

# GRAINS

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# BARLEY

Feed barley produced in the UK has been grown for this purpose. Produced as a major cereal component in beef and dairy diets, barley is well recognised as an excellent energy source for ruminants providing high levels of starch to stimulate production. Available as a whole grain or rolled.

## Nutritional Benefit

Ideal as a ruminant and non-ruminant feed. Ruminants benefit from it being high in energy, in the form of starch, making it highly fermentable, encouraging milk protein and fast growth. It is also useful in pig and poultry diets.

## Features

- 63Kg/Hl bushel weight.
- High starch level and high energy, low in fibre and protein.
- Risk of acidosis when high levels of barley introduced quickly.
- Preferred to wheat in intensive beef feed systems.
- High rate of live weight gain.
- Increased milk yields and milk protein output.
- New crop barley can require gradual introduction in certain diets.

## Typical Analysis

|                                |                        |
|--------------------------------|------------------------|
| • <i>Dry Matter</i> – 86.0%    | • <i>Sugars</i> – 2.5% |
| • <i>Crude Protein</i> – 12.3% | • <i>NDF</i> – 23.1%   |
| • <i>MER 13.2 MJ/Kg</i>        | • <i>Oil AH</i> – 3.0% |
| • <i>Starch</i> – 57.0%        |                        |

## Daily Feed Rates

|                   |                             |
|-------------------|-----------------------------|
| <i>Dairy Cows</i> | <i>Up to 5kg/head/day</i>   |
| <i>Beef</i>       | <i>Up to 85% of the DMI</i> |
| <i>Ewes</i>       | <i>Up to 0.7kg/head/day</i> |

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## MAIZE

A highly palatable feed providing a rich source of energy, from digestible fibre plus oil, and protein. Available as a whole grain or rolled.

### Nutritional Benefit

The highest energy of most cereals, containing twice the oil of wheat and barley.

### Features

- Flaked, cracked, rolled, microside, sploded or ground before feeding, these processes improve the digestibility maximum of 85%.
- A ready source of fermentable energy and protein.
- Minimises risk of acidosis.
- Suitable for all classes of ruminants.
- Improves fertility by reducing loss of body condition in early lactation.

### Typical Analysis

|                               |                        |
|-------------------------------|------------------------|
| • <i>Dry Matter</i> – 86.0%   | • <i>Sugars</i> – 2.0% |
| • <i>Crude Protein</i> – 9.6% | • <i>NDF</i> – 14.5%   |
| • <i>MER 14.5 MJ/Kg</i>       | • <i>Oil AH</i> – 4.4% |
| • <i>Starch</i> – 68.0%       |                        |

### Daily Feed Rates

|                             |   |
|-----------------------------|---|
| <i>Milking Cows</i>         | <i>Up to 8 (typically 5)kg</i>                    |
| <i>Dry Cows</i>             | <i>Up to 4kg</i>                                  |
| <i>Replacement Heifers</i>  | <i>Up to 5 kg and up to 15% of the DMI</i>        |
| <i>Calves (to 12 weeks)</i> | <i>Up to 5 kg and up to 30% of the DMI</i>        |
| <i>Growing Cattle</i>       | <i>Can be fed ad lib and up to 25% of the DMI</i> |
| <i>Finishing Cattle</i>     | <i>Can be fed ad lib and up to 25% of the DMI</i> |
| <i>Suckler Cows</i>         | <i>Up to 6 (typically 4)kg</i>                    |
| <i>Ewes and Rams</i>        | <i>Up to 2.5 (typically 1.5)kg</i>                |
| <i>Hoggets and Lambs</i>    | <i>Up to 15% of the DMI</i>                       |

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# WHEAT

Wheat is an excellent energy source for ruminants providing high levels of starch to stimulate milk production. Feed wheat produced in the UK has been grown for this purpose, although varieties for bread or biscuit making that failed to make the grade are also suitable. Available as a whole grain or rolled.

## Nutritional Benefit

It is useful for increasing milk protein yields and for the promotion of growth.

## Features

- 72Kg/HI bushel weight.
- Very high starch level, but very low in fibre.
- Feed coarsely rolled and not ground finely to avoid acidosis in ruminants or consider a treated product.
- Increases milk yield and milk protein output.
- We source homegrown wheat to produce our unique product, Ultra Starch-W, which provides a consistent source of high-quality bypass starch with a higher gluco-TN value.

## Typical Analysis

|                                |                        |
|--------------------------------|------------------------|
| • <i>Dry Matter</i> – 86.0%    | • <i>Sugars</i> – 4.0% |
| • <i>Crude Protein</i> – 13.0% | • <i>NDF</i> – 12.0%   |
| • <i>MER</i> 13.8 MJ/Kg        | • <i>Oil AH</i> – 2.0% |
| • <i>Starch</i> – 67.0%        |                        |

## Daily Feed Rates

|                   |                             |
|-------------------|-----------------------------|
| <i>Dairy Cows</i> | <i>Up to 5kg/head/day</i>   |
| <i>Beef</i>       | <i>Up to 40% of the DMI</i> |
| <i>Ewes</i>       | <i>Up to 0.5kg/head/day</i> |

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