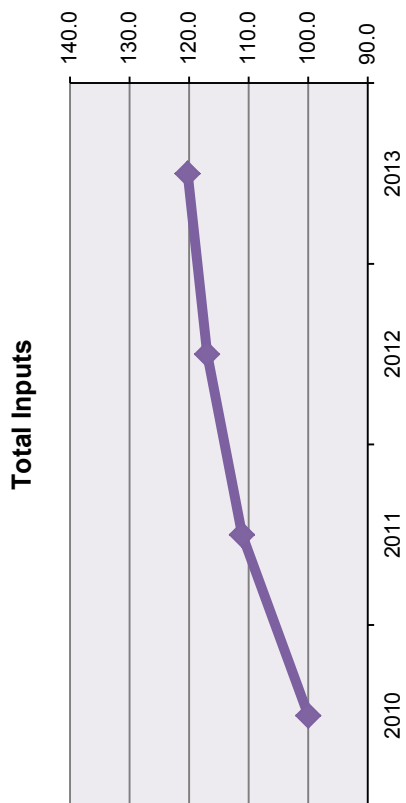


# Graphs

Selected Agricultural Output Price Index Series  
(Base Year 2010 = 100)



**Selected Agricultural Input Price Index Series  
(Base Year 2010 = 100)**





# Tables

Table 1 Agricultural Output Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Output Price Index	2010	95.1	94.3	94.9	96.5	100.6	101.5	100.3	102.6	102.3	101.9	102.8	106.0	100.0
	2011	110.4	111.1	110.5	112.7	116.0	115.6	115.2	115.6	116.4	117.1	122.5	123.4	115.2
	2012	126.0	124.0	123.4	120.9	118.9	120.1	120.0	119.9	122.5	123.2	125.9	127.3	121.2
	2013	130.7	130.5	132.0	133.6	136.6	137.4	132.6	128.8	129.5	129.7	129.1	129.8	131.5
Crop Output	2010	94.0	93.6	93.7	93.9	94.5	94.8	94.5	107.9	109.5	107.6	107.1	107.2	100.0
	2011	108.1	109.4	109.3	109.4	109.3	111.0	107.3	107.0	111.4	111.2	109.5	109.2	109.5
	2012	111.7	111.2	110.7	110.8	110.9	116.5	131.2	143.0	154.5	151.9	152.9	152.9	129.3
	2013	151.5	150.8	150.7	151.9	153.6	153.8	146.4	115.5	126.6	120.6	114.9	113.7	138.0
<i>of which:</i>														
Cereals (incl. seeds)	2010	79.8	79.8	79.8	79.8	79.8	79.8	79.8	128.2	128.2	128.2	128.2	128.2	100.0
	2011	128.2	128.2	128.2	128.2	128.2	128.2	128.2	136.0	136.0	136.0	136.0	136.0	131.5
	2012	136.0	136.0	136.0	136.0	136.0	136.0	136.0	177.6	177.6	177.6	177.6	177.6	153.4
	2013	177.6	177.6	177.6	177.6	177.6	177.6	177.6	127.3	127.3	127.3	127.3	127.3	156.6
Vegetables	2010	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2011	100.7	100.8	101.1	101.4	101.8	102.3	102.1	102.0	101.8	101.4	101.2	101.0	101.4
	2012	105.6	104.1	103.3	103.6	103.2	103.9	105.5	107.2	106.9	106.8	106.9	106.6	105.6
	2013	106.9	105.1	104.1	104.4	103.8	104.8	106.7	108.7	108.8	108.8	108.8	108.3	106.9
Potatoes (incl. seeds)	2010	118.2	115.6	116.1	117.4	120.8	122.7	121.1	72.0	81.2	69.6	67.2	67.8	100.0
	2011	71.5	78.6	77.7	77.5	76.1	84.8	63.4	41.2	67.6	67.0	57.5	56.5	69.0
	2012	60.8	60.8	59.9	59.8	61.0	93.1	176.6	132.0	200.9	185.8	191.1	192.0	119.0
	2013	182.9	182.9	184.5	190.9	202.6	201.6	153.1	99.2	164.9	129.6	95.6	89.6	158.4

Table 1 Agricultural Output Price Index (excluding VAT)

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
		Base Year 2010 = 100												
Animal Output	2010	95.3	94.4	95.0	96.8	101.4	102.4	101.1	101.9	101.4	101.2	102.2	105.8	100.0
	2011	110.8	111.4	110.7	113.1	116.8	116.2	116.2	116.7	117.0	117.9	124.1	125.2	116.0
	2012	127.8	125.6	125.0	122.2	119.9	120.6	118.6	116.9	118.4	119.5	122.4	123.9	120.1
	2013	128.0	127.9	129.6	131.2	134.3	135.3	130.8	130.5	129.9	130.8	131.0	131.9	130.7
<i>of which:</i>														
Animals	2010	95.9	96.4	97.6	99.4	102.1	103.7	101.7	102.8	100.3	98.8	98.8	105.2	100.0
	2011	109.4	108.9	110.8	115.1	121.0	117.3	117.6	118.5	117.8	118.0	124.7	127.4	117.0
	2012	131.4	129.2	131.6	133.5	134.2	135.5	132.2	128.2	127.0	125.4	126.8	129.4	130.2
	2013	132.3	133.0	137.1	138.8	140.8	141.5	134.1	131.1	129.3	129.7	128.6	127.9	133.3
<i>of which:</i>														
Cattle	2010	97.0	97.0	97.8	99.2	101.7	103.6	101.0	102.5	99.9	98.8	98.6	106.2	100.0
	2011	112.7	111.4	112.2	116.3	123.4	119.8	121.1	122.2	121.6	122.0	130.3	133.6	120.2
	2012	139.3	135.9	138.7	140.4	141.7	143.3	139.0	132.6	130.3	127.9	130.3	134.0	135.9
	2013	138.8	139.2	143.1	145.2	148.1	149.8	140.0	136.4	133.8	133.3	132.0	131.4	138.8
<i>of which:</i>														
Cattle excluding calves	2010	96.8	97.1	97.9	99.2	101.8	103.6	100.8	102.2	99.4	98.2	98.1	105.7	100.0
	2011	112.2	111.4	112.2	115.9	122.9	119.3	120.3	120.8	119.9	120.7	129.0	132.5	119.9
	2012	138.4	135.6	138.2	139.6	141.1	142.5	138.2	131.8	129.3	127.3	129.8	133.4	135.2
	2013	138.7	139.6	143.5	145.5	148.5	150.2	140.1	135.9	132.9	132.3	131.2	130.6	139.0
<i>of which:</i>														
Calves	2010	111.9	90.3	86.8	99.2	99.4	107.8	114.6	131.4	141.7	145.6	141.3	145.3	100.0
	2011	146.6	111.7	118.7	148.9	161.8	158.0	185.5	221.4	254.5	221.5	227.8	215.5	148.2
	2012	210.7	159.9	174.2	205.4	191.4	207.8	204.4	194.1	204.4	172.1	167.2	174.3	188.1
	2013	152.8	111.0	112.0	121.2	114.3	119.1	135.7	173.8	198.6	212.0	188.2	185.8	123.1

Table 1 Agricultural Output Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Pigs	2010	88.5	92.0	93.2	95.3	99.9	105.6	108.7	107.9	106.0	101.2	99.7	99.8	100.0
	2011	99.8	102.4	105.2	107.8	111.1	112.8	113.1	113.3	113.4	111.1	111.3	111.4	109.6
	2012	111.3	111.4	113.0	115.9	118.1	119.3	119.6	123.6	128.5	130.8	131.0	131.6	121.4
	2013	129.9	128.9	129.0	127.5	123.6	123.1	123.5	123.8	128.0	133.0	131.6	127.4	127.5
Sheep	2010	97.3	97.7	103.2	109.2	112.1	104.2	96.0	97.7	93.4	92.8	97.9	108.4	100.0
	2011	102.0	102.4	114.3	127.0	131.5	113.5	104.2	102.1	97.9	100.1	105.0	108.6	107.9
	2012	107.0	109.2	112.0	115.2	106.8	106.4	104.9	106.0	101.0	97.6	95.6	94.8	104.1
	2013	89.7	93.0	110.4	115.7	122.5	116.0	111.6	104.8	98.2	97.4	98.8	103.3	104.8
Poultry	2010	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	100.5	100.0	102.3	100.0
	2011	102.9	101.7	101.7	101.7	101.7	101.7	101.7	106.2	106.2	108.2	114.4	115.4	106.1
	2012	115.4	115.6	115.6	115.6	115.9	115.6	113.6	113.6	115.7	115.7	111.2	111.2	114.2
	2013	111.2	116.8	116.8	116.9	117.0	116.8	116.8	116.8	116.8	116.8	117.0	117.0	116.4



Table 1 Agricultural Output Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Animal Products	2010	94.4	91.3	91.2	92.9	100.3	100.4	100.2	100.6	102.9	104.7	107.3	106.8	100.0
	2011	112.8	115.1	110.5	110.1	110.6	114.4	114.0	114.0	115.9	117.7	123.3	121.9	114.4
	2012	122.4	120.3	114.9	104.9	98.2	98.1	97.9	99.6	105.2	110.4	115.7	115.6	104.9
	2013	121.3	120.1	118.2	119.6	124.5	125.9	125.8	129.6	130.9	132.6	134.6	138.1	126.6
<i>of which:</i>														
Milk	2010	94.4	91.2	91.1	92.9	100.4	100.4	100.2	100.6	103.0	104.9	107.5	106.9	100.0
	2011	112.9	115.4	110.6	110.1	110.3	114.3	113.8	113.8	115.8	117.7	123.5	122.0	114.3
	2012	122.5	120.3	114.7	104.3	97.5	97.3	97.1	98.8	104.5	109.9	115.3	115.2	104.4
	2013	121.1	119.9	117.9	119.4	124.3	125.8	125.8	129.8	131.1	132.8	134.9	138.5	126.6
Eggs	2010	100.7	99.6	99.6	99.6	99.6	98.8	98.8	98.8	98.8	98.8	101.5	105.3	100.0
	2011	107.9	108.6	109.2	109.2	109.2	109.2	109.2	108.0	107.6	107.2	107.0	107.2	108.3
	2012	107.5	108.8	111.3	115.5	118.7	118.9	120.0	122.1	124.3	124.3	124.3	124.8	118.4
	2013	124.8	124.8	124.8	124.8	124.4	124.4	121.3	119.5	118.6	117.9	117.9	117.9	121.7
Wool	2010	58.6	58.6	58.6	58.6	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	100.0
	2011	101.7	101.7	101.7	101.7	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	180.2
	2012	183.5	183.5	183.5	183.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	146.0
	2013	144.5	144.5	144.5	144.5	160.8	160.8	160.8	160.8	160.8	160.8	160.8	160.8	160.2

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Input Price Index	2010	97.1	97.3	97.6	98.3	98.4	98.3	98.8	100.0	102.3	103.3	103.7	104.9	100.0
	2011	108.7	110.0	111.2	111.5	111.6	111.6	111.7	111.7	111.4	111.2	111.2	111.5	111.1
	2012	112.8	113.2	113.9	114.7	115.5	115.6	116.3	118.3	119.9	121.0	121.1	121.3	117.0
	2013	122.1	122.6	122.6	122.6	121.8	121.6	121.3	120.1	118.6	117.0	116.2	116.1	120.2
Seeds	2010	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.5	100.5	100.5	100.0
	2011	100.5	100.5	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.4	107.4	107.4	106.0
	2012	122.2	122.2	120.5	120.5	120.5	120.5	120.5	120.5	120.5	122.2	122.2	122.2	121.2
	2013	122.2	122.2	129.6	129.6	129.6	129.6	129.6	129.6	129.6	128.4	128.4	128.4	128.1
Energy	2010	94.5	93.6	95.9	99.8	102.4	101.1	100.9	100.9	100.8	101.3	101.3	107.5	100.0
	2011	109.6	111.2	115.6	116.9	116.0	114.6	113.9	115.2	116.1	116.5	117.6	119.0	115.2
	2012	122.1	123.6	126.1	127.9	127.4	123.9	123.0	127.7	130.2	129.6	127.3	126.1	126.2
	2013	125.3	127.3	126.7	126.0	122.6	122.4	123.7	124.0	126.1	123.5	122.3	123.4	124.4
<i>of which:</i>														
Electricity	2010	99.7	99.7	99.7	99.7	98.4	98.4	98.4	98.4	98.4	103.0	103.0	103.0	100.0
	2011	103.0	103.0	103.0	103.0	103.0	103.0	103.0	106.2	107.9	114.8	114.8	114.8	106.6
	2012	114.8	114.8	114.8	115.8	117.9	117.9	117.9	117.9	117.9	124.8	124.8	124.8	118.7
	2013	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	125.6	127.7	127.7	125.3

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Motor Fuel	2010	92.9	91.7	94.7	99.8	103.6	101.9	101.6	101.5	101.4	100.9	100.9	100.9	109.0	100.0
	2011	111.8	113.8	119.6	121.3	120.1	118.2	117.3	118.2	118.9	117.5	119.0	119.0	120.8	118.0
	2012	124.9	126.8	130.1	132.2	131.0	126.4	125.2	131.4	134.6	132.0	129.0	129.0	127.5	129.3
	2013	126.4	129.1	128.3	127.3	122.9	122.5	124.3	124.6	127.4	123.8	121.5	121.5	123.0	125.1
Lubricants	2010	99.2	99.2	99.3	99.4	99.6	99.7	99.9	100.3	100.4	100.7	101.0	101.0	101.3	100.0
	2011	101.9	102.1	103.0	103.4	103.3	103.4	103.0	103.0	103.0	102.9	103.5	103.5	103.3	103.0
	2012	104.2	103.9	104.0	104.5	104.6	104.8	105.2	105.3	105.1	105.3	104.8	104.8	104.8	104.7
	2013	105.0	105.0	105.0	105.4	105.2	105.6	105.6	105.6	106.0	106.1	106.8	106.8	106.6	105.6
Fertilisers	2010	96.5	97.4	99.0	99.5	99.2	97.7	97.2	98.8	102.2	103.0	103.2	103.2	106.4	100.0
	2011	118.0	122.7	123.3	122.6	123.0	123.0	123.0	123.0	123.0	124.2	124.4	124.4	125.5	123.0
	2012	126.7	127.3	127.6	127.7	127.4	126.9	126.3	126.0	125.7	126.2	126.2	126.2	126.2	126.7
	2013	126.5	127.4	127.9	128.3	127.7	127.0	126.5	125.4	124.7	124.3	124.1	124.1	124.0	126.1
<i>of which:</i>															
Straight Fertilisers	2010	92.6	95.4	99.2	100.3	99.6	97.4	97.1	98.9	102.3	104.0	104.3	104.3	108.8	100.0
	2011	122.9	128.1	128.3	127.5	127.2	127.3	127.1	126.9	126.8	128.5	128.7	128.7	130.1	127.4
	2012	131.3	131.9	132.5	132.7	132.4	131.7	130.4	129.9	129.3	130.2	130.2	130.2	130.4	131.1
	2013	130.9	132.0	132.5	133.0	132.3	131.5	130.6	129.7	128.9	128.5	128.1	128.1	127.9	130.5

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Compound Fertilisers	2010	99.3	98.7	98.6	98.6	98.7	97.6	97.3	98.8	102.5	102.5	102.6	104.9	100.0
	2011	115.3	120.0	121.0	120.4	121.4	121.3	121.5	121.7	122.6	122.6	122.8	123.8	121.1
	2012	125.0	125.8	125.7	125.7	125.4	125.1	124.9	124.8	124.7	125.0	125.0	124.8	125.1
	2013	124.9	125.7	126.2	126.5	125.9	125.4	125.1	123.9	123.9	122.8	122.8	122.6	124.6
<i>of which:</i>														
PK Fertilisers	2010	110.9	103.7	99.9	96.1	96.1	96.1	96.1	96.3	101.0	101.2	101.2	101.6	100.0
	2011	105.6	109.5	110.1	109.4	109.7	109.7	109.8	110.5	110.5	111.4	111.4	112.9	110.0
	2012	114.7	114.5	115.7	115.8	115.8	115.8	115.8	116.1	116.2	116.5	116.5	116.5	115.8
	2013	116.4	116.1	115.9	116.0	116.2	116.1	116.0	114.2	113.6	113.1	112.7	112.5	114.9
NPK Fertilisers	2010	99.0	98.6	98.5	98.7	98.8	97.6	97.3	98.8	102.5	102.5	102.7	105.0	100.0
	2011	115.5	120.3	121.2	120.7	121.6	121.6	121.8	121.9	122.0	122.9	123.0	124.1	121.4
	2012	125.3	126.0	125.9	126.0	125.6	125.3	125.1	125.0	124.9	125.1	125.1	125.0	125.4
	2013	125.1	125.9	126.4	126.8	126.2	125.6	125.3	124.1	123.3	123.0	123.0	122.8	124.8
Other Fertilisers	2010	102.2	101.0	101.0	101.0	101.0	101.0	98.8	98.8	98.8	98.8	98.8	98.8	100.0
	2011	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
	2012	98.8	98.8	98.8	98.8	99.3	99.3	99.3	99.3	99.9	99.9	99.9	99.9	99.3
	2013	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Plant Protection Products	2010	100.3	100.3	100.3	100.0	100.0	100.0	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	100.0
	2011	99.9	99.9	97.4	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.7
	2012	97.3	97.3	98.2	98.1	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
	2013	97.9	97.9	99.2	99.1	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	98.9
Veterinary Expenses	2010	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	2011	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
	2012	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
	2013	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
Feeding Stuff	2010	94.9	95.4	95.3	95.6	95.2	95.9	97.4	100.1	105.4	107.6	108.7	108.5	108.5	108.5	100.0
	2011	113.2	114.7	116.0	116.7	117.5	118.0	118.3	118.1	116.7	115.8	115.2	115.1	115.1	115.1	116.3
	2012	115.1	115.4	116.4	117.8	120.4	122.2	124.3	128.5	132.3	135.3	136.4	137.2	137.2	137.2	125.1
	2013	140.3	140.8	140.2	140.1	139.8	139.5	138.5	135.4	130.5	127.3	125.2	124.6	124.6	124.6	135.2
<i>of which:</i>																
Straight Feeding Stuffs	2010	91.4	91.6	91.0	92.0	92.7	92.6	95.5	104.1	110.7	111.5	112.3	114.6	114.6	114.6	100.0
	2011	121.9	124.3	127.8	128.4	128.7	127.9	128.1	127.8	121.9	121.7	120.0	119.9	119.9	119.9	124.9
	2012	120.5	121.8	122.3	125.7	129.3	131.8	134.2	140.0	143.6	146.1	147.4	149.1	149.1	149.1	134.3
	2013	150.6	150.8	146.9	146.5	146.9	146.0	144.6	141.7	129.5	126.9	122.3	122.5	122.5	122.5	139.6

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Compound Feeding Stuffs	2010	95.3	95.8	95.7	96.0	95.4	96.3	97.6	99.6	104.8	107.2	108.3	107.8	100.0
	2011	112.2	113.6	114.7	115.4	116.3	117.0	117.2	117.1	116.2	115.1	114.6	114.6	115.3
	2012	114.5	114.7	115.7	117.0	119.5	121.1	123.2	127.3	131.1	134.2	135.2	135.9	124.1
	2013	139.2	139.7	139.5	139.4	139.1	138.8	137.9	134.7	130.7	127.4	125.5	124.8	134.7
<i>of which:</i>														
Compound Feeding Stuffs for Calves	2010	95.6	95.7	95.7	96.4	95.8	97.3	97.8	100.6	104.9	107.3	106.4	106.4	100.0
	2011	110.9	111.6	112.7	113.2	114.6	115.7	116.3	116.3	115.9	115.3	115.0	114.8	114.4
	2012	114.8	115.3	116.0	117.2	120.4	121.6	123.1	126.5	130.8	133.5	134.4	135.1	124.1
	2013	137.9	138.2	136.6	136.7	137.2	136.9	135.3	132.1	128.2	125.1	123.6	122.8	132.6
Compound Feeding Stuffs for Cattle excluding Calves	2010	94.3	95.3	95.1	95.3	95.1	96.0	97.7	100.0	105.8	108.1	109.2	108.1	100.0
	2011	113.1	114.6	115.7	115.9	116.5	117.1	117.5	117.6	117.1	115.9	115.4	114.7	115.9
	2012	114.8	115.1	116.1	117.0	120.1	122.0	124.1	128.7	132.3	135.1	135.8	136.6	124.8
	2013	140.3	141.0	139.5	139.5	139.2	138.8	137.3	134.2	130.2	126.8	124.6	124.0	134.6
Compound Feeding Stuffs for Pigs	2010	95.2	95.2	96.3	95.4	95.6	95.2	97.2	99.0	103.2	107.8	109.7	110.1	100.0
	2011	114.3	115.2	116.1	117.3	118.1	120.1	120.1	119.2	116.5	115.3	115.3	117.6	117.1
	2012	117.4	117.4	118.9	121.8	123.8	124.8	128.9	133.0	136.6	140.7	141.5	141.9	128.9
	2013	146.4	146.4	149.0	148.6	147.9	147.5	146.6	142.6	137.8	132.8	130.8	130.6	142.2

Table 2 Agricultural Input Price Index (excluding VAT)

Base Year 2010 = 100

Category	Year	Months												Annual
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Compound Feeding Stuffs for Poultry	2010	97.6	97.6	97.1	98.6	96.3	97.7	97.8	99.0	103.8	104.3	104.9	105.2	100.0
	2011	108.7	110.0	111.2	112.6	114.0	114.1	114.0	113.8	113.3	112.3	111.3	111.2	112.2
	2012	110.7	110.9	111.8	112.3	113.2	115.0	115.7	118.5	123.1	126.4	128.7	129.2	118.0
	2013	130.4	131.1	132.4	132.3	132.1	132.1	133.2	130.5	127.5	126.4	125.2	123.6	129.7
Other Compound Feeding Stuffs	2010	96.1	96.0	95.1	95.2	94.3	96.5	97.4	100.1	104.5	108.1	108.5	108.3	100.0
	2011	111.3	114.1	115.4	116.0	116.8	117.1	117.1	117.1	117.6	117.9	117.2	116.2	116.2
	2012	115.9	116.0	116.6	118.3	121.9	122.7	124.1	127.7	131.8	133.0	133.4	135.2	124.7
	2013	138.2	138.7	136.3	136.3	135.8	135.6	133.6	131.1	125.3	120.6	118.6	119.7	130.8
Maintenance of Materials and Buildings	2010	100.9	100.5	100.4	100.4	99.8	99.9	99.9	99.9	99.8	99.8	99.4	99.3	100.0
	2011	99.2	98.2	98.1	98.1	98.3	98.2	98.6	98.2	98.3	98.3	98.5	98.5	98.4
	2012	98.4	98.8	98.7	98.7	99.1	99.0	99.0	98.9	98.9	98.9	99.0	98.9	98.9
	2013	98.7	98.7	98.5	98.5	97.8	97.8	97.8	97.3	97.3	97.2	98.2	98.6	98.0
Other Goods and Services	2010	99.5	100.1	99.3	99.6	99.7	99.9	100.0	100.0	99.9	100.4	100.8	100.9	100.0
	2011	103.0	103.4	103.5	103.4	101.9	101.9	102.3	102.1	102.1	102.1	102.1	102.2	102.5
	2012	104.5	104.9	104.8	104.9	104.9	104.8	105.6	105.6	105.3	105.6	105.6	105.6	105.2
	2013	104.0	104.1	104.0	104.5	104.4	104.3	104.4	104.4	105.0	104.8	104.9	104.8	104.5





# Appendices

## Appendix 1 - Previous API Updatings

### Output Price Index

**(i) Index with base 1911-1913 as 100**

The first regular series of annual agricultural output price indices was published in 1929 with base 1911-1913 as 100. There were two series, one for Ireland (Republic) for the period 1911-1928 inclusive and one for All Ireland for the period 1840-1928 inclusive. These were base weighted Laspeyres type index numbers. In 1930 the All Ireland series was discontinued and the Ireland (Republic) series was reweighted using the then newly available 1926/1927 output quantities. The base reference period of 1911-1913 was retained.

Monthly agricultural output price indices to base 1911-1913 as 100 were introduced in 1931 with indices from January 1922 onward being prepared. Shortly after this, annual sub-indices from 1922 onward for livestock, livestock products and crops were also published.

**(ii) Index with base 1938/1939 as 100**

In 1943 a new series of monthly and annual indices to base 1938/1939 as 100 was introduced. The indices were calculated using the Fisher "Ideal" formula.

**(iii) Index with base 1953 as 100**

In 1956 this index was rebased to 1953 as 100.

**(iv) Index with base 1975 as 100**

The Laspeyres index formula was adopted again on the introduction in 1978 of the 1975 based index numbers. This change was made in order to align the Irish series with those in use in other EU member states. This index series saw the introduction of further sub-indices (cattle, sheep, pigs, milk, etc.).

**(v) Index with base 1980 as 100**

In 1985 this series was updated to base 1980 as 100, when vegetables were incorporated in the total outputs index for the first time. For consistency with the practice in other EU member states, the series to base 1980 and subsequent rebasings were compiled exclusive of Value Added Tax (VAT).

**(vi) Index with base 1985 as 100**

In 1988 this series was updated to base 1985 as 100.

**(vii) Index with base 1990 as 100**

In 1995 the series was updated to base 1990 as 100. This was the last series published using the national farm concept. When an agricultural price index covers only transactions between the agricultural and other economic sectors, treating the whole agricultural sector as a single holding, the coverage is that of the national farm.

**(viii) Index with base 1995 as 100**

In 2002 the series was updated to base 1995 as 100. For consistency with similar price indices at EU level, the prices used from 1995 onwards were based on the market price concept. The market price is defined as the price received by the producer without the deduction of taxes or levies (except deductible VAT) and without the inclusion of subsidies. In the case of sugar beet, however, the A and B levies were deducted. This series uses the average farm concept which includes both sales to other economic sectors as well as sales/purchases of agricultural output between agricultural units for intermediate consumption purposes, excluding trade in animals between agricultural units.

**(ix) Index with base 2000 as 100**

In 2004 the series was updated to base 2000 as 100.

**(x) Index with base 2005 as 100**

In 2011 the series was updated to base 2005 as 100.

## Input Price Index

- (i) **Index with base 1930 as 100**  
The first annual series of agricultural input price index numbers was published in 1931. The series was restricted to feeding stuffs, fertilisers and seeds (the so-called Farm Materials Index) and was compiled to base 1930 as 100 using the Laspeyres formula. The weights used were the quantities of feeding stuffs, fertilisers and seeds purchased in 1926/1927.
- (ii) **Index with base 1938 as 100**  
In 1943 the Farm Materials Index was discontinued due to insufficient price quotations arising from the very small supplies of feeding stuffs and fertilisers available during World War II. In 1951 a new series to base 1938 as 100, using the Fisher "Ideal" formula was introduced, with annual indices available from 1948.
- (iii) **Index with base 1953 as 100**  
In 1956 this index was rebased to 1953 as 100 and a monthly series was introduced.
- (iv) **Index with base 1975 as 100**  
The Farm Materials Index was replaced in 1979 by a new series to base 1975 as 100, which covered all non-capital farm materials and services thus introducing many new sub-indices. This series used a Laspeyres index formula with the value of purchases averaged over the years 1974, 1975 and 1976 as weights.
- (v) **Index with base 1980 as 100**  
In 1985 indices to base 1980 as 100 was introduced. For consistency with the practice in other EU member states, the series to base 1980 and subsequent rebasings were compiled exclusive of Value Added Tax (VAT).
- (vi) **Index with base 1985 as 100**  
In 1988 indices to base 1985 as 100 was introduced.
- (vii) **Index with base 1990 as 100**  
In 1995 the series was updated to base 1990 as 100. This was the last series where the annual feeding stuffs and fertiliser indices were calculated as the weighted averages of the monthly indices.
- (viii) **Index with base 1995 as 100**  
In 2002 the series was updated to base 1995 as 100. In line with EU recommendations, from 1995 onwards, the annual input indices were calculated as simple arithmetic averages of the monthly indices.
- (ix) **Index with base 2000 as 100**  
In 2004 the series was updated to base 2000 as 100.
- (x) **Index with base 2005 as 100**  
In 2011 the series was updated to base 2005 as 100.

Appendix 2

Description of price series categories and sources used in compiling the Agricultural Output Price Indices to Base Year 2010=100 and Base Year 2005=100

<p><b>BASE YEAR 2010=100</b></p>	<p><b>BASE YEAR 2005=100</b></p>
<p>Total Output Price Index</p>	<p>Total Output Price Index</p>
<p>Crop Output</p>	<p>Crop Output</p>
<p><b>Cereals (including seeds)</b></p> <p><i>Categories:</i></p> <p>i) Cereals</p> <p>Price per tonne standardised at 20% moisture content of:</p> <p>Barley for Feeding</p> <p>Barley for Malting</p> <p>Wheat for Feeding</p> <p>Oats</p> <p>ii) Cereal Seed</p> <p>Price per tonne of certified seed of:</p> <p>Barley</p> <p>Wheat</p> <p>Oats</p> <p><i>Source: Cereal Merchants and Teagasc</i></p>	<p><b>Cereals (including seeds)</b></p> <p><i>Categories:</i></p> <p>i) Cereals</p> <p>Price per tonne standardised at 20% moisture content of:</p> <p>Barley for Feeding</p> <p>Barley for Malting</p> <p>Wheat for Feeding</p> <p>Oats</p> <p>ii) Cereal Seed</p> <p>Price per tonne of certified seed of:</p> <p>Barley</p> <p>Wheat</p> <p>Oats</p> <p><i>Source: Cereal Merchants and Teagasc</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Vegetables</b></p> <p><i>Categories:</i> Weighted average price per kg of in-season vegetables for:</p> <ul style="list-style-type: none"> <li>Brussels Sprouts</li> <li>Cabbage</li> <li>Broccoli</li> <li>Carrots</li> <li>Cauliflower</li> <li>Celery</li> <li>Lettuce</li> <li>Mushroom</li> <li>Parsnips</li> <li>Swedes</li> <li>Tomatoes</li> <li>Onions</li> <li>Leeks</li> <li>Rhubarb</li> <li>Cucumber</li> <li>Peppers</li> </ul> <p><i>Source: Teagasc and DAFM</i></p>	<p><b>Vegetables</b></p> <p><i>Categories:</i> Weighted average price per kg of in-season vegetables for:</p> <ul style="list-style-type: none"> <li>Brussels Sprouts</li> <li>Cabbage</li> <li>Broccoli</li> <li>Carrots</li> <li>Cauliflower</li> <li>Celery</li> <li>Lettuce</li> <li>Mushroom</li> <li>Parsnips</li> <li>Swedes</li> <li>Tomatoes</li> </ul> <p><i>Source: Teagasc and DAFF</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Potatoes (including seeds)</b></p> <p><i>Categories:</i></p> <p>i) Main Crop Potato Varieties:                      Weighted average price per tonne of:                      Kerr's Pink                      Roosters</p> <p>ii) Early Potato Varieties:                      Weighted average price per tonne of:                      Home Guards                      British Queens</p> <p>iii) Seed Potato Varieties:                      Weighted average price per tonne of certified seed of:                      Kerr's Pink                      Roosters</p> <p><i>Source: Dublin Wholesale Market, Teagasc and DAFM</i></p>	<p><b>Potatoes (including seeds)</b></p> <p><i>Categories:</i></p> <p>i) Main Crop Potato Varieties:                      Weighted average price per tonne of:                      Kerr's Pink                      Records                      Roosters</p> <p>ii) Early Potato Varieties:                      Weighted average price per tonne of:                      Home Guards                      British Queens</p> <p>iii) Seed Potato Varieties:                      Weighted average price per tonne of certified seed of:                      Kerr's Pink                      Records                      Roosters</p> <p><i>Source: Bord Bia, Teagasc and DAFF</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
Animal Output	Animal Output
Animals	Animals
Cattle	Cattle
Cattle excluding calves	Cattle excluding calves
<p>i) Finished Cattle:</p> <p><i>Categories</i></p> <p>Weighted average price per 100 kg carcase weight of:</p> <p>Steers Heifers Young Bulls Mature Bulls Cows</p> <p>Weighted average price per 100 kg liveweight of: Heifers (&gt; 500 kg)</p> <p><i>Source: DAFM and Livestock Marts</i></p>	<p>i) Finished Cattle:</p> <p><i>Categories</i></p> <p>Weighted average price per 100 kg carcase weight of:</p> <p>Steers Heifers Young Bulls Mature Bulls Cows</p> <p>Weighted average price per 100 kg liveweight of: Heifers (&gt; 500 kg)</p> <p><i>Source: DAFF and Livestock Marts</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p>ii) Store Cattle:</p> <p><i>Categories</i> Weighted average price per 100 kg liveweight of: Bullocks (200 - 550 kg) Heifers (200 - 500 kg)</p> <p><i>Source: Livestock Marts</i></p>	<p>ii) Store Cattle:</p> <p><i>Categories</i> Weighted average price per 100 kg liveweight of: Bullocks (200 - 550 kg) Heifers (200 - 500 kg)</p> <p><i>Source: Livestock Marts</i></p>
<p>iii) Weanlings:</p> <p><i>Categories</i> Weighted average price per 100 kg liveweight of: Weanlings (200 - 450 kg)</p> <p><i>Source: Livestock Marts</i></p>	<p>iii) Weanlings :</p> <p><i>Categories</i> Weighted average price per 100 kg liveweight of: Weanlings (200 - 400 kg)</p> <p><i>Source: Livestock Marts</i></p>
<p><b>Calves:</b></p> <p><i>Categories</i> Price per animal</p> <p><i>Source: Livestock Marts</i></p>	<p><b>Calves:</b></p> <p><i>Categories</i> Price per animal</p> <p><i>Source: Livestock Marts</i></p>



BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Sheep</b></p> <p><i>Categories</i> Weighted average price per kg carcase weight of: Lambs and Hoggets (13 - 21.5 kg)</p> <p><i>Source: DAFM</i></p>	<p><b>Sheep</b></p> <p><i>Categories</i> Weighted average price per kg carcase weight of: Lambs and Hoggets (13 - 21.5 kg)</p> <p><i>Source: DAFF</i></p>
<p><b>Pigs</b></p> <p><i>Categories</i> Weighted average price per 100 kg carcase weight of: Grade E and Grade U prime pigs</p> <p><i>Source: Export Factories and DAFM</i></p>	<p><b>Pigs</b></p> <p><i>Categories</i> Weighted average price per 100 kg carcase weight of: Grade E and Grade U prime pigs</p> <p><i>Source: Export Factories and DAFF</i></p>
<p><b>Poultry</b></p> <p><i>Categories</i> Price per kg deadweight of: Broiler chickens Turkeys</p> <p><i>Source: DAFM</i></p>	<p><b>Poultry</b></p> <p><i>Categories</i> Price per kg deadweight of: Broiler chickens Turkeys</p> <p><i>Source: DAFF</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Animal Products</b></p> <p><b>Milk</b></p> <p><i>Categories</i></p> <p>i) Manufacturing Milk Price per gallon standardised at: 3.7% butterfat content 3.3% protein content</p> <p>ii) Milk for human consumption National average price per gallon</p> <p><i>Source: Co-operatives and Irish Co-operative Organisation Society (ICOS)</i></p>	<p><b>Animal Products</b></p> <p><b>Milk</b></p> <p><i>Categories</i></p> <p>i) Manufacturing Milk Price per gallon standardised at: 3.7% butterfat content 3.3% protein content</p> <p>ii) Milk for human consumption National average price per gallon</p> <p><i>Source: Co-operatives and Irish Co-operative Organisation Society (ICOS)</i></p>
<p><b>Eggs</b></p> <p><i>Categories</i></p> <p>Weighted average price per dozen of: Caged Hen Eggs (size S, M, L and XL) Free Range Eggs (size S, M, L and XL)</p> <p><i>Source: DAFM</i></p> <p><b>Wool</b></p> <p><i>Categories</i></p> <p>Price per kg of: Lowland Sheep Wool Mountain Sheep Wool</p> <p><i>Source: Wool Merchants</i></p>	<p><b>Eggs</b></p> <p><i>Categories</i></p> <p>Weighted average price per dozen of: Caged Hen Eggs (size S, M, L and XL) Free Range Eggs (size S, M, L and XL)</p> <p><i>Source: DAFF</i></p> <p><b>Wool</b></p> <p><i>Categories</i></p> <p>Price per kg of: Lowland Sheep Wool Mountain Sheep Wool</p> <p><i>Source: Wool Merchants</i></p>

**Appendix 3**

**Description of price series categories and sources used in compiling the Agricultural Input Price Indices to Base Year 2010=100 and Base Year 2005=100**

<b>BASE YEAR 2010=100</b>	<b>BASE YEAR 2005=100</b>
<b>Total Input Price Index</b>	<b>Total Inputs Index</b>
<p><b>Seeds</b></p> <p><i>Categories</i></p> <p>Average price of certified seed of:</p> <p>Spring Barley seed</p> <p>Spring Wheat seed</p> <p>Spring Oats seed</p> <p>Potato seed</p> <p>Vegetable seed</p> <p>Grass seed</p> <p>Mushroom spawn</p> <p>Winter Barley seed</p> <p>Winter Wheat seed</p> <p>Winter Oats seed</p> <p><i>Source: Merchants, Co-operatives, Teagasc and DAFM</i></p>	<p><b>Seeds</b></p> <p><i>Categories</i></p> <p>Average price of certified seed of:</p> <p>Spring Barley seed</p> <p>Spring Wheat seed</p> <p>Spring Oats seed</p> <p>Potato seed</p> <p>Vegetable seed</p> <p>Grass seed</p> <p>Mushroom spawn</p> <p>Winter Barley seed</p> <p>Winter Wheat seed</p> <p>Winter Oats seed</p> <p><i>Source: Merchants and Co-operatives, Teagasc and DAFF</i></p>
<p><b>Energy</b></p> <p><i>Categories</i></p> <p>Electricity</p> <p>Motor Fuel</p> <p>Lubricants</p> <p><i>Source: Central Statistics Office (CSO) - Consumer Price Index (CPI)</i></p>	<p><b>Energy</b></p> <p><i>Categories</i></p> <p>Electricity</p> <p>Motor Fuel</p> <p>Lubricants</p> <p><i>Source: Central Statistics Office (CSO) - Consumer Price Index (CPI)</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Fertilisers</b></p> <p><i>Categories</i></p> <p>Average price per tonne of:</p> <p>i) Straight Fertilisers:</p> <p>Calcium Ammonium Nitrate 27%</p> <p>Urea 46%</p> <p>Superphosphate 16%</p> <p>Muriate of Potash 50%</p> <p>Sulphate of Potash 42%</p> <p>Sulphate of Ammonia 21%</p> <p>Ammonia Sulphate Nitrate 26%</p> <p><i>Source: Merchants and Co-operatives</i></p>	<p><b>Fertilisers</b></p> <p><i>Categories</i></p> <p>Average price per tonne of:</p> <p>i) Straight Fertilisers:</p> <p>Calcium Ammonium Nitrate 27%</p> <p>Urea 46%</p> <p>Superphosphate 16%</p> <p>Muriate of Potash 50%</p> <p>Sulphate of Potash 42%</p> <p><i>Source: Merchants and Co-operatives</i></p>
<p>ii) Compound Fertilisers:</p> <p>(N=Nitrogen, P=Phosphorous and K=Potassium)</p> <p>PK Fertilisers:</p> <p>0-10-20</p> <p>0-7-30</p> <p><i>Source: Merchants and Co-operatives</i></p>	<p>ii) Compound Fertilisers:</p> <p>(N=Nitrogen, P=Phosphorous and K=Potassium)</p> <p>PK Fertilisers:</p> <p>0-10-20</p> <p>0-7-30</p> <p><i>Source: Merchants and Co-operatives</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p>NPK Fertilisers:</p> <p>7-6-17</p> <p>8-5-18</p> <p>10-10-20</p> <p>14-7-14</p> <p>18-6-12</p> <p>20-4-10</p> <p>24-2.5-10</p> <p>27-2.5-5</p> <p>24-2.2-4.5</p> <p>13-6-20</p> <p>10-5-25</p> <p>15-3-20</p> <p>18-4-10</p> <p>21-2.2-10</p> <p>Source: Merchants and Co-operatives</p>	<p>NPK Fertilisers:</p> <p>7-6-17</p> <p>8-5-18</p> <p>10-10-20</p> <p>14-7-14</p> <p>18-6-12</p> <p>20-4-10</p> <p>24-2.5-10</p> <p>27-2.5-5</p> <p>Source: Merchants and Co-operatives</p>
<p>iii) Other Fertilisers:</p> <p>Ground Lime</p> <p>Source: Quarries</p>	<p>iii) Other Fertilisers:</p> <p>Ground Lime</p> <p>Source: Quarries</p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Plant Protection Products</b></p> <p><i>Categories</i></p> <p>Average price of selected:</p> <p>Fungicides</p> <p>Insecticides</p> <p>Herbicides</p> <p>Other Plant Protection Products</p> <p><i>Source: Merchants and Co-operatives</i></p>	<p><b>Plant Protection Products</b></p> <p><i>Categories</i></p> <p>Average price of selected:</p> <p>Fungicides</p> <p>Insecticides</p> <p>Herbicides</p> <p>Other Plant Protection Products</p> <p><i>Source: Merchants and Co-operatives</i></p>
<p><b>Veterinary Expenses</b></p> <p><i>Categories</i></p> <p>Average fees charged for:</p> <p>Treatment of various livestock illnesses</p> <p>Bovine Tuberculosis testing</p> <p>Bovine Brucellosis testing</p> <p>Average price of selected veterinary medicines</p> <p><i>Source: Veterinary Surgeons and Suppliers</i></p>	<p><b>Veterinary Expenses</b></p> <p><i>Categories</i></p> <p>Average fees charged for:</p> <p>Treatment of various livestock illnesses</p> <p>Bovine Tuberculosis testing</p> <p>Bovine Brucellosis testing</p> <p>Average price of selected veterinary medicines</p> <p><i>Source: Veterinary Surgeons and Suppliers</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Feeding Stuffs</b></p> <p><i>Categories</i></p> <p>Average price per tonne of:</p> <p>i) Straight Feeding Stuffs:</p> <ul style="list-style-type: none"> <li>Rolled Barley</li> <li>Barley Meal</li> <li>Maize Meal</li> <li>Maize Flaked</li> <li>Bran</li> <li>Crushed oats</li> <li>Soya Bean Meal</li> <li>Milk Replacer</li> <li>Whole Wheat</li> <li>Molasses</li> </ul> <p><i>Source: Merchants and Co-operatives</i></p>	<p><b>Feeding Stuffs</b></p> <p><i>Categories</i></p> <p>Average price per tonne of:</p> <p>i) Straight Feeding Stuffs:</p> <ul style="list-style-type: none"> <li>Rolled Barley</li> <li>Barley Meal</li> <li>Maize Meal</li> <li>Maize Flaked</li> <li>Bran</li> <li>Pollard</li> <li>Soya Bean Meal</li> <li>Milk Replacer</li> <li>Molasses</li> </ul> <p><i>Source: Merchants and Co-operatives</i></p>

BASE YEAR 2010=100	BASE YEAR 2005=100
<p>ii) Compound Feeding Stuffs:</p> <p>Calves:                      Calf nuts/cubes</p> <p>Cattle excluding calves:                      Dairy nuts/cubes                      Dairy meal                      Cattle fattening nuts/cubes                      Cattle fattening meal</p> <p>Pigs:                      Pig fattening meal                      Sow, weaner and bonham meal                      Sow breeder</p> <p>Poultry:                      Layers mash                      Broiler starter                      Broiler finisher</p> <p>Other:                      Ewe feed coarse                      Ewe feed pellets/nuts                      Lamb feed</p> <p><i>Source: Merchants and Co-operatives</i></p>	<p>ii) Compound Feeding Stuffs:</p> <p>Calves:                      Calf nuts/cubes</p> <p>Cattle excluding calves:                      Dairy nuts/cubes                      Dairy meal                      Cattle fattening nuts/cubes                      Cattle fattening meal</p> <p>Pigs:                      Pig fattening meal                      Sow, weaner and bonham meal                      Sow breeder</p> <p>Poultry:                      Layers mash                      Broiler starter                      Broiler finisher</p> <p>Other:                      Ewe feed coarse                      Ewe feed pellets/nuts                      Lamb feed</p> <p><i>Source: Merchants and Co-operatives</i></p>



BASE YEAR 2010=100	BASE YEAR 2005=100
<p><b>Maintenance of Materials and Maintenance of Buildings</b></p> <p><i>Categories</i>                      Motor car parts                      Standard maintenance                      Repairs and decorations                      Electrical repair charges                      Agricultural wage data</p> <p><i>Source:</i> CSO - Consumer Price Index (CPI), Labour Court</p>	<p><b>Maintenance of Materials</b></p> <p><i>Categories</i>                      Motor car parts                      Standard maintenance</p> <p><i>Source:</i> CSO - Consumer Price Index (CPI)</p> <p><b>Maintenance of Buildings</b></p> <p><i>Categories</i>                      Repairs and decorations                      Electrical repair charges                      Agricultural wage data</p> <p><i>Source:</i> CSO - Consumer Price Index (CPI), Labour Court</p>
<p><b>Other Goods and Services</b></p> <p><i>Categories</i>                      Postal and telecommunications fees                      Other overheads                      Insurance                      Artificial insemination fees</p> <p><i>Source:</i> CSO - CPI and WPI, Teagasc, DAFM and AI stations</p>	<p><b>Other Goods and Services</b></p> <p><i>Categories</i>                      Postal and telecommunications fees                      Other overheads                      Insurance                      Artificial insemination fees</p> <p><i>Source:</i> CSO - CPI and WPI, Teagasc, DAFF and AI stations</p>

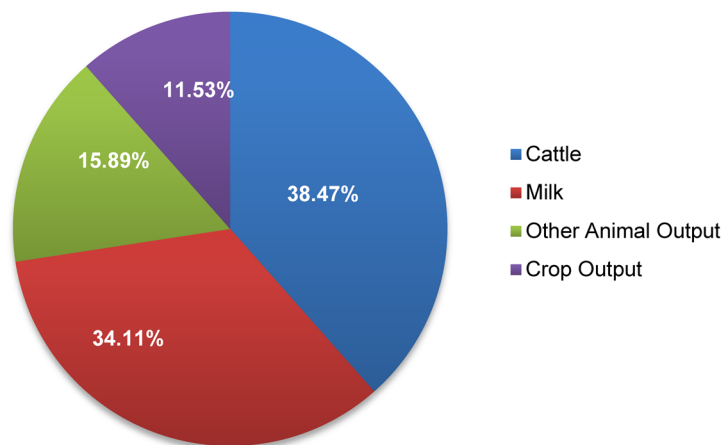
**Appendix 4**

**Output Price Index - 2010 Base Year Value - Percentage Weights**

Description	2010 Value Weights %
<b>TOTAL OUTPUTS</b>	<b>100.00</b>
<b>CROP OUTPUT</b>	<b>11.53</b>
CEREALS (including seeds)	5.18
VEGETABLES	4.4
POTATOES (including seeds)	1.95
<b>ANIMAL OUTPUT</b>	<b>88.47</b>
<b>ANIMALS</b>	<b>53.32</b>
Cattle	38.47
Cattle excluding calves	37.97
Calves	0.5
Pigs	7.93
Sheep	3.98
Poultry	2.93
<b>ANIMAL PRODUCTS</b>	<b>35.16</b>
Milk	34.11
Eggs	0.89
Other animal products	0.15

*As the figures in the table above have been rounded there may be slight discrepancies between the sum of the constituent items and the total shown.*

**2010 Outputs Base Year Weights**



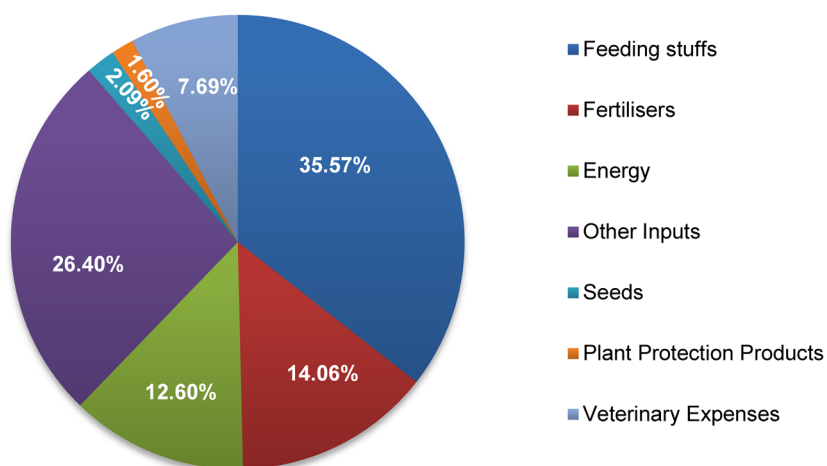
**Appendix 4**

**Input Price Index - 2010 Base Year Value - Percentage Weights**

Description	2010 Value Weights %
<b>TOTAL INPUTS</b>	<b>100.00</b>
SEEDS AND PLANTING STOCK	2.09
ENERGY; LUBRICANTS	12.60
Electricity	2.56
Motor fuels	9.58
Lubricants	0.45
FERTILISERS AND SOIL IMPROVERS	14.06
Straight fertilizers	6.18
Compound fertilisers	7.29
PK fertilisers	0.16
NPK fertilisers	7.13
Other fertilisers, soil improvers	0.59
PLANT PROTECTION PRODUCTS AND PESTICIDES	1.60
VETERINARY EXPENSES	7.69
ANIMAL FEEDINGSTUFFS	35.57
Straight feeding stuffs	3.45
Compound feeding stuffs	32.12
Compound feeding stuffs for calves	1.22
Compound feeding stuffs for cattle excluding calves	16.80
Compound feeding stuffs for pigs	5.81
Compound feeding stuffs for poultry	6.50
Other compound feeding stuffs	1.79
MAINTENANCE OF MATERIALS AND BUILDINGS	12.93
OTHER GOODS AND SERVICES	13.47

*As the figures in the table above have been rounded there may be slight discrepancies between the sum of the constituent items and the total shown.*

**2010 Inputs Base Year Weights**



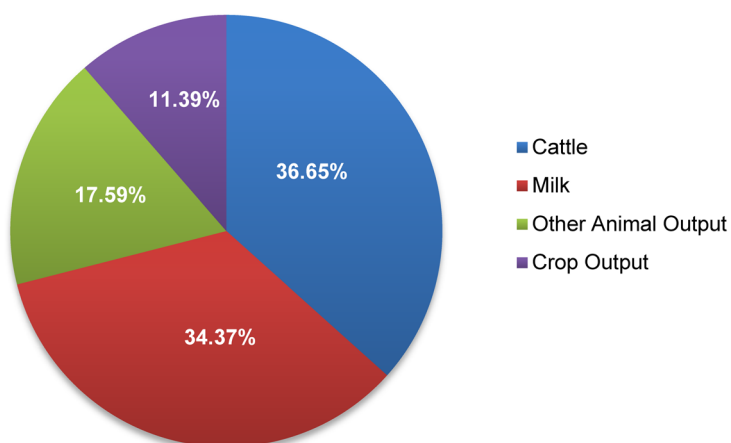
**Appendix 4**

**Output Price Index - 2005 Base Year Value - Percentage Weights**

Description	2005 Value Weights %
<b>TOTAL OUTPUTS</b>	<b>100.00</b>
<b>CROP OUTPUT</b>	<b>11.39</b>
CEREALS (including seeds)	4.42
VEGETABLES	4.78
POTATOES (including seeds)	2.19
<b>ANIMAL OUTPUT</b>	<b>88.61</b>
<b>ANIMALS</b>	<b>53.40</b>
Cattle	36.65
Cattle excluding calves	36.27
Calves	0.39
Pigs	7.72
Sheep	5.35
Poultry	3.68
<b>ANIMAL PRODUCTS</b>	<b>35.21</b>
Milk	34.37
Eggs	0.65
Other animal products	0.19

*As the figures in the table above have been rounded there may be slight discrepancies between the sum of the constituent items and the total shown.*

**2005 Outputs Base Year Weights**



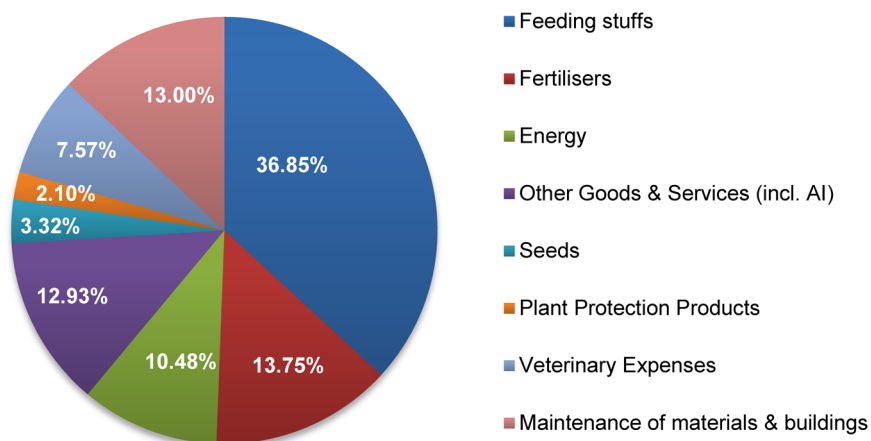
**Appendix 4**

**Input Price Index - 2005 Base Year Value - Percentage Weights**

Description	2005 Value Weights %
<b>TOTAL INPUTS</b>	<b>100.00</b>
SEEDS AND PLANTING STOCK	3.32
ENERGY; LUBRICANTS	10.48
Electricity	2.26
Motor fuels	7.85
Lubricants	0.37
FERTILISERS AND SOIL IMPROVERS	13.75
Straight fertilizers	4.62
Compound fertilisers	8.65
PK fertilisers	0.29
NPK fertilisers	8.36
Other fertilisers, soil improvers	0.48
PLANT PROTECTION PRODUCTS AND PESTICIDES	2.10
VETERINARY EXPENSES	7.57
ANIMAL FEEDINGSTUFFS	36.85
Straight feeding stuffs	4.95
Compound feeding stuffs	31.90
Compound feeding stuffs for calves	1.42
Compound feeding stuffs for cattle excluding calves	15.46
Compound feeding stuffs for pigs	5.97
Compound feeding stuffs for poultry	6.72
Other compound feeding stuffs	2.33
MAINTENANCE OF MATERIALS	6.81
MAINTENANCE OF BUILDINGS	6.18
OTHER GOODS AND SERVICES (including artificial insemination)	12.93

*As the figures in the table above have been rounded there may be slight discrepancies between the sum of the constituent items and the total shown.*

**2005 Inputs Base Year Weights**



**Appendix 5 - Deductible Levies and Value Added Tax Rates**

**Levies**

<b>Animal Levies</b>	<b>Validity Period</b>	<b>Euro</b>	<b>Per Head of</b>
Veterinary Inspection Levy (exported animals)	January 2005 - December 2013	4.80	cattle
		0.50	sheep
		1.20	pigs
Bord Bia Levy (exported and slaughtered animals)	January 2005 - December 2013	1.90	cattle
		0.25	sheep
		0.25	pigs
Bovine Disease Levy (exported and slaughtered animals)	January 2005 - December 2006	2.54	cattle
	January 2007 - December 2013	1.27	cattle
Veterinary Public Health Meat Inspection Fee (slaughtered animals)	January 2005 - December 2007	4.75	cattle
	January 2008 - December 2013	5.00	cattle
	January 2005 - December 2013	0.50	sheep
		1.30	pigs

<b>Milk Levies</b>	<b>Validity Period</b>	<b>Cent/Litre</b>	<b>Eur/100 gallon</b>
Irish Dairy Board Levy	January 2005 - May 2008	0.127	0.58
	June 2008 - December 2013	0.14	0.64
National Dairy Council Levy	January 2005 - December 2013	0.07	0.32
Bovine Disease Levy	January 2005 - December 2006	0.11	0.50
	January 2007 - December 2013	0.06	0.27
Dairy Inspection Levy	January 2005 - December 2013	0.10	0.45

**Value Added Tax**  
**VAT Rates on Inputs**

<b>Goods</b>	<b>Validity Period</b>	<b>Standard Rate</b>
Veterinary Products - Non Oral Motor Fuels	January 2005 - November 2008	21%
Veterinary Products - Non Oral Motor Fuels	December 2008 - December 2009	21.5%
Veterinary Products - Non Oral Motor Fuels	January 2010 - December 2011	21%
Veterinary Products - Non Oral Motor Fuels	January 2012 - December 2013	23%
<b>Goods</b>	<b>Validity Period</b>	<b>Reduced Rate</b>
Electricity Most Services	January 2005 - December 2013	13.5%
<b>Goods</b>	<b>Validity Period</b>	<b>Zero Rate</b>
Fertilisers Animal Feeding Stuff Veterinary Products - Oral	January 2005 - December 2013	0%

**Value Added Tax  
VAT Rates on Outputs**

<b>Sales of outputs</b>	<b>Validity Period</b>	<b>Rate</b>
Flat-rate addition	January 2005 - December 2006	4.8%
	January 2007 - December 2012	5.2%
	January 2013 - December 2013	4.8%

Flat rate addition VAT is paid to farmers who are not registered for VAT in respect of their farming activities on the prices relating to all agricultural products supplied to VAT-registered bodies such as marts, agricultural co-operatives and meat factories.



