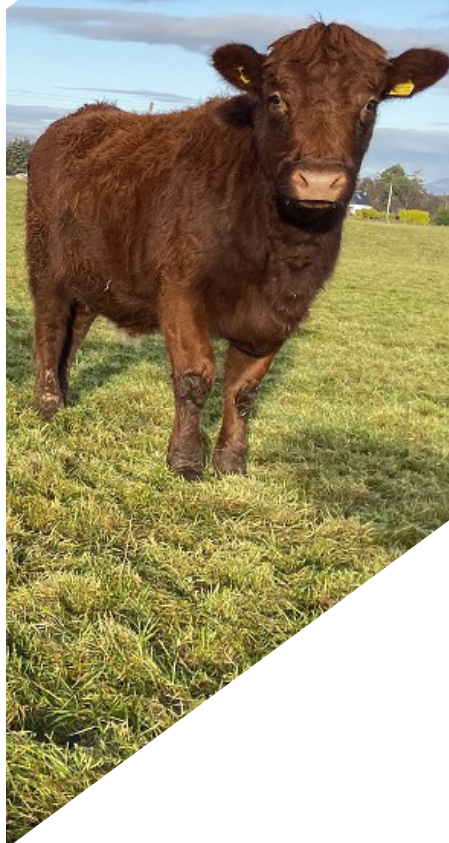




Farm
Advisory
Service

Beef Cattle



The UK reference
for farm business
management



Part of Scotland's
Rural College (SRUC)

Introduction

Markets and price drivers

The dynamic of the UK beef herd is altering, with BCMS cattle population data showing annual decreases in the suckler breeding herd, with the first quarter of 2024 reporting registrations down by 2.3%.

However, it shows growth in production of beef from the dairy. Population data showed renewed acceleration in the year-on-year decline of the beef breeding herd, with beef-sired females aged over 30 months on Scottish farms down 2.4% from April 2023. Meanwhile, the decline in England and Wales continued to outpace Scotland, showing a year-on-year reduction of 3.2%.

The reduction in the national beef herd has largely happened due to low profitability in beef enterprises, due to high production costs. These have come around due to volatility of global markets due to world conflict and extreme weather events making inputs at a premium price. In addition, the cull beef price has been at a premium, which has allowed many producers to look at the efficiency of individual animals, which has resulted in culls of older and non-efficient animals.

The beef price is largely dictated by domestic and global demand, supply and the price point, and how competitive our product is against other countries.

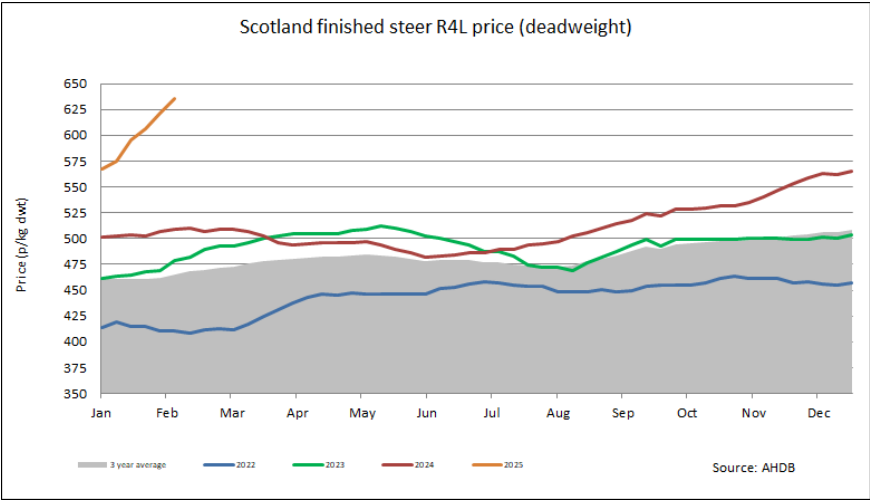
Scottish beef prices fluctuated throughout 2024. Prices started the year strongly, above £5/kg, approximately 9% above 2023 levels and 26-27% above the five-year average. Prices fell in April remaining low in late spring / early summer sitting at a low of 470p/kg deadweight in June. The price dip between March and June, was followed by a rebound of more than 7% over the following three months, with three-quarters of the rise occurring from late July onwards. Prices rose in July back above £5/kg deadweight when prices achieved were 15% higher than the 5-year average. Throughout late summer to end of January 2025 prices have continued to trend upwards to a record high of 615p/kg/deadweight at the end of January 2025.

The majority of Scottish processing capacity is now controlled by Irish companies. Demand for UK beef has remained strong throughout 2024, with export volumes up nearly 11% year-on-year between January and July. While much of this growth can be attributed to declining EU beef production, the UK also exports beef and has seen increasing levels to countries such as Hong Kong, Canada and the Philippines. The volume of beef imported to the UK has a major effect on the UK price.

Volatility and lack of certainty impacts producer confidence especially considering beef production's long lead-time. Meeting carcase specification of the intended market is essential, and a short finishing period is likely to be most cost effective. Carcase balance issues also

influence the producer price, for example, demand for higher value steaks over the BBQ season can lift whole carcass value. Beef demand is equally sensitive to inflation, the competitiveness of beef imports and alternative proteins such as chicken.

Similarly to 2023, more than a third of all beef sold in 2024 was associated with key seasonal events such as Valentines Day (Feb 14), Easter and Halloween (Oct 31), highlighting that seasonal events have the ability to lift beef sales. A 6% increase in household spending post-holiday period on beef added to retail demand year-to-date in summer 2024. Retail price inflation has also eased, halting the downward trend in sales volumes, with even a 3% year-on-year increase in the 12 weeks to early August.



Cow prices in 2024 have returned to more normal levels relative to prime cattle prices, starting the year at 370p/kg deadweight. Prices have remained strong throughout 2024, trading at a premium over England and Wales in late summer. Cull cow prices have started strongly for 2025, with prices of 510p/kg, over 25% higher than a year ago

With few exceptions, beef is traded on the commodity spot market and therefore most producers cannot use forward contracts or other price levelling mechanisms as a risk management tool. There is now a great deal of interest in shortening supply chains and dealing with or close to the end consumer. While the whole beef industry can't do this, there are opportunities for some businesses to deal directly with their consumer and ensure both profitability and business resilience.

Marketing

The vast majority of prime cattle marketed in Scotland are marketed direct to the slaughterhouse and sold deadweight. However, a large proportion will be traded at some stage in their lives through the auction

system. The live cattle auction provides a valued service, bringing many buyers and sellers together and creating genuine, healthy competition to buy livestock.

While some farmers sell all their cattle on one day, many seek to spread their risk by targeting several large sales per year. Price can be influenced by gaining feedback from buyers and selling the right type of cattle at the appropriate sales. Similarly, when selling direct to processors, a higher price might be achievable if a large number of in-specification cattle can be delivered at pre-arranged times and/or agreed to be spread throughout the year.

Margins

The bottom-line contribution of cattle is highly sensitive to the sales price. With the current market system, farmers have very limited options to influence the price they receive. For most farmers, efficiency savings are the key to improving financial performance. Efficiency savings also bring about a reduction to the carbon footprint for individual farm businesses.

The most profitable suckler cow enterprises make a positive net margin before subsidy. Top performing suckler beef systems tend to rear more calves per cow, to heavier weights, using less purchased feed. To achieve this, grassland management is key. Furthermore, while fixed costs may be lower, they are also diluted by selling more kilos of beef. The best farmers target investment in infrastructure and equipment towards things that lead to cost savings.

The high cull cow price resulted in large numbers of cows being culled. Scotland now has less than 400,000 suckler cows, sitting at 394,709 which is a fall of 3.5% between 2022 and 2023, with an estimated further loss of 2.5% lost in 2024. Summer 2024 saw an increase in Scottish herd dispersals; however, data suggests that 80% were sold into other herds.

Lack of succession and lack of labour are some of the reasons behind herds being dispersed alongside the investment required by some to adhere to new government regulations e.g. with slurry storage.

Suckler numbers have also fell in England and south of Ireland with numbers sitting at 627,000 head in England and 799,000 head in the south of Ireland.

This contraction of the breeding herd will continue to have ramifications for both store cattle availability and the supply of finished cattle to maintain critical mass in the country. Numbers look set to tighten further throughout the year, with figures forecasting beef production to fall by 6% in 2025.

Store cattle and weaned calf prices have continued to be elevated in 2024 above 2023, with strong demand from England for Scottish suckler

bred cattle contributing. It is reported that more than 20% of Scottish stores are now moving into England. Reduced calf crops in autumn 2023 and spring 2024 lead to cattle availability tightening across 2024 autumn sales.

Store cattle sales have started strongly for 2025 with many sales averaging over 365p/kg liveweight in January, with the strongest continental types sitting at 400p/kg liveweight.

Other benefits

It is important to remember that the cows form part of a business. How the enterprise complements other parts of the business is also important. For example, the share and spread of demand for labour and machinery will affect the success of the enterprise mix in a business. Furthermore, well managed multiple enterprises can spread risk and improve cash flow, having additional and multiple sale dates.

Suckler cows play a vital role in managing upland grazings, providing benefit to biodiversity, landscape management and grazing quality. Mixed livestock grazing systems also contribute to reduced worm burdens for both cattle and sheep. Their manure is also an important source of nutrients for arable cropping as part of a crop rotation. Consequently, any enterprise should not be viewed in isolation.

Subsidies and support

The Scottish Suckler Beef Support Scheme (SSBSS), commenced in 2015. Payment is made on male and female calves, which are at least 75% beef bred, born on your holding and have been kept there for at least 30 days. For the 2023 Scheme year, the net payment rate per eligible calf on the mainland was £105.24 and £151.24 on the islands. Actual payment rates are determined by the number of calves claimed each year and the exchange rate for that year. In 2023, there were 76 fewer claims than in 2022, and 4% fewer calves, making the payment rate per calf increase. Payments are confirmed once applications are validated in the spring following the year of claim. From 2025 onwards, calves will only be eligible for a SSBSS payment if their dam has a calving interval of 410 days or less. Heifers' calves will be eligible provided they meet the other conditions of the scheme as for first calvers, no calving interval is established.

For further details on payments and the requirements of the SSBSS see the Rural Aid Schemes section.

General Reference Data

Store cattle valuations

The sale value of store cattle can vary depending on time of sale. This variation has been removed for the gross margins.

The age and weight of calves at sale varies depending on season or month of calving - *be cautious when comparing spring and autumn calving herds.*

Note that an increasing share of fixed costs are attributable as the length of time trading stock spend on farm increases – this is true where other breeding or trading stock could have made use of the farm resources.

Foster calves

To reduce risk of disease, it is assumed that no foster calves are bought to replace dead calves. No cost for replacement calves has been included in the margins thus, if foster calves are bought, the appropriate adjustment should be made to the gross margin.

Liveweight to deadweight-price conversion

In order to calculate the deadweight price, divide the liveweight price by the killing out percentage (KO %). For example: $200 \text{ p/kg} / 0.52 = 385 \text{ p/kg deadweight.}$

See quick reference table overleaf:

| Liveweight Price (p/kg) | Killing out % Deadweight price (p/kg) | | | | | |
|-------------------------------|--|-----|-----|-----|-----|-----|
| | 50% | 52% | 54% | 56% | 58% | 60% |
| 200 | 400 | 385 | 370 | 357 | 345 | 333 |
| 202 | 404 | 388 | 374 | 361 | 348 | 337 |
| 204 | 408 | 392 | 378 | 364 | 352 | 340 |
| 206 | 412 | 396 | 381 | 368 | 355 | 343 |
| 208 | 416 | 400 | 385 | 371 | 359 | 347 |
| 210 | 420 | 404 | 389 | 375 | 362 | 350 |
| 212 | 424 | 408 | 393 | 379 | 366 | 353 |
| 214 | 428 | 412 | 396 | 382 | 369 | 357 |
| 216 | 432 | 415 | 400 | 386 | 372 | 360 |
| 218 | 436 | 419 | 404 | 389 | 376 | 363 |
| 220 | 440 | 423 | 407 | 393 | 379 | 367 |
| 222 | 444 | 427 | 411 | 396 | 383 | 370 |
| 224 | 448 | 431 | 415 | 400 | 386 | 373 |
| 226 | 452 | 435 | 419 | 404 | 390 | 377 |
| 228 | 456 | 438 | 422 | 407 | 393 | 380 |
| 230 | 460 | 442 | 426 | 411 | 397 | 383 |
| 232 | 464 | 446 | 430 | 414 | 400 | 387 |
| 234 | 468 | 450 | 433 | 418 | 403 | 390 |
| 236 | 472 | 454 | 437 | 421 | 407 | 393 |
| 238 | 476 | 458 | 441 | 425 | 410 | 397 |
| 240 | 480 | 462 | 444 | 429 | 414 | 400 |
| 242 | 484 | 465 | 448 | 432 | 417 | 403 |
| 244 | 488 | 469 | 452 | 436 | 421 | 407 |
| 246 | 492 | 473 | 456 | 439 | 424 | 410 |
| 248 | 496 | 477 | 459 | 443 | 428 | 413 |
| 250 | 500 | 481 | 463 | 446 | 431 | 417 |

Hill Suckler Cows

PHYSICAL DATA

| | Spring Feb-Apr | Autumn Sep-Nov |
|--|-------------------|-------------------|
| Calving period | | |
| Calves weaned per 100 cows put to the bull | 90% | 90% |
| Month of weaning | October | July |
| Days to weaning | 220 | 270 |
| Month of sale | October | October |
| Lwt of calves: at weaning (kg) | 235 | 270 |
| Lwt of calves: at sale/transfer (kg) | 235 | 335 |
| Herd life of cows (years) | 7 | 7 |
| Herd life of bulls (years) | 4 | 4 |
| Cow mortality (%) | 1 | 1 |
| Calf mortality (%) | 4.5 | 4.5 |
| Cow:bull ratio (:1) | 35 | 35 |
| Feeding/cow and calf (winter days): | 210 | 210 |
| silage (t) | 5.5 | 7.5 |
| straw (kg) | - | - |
| creep feed (kg) (incl. pre sale) | - | 250 |
| cow concentrates (kg) | 50 | 200 |
| cow cobs (kg) | 50 | 50 |
| grazing (hill/rough pasture) | >0.5 | >0.6 |
| Silage fertiliser (kg N/ha) | 125 | 125 |
| Silage: | | |
| yield (t/ha from 1-cut) | 20 | 20 |
| DM quality (g/kg) | 300 | 300 |
| ME quality (MJ/kg DM) | 10 | 10 |
| Rough grazing (ha) | >0.6 | >0.5 |
| Silage & aftermath grazing (ha) | 0.28 | 0.375 |
| Housing system: | | |
| Straw for general use incl. calving pens | 0.33 | 0.42 |
| Straw bedding (if in bedded courts) (t) | 1.25 | 1.50 |

Based on bought-in straw.

* Amend bedding costs for cows outwintered or housed on straw.

Assumptions:

1. Grazing is assumed to be hill grazing with some improvements, carrying a maintenance charge of £50/grazing livestock unit.
2. SSBSS value is based on mainland payments, adjusted for living calves at 30 days of age. For further detail on this scheme see pages 151 and 474.

Hill Suckler Cows

GROSS MARGIN DATA

| Calving period | | Spring | Autumn |
|--------------------------------------|----------------|----------------|----------------|
| OUTPUT | | Feb-Apr | Sep-Nov |
| | | £/cow | £/cow |
| Calf sales (lwt) | | | |
| Steers | Heifers | | |
| 350 kg @ 385 p | 320 kg @ 375 p | - | 1146 |
| 250 kg @ 385 p | 220 kg @ 375 p | 804 | - |
| Scottish Suckler Beef Support Scheme | | 97 | 97 |
| | | 901 | 1243 |
| Less: Replacement - cow | | 26 | 26 |
| bull | | 26 | 26 |
| | | 849 | 1191 |
| VARIABLE COSTS | | | |
| Cow concentrates @ £280/t | | 14 | 56 |
| Cow cobs @ £316/t | | 16 | 16 |
| Creep feed @ £250/t | | - | 63 |
| Vet & medicines | | 37 | 37 |
| Straw bedding @ £145/t (bought-in) | | 48 | 61 |
| Commission, haulage & tags | | 56 | 70 |
| | | 171 | 303 |
| Gross Margin before forage | | 678 | 888 |
| Forage variable costs: | | | |
| silage @ £211/ha | | 58 | 79 |
| grazing @ £10/grazing livestock unit | | 11 | 15 |
| | | 69 | 94 |
| Total Variable Costs | | 240 | 397 |
| GROSS MARGIN £/cow | | 609 | 794 |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
|-----------------------------|--|----|
| 10 p/kg in lwt sale price | 22 | 31 |
| Sale weight ± 10kg | 35 | 35 |
| Herd life ± 1 year | 12 | 12 |

Replacement Cost prices:

| | | | |
|-----------|--------|-------------------------|--------|
| Cull cow | £1,150 | In-calf heifer (purch.) | £1,250 |
| Cull bull | £1,400 | Replacement bull | £5,000 |

Upland Suckler Cows - Mainly Silage Diets

PHYSICAL DATA

Breed: Commercial cows bred to a range of bulls, mostly continental.

| Calving period | Feb-Apr | May-Jun | Aug-Oct |
|--|----------------|----------------|----------------|
| Calves weaned | 92% | 92% | 92% |
| Month of weaning | October | December | July |
| Days to weaning | 220 | 200 | 300 |
| Month of sale | October | April | October |
| Lwt of calves: at weaning (kg) | 275 | 260 | 330 |
| Lwt of calves: at sale/transfer (kg) | 275 | 350 | 400 |
| Herd life of cows (years) | 7 | 7 | 7 |
| Herd life of bulls (years) | 4 | 4 | 4 |
| Cow mortality (%) | 1 | 1 | 1 |
| Calf mortality (%) | 4.5 | 4.5 | 4.5 |
| Cow:bull ratio (:1) | 35 | 35 | 35 |
| Feeding/cow and calf (winter days): | 180 | 180 | 200 |
| silage (t) | 4.8 | 6.9 | 7.5 |
| straw (t) | 0.3 | 0.2 | 0.35 |
| calf concentrates (kg) | 100 | 280 | 365 |
| cow concentrates (kg) | 100 | 150 | 200 |
| Grazing fertiliser (kg N/ha) | 125 | 125 | 125 |
| Silage & aftermath fertiliser (kgN/ha) | 200 | 200 | 200 |
| Silage: | | | |
| yield (t/ha from 1-cut) | 23 | 23 | 23 |
| DM quality (g/kg) | 300 | 300 | 300 |
| ME quality (MJ/kg DM) | 10.5 | 10.5 | 10.5 |
| Overall forage area (ha): | | | |
| silage and aftermath grazing | 0.24 | 0.25 | 0.38 |
| grazing | 0.30 | 0.30 | 0.34 |
| | <u>0.54</u> | <u>0.55</u> | <u>0.72</u> |

Housing system: In cubicles*

| | | | |
|--|------|------|------|
| Straw for general use incl. calving pens | 0.33 | 0.33 | 0.42 |
| Straw bedding (if in bedded courts) (t) | 1.25 | 1.75 | 1.50 |

Based on bought-in straw, adjust if home-grown.

* Amend bedding costs for cows outwintered or housed on straw.

Assumptions:

1. Mainly grass farm either buying in all straw and concentrates or growing small amount of cereals. May/June calves weaned in February when on silage diets.
2. SSBSS value is based on mainland payments, adjusted for living calves at 30 days of age. For further detail on this scheme see pages 151 and 474.

Upland Suckler Cows - Mainly Silage Diets

GROSS MARGIN DATA

| Calving period | Feb-Apr | May-Jun | Aug-Oct |
|--------------------------------------|---------|---------|---------|
| OUTPUT | £/cow | £/cow | £/cow |
| Calf sales (lwt - 92% crop) | | | |
| Steers | | | |
| 290 kg @ 385 p | 962 | - | - |
| 370 kg @ 385 p | - | 1225 | - |
| 420 kg @ 385 p | - | - | 1399 |
| Heifers | | | |
| 260 kg @ 375 p | 99 | 99 | 99 |
| Scottish Suckler Beef Support Scheme | 1061 | 1324 | 1498 |
| Less: Replacement - cow | 41 | 41 | 41 |
| bull | 32 | 32 | 32 |
| | 988 | 1251 | 1425 |
| VARIABLE COSTS | | | |
| Cow concentrates @ £280/t | 28 | 42 | 56 |
| Calf concentrates @ £250/t | 25 | 70 | 91 |
| Vet & medicines | 39 | 39 | 39 |
| Feeding straw @ £145/t (bought-in) | 44 | 29 | 51 |
| Bedding straw @ £145/t (bought-in) | 48 | 48 | 61 |
| Commission, haulage, tags & levies | 63 | 74 | 81 |
| | 247 | 302 | 379 |
| Gross Margin before forage | 741 | 949 | 1046 |
| Forage variable costs: | | | |
| silage @ £211/ha | 51 | 53 | 80 |
| grazing @ £193/ha | 58 | 58 | 66 |
| | 109 | 111 | 146 |
| Total Variable Costs | 356 | 413 | 525 |
| GROSS MARGIN £/cow | 632 | 838 | 900 |
| GROSS MARGIN £/ha | 1170 | 1523 | 1250 |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | | |
|---------------------------|---------------------------------|----|----|
| 10 p/kg in lwt sale price | 25 | 32 | 37 |
| Sale weight ± 10kg | 35 | 34 | 35 |
| Herd life ± 1 year | 16 | 16 | 16 |

Replacement cost prices:

| | | | |
|-----------|--------|-------------------------|--------|
| Cull cow | £1,360 | In-calf heifer (purch.) | £1,550 |
| Cull bull | £1,575 | Replacement bull | £6,000 |

Suckler Cows - Mainly Straw Diets

PHYSICAL DATA

Breed: Dairy-beef cross cows bred to range of bulls, mostly continental.

| Calving period | Feb-Apr | May-Jun | Aug-Oct |
|---|----------------|----------------|----------------|
| Calves weaned (%) | 92% | 92% | 92% |
| Month of weaning | October | December | July |
| Days to weaning | 220 | 200 | 300 |
| Month of sale | October | April | October |
| Lwt of calves: at weaning (kg) | 275 | 260 | 330 |
| Lwt of calves: at sale/transfer (kg) | 275 | 350 | 400 |
| Herd life of cows (years) | 7 | 7 | 7 |
| Herd life of bulls (years) | 4 | 4 | 4 |
| Cow mortality (%) | 1 | 1 | 1 |
| Calf mortality (%) | 4.5 | 4.5 | 4.5 |
| Cow:bull ratio (:1) | 35 | 35 | 35 |
| Feeding/cow and calf (winter days): | 180 | 180 | 200 |
| silage (t) | 1.5 | - | - |
| straw (t) | 1.5 | 2.2 | 1.3 |
| calf concentrates (kg) | 100 | 330 | 415 |
| cow concentrates (kg) | 600 | 550 | 1,500 |
| Grazing fertiliser (kg N/ha) | 125 | 125 | 125 |
| Silage & aftermath fertiliser (kg N/ha) | 175 | - | - |
| Silage: | | | |
| yield (t/ha from 1-cut) | 23 | 23 | 23 |
| DM quality (g/kg) | 300 | 300 | 300 |
| ME quality (MJ/kg DM) | 10.5 | 10.5 | 10.5 |
| Overall forage area (ha): | | | |
| silage and aftermath grazing | 0.07 | - | - |
| grazing | 0.34 | 0.38 | 0.40 |
| | <u>0.41</u> | <u>0.38</u> | <u>0.40</u> |

Housing system: Straw bedding assumed*

| | | | |
|-------------------|------|------|------|
| Straw bedding (t) | 0.75 | 1.05 | 0.90 |
|-------------------|------|------|------|

Based on home-grown straw, adjust if bought-in.

* Amend bedding costs for cows outwintered or housed elsewhere.

Assumptions:

1. Mixed farm growing sufficient grain to cover concentrate and straw feeding/bedding requirements. Only purchasing protein and minerals. May/June calves weaned earlier to reduce cow wintering costs. Small amount of silage made to cover extra grass growth in early season.
2. SSBSS value is based on mainland payments, adjusted for living calves at 30 days of age. For further detail on this scheme see pages 151 and 474.

Suckler Cows - Mainly Straw Diets

GROSS MARGIN DATA

| Calving period | Feb-Apr | May-Jun | Aug-Oct |
|---------------------------------------|---------|---------|---------|
| OUTPUT | £/cow | £/cow | £/cow |
| Calf sales (lwt - 92% crop) | | | |
| Steers | | | |
| 290 kg @ 385 p | 962 | - | - |
| 370 kg @ 385 p | - | 1225 | - |
| 420 kg @ 385 p | - | - | 1382 |
| Heifers | | | |
| 260 kg @ 375 p | 99 | 99 | 99 |
| Scottish Suckler Beef Support Scheme | 1061 | 1324 | 1481 |
| Less: Replacement - cow | 41 | 41 | 41 |
| bull | 32 | 32 | 32 |
| | 988 | 1251 | 1408 |
| VARIABLE COSTS | | | |
| Cow concentrates @ £294/t (home-mix) | 176 | 162 | 441 |
| Calf concentrates @ £395/t (home-mix) | 40 | 130 | 164 |
| Feeding straw @ £120/t (home-grown) | 180 | 264 | 156 |
| Bedding straw @ £120/t (home-grown) | 90 | 126 | 108 |
| Vet & medicines | 39 | 39 | 39 |
| Commission, haulage & tags | 63 | 74 | 80 |
| | 588 | 795 | 988 |
| Gross Margin before forage | 400 | 456 | 420 |
| Forage variable costs: | | | |
| silage @ £211/ha | 14 | - | - |
| grazing @ £255/ha | 87 | 97 | 102 |
| | 101 | 97 | 102 |
| Total Variable Costs | 689 | 892 | 1090 |
| GROSS MARGIN £/cow | 299 | 359 | 318 |
| GROSS MARGIN £/ha | 737 | 944 | 794 |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | | |
|---------------------------|---------------------------------|----|----|
| 10 p/kg in lwt sale price | 25 | 32 | 36 |
| Sale weight ± 10kg | 35 | 34 | 35 |
| Herd life ± 1 year | 16 | 16 | 16 |

Replacement cost prices:

| | | | |
|-----------|--------|-------------------------|--------|
| Cull cow | £1,360 | In-calf heifer (purch.) | £1,550 |
| Cull bull | £1,575 | Replacement bull | £6,000 |

Spring Calving Cows Producing 18 - 20 Month Finished Cattle

PHYSICAL DATA

Breed: Commercial cows bred to a range of bulls, mostly continental

| | Steers | Heifers |
|--|---------------|----------------|
| Calving period | Feb-Apr | Feb-Apr |
| Calves weaned (%) | 92% | 92% |
| Month of weaning | October | October |
| Calves sold finished (%) | 91% | 91% |
| Sale weight (kg lwt) | 650 | 600 |
| Dead weight (kg dwt) | 365 | 340 |
| Weaning weight (kg lwt) | 290 | 260 |
| Herd life of cows (years) | 7 | 7 |
| Herd life of bulls (years) | 4 | 4 |
| Cow:bull ratio (:1) | 35 | 35 |
| Feeding/cow and calf (winter days): | 180 | 180 |
| silage (t) | 5.0 | 5.0 |
| straw bedding (t) | 2.0 | 2.0 |
| calf concentrates (kg) pre-weaning | 100 | 100 |
| cow concentrates (kg) | 100 | 100 |
| Forage area (ha): | | |
| silage + aftermath | 0.16 | 0.16 |
| grazing | 0.30 | 0.30 |
| Overwintered calves: | | |
| Feeding period 180 days, October-April | | |
| Liveweight gain (kg) | 144 | 144 |
| Average daily liveweight gain (kg) | 0.8 | 0.8 |
| Feeding: barley/protein/minerals (t) | 0.38 | 0.4 |
| silage (t) | 3.25 | 3.0 |
| Silage area (ha) | 0.11 | 0.10 |
| Finishing cattle: | | |
| Feeding period (days): at grass | 145 | 145 |
| housed | 54 | 60 |
| Liveweight gain | 216 | 196 |
| Daily liveweight gain: at grass | 1 | 0.9 |
| housed | 1.3 | 1.1 |
| Feeding: concentrates at grass (t) | 0.20 | 0.25 |
| barley/protein/minerals in house (t) | 0.65 | 0.70 |
| straw fed in house (t) | 0.1 | 0.1 |
| Grazing area (ha) | 0.23 | 0.20 |

Housing system: Straw bedding assumed, home-grown*

* Amend bedding costs for cows outwintered or on slurry systems.

Assumption: SSBSS value as per note on page 158.

Spring Calving Cows Producing 18 - 20 Month Finished Cattle

GROSS MARGIN DATA

| OUTPUT | Spring born | |
|--|-------------------|-------------------|
| | Steer £/cow | Heifer £/cow |
| Calf sales (dwt - 91% crop) | | |
| 365 kg @ 580 p | 1,926 | - |
| 340 kg @ 580 p | - | 1,795 |
| Scottish Suckler Beef Support Scheme | 98 | 98 |
| | <u>2,024</u> | <u>1,893</u> |
| Less: Replacement - cow | 41 | 41 |
| bull | 32 | 32 |
| | <u>1,951</u> | <u>1,820</u> |
| VARIABLE COSTS | | |
| Cow concentrates @ £280/t | 28 | 28 |
| Calf concentrates @ £250/t | 25 | 25 |
| Barley, protein & minerals @ £240/t housed | 247 | 264 |
| Barley, protein & minerals @ £240/t at grass | 48 | 60 |
| Feeding straw @ £120/t (home-grown) | 12 | 12 |
| Bedding straw @ £120/t (home-grown) | 240 | 240 |
| Vet & medicines | 78 | 78 |
| Commission, levies & haulage | 123 | 117 |
| | <u>801</u> | <u>824</u> |
| Gross Margin before forage | <u>1,150</u> | <u>996</u> |
| Forage variable costs: | | |
| silage @ £327/ha | 88 | 85 |
| grazing @ £193/ha | 102 | 97 |
| | <u>190</u> | <u>182</u> |
| Total Variable Costs | <u>991</u> | <u>1,006</u> |
| GROSS MARGIN £/cow | <u>960</u> | <u>814</u> |
| GROSS MARGIN £/ha (acre) | <u>1200 (486)</u> | <u>1071 (434)</u> |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
|---------------------------|---------------------------------|-----|
| 10 p/kg in dwt sale price | 34 | 30 |
| Not bedded on straw | 240 | 240 |
| £10/t in straw price | 21 | 21 |

Replacement cost prices:

| | | | |
|-----------|--------|-------------------------|--------|
| Cull cow | £1,360 | In-calf heifer (purch.) | £1,550 |
| Cull bull | £1,575 | Replacement bull | £6,000 |

Overwintering Spring-Born Suckled Calves

PHYSICAL DATA

| | Spring-born Steer | | Spring-born Heifer | |
|--|----------------------|-------|-----------------------|-------|
| Purchase/transfer date | October | | October | |
| Sale/transfer date | April | | April | |
| Feeding period (days) | 180 | | 180 | |
| Liveweight: at purchase/transfer (kg) | 290 | | 260 | |
| at sale/transfer (kg) | 420 | | 386 | |
| Average daily liveweight gain (kg/day) | 0.7 | | 0.7 | |
| Mortality (%) | 1 | | 1 | |
| Feeding: diet basis | silage | straw | silage | straw |
| barley/protein/minerals (t) | 0.30 | 0.75 | 0.25 | 0.75 |
| silage (t) | 3.5 | - | 3.0 | - |
| straw (t) ME 6.5 MJ/kg DM | - | 0.8 | - | 0.8 |
| Silage area (ha) | 0.11 | - | 0.10 | - |
| Silage: yield (t/ha) | 31 | 31 | 31 | 31 |
| DM quality (g/kg) | 300 | 300 | 300 | 300 |
| ME quality (MJ/kg DM) | 10.5 | 10.5 | 10.5 | 10.5 |
| N-fertiliser (kg/ha) | 220 | 220 | 220 | 220 |

Housing system: Straw bedding assumed*.

Straw bedding (t) 0.5 0.3 0.5 0.3

Cost @ £120/t based on home grown straw - adjust if bought in.

* Amend bedding costs if outwintered or on slurry systems.

Assumptions:

1. Silage diet concentrates phased out by 4 weeks to turnout.
2. Silage could be costed on a per tonne basis for clamp silage instead of a per hectare basis to reflect the true cost of growing, making, storing and handling silage.

Overwintering Spring-Born Suckled Calves

GROSS MARGIN DATA

| OUTPUT | Spring-born | | | |
|-------------------------------------|--|--------------|--------------------|--------------|
| | Steer £/head | | Heifer £/head | |
| Sale value (lwt - 1% mortality): | | | | |
| 420 kg @ 385 p | 1601 | | - | |
| 386 kg @ 375 p | - | | 1433 | |
| Less: Weaned calf (lwt): | | | | |
| 290 kg @ 385 p | 1117 | | - | |
| 260 kg @ 375 p | - | | 975 | |
| | <u>484</u> | | <u>458</u> | |
| VARIABLE COSTS | | | | |
| <i>Diet basis</i> | <i>silage</i> | <i>straw</i> | <i>silage</i> | <i>straw</i> |
| Barley, protein & minerals @ £240/t | 72 | - | 60 | - |
| Barley, protein & minerals @ £240/t | - | 180 | - | 180 |
| Feeding straw @ £120/t (home-grown) | - | 96 | - | 96 |
| Bedding straw @ £120/t (home-grown) | 60 | 36 | 60 | 36 |
| Vet & medicines | 34 | 34 | 34 | 34 |
| Commission, levies & haulage | 75 | 75 | 68 | 68 |
| | <u>241</u> | <u>421</u> | <u>222</u> | <u>414</u> |
| Gross Margin before forage | <u>243</u> | <u>63</u> | <u>236</u> | <u>44</u> |
| Forage variable costs: | | | | |
| silage @ £327/ha | 36 | - | 33 | - |
| Total Variable Costs | <u>277</u> | <u>421</u> | <u>254</u> | <u>414</u> |
| GROSS MARGIN £/head | <u>207</u> | <u>63</u> | <u>204</u> | <u>44</u> |
| GROSS MARGIN £/ha (acre) | <u>1,884</u> (763) | <u>-</u> | <u>2,035</u> (824) | <u>-</u> |
| Sensitivity-Change ± | Change in Gross Margin/head (£) | | | |
| 10 p/kg in lwt sale price | 41 | 41 | 38 | 38 |
| 10 p/kg in lwt purchase price | 29 | 29 | 26 | 26 |
| Not bedded on straw | 60 | 36 | 60 | 36 |
| £10/t in straw price | 5 | 11 | 5 | 11 |

Finishing Spring-Born Suckled Calves Intensively at 13 Months

PHYSICAL DATA

| | Spring-born | |
|---|-------------|---------|
| | Steer | Bull |
| Purchase/transfer date | October | October |
| Sale date | June | May |
| Feeding period (days) | 247 | 225 |
| Liveweight: at purchase/transfer (kg lwt) | 290 | 300 |
| at sale (kg lwt) | 612 | 650 |
| Deadweight at sale (kg dwt) | 337 | 364 |
| Average daily liveweight gain (kg/day) | 1.30 | 1.56 |
| Mortality (%) | 1 | 1 |
| Feeding: | | |
| barley/protein/minerals (t) | 2.4 | 2.5 |
| straw (t) ME 6.5 MJ/kg DM | 0.3 | 0.3 |
| Housing system: Straw bedding assumed*. | | |
| Straw bedding (t) | 0.50 | 0.45 |
| Based on home-grown straw, adjust if bought-in. | | |
| * Amend bedding costs if on slurry based systems. | | |

Finishing Spring-Born Suckled Calves Intensively at 13 Months

GROSS MARGIN DATA

| OUTPUT | Steer £/head | Bull £/head |
|-------------------------------------|-----------------|----------------|
| Sale value (dwt - 1% mortality): | | |
| 337 kg @ 580 p (612 kg lwt) | 1,933 | - |
| 364 kg @ 570 p (650 kg lwt) | - | 2,054 |
| Less: Store purchase (lwt): | | |
| 290 kg @ 385 p | 1117 | - |
| 300 kg @ 350 p | - | 1050 |
| | <u>816</u> | <u>1004</u> |
| VARIABLE COSTS | | |
| Barley, protein & minerals @ £250/t | 600 | 625 |
| Feeding straw @ £120/t (home-grown) | 36 | 36 |
| Bedding straw @ £120/t (home-grown) | 60 | 54 |
| Vet & medicines | 34 | 34 |
| Commission, levies & haulage | 108 | 112 |
| Total Variable Costs | <u>838</u> | <u>861</u> |
| GROSS MARGIN £/head | <u>-22</u> | <u>143</u> |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
|-------------------------------|---------------------------------|----|
| 10 p/kg in dwt sale price | 33 | 36 |
| 10 p/kg in lwt purchase price | 29 | 30 |
| Not bedded on straw | 60 | 54 |
| £10/t in straw price | 8 | 8 |

Finishing Year Old Autumn-Born Suckled Calves at 18 Months

PHYSICAL DATA

| | Autumn-born | |
|--|-------------|---------|
| | Steer | Heifer |
| Purchase/transfer date | October | October |
| Sale date | April | April |
| Feeding period (days) | 164 | 180 |
| Liveweight: at purchase/transfer (kg lwt) | 420 | 380 |
| Liveweight: at sale (kg lwt) | 650 | 600 |
| Deadweight at sale (kg dwt) | 360 | 340 |
| Average daily liveweight gain (kg/day) | 1.4 | 1.2 |
| Mortality (%) | 1 | 1 |
| Feeding: | | |
| barley/protein/minerals (t) | 1.10 | 0.90 |
| kg/day | 6.6 | 5.0 |
| silage (t) | 4.1 | 4.5 |
| kg/day | 25.1 | 25.1 |
| Silage area (ha) | 0.15 | 0.15 |
| Silage: yield | 31 | 31 |
| DM quality (g/kg) | 300 | 300 |
| ME quality (MJ/kg DM) | 10.5 | 10.5 |
| Silage fertiliser (kg N/ha) | 220 | 220 |
| Housing system: Straw bedding assumed*. | | |
| Straw bedding (t) | 0.75 | 0.70 |

Based on home-grown straw, adjust if bought-in.

* For slatted court omit bedding costs.

Assumptions:

1. Calves from Upland/Lowground Suckler Cows – silage or straw diet.
2. Silage could be costed on a per tonne basis for clamp silage instead of a per hectare basis to reflect the true cost of growing, making, storing and handling silage.

Finishing Year Old Autumn-Born Suckled Calves at 18 Months

GROSS MARGIN DATA

| OUTPUT | Steer £/head | Heifer £/head |
|-------------------------------------|-----------------|------------------|
| Sale value (dwt - 1% mortality): | | |
| 360 kg @ 580 p (650 kg lwt) | 2,067 | - |
| 340 kg @ 580 p (600 kg lwt) | - | 1,952 |
| Less: Weaned calf (lwt): | | |
| 420 kg @ 385 p | 1,617 | - |
| 380 kg @ 375 p | - | 1,425 |
| | <u>450</u> | <u>527</u> |
| VARIABLE COSTS | | |
| Barley, protein & minerals @ £250/t | 275 | 225 |
| Bedding straw @ £120/t (home-grown) | 90 | 84 |
| Vet & medicines | 26 | 26 |
| Commission, levies & haulage | 113 | 109 |
| | <u>504</u> | <u>444</u> |
| Gross Margin before forage | - 54 | 83 |
| Forage variable costs: | | |
| silage @ £327/ha | 49 | 49 |
| Total Variable costs | <u>553</u> | <u>493</u> |
| GROSS MARGIN £/head | - 103 | 34 |
| GROSS MARGIN £/ha (acre) | - 684 | 229 |
| | -(277) | (93) |

| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
|-------------------------------|---------------------------------|----|
| 10 p/kg in dwt sale price | 36 | 34 |
| 10 p/kg in lwt purchase price | 42 | 38 |
| Not bedded on straw | 90 | 84 |
| £10/t in straw price | 8 | 7 |

Finishing Year Old Spring-Born Suckled Calves at 18 - 20 Months

PHYSICAL DATA

| | Spring-born | |
|---|----------------|-----------------|
| | Yearling steer | Yearling heifer |
| Purchase/transfer date | April | April |
| Sale date | December | December |
| Feeding period (days): at grass | 140 | 140 |
| housed | 91 | 100 |
| Liveweight: at purchase/transfer (kg lwt) | 420 | 380 |
| at housing (kg lwt) | 532 | 492 |
| at sale (kg lwt) | 650 | 600 |
| Deadweight at sale (kg dwt) | 370 | 340 |
| Average daily lwt gain: at grass (kg/day) | 0.8 | 0.8 |
| housed (kg/day) | 1.3 | 1.1 |
| Mortality (%) | 0.3 | 0.3 |
| Feeding: | | |
| concentrates at grass (t) | 0.20 | 0.25 |
| barley/protein/minerals in house (t) | 1.1 | 1.0 |
| straw fed in house (t) ME 6.5 MJ/kg DM | 0.1 | 0.1 |
| Housing system: Straw bedding assumed* | | |
| Straw bedding (t)** | 0.25 | 0.20 |
| Grazing area (ha) | 0.23 | 0.20 |
| Grazing fertiliser (kg N/ha) | 125 | 125 |
| Stocking rate at grass (animals/ha) | 4.2 | 5.0 |

* Amend bedding costs if on slurry based systems.

** Based on home-grown straw, adjust if bought-in.

Finishing Year Old Spring-Born Suckled Calves at 18 - 20 Months

GROSS MARGIN DATA

| | Steer £/head | Heifer £/head |
|--|-----------------|------------------|
| OUTPUT | | |
| Sale value (dwt - 0.3% mortality): | | |
| 370 kg @ 580 p (650 kg lwt) | 2,140 | - |
| 340 kg @ 580 p (600 kg lwt) | - | 1,966 |
| Less: Yearling calf (lwt): | | |
| 420 kg @ 385 p | 1617 | - |
| 380 kg @ 375 p | - | 1425 |
| | <u>523</u> | <u>541</u> |
| VARIABLE COSTS | | |
| Barley, protein & minerals @ £240/t (at grass) | 48 | 60 |
| Barley, protein & minerals @ £240/t (housed) | 254 | 240 |
| Feeding straw @ £120/t (home-grown) | 12 | 12 |
| Bedding straw @ £120/t (home-grown) | 30 | 24 |
| Vet & medicines | 19 | 19 |
| Commission, levies & haulage | 116 | 109 |
| | <u>479</u> | <u>464</u> |
| Gross Margin before forage | <u>44</u> | <u>77</u> |
| Forage variable costs: | | |
| grazing @ £255/ha | <u>59</u> | <u>51</u> |
| Total Variable costs | <u>538</u> | <u>515</u> |
| GROSS MARGIN £/head | <u>-15</u> | <u>26</u> |
| GROSS MARGIN £/ha (acre) | <u>-64</u> | <u>132</u> (53) |
| Sensitivity-Change ± | | |
| Change in Gross Margin/head (£) | | |
| 10 p/kg in dwt sale price | 36 | 34 |
| 10 p/kg in lwt purchase price | 42 | 38 |
| Not bedded on straw | 30 | 24 |
| £10/t in straw price | 4 | - |

Beef Cattle Summer Finishing

PHYSICAL DATA

| | Steer (Housed) | Heifer (At Grass) |
|--|--------------------------|-----------------------------|
| Liveweight at purchase (kg) | 450 | 420 |
| Liveweight at slaughter (kg lwt) | 650 | 590 |
| (kg dwt) | 357 | 318 |
| Cattle bought | mid-April | mid-April |
| Cattle sold | mid-September | mid-September |
| Mortality (%) | 0.15 | 0.15 |
| Finishing period (days) | 133 | 154 |
| Liveweight gain (kg) | 200 | 170 |
| Daily liveweight gain (kg) | 1.5 | 1.1 |
| Supplementary feed: | | |
| barley, proteins & minerals (kg) | 1700 | 250 |
| Straw fed in house (t) ME 6.5 MJ/kg DM | 0.24 | |
| Grazing area (ha) | 0.00 | 0.20 |
| Grazing fertiliser N (kg/ha) | | 175 |
| Feed levels per day: | | |
| first 8 weeks (kg) | | 0 |
| next 6 weeks (kg) | | 2 |
| next 4 weeks (kg) | | 3 |
| last 2 weeks* (kg) | | 4 |

Housing system: Straw bedding assumed*

Straw bedding (t)** 0.3

* Amend bedding costs if on slurry based systems.

** Based on home-grown straw, adjust if bought-in.

* Feed at this level to finish by mid-September. Many will house by this time if finishing later.

Assumptions:

In practice, a proportion of the following cattle may be sold as forward stores or housed for autumn finishing at heavier weights. If so, additional concentrate feeding will be required.

Beef Cattle Summer Finishing

GROSS MARGIN DATA

| OUTPUT | Steer £/head | Heifer £/head |
|--|--|------------------|
| Sale value (dwt): | | |
| 357 kg @ 580 p (650 kg lwt) | 2,071 | - |
| 318 kg @ 580 p (590 kg lwt) | - | 1,844 |
| Less: Purchased store calf in April (lwt): | | |
| 450 kg @ 385 p | 1,733 | |
| 420 kg @ 375 p | - | 1575 |
| | <u>338</u> | <u>269</u> |
| VARIABLE COSTS | | |
| Barley, protein & minerals @ £240/t | 408 | 60 |
| Feeding straw @ £120/t (home-grown) | 29 | |
| Bedding straw @ £120/t (home-grown) | 36 | |
| Vet & medicines | 19 | 19 |
| Commission, levies & haulage | 113 | 105 |
| | <u>605</u> | <u>184</u> |
| Gross Margin before forage | <u>-267</u> | <u>85</u> |
| Forage variable costs: | | |
| grazing @ £255/ha | 0 | 51 |
| Total Variable costs | <u>605</u> | <u>235</u> |
| GROSS MARGIN £/head | <u>-267</u> | <u>34</u> |
| GROSS MARGIN £/ha (acre) | <u>-</u> | <u>172 (70)</u> |
| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
| 10 p/kg in dwt sale price | 35 | 32 |
| 10 p/kg in lwt purchase price | 45 | 42 |

Calf Rearing Costs to 3 Months

PHYSICAL DATA

| | Bucket fed | <i>Ad-lib</i> fed |
|----------------------------------|-------------------|--------------------------|
| Liveweight (kg): at birth | 40 | 40 |
| at sale, 3 months | 110 | 115 |
| Liveweight gain (kg/day) | 0.78 | 0.83 |
| Feeding period (days) | 90 | 90 |
| Mortality (%) | 5 | 4 |
| | kg | kg |
| Feeding*: Milk substitute | 28 | 42 |
| Calf concentrates | 160 | 150 |
| Hay | 35 | 30 |
| Bedding (straw) | 0.2 | 0.2 |

- * Homebred calves receive colostrum followed by whole milk up to 10 days of age.

Calf Rearing Costs to 3 Months

VARIABLE COST DATA

| | Bucket fed | Ad-lib |
|-------------------------------------|------------|-----------|
| VARIABLE COSTS | | |
| Feed: | | |
| milk substitute @ £2300/t | 64 | 97 |
| calf concentrate @ £350/t | 56 | 53 |
| hay (purchased) @ £105/t | 4 | 3 |
| | <hr/> 124 | <hr/> 153 |
| Vet & medicines & tags | 25 | 25 |
| Bedding straw @ £120/t (home-grown) | 24 | 24 |
| | <hr/> 49 | <hr/> 49 |
| Total Variable Costs | <hr/> 173 | <hr/> 202 |

| Sensitivity-Change ± | Change in costs/head (£) | |
|---------------------------------|--------------------------|------|
| £100/t in milk substitute price | 2.80 | 4.20 |
| £10/t in calf concentrate price | 1.60 | 1.50 |

Assumptions:

1. Dairy calves do not receive SSBSS payments – eligible calves have to be 75% beef genetics.
2. Adjust straw cost if bought-in.

Intensive Finishing of Dairy Bred Bulls

PHYSICAL DATA

| | Dairy Sire | Beef Sire |
|---|------------|-----------|
| Breed | | |
| Liveweight at start (kg) | 120 | 120 |
| Feeding period (days) | 450 | 400 |
| Liveweight at slaughter (kg lwt) | 570 | 620 |
| Deadweight at slaughter (kg dwt) | 296 | 322 |
| Killing out percentage (%) | 52 | 52 |
| Overall daily liveweight gain (kg/day) | 1.0 | 1.25 |
| Mortality (%) | 2 | 2 |
| Feeding ¹ : | | |
| 110-120 kg liveweight/purchase to slaughter: | | |
| concentrates at grass (t) | 0.2 | 0.2 |
| barley/protein/minerals in house (t) | 1.60 | 1.70 |
| straw (t) | 0.10 | 0.14 |
| silage (t) | 1.8 | 1.8 |
| Silage area (ha) | 0.15 | 0.2 |
| Silage: Yield (t) | 31 | 31 |
| DM quality (g/kg) | 300 | 300 |
| ME quality (MJ/kg DM) | 10.5 | 10.5 |
| Silage fertiliser (kg N/ha) | 220 | 220.0 |
| Housing system: Straw bedding assumed ² . | | |
| Straw bedding ³ (t) | 0.3 | 0.6 |
| grazing area (ha) | 0.46 | 0.46 |
| grazing fertiliser (N) | 125 | 125 |

¹ For home bred calves see '*Calf rearing costs to 3 months*' (pages 172-173) for cost of feeding to 12-14 weeks (or 110-115kg lwt).

² If housed on slurry based systems omit bedding costs.

³ Adjust straw cost if bought-in.

Intensive Finishing of Dairy Bred Bulls

GROSS MARGIN DATA

| | Dairy Sire | Beef Sire |
|--|--|--------------|
| OUTPUT | £/head | £/head |
| Sale value (dwt - adj 3% mortality): | | |
| 296 kg @ 500 p | 1,436 | - |
| 322 kg @ 550 p | - | 1,718 |
| <i>Less: Calf purchase (3 months):</i> | | |
| @ £550 | 550 | - |
| @ £550 | - | 550 |
| | <u>886</u> | <u>1,168</u> |
| VARIABLE COSTS | | |
| Concentrates @ £250/t | 400 | 425 |
| Feeding straw @ £120/t (home-grown) | 12 | 17 |
| Bedding straw @ £120/t (home-grown) | 36 | 72 |
| Vet & medicines | 21 | 21 |
| Commission, haulage & levies, etc. | 90 | 100 |
| Total Variable costs | <u>559</u> | <u>635</u> |
| GROSS MARGIN £/head (before forage) | <u>327</u> | <u>533</u> |
| Forage variable costs: | | |
| Silage @ £327/ha | 49 | 65 |
| Grazing @ £193/ha | 89 | 89 |
| Total Variable costs | <u>697</u> | <u>789</u> |
| GROSS MARGIN £/head | <u>189</u> | <u>379</u> |
| Sensitivity-Change ± | Change in Gross Margin/head (£) | |
| £10/t in concentrate price | 16 | 17 |
| 10 p/kg in dwt sale price | 28 | 31 |

Forage Based Finishing Dairy Steers at 24 Months

PHYSICAL DATA

| | Beef |
|---|-------|
| Breed | Cross |
| Liveweight at start (kg) ¹ | 120 |
| Feeding period (days) | 659 |
| Liveweight at slaughter (kg lwt) | 632 |
| Deadweight at slaughter (kg dwt) | 316 |
| Killing out percentage (%) | 50 |
| Overall daily liveweight gain (kg/day) | 0.8 |
| Mortality (%) | 3 |
| Feeding: | |
| 110-125 kg liveweight/purchase to slaughter: | |
| concentrates (2nd stage calf mix) (t) | 0.15 |
| concentrates (barley/protein/minerals) (t) | 0.68 |
| silage (t) - over two housing periods | 6.4 |
| Grazing area - over two summers (ha) | 0.42 |
| Silage area - for two housing periods (ha) | 0.32 |
| Silage: | |
| yield | 20 |
| DM quality (g/kg) | 300 |
| ME quality (MJ/kg DM) | 10.5 |
| Silage fertiliser (kg N/ha) | 125 |
| Housing system: Straw bedding assumed ² . | |
| Straw bedding ³ (t) | 0.0 |

¹ For home bred calves see '*Calf rearing costs to 3 months*' (pages 172-173) for cost of feeding to 12-14 weeks (or 110-115kg lwt).

² If housed on slurry based systems omit bedding costs.

³ Adjust straw cost if bought-in.

Forage Based Finishing Dairy Steers at 24 Months

GROSS MARGIN DATA

| | Beef Cross ³ £/head |
|---------------------------------------|--|
| OUTPUT | |
| Sale value (dwt - adj 3% mortality): | |
| 316 kg @ 560 p | 1,717 |
| Less: Calf purchase: | |
| @ £550 | 550 |
| | <u>1,167</u> |
| VARIABLE COSTS | |
| Concentrate calf mix @ £325/t | 38 |
| Concentrate barley blend @ £250/t | 170 |
| Bedding straw @ £120/t (home grown) | - |
| Vet & medicines | 37 |
| Commission, haulage & levies, etc. | 100 |
| Total Variable costs | <u>345</u> |
| Gross Margin before forage | <u>822</u> |
| Forage variable costs: | |
| silage @ £211/ha | 68 |
| grazing @ £193/ha | 81 |
| | <u>149</u> |
| Total Variable costs | <u>494</u> |
| GROSS MARGIN £/head ¹ | <u>673</u> |
| GROSS MARGIN £/ha (acre) ² | <u>455</u> |
| Sensitivity-Change ± | Change in Gross Margin/head (£) (184) |
| £10/t in concentrate price | 7 |
| 10 p/kg in dwt sale price | 30 |

* Unlike other beef finishing enterprises featured in the Farm

¹ Unlike other beef finishing enterprises featured in the Farm Management Handbook, spanning over two years effectively incurs double the fixed cost share, which is not included above.

² This enterprise produces a strong gross margin per head but the extensive nature of this enterprise dilutes its return per hectare.