

Dairying

The UK reference for farm business management



Part of Scotland's Rural College (SRUC)

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Introduction

Farm-gate milk prices and price drivers

The UK average farm-gate milk price has risen steadily throughout May to December 2024, from 38.03ppl in May to 47.09ppl in December, a rise of 9.06ppl.. Throughout the first five months of the 2024/25 milk year, UK milk production was below the previous year on the back of a very wet spring, with cold weather lasting well into June. The late spring turnout and poorer grass growth than normal meant a less pronounced spring flush, helping keep milk prices firm and rising into the summer months. From September onwards, improved grazing conditions and grass quality, along with easing of feed prices and higher milk prices helped boost production, along with more autumn calving cows. UK production for November was 5.3% up on the previous year and the forecast from AHDB is for GB production to reach 12.43 billion litres, 0.9% more than the 2023/24 milk year. As volume has been increasing, milk prices have started to steadied up, with most of the Scottish milk buyers holding their price at the start of 2025.



The UK farm-gate milk price is mainly driven by the commodities market. Dairy fats (butter and cream) have increased significantly in price over the first six months of the 2024/25 milk year, reaching record highs in September on the back of low milk volumes, seasonally low butterfat in the spring and summer months and increasing demand both in the UK and on the continent. During this period butter increased from £4,910/t in April 2024 to £6,730/t in September 2024. Cream has followed the butter trend, from a low of £2,307/t in April to a high of £3,147/t in September. The market for cheddar also increased, although didn't see as much of a percentage rise compared to the fats. Mild cheddar rose £830/t from April, reaching £a high of 4,300/t in October. The skim milk powder

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(SMP) price has remained steady, only fluctuating by £150/t since the start of the 2024/25 milk year, again peaking in September at £2,150/t. The increase in commodity prices in this milk year has come on the back of poor milk volumes in the UK and EU, with increased demand for butter and cream. With a good export market for domestic cream, processors were opting to sell cream, rather than going to the expense of churning it into butter, further tightening stocks.



The latest global milk deliveries data from AHDB for October 2024 were 0.85% above the same month in 2023, with average daily deliveries of 828.4million litres. Five out of the six key exporting regions (EU, UK, US, New Zealand and Australia) had production growth, apart from Argentina, which was back 0.4% due to drought conditions. Milk volumes in New Zealand are currently reported to be exceptional this season due to good grass growth and quality, with volume up 2.1% compared to the previous October. EU milk volumes are showing a similar trend to the UK, having got off to a poor start last spring, but volumes are now ahead of last year (October 2024 data was 0.6% up on the same month in 2023).

Milk supply contracts

All UK dairy farmers are contracted to supply milk to an individual milk purchaser/processor. A select number of dairy farmers are on retaileraligned contracts. Farmers on these contracts receive a milk price based on a cost of production formula used by the individual retailer. As of January 2025, aligned milk contracts were in the region of 40ppl–41ppl for a liquid standard litre. The majority of non-aligned farm-gate milk prices are in the region of 40ppl-46.58ppl for a liquid standard litre, based on 4% butterfat and 3.3% protein .

The price paid for milk sold for manufacturing purposes places more emphasis on compositional quality, with a standard manufacturing litre being based on 4.2% butterfat and 3.4% protein. These contracts typically pay around 1.3ppl more than the liquid standard litre. Depending on the contract, bonuses and penalties are awarded with milk composition and hygiene quality being either above or below the standard litre respectively. For hygiene quality, a standard litre is based on a bactoscan of 30,000/ml, somatic cell count (SCC) of 200,000/ml and thermodurics of 500/ml.

Additional bonuses for milk collections may include every other day collections, volume bonuses and flexible collection times.

Milk contract legislation

The Fair Dealing Obligations (Milk) Regulations 2024 came into force in the UK on 9th July 2024. This new regulation aims to promote fairness in the supply chain and ensures that all contracts between producers and processors are clear and fair and that both parties know their rights and responsibilities. As a minimum, all contracts must include information on the following areas:

- Clear terms around pricing mechanisms.
- Prohibition of unilateral changes.
- Clear terms on the length of milk purchase contracts and termination.
- A dispute resolution mechanism.
- An express term that requires the purchaser to act in good faith in relation to the contract.

The Agricultural Supply Chain Adjudicator (ASCA) is there to enforce the regulations and resolve any disputes between producer and processor. From the 9th July 2024, all new contracts issued must be compliant with the legislation and all existing contracts must be compliant by 9th July 2025.

Fixed price contracts

From time to time, some milk purchasers offer fixed contracts, allowing producers to fix a certain proportion of their milk volume at a given price for a period of time. 'Futures contracts' allow farmers to reduce their exposure to market volatility with regards milk price and to plan ahead with purchasing key inputs such as feed and fertiliser. Futures broker StoneX Group Inc. calculates regular forward milk prices based on European milk futures contracts and currency exchange rates.

Cost of production

For the 2024/25 year, independent consultants The Dairy Group, estimate the cost of production at 44.2ppl, back 0.8ppl on the previous year as a result of lower feed costs. The forecast is for a small profit of 0.5ppl after family labour. However, they also highlighted almost a 9ppl difference in the cost of production between the top 25% of producers compared to the average. Despite variable costs easing over the last two years, fixed costs have continued to increase with higher labour costs,

interest rates, and inflation. Margins have also been under pressure where dairy farm businesses have had to make further investment to comply with NVZ regulations and slurry storage.

Outlook

Domestic milk production (for GB) is predicted to reach 12.43 billion litres for the 2024/25 season, which is 0.9% higher than 2023/24 (AHDB Dairy). While farmgate prices have been rising throughout the second half of 2024, input costs are still at historically high levels, despite a more favourable milk price to feed price ratio which has helped stimulate production..

The majority of Scottish processors have held their December milk price for January and February and so as milk production starts its seasonal increase heading towards the spring flush, it is likely that we have seen the last of the milk price rises for a while. Aside from domestic milk volumes, our market is sensitive to many other factors: global milk output, geopolitical events, disease and weather will always impact production and trade.

According to Rabobank's latest forecast, global milk production is set to increase by 0.8% in 2025, with the main driver being better margins with improved farm-gate milk prices and lower feed costs compared to 12 months ago. Global demand is thought to be mixed depending on economic pressures. However, Chinese demand for exports is expected to increase by 2% in 2025 in response to a slowdown in their domestic milk production. It is estimated to decline 1.5% in 2025, on the back of falling milk prices and heat stress in quarter three last year leading to more farmers ceasing production.

Bluetongue in the EU and avian influenza in the US could affect herd numbers and milk output but there is confidence that vaccines will limit production impacts. The new Trump administration could affect markets if new tariffs disrupt the flow of trade and there is the risk of less labour on US farms if the threat of mass deportations are realised.

Lactation Curves

The table below is an example of a lactation curve for a cow yielding 7,000 litres and can be used for budgeting purposes.

LACTATION	VI CURV	ES - % \	field eac	h month	for a co	w yieldi	ng 7,000) litres				
					2	Nonth o	f calving					
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	oct	Nov	Dec
January	12.3	•	•	4.7	6.4	7.4	8.5	9.6	10.6	11.8	12.9	13.4
February	12.0	11.0	•	ı	4.5	5.9	6.8	7.7	8.6	9.7	10.8	11.6
March	13.0	13.5	12.4	•	•	5.3	6.8	7.7	8.6	9.8	10.9	12.0
April	11.9	12.8	13.4	12.4	•	•	5.3	6.7	7.6	8.6	9.8	10.8
May	12.1	13.2	14.3	15.1	14.1	•	•	6.0	7.5	8.6	9.7	10.8
June	10.4	11.7	12.8	13.8	14.6	13.8	•	•	6.0	7.3	8.3	9.4
July	8.7	9.9	11.0	12.0	13.2	14.1	13.1	•	•	5.5	6.9	7.9
August	7.5	8.5	9.4	10.6	11.7	13.0	13.9	12.8	•	•	5.3	6.6
September	6.7	7.5	8.4	9.5	10.8	12.0	13.4	13.9	12.8	•	•	5.3
October	5.4	6.8	7.6	8.6	9.7	11.2	12.5	13.6	14.2	13.1	•	•
November	•	5.1	6.1	0.7	7.9	9.1	10.3	11.5	12.5	13.0	12.1	'
December	'	•	4.6	6.3	7.1	8.2	9.4	10.5	11.6	12.6	13.3	12.2
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
These figur	es are b	roadly a	pplicable	to othei	r yield le	vels.						
It should b€	e noted	that the	e figures	are int	ended o	only as	a gener	al guide	and th	at annua	al yield,	milking
frequency, I	actation	number,	calving	index, 1	eeding	regime	and geo	graphica	I area ∖	vill all a	ffect the	ectual

curve obtained.

Dairy Cow - Summary of Assumptions

(a) Milk Price 2024

The following gross margins include four annual yield levels, based on average production of 1,000,000 litres per annum:

Litres /cow	Calving system	Contract type	Average price (ppl) *
5,000	Spring	Manufacturing	43.0
7,000	All year round	Manufacturing	43.0
8,500	All year round	Liquid	42.0
10,000	All year round	Liquid	42.0

* Use price sensitivity to change gross margins to reflect current milk price.

Note that calving system and contract type are not specific to average yield per cow and it is not unusual for higher yielding herds to be on manufacturing contracts. Similarly, block calving herds (whether spring or autumn or both, are capable of much higher yields than 5,000 litres).

(b) Feeding

The systems shown are all based on a grass silage feeding regime. As milk yield increases, forage quality becomes more critical. Although high milk yields can be achieved using conventional systems based on grass, grass silage and concentrates, the inclusion of a second forage, such as a wholecrop cereal or maize silage, will normally enhance intake and performance as will forage replacers such as draff or grainbeet along with other distillery byproducts, fodder beet and potatoes. To avoid excessive concentrate use (target concentrate use per litre should be less than 0.4kg), good grassland management and well-preserved grass silage with high intake characteristics are key. Multi-cut silage, with 4 or 5 cuts/year can improve forage quality and reduce demand for purchased concentrates and protein sources.

Many different feeding systems exist. A TMR (Total Mixed Ration) is where cows receive 100% of their nutrition in a mixed ration fed in the feed trough. PMR (Partial Mixed Ration) is where cows are fed a base ration with additional concentrates fed at a rate depending on their level of milk production. Typically, feeding to yield is based on providing 0.45kg concentrate per litre over the base ration through the parlour, robot or out of parlour feeders.

Dairy farmers can replace part or all the purchased compound dairy cake or blends with home mixes using home-grown cereals and purchased straights. These mixes typically cost around £20/t less than purchased product, but they do, however, incur greater demand on labour and machinery and require more storage

capacity.

(c) Other livestock expenses

These are based on commercial dairy herds and include milk recording, sawdust, dairy detergents, and feeding straw.

Dairy Cow - Spring Block Calving

PHYSICAL DATA

Calving period	Spring /cow
Average annual vield (litres)	5,000
Herd life (years)	5.0
Calving interval (days)	370
Cow size (kg)	500
Feed requirements (kg):	
Silage	5,500
Concentrates	750
Concentrates fed (kg/litre)	0.15
Overall forage area (ha):	
Silage & aftermath grazing	0.11
Grazing	0.33
Total	0.44

Basis of data:

- A spring calving herd managed on a low input system. Calving between February and April. Maximum utilisation of grazed grass -150 days winter feeding period.
- 2. A herd of 200 cows producing 1 million litres, assumed at 4.4% BF and 3.5% Protein.
- 3. The dry cow diet includes 165kg feeding straw (based on an inclusion of 3kg/hd/day over a 55 day dry period).
- 4. Calf sale/transfer value is an average of dairy heifers, males and beef cross calves at £164.75/hd then adjusted for calving interval and mortality. The calf value can be altered by £9.27 for each £10 difference in the sale/transfer price.
- Cull cow sale price of £686.25/hd has been adjusted for herd life and mortality. The annual share can be altered by £1.95 for each £10 difference in cull cow price.
- Heifer purchase/transfer price varies according to yield. A purchase price equating to 18ppl has been used. This has been adjusted for herd life and mortality. The annual share can be altered by £2.08 for each £10 difference in purchase/transfer price.

Dairy Cow - Spring Block Calving

GROSS MARGIN DATA

Calving period	Spring /cow
Average annual yield (litres) OUTPUT	5,000
Spring milk @ 43 p/litre	2,150
Calf value	187
Cull cow (annual share)	137
	2,474
Heifer replacement (annual share)	187
	2,287
VARIABLE COSTS	
Concentrates @ £300/t	225
AI	50
Vet & medicines	55
Other livestock expenses	103
	433
Gross Margin before forage	1,854
Forage variable costs:	
silage @ £634/ha	70
5	
grazing @ £353/ba	116
Total Variable Costs	619
GROSS MARGIN £/cow	1.668
GROSS MARGIN £/forage ha	3,791
Sensitivity-Change +	Change in Gross Margin/head (f)
1 n/litre in milk price	50
f10/t in concentrate price	20 8
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Dairy Cow – Moderate Input

PHYSICAL DATA

Calving period	All year
Average annual vield (litres)	7.000
Herd life (vears)	4.2
Calving interval (days)	380
Cow size (kg)	600
Feed requirements (kg):	
Silage	8,700
Concentrates	1,800
Concentrates fed (kg/litre)	0.26
Overall forage area (ha):	
Silage & aftermath grazing	0.17
Grazing	0.24
Total	0.41

Basis of data:

- 1. A moderate input system calving all year round; 200 days winter feeding period with cows at grass day and night during the grazing period.
- 2. A herd of 143 cows producing 1 million litres, assumed at 4.2% BF and 3.4% Protein.
- 3. The dry cow diet includes 115kg feeding straw (based on an inclusion of 3kg/hd/day over a 52 day dry period).
- 4. Calf sale/transfer value is an average of dairy heifers, males and beef cross calves at £166.00/hd then adjusted for calving interval and mortality. The calf value can be altered by £8.93 for each £10 difference in the sale/transfer price.
- Cull cow sale price of £823.50/hd has been adjusted for herd life and mortality. The annual share can be altered by £2.34 for each £10 difference in cull cow price.
- Heifer purchase/transfer price varies according to yield. A purchase price equating to 18ppl has been used. This has been adjusted for herd life and mortality. The annual share can be altered by £2.50 for each £10 difference in purchase/transfer price.

Dairy Cow – Moderate Input

GROSS MARGIN DATA

Calving period	All year
Average annual yield (litres)	7,000
All year milk @ 43 p/litre	3 010
Calf value	181
Cull cow (annual share)	197
	3,388
Heifer replacement (annual share)	314
	3,074
VARIABLE COSTS	
Concentrates @ £300/t	540
AI	55
Vet & medicines	89
Other livestock expenses	103
	787
Gross Margin before forage	2,287
Forage variable costs:	
silage @ £634/ha	108
grazing @ £353/ha	85
Total Variable Costs	980
GROSS MARGIN £/cow	2,094
GROSS MARGIN £/forage ha	5,107
Sensitivity-Change ±	Change in Gross Margin/head (£)
1 p/litre in milk price	70
£10/t in concentrate price	18

Dairy Cow – Moderate/High Output

PHYSICAL DATA

Calving period	All year
Average annual vield (litres)	8.500
Herd life (years)	3.6
Calving interval (days)	390
Cow size (kg)	650
Feed requirements (kg):	
Silage	11,200
Concentrates	2,800
Concentrates fed (kg/litre)	0.33
Overall forage area (ha):	
Silage & aftermath grazing	0.22
Grazing	0.24
Total	0.46

Basis of data:

- 1. A moderate input system calving all year round; 230 days winter feeding period. During the grazing period cows are housed at night and grazed during the day.
- 2. A herd of 118 cows producing 1 million litres assumed at 4.1% BF and 3.3% Protein.
- 3. The dry cow diet includes 160kg feeding straw (based on an inclusion of 4kg/hd/day over a 51 day dry period.
- 4. Calf sale/transfer value is an average of dairy heifers, males and beef cross calves at £203/hd then adjusted for calving interval and mortality. The calf value can be altered by £8.70 for each £10 difference in the sale/transfer price.
- Cull cow sale price of £785/hd has been adjusted for herd life and mortality. The annual share can be altered by £2.71 for each £10 difference in cull cow price.
- Heifer purchase/transfer price varies according to yield. A purchase price equating to 18ppl has been used. This has been adjusted for herd life and mortality. The annual share can be altered by £2.94 for each £10 difference in purchase/transfer price.

Dairy Cow – Moderate/High Output

GROSS MARGIN DATA

Calving period	All year
Average annual yield (litres)	8,500
All year milk @ 42 p/litre	3 570
Calf value	135
Cull cow (annual share)	220
	3,925
Heifer replacement (annual share)	450
	3,475
VARIABLE COSTS	
Concentrates @ £300/t	840
AI	65
Vet & medicines	108
Other livestock expenses	119
	1,132
Gross Margin before forage	2,343
Forage variable costs:	
silage @ £634/ha	139
-	
grazing @ £353/ha	85
Total Variable Costs	1.356
GROSS MARGIN £/cow	2,119
GROSS MARGIN £/forage ha	4,607
Sensitivity-Change ±	Change in Gross Margin/head (£)
1 p/litre in milk price	85
£10/t in concentrate price	28

Dairy Cow - High Output

PHYSICAL DATA

Calving period	All year
Average annual yield (litres)	10,000
Herd life (years)	3.0
Calving interval (days)	400
Cow size (kg)	650
Feed requirements (kg):	
Silage	12,600
Concentrates	3,800
Concentrates fed (kg/litre)	0.38
Overall forage area (ha):	
Silage & aftermath grazing	0.24
Grazing	0.00
Total	0.24

Basis of data:

- 1. A high input, high output system calving all year round and housed for 365 days on a complete winter ration (assumes no access to grass or zero grazing).
- 2. A herd of 100 cows producing 1 million litres assumed at 4.0% BF and 3.2% Protein.
- 3. The dry cow diet includes 245kg feeding straw (based on an inclusion of 5kg/hd/day over a 49 day dry period).
- 4. Calf sale/transfer value is an average of dairy heifers, males and beef cross calves at £213/hd then adjusted for calving interval and mortality. The calf value can be altered by £8.49 for each £10 difference in the sale/transfer price.
- Cull cow sale price of £785.07/hd has been adjusted for herd life and mortality. The annual share can be altered by £3.11 for each £10 difference in cull cow price.
- Heifer purchase/transfer price varies according to yield. A purchase price equating to 18ppl has been used. This has been adjusted for herd life and mortality. The annual share can be altered by £3.15 for each £10 difference in purchase/transfer price.

Dairy Cow - High Output

GROSS MARGIN DATA

Calving period	All year
Average annual yield (litres)	10,000
All year milk @ 42 p/litre	4,200
Calf value	207
Cull cow (annual share)	262
	4,669
Heifer replacement (annual share)	567
	4,102
VARIABLE COSTS	
Concentrates @ £300/t	1,140
AI	71
Vet & medicines	127
Other livestock expenses	136
	1,475
Gross Margin before forage	2,627
Forage variable costs:	
silage @ £634/ha	152
5	
arazing @ £353/ha	
Total Variable Costs	
GROSS MARGIN f/cow	2 475
GROSS MARGIN £/forage ha	10.313
	10,010
Sensitivity-Change ±	Change in Gross Margin/head (£)
1 p/litre in milk price	100
£10/t in concentrate price	38

Replacement Heifer Rearing

Fodder requirements of Holstein Friesian heifers

The following tables provide forage data to budget for the cost of replacement heifers.

		Approx.	Heifer	Mai	nly silage r	ration
		closing	grazing	Conc	Straw	Silage
		lwt (kg)	(days)	(kg)	(kg)	(kg)
Early a	autumn					
(1st Se	ept)/24 m	onths				
Birth		40	-	-	-	-
0-3	S-N	110	-	140	45	-
4-8	D-A	220	-	410	135	800
9-14	My-O	355	123	125	-	1,160
15-20	N-A	490	-	275	-	4,290
21-24	My-A	585	102	42	85	440
Total			225	992	265	6,690
	Fo	orage (ha)	0.21	-	-	0.13
Early s	spring					
(1st Ap	oril)/24 m	onths				
Birth		40	-	-	-	-
0-3	A-J	110	-	140	45	-
4-8	J-N	220	-	415	140	800
9-14	D-My	355	-	275	-	3,150
15-20	J-N	490	61	185	-	2,890
21-24	D-M	585	-	205	170	2,910
Total			61	1,220	355	9,750
	Fo	orage (ha)	0.06	-	-	0.19

		Approx.	Heifer	Mai	nly silage	ration
		closing	grazing	Conc	Straw	Silage
		lwt (kg)	(days)	(kg)	(kg)	(kg)
Early a	utumn					
(1st Se	pt)/27 r	nonths				
Birth		40	-	-	-	-
0-3	S-N	100	-	170	45	-
4-8	D-A	205	-	330	180	820
9-14	My-O	335	153	47	-	560
15-20	N-A	455	-	275	-	4,100
21-27	My-N	600	153	60	185	1,735
Total		-	306	882	410	7,215
	F	orage (ha)	0.29	-	-	0.18
Early s	pring					
(1st Ap	oril)/27 r	nonths				
Birth		40		-	-	
0.0	A 1	100		170	45	
0-3	A-J	100	-	170	45	-
4-8	J-IN D M	205	-	335	185	820
9-14	D-IVIY	335	50	200	-	1,980
15-20	J-IN	455	122	60	-	1,630
21-27	D-M	600	60	155	63	4,565
iotal			232_	920	293_	8,995
	F	orage (ha)	0.23	-	-	0.22

PHYSICAL DATA						
Time of birth	Early	autumn	Early spring	Early autumn	Early spring	
Age at calving	24	t months	24 months	27 months	27 months	
Ration type	Mair	nly silage	Mainly silage	Mainly silage	Mainly silage	
Milk, whole	litre	0	0	0	0	
Milk, substitute	kg	45	45	45	45	
Concentrates:						
starter (proprietary)	kg	60	06	110	110	
rearer	kg	360	360	325	325	
cereal mix	kg	542	770	447	485	
straw	kg	265	355	410	293	
Forage: silage	kg	6,690	9,750	7,215	8,895	
silage	ha	0.13	0.19	0.18	0.22	
grazing	ha	0.21	0.06	0.29	0.23	
Total forage	ha	0.34	0.25	0.47	0.45	
Basis of data:						
(a) Quality of forage:	ME (MJ	I/kg DM)	DM (g/kg)	sdus'	stitution Rate'	
Silage - 24m calving		11.0	300		3 - 3.5	
Silage - 27m calving		10.5	300		3 - 3.5	
Straw		6.3	850		~	

Replacement Heifer Rearing

(b) The forage hectares shown are derived from the Grassland section for silage (310 kgN, 3 cuts for heifers calving at 24 months; 220 kgN, 2 cuts for heifers calving at 27 months and grazing (175 kgN). The hectares for silage include a proportion of aftermath grazing, which in turn has been deducted from the grazing requirement. (c) Intensification of grazing can save up to 25% of the area allocated.

GROSS MARGIN DATA					
Time of birth	Early autumn	Early spring	Early auti	umn Early	r spring
Age at calving	24 months	24 months	27 mo	nths 27	months
Ration type	Mainly silage	Mainly silage	Mainly si	ilage Mainl	y silage
OUTPUT - Heifer at calving	1,619	1,619	~	,619	1,619
Less heifer calf	191	191		191	191
	1,428	1,428	-	,428	1,428
VARIABLE COSTS					
Milk, whole @ 42.5 p/litre	0	0		0	0
Milk, substitute @ £2300/t	104	104		104	104
Concentrates starters @ £355/t	32	32		39	39
rearing @ £325/t	117	117		106	106
mainly cereal mix @ £255/t	138	196		114	124
straw @ £120/t	32	43		49	35
Vet & medicines	47	47		47	47
AI & other livestock expenses	74	74		74	74
	544	613		533	529
Gross margin before forage	885	816		896	006
Forage variable costs:					
silage @ £634/ha, silage @ £508/ha,	82	120		92	113
grazing @ £255/ha	54	15		74	59
Total Variable costs	680	748		669	701
GROSS MARGIN (birth to calving)	749	681		730	728
GROSS MARGIN/forage ha (acre)	2,201 (8	91) 2,722 ((1102)	1551 (628)	1608 (651
Note: The calf price of £300 and value of he	eifer sold of £1750	have been adjus	sted to allov	w for mortality	(5-10%) and
barren and reject heifers (5-10%) respective	ely.				

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Replacement Heifer Rearing

Contract Dairy Heifer Rearing

Contract rearing dairy heifers by a dedicated rearer allows the farmer to focus purely on the milking herd and reduces time and resources previously allocated to youngstock.

As achieving target body weight at different stages throughout the rearing process is the basis of efficient heifer rearing programmes, contracts are often based on certain targets being met, such as growth rate, age at first service and age at first calving. The aim should be for heifers calving at 22-24 months to reach 85-90% of mature body weight at calving.

Contract rearers tend to take delivery of heifers from between 2 to 4 months of age, returning them to the dairy farmer at 4 to 6 weeks before calving.

There are various types of contract:

- Contract payment based on per animal per day. This is where the farmer pays a flat rate fee per head per day based on the actual rearing costs.
- Weight gain on a per kilogram basis contract. The difference between the delivery weight to the rearer and the return weight to the farmer is divided by the number of days to determine the growth rate per day. The danger with this type of contract is that the rearer must avoid producing heifers that are over-conditioned.
- Sell and buy-back contract. The rearer buys the calves at an agreed price, with the farmer retaining the right to buy back the heifers 4 to 6 weeks prior to calving. The rearer retains control of the system but is responsible for all costs and losses incurred. The farmer runs the risk of buying back heifers at an age or weight that is not desirable in their system.
- Labour and facilities only contract. A contract where the farmer stipulates the rearing policy and covers all costs such as feed, semen, veterinary medicines, and transport costs (as well as any losses). The rearer only provides the labour and facilities.

Care must be taken to ensure that both the rearer and the dairy farmer's responsibilities are clearly defined, including performance targets and who covers what costs. The rearer should have insurance to cover any third-party claims involving the heifers in his care.

A summary of charges is given below. These are based on the rearer paying all costs associated with the heifers in their care, excluding transport.

	£/day	Charge £/month
From 14 days to 3 months of age	1.95	58.50
From 3 months to pre-calving (at 22 months of age)	2.19	65.70

These are based on the requirements for a spring born heifer calving at 24 months.