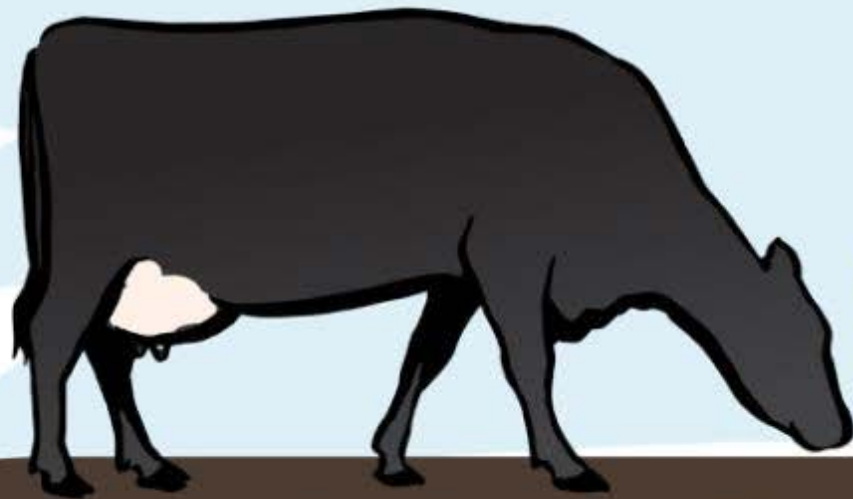




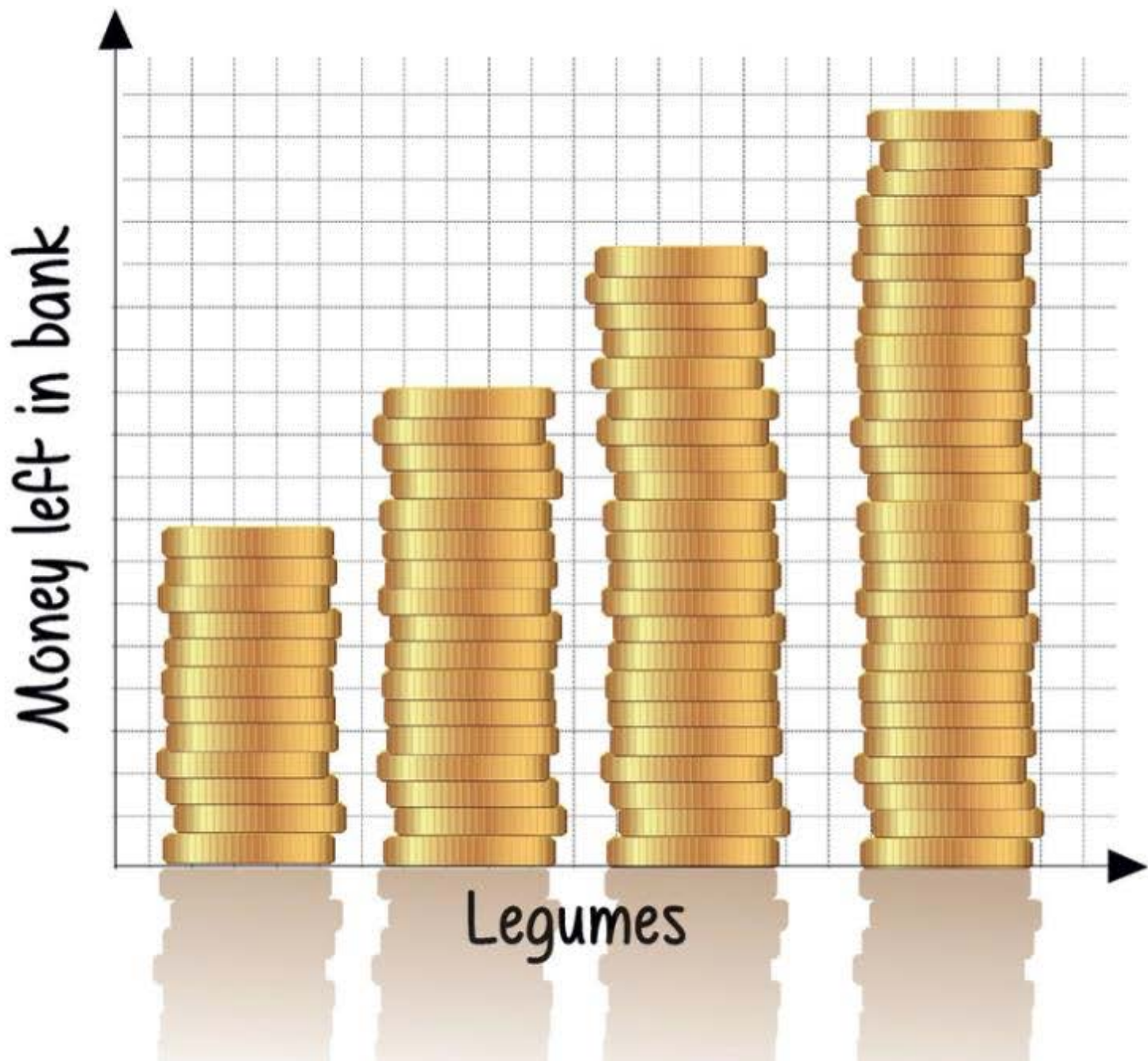
THE FUTURE WITH DIVERSE HERBAL LEYS

IAN WILKINSON

COTSWOLD
Grass Seeds
— DIRECT —

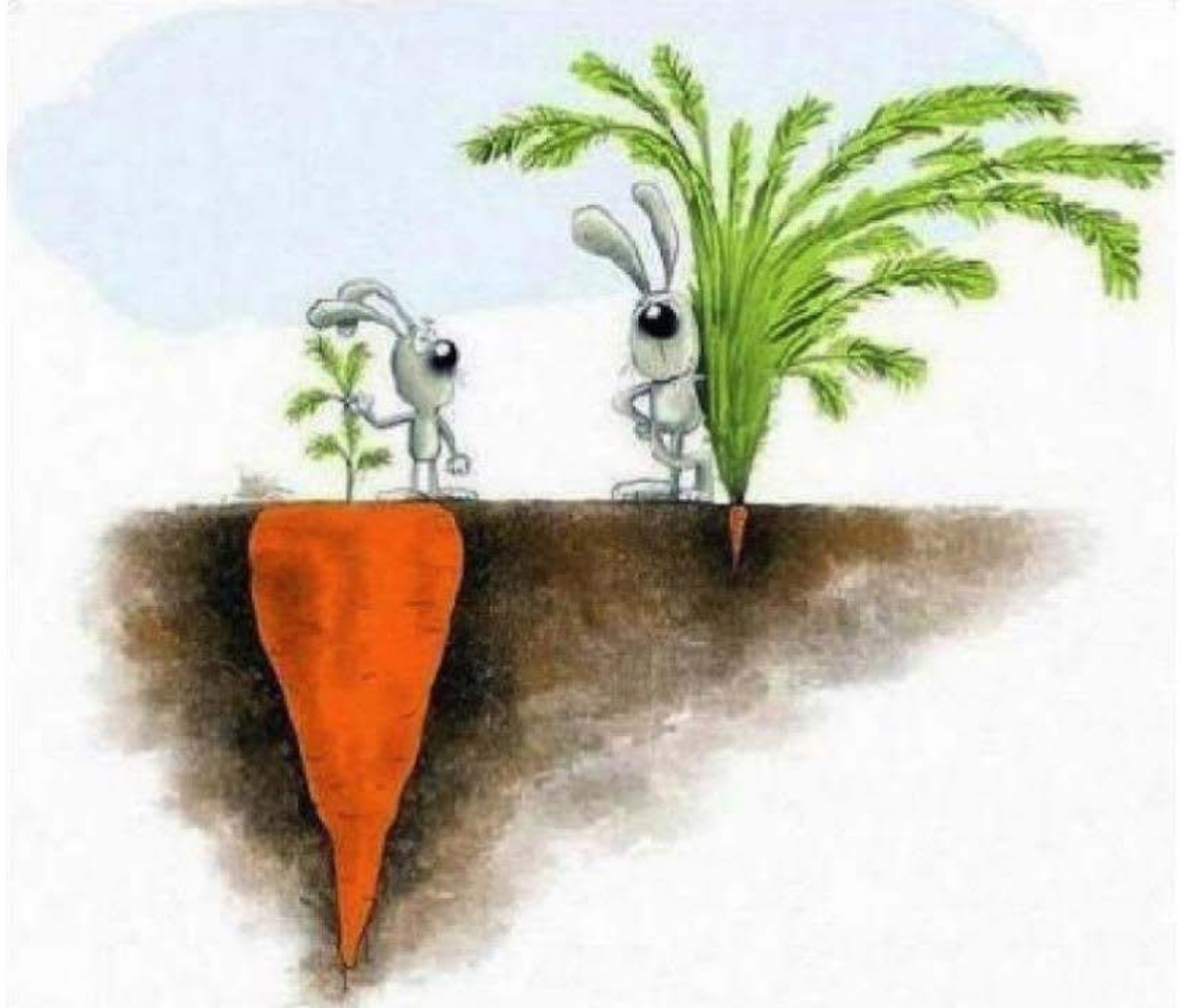








Fertile Soil



Can One Single Species
Provide Everything?

Can One Single Species Provide Everything?

Pollen & Nectar

Carbon capture

Competition against weeds

Persistence

Seasonal growth

N fix

Yield

Forage

Resist pests

Drought resistance

Easy to establish

Minerals

Tolerance of soil types

Soil structure

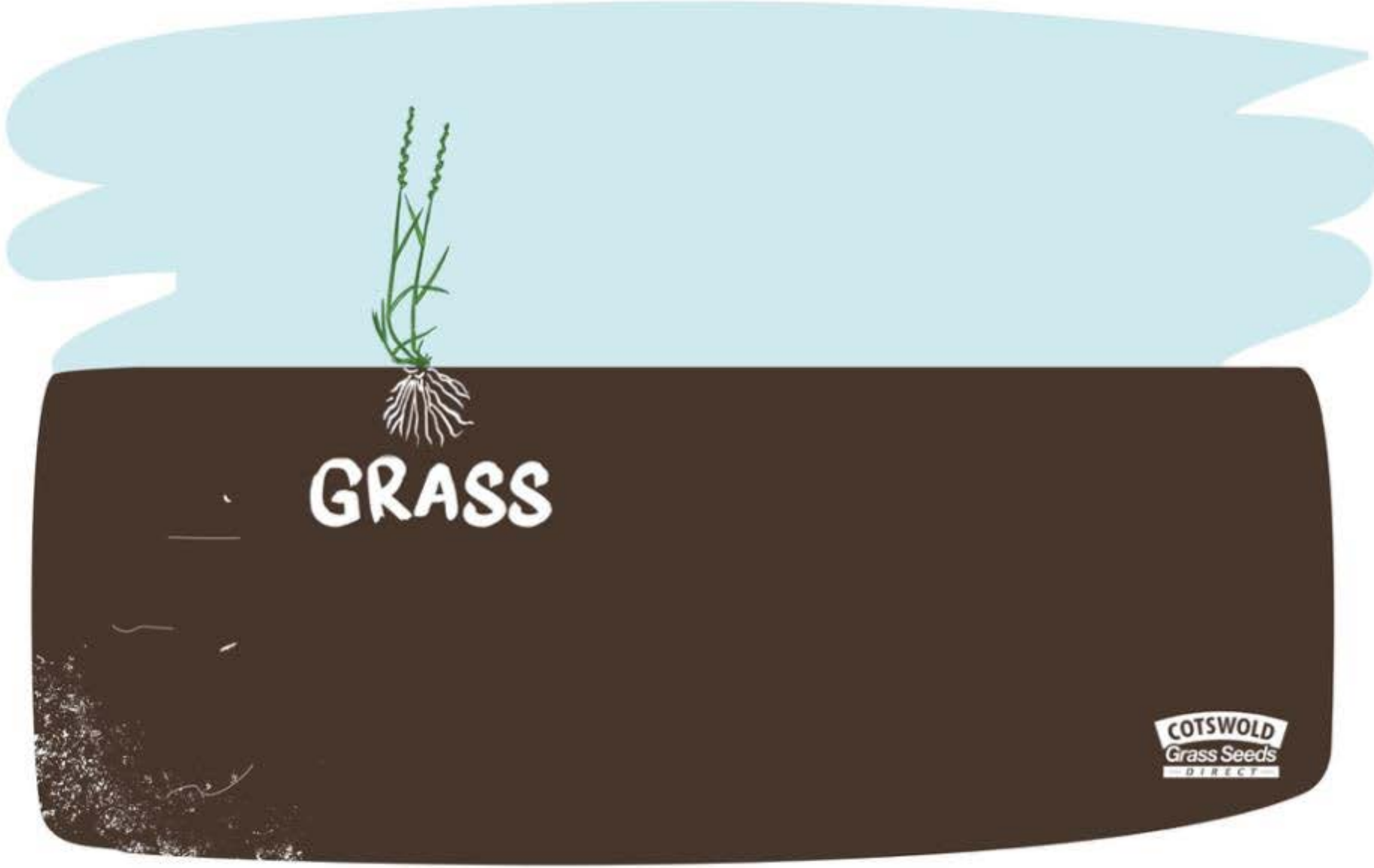
Anthelmintic

Grazability

Protein source

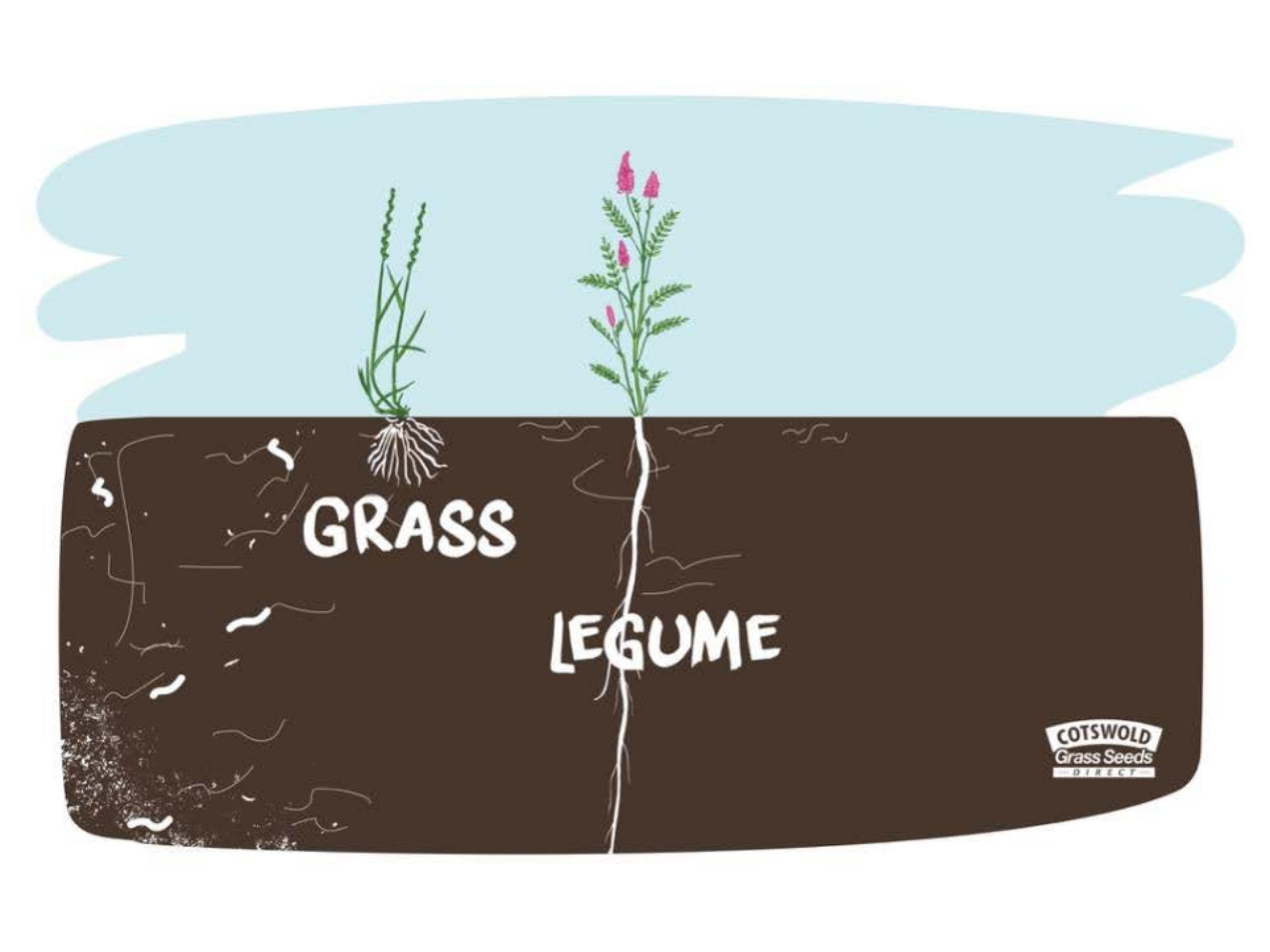
Palatable

Winter hardiness



GRASS

COTSWOLD
Grass Seeds
DIRECT



The illustration shows a cross-section of the ground with a light blue sky above. On the left, a grass plant with green blades and a fibrous root system is shown. On the right, a legume plant with green trifoliate leaves and pink flowers is shown, featuring a single taproot. The soil is dark brown and contains several white, worm-like shapes representing earthworms. The word 'GRASS' is written in large white letters near the grass plant, and 'LEGUME' is written in large white letters near the legume plant. In the bottom right corner, there is a logo for 'COTSWOLD Grass Seeds DIRECT'.

GRASS

LEGUME

COTSWOLD
Grass Seeds
DIRECT



A diagram showing three types of plant root systems in a cross-section of soil. The soil is dark brown, and the sky above is light blue. The first plant on the left is a grass with a dense, fibrous root system. The middle plant is a legume with a single, thick taproot. The third plant on the right is a herb with a taproot and a cluster of fine roots at the base. The labels 'GRASS', 'LEGUME', and 'HERB' are written in large, white, bold letters next to their respective root systems.

GRASS

LEGUME

HERB

COTSWOLD
Grass Seeds
DIRECT



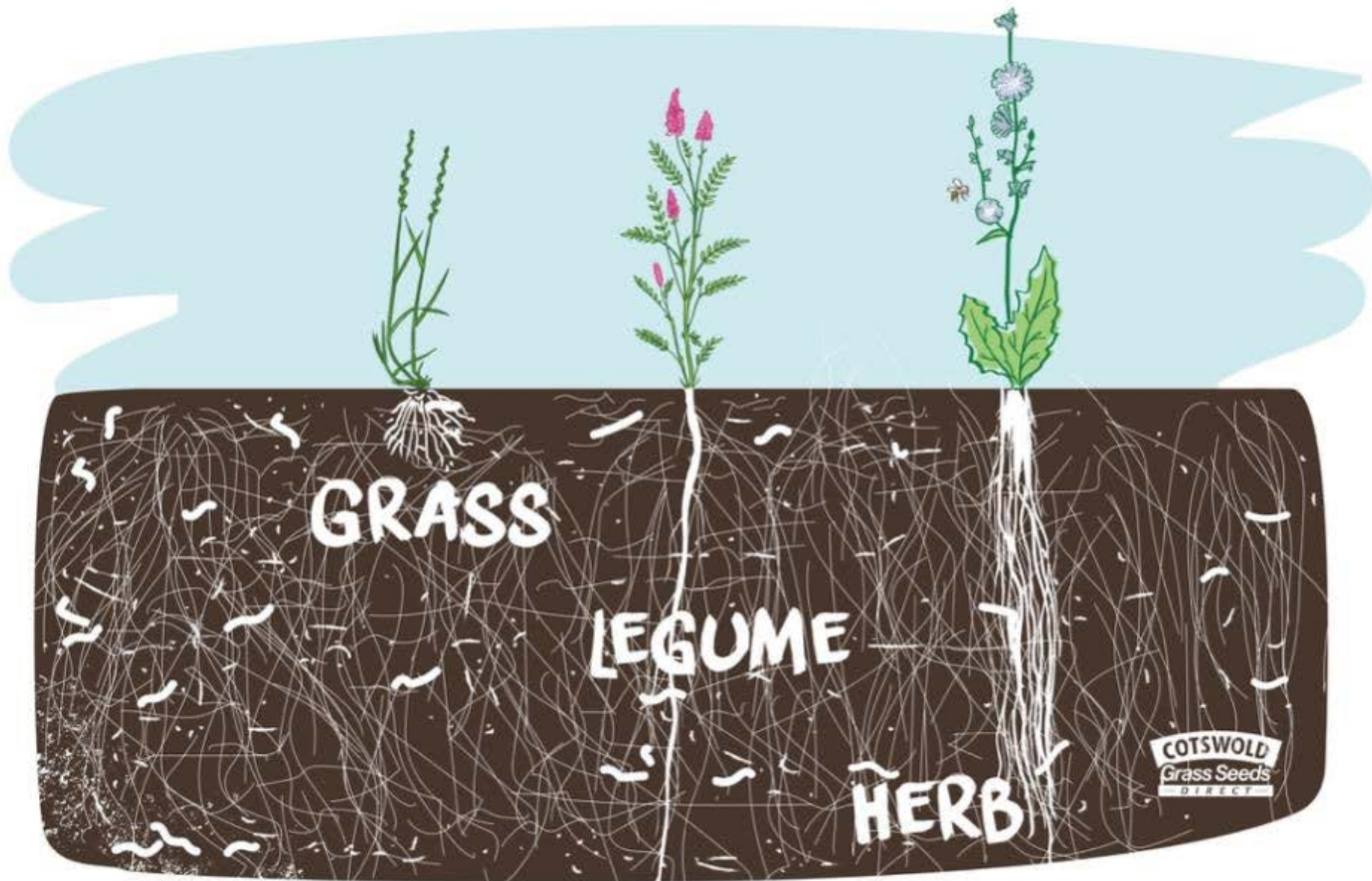
A diagram showing three types of plants (Grass, Legume, and Herb) growing in a cross-section of soil. The soil is dark brown and contains many thin, light-colored roots. The Grass plant has a dense, fibrous root system. The Legume plant has a single, thick taproot. The Herb plant has a dense, fibrous root system. The background is a light blue sky.

GRASS

LEGUME

HERB

COTSWOLD
Grass Seeds
DIRECT

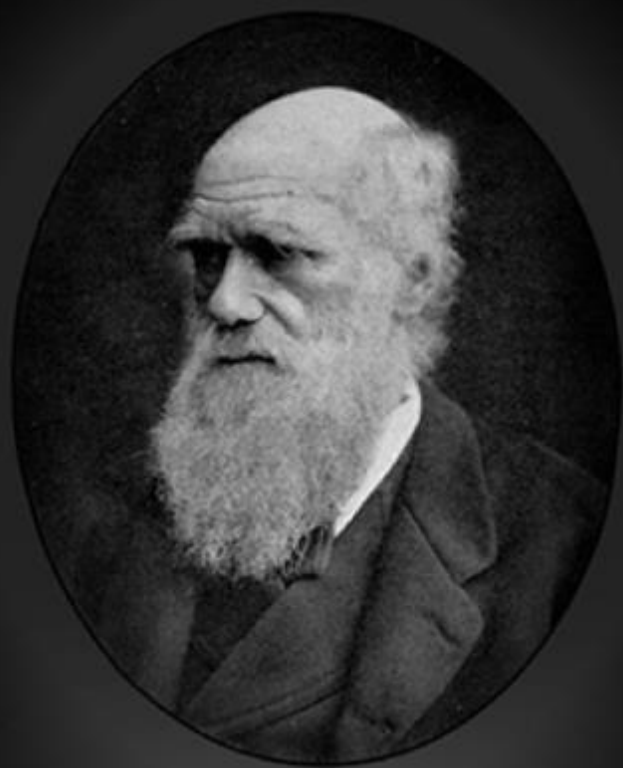


GRASS

LEGUME

HERB

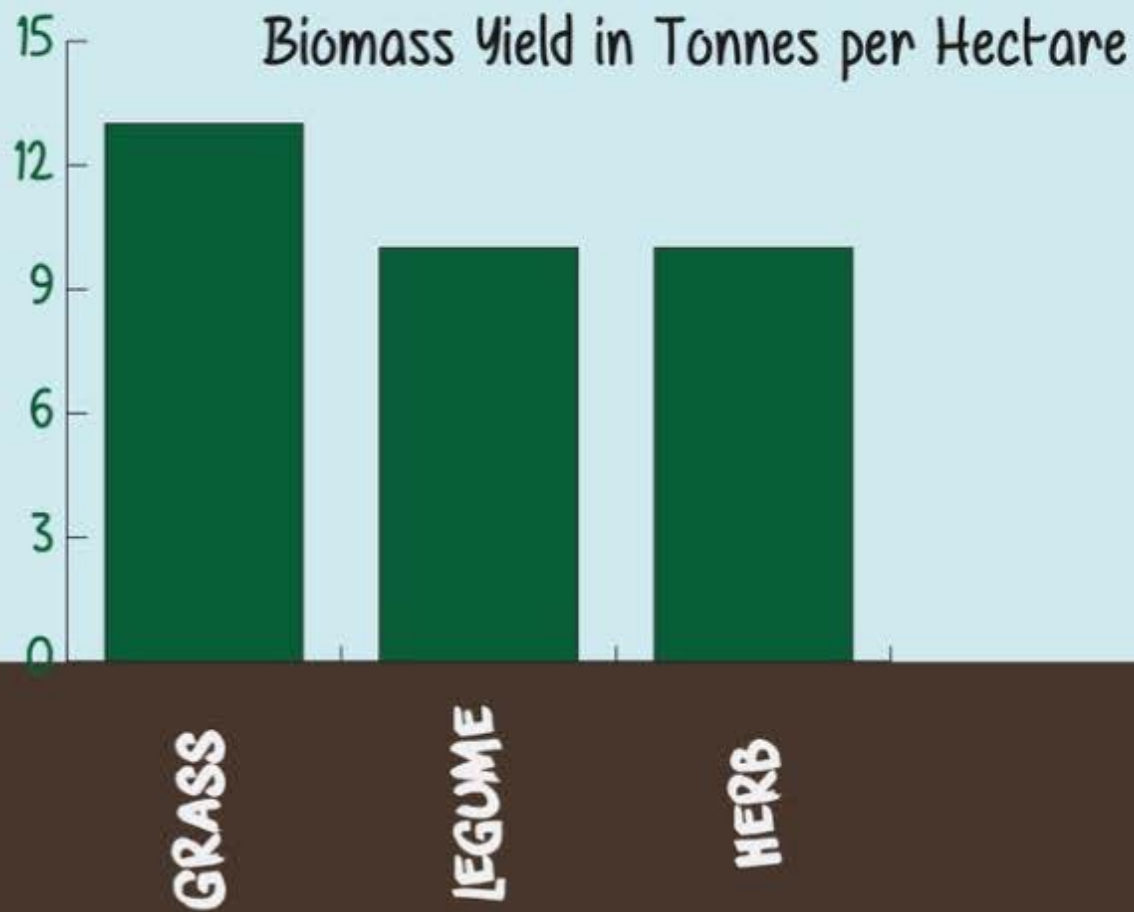
COTSWOLD
Grass Seeds
DIRECT



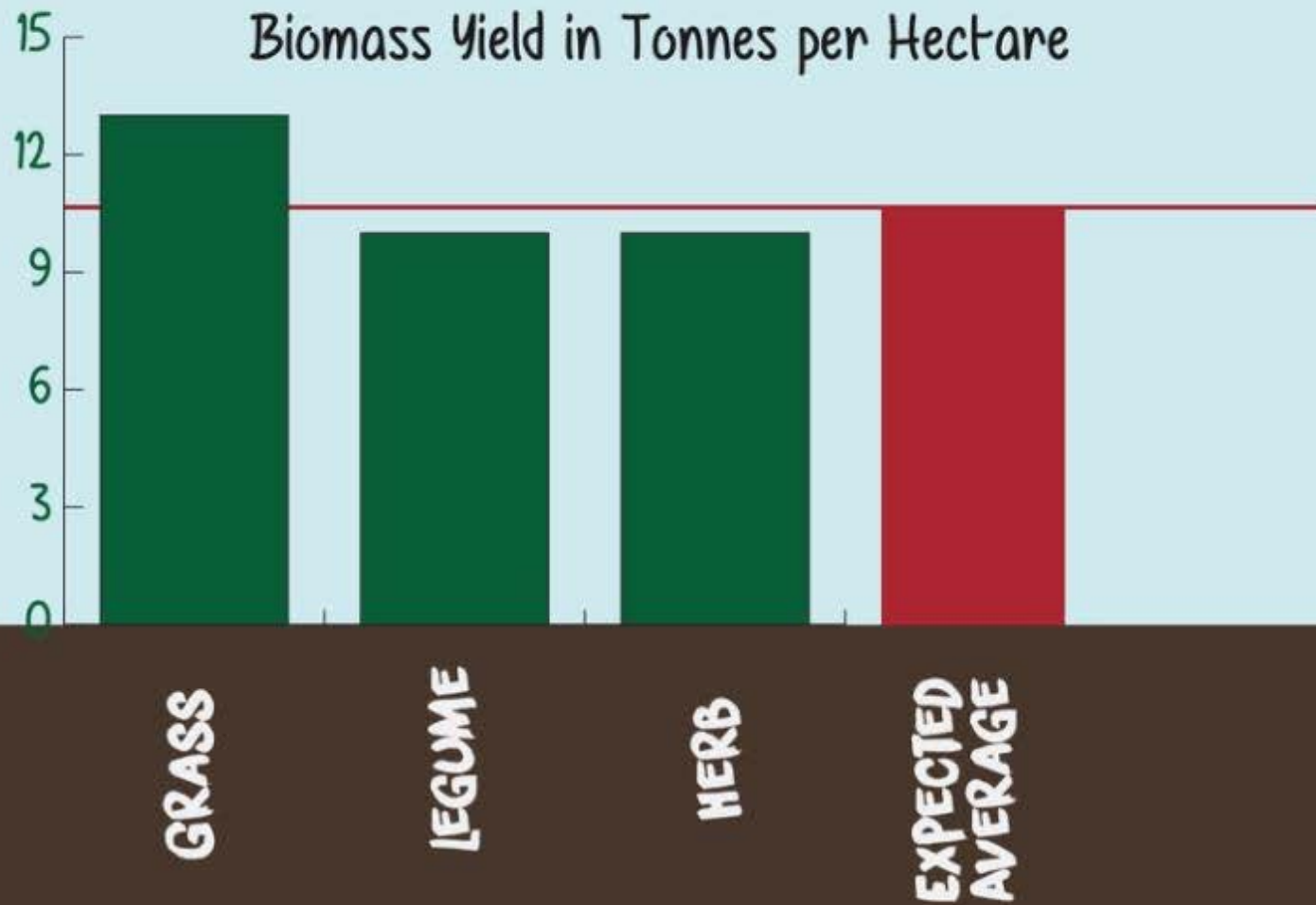
Charles Darwin

1809 - 1882

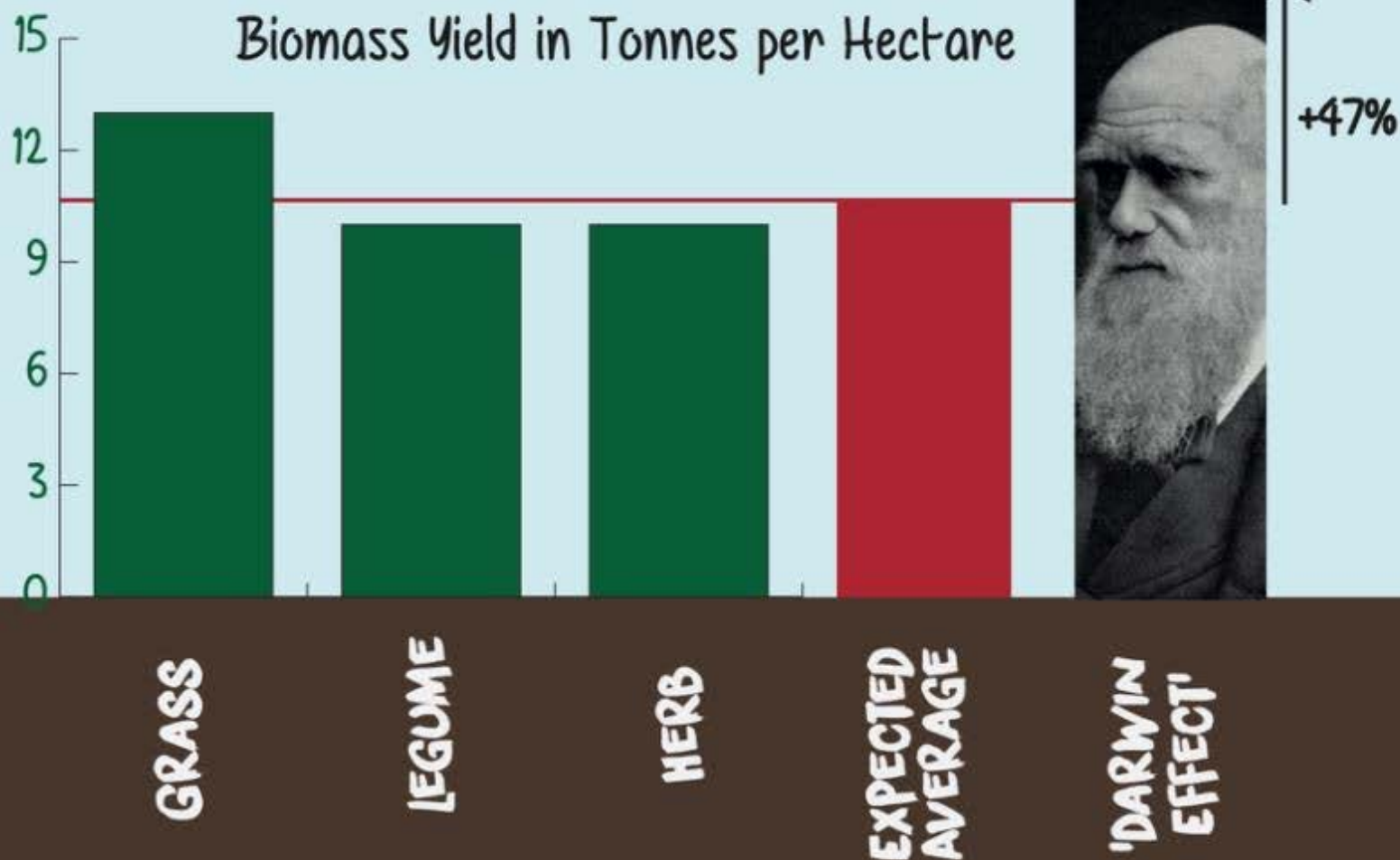
Biomass Yield in Tonnes per Hectare



Biomass Yield in Tonnes per Hectare



Biomass Yield in Tonnes per Hectare



A close-up photograph of a cow's head and neck, partially obscured by a dense field of green grass and various wildflowers, including blue and pink blossoms. The cow has a white patch on its neck and a yellow identification tag on its ear with the number 101387. The text "Healthy Livestock" is overlaid in white, bold, sans-serif font across the lower half of the image.

Healthy Livestock

Red Clover with L.D. Edwards, Beef & Sheep Farmer

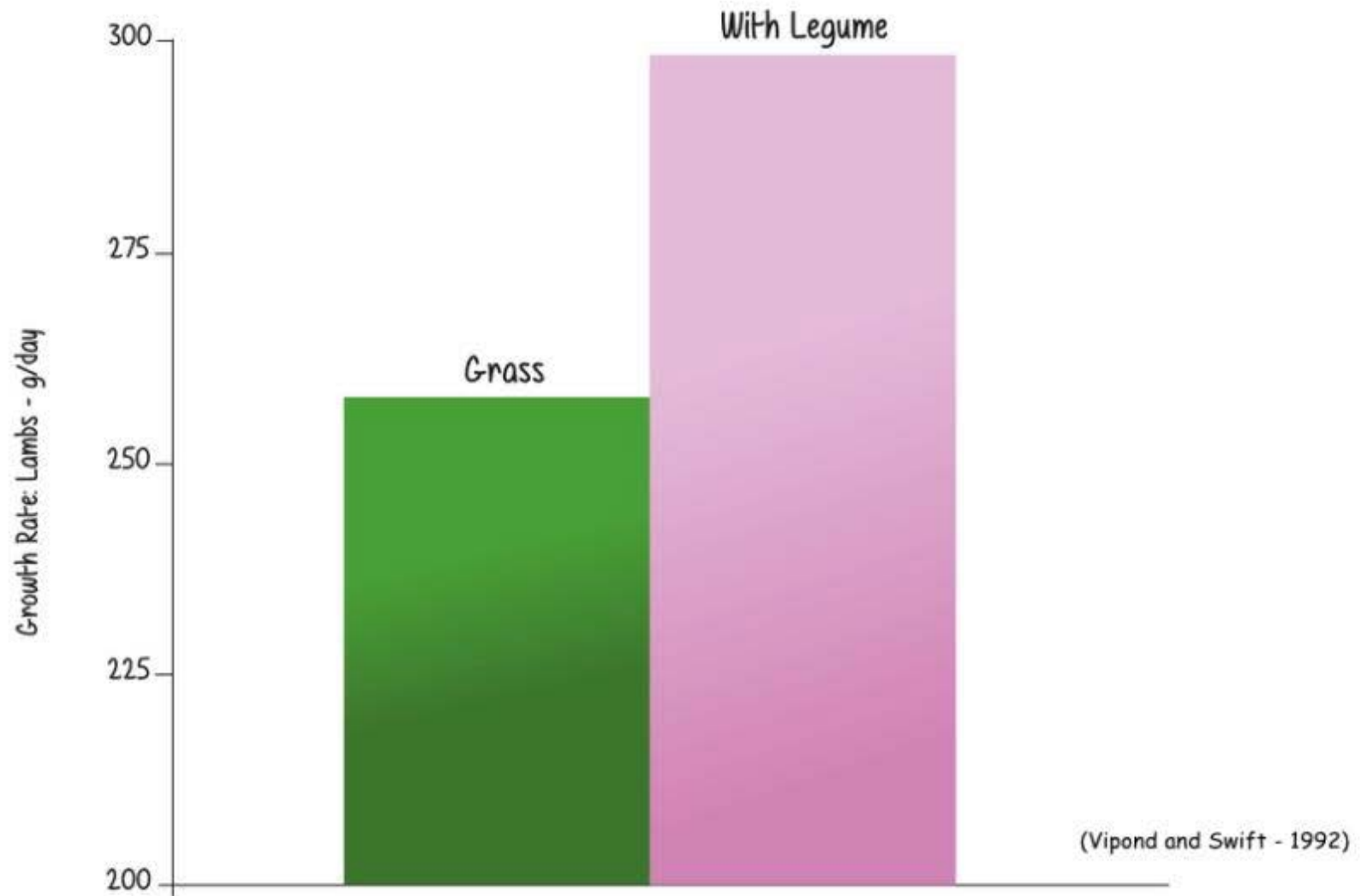
I hardly use any
concentrate...



Sainfoin with Henry Edmunds, Salisbury



Liveweight Gain

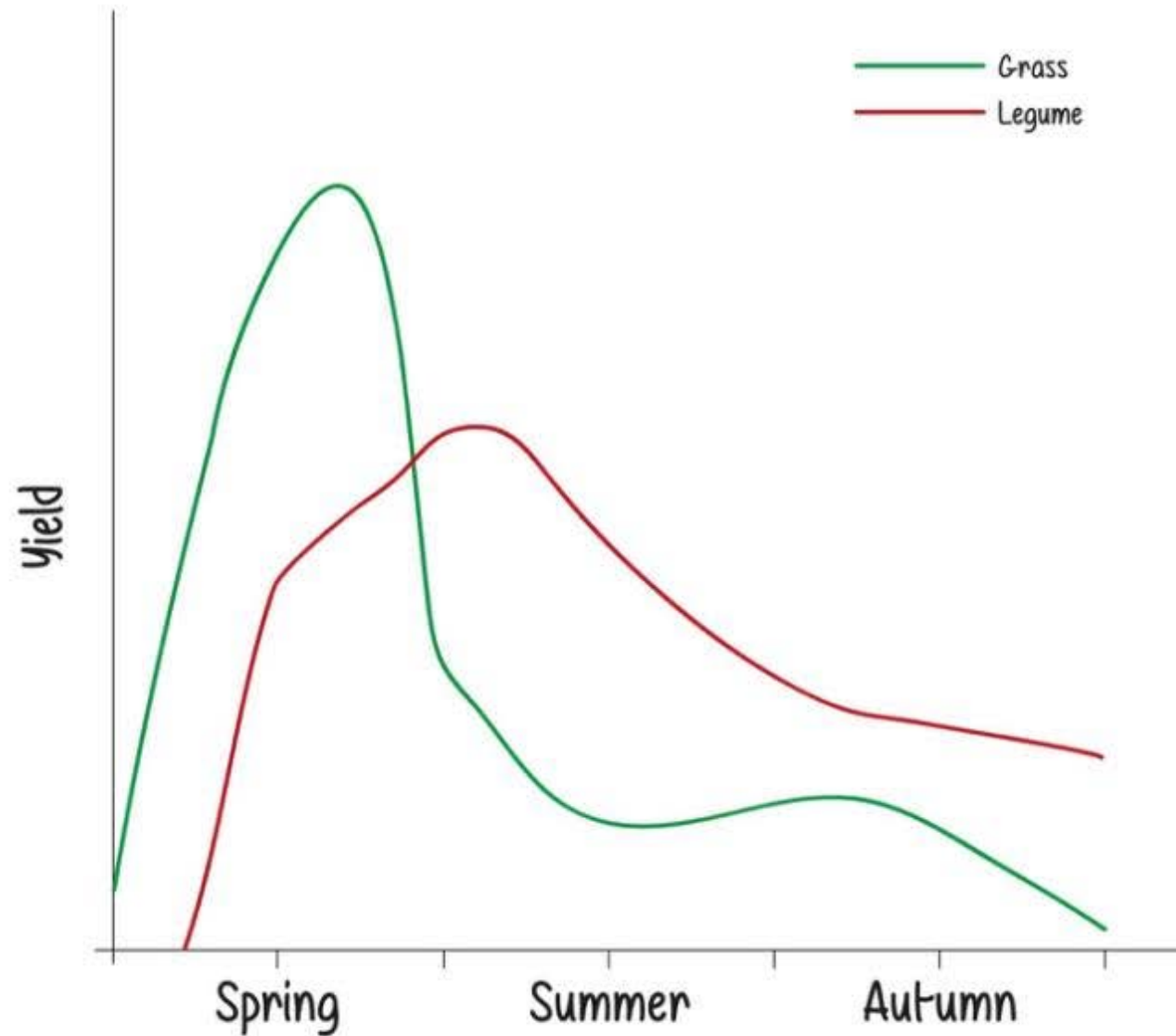


UK farmers spend £80million on wormers each year!

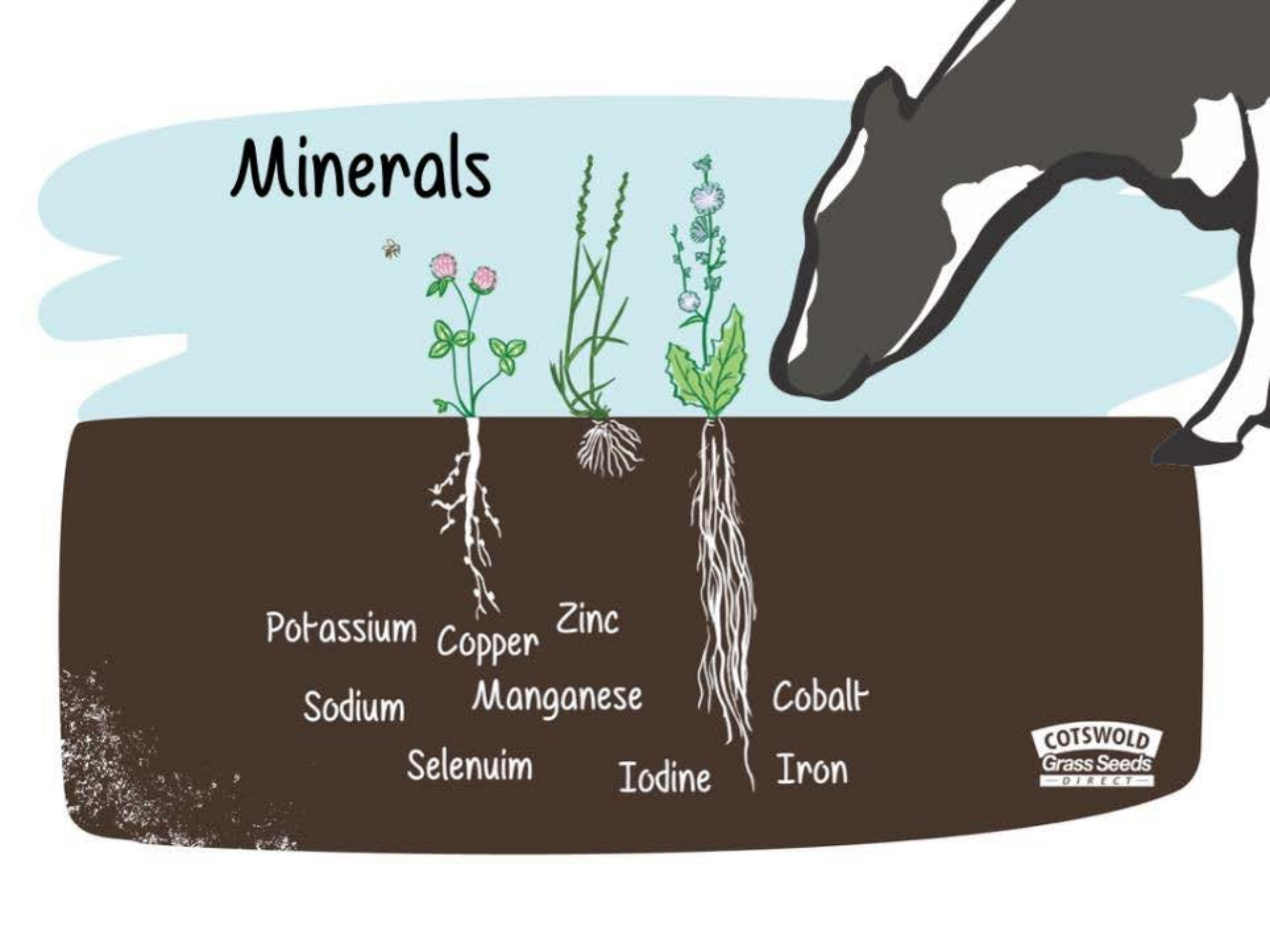


...bioactive plants are an alternative

Seasonal Growth



Minerals



The diagram illustrates a cow grazing on three different types of plants. The plants have roots extending into a dark brown soil layer. Various minerals are labeled within the soil, indicating their availability to the plants. A small insect is shown flying above the first plant on the left.

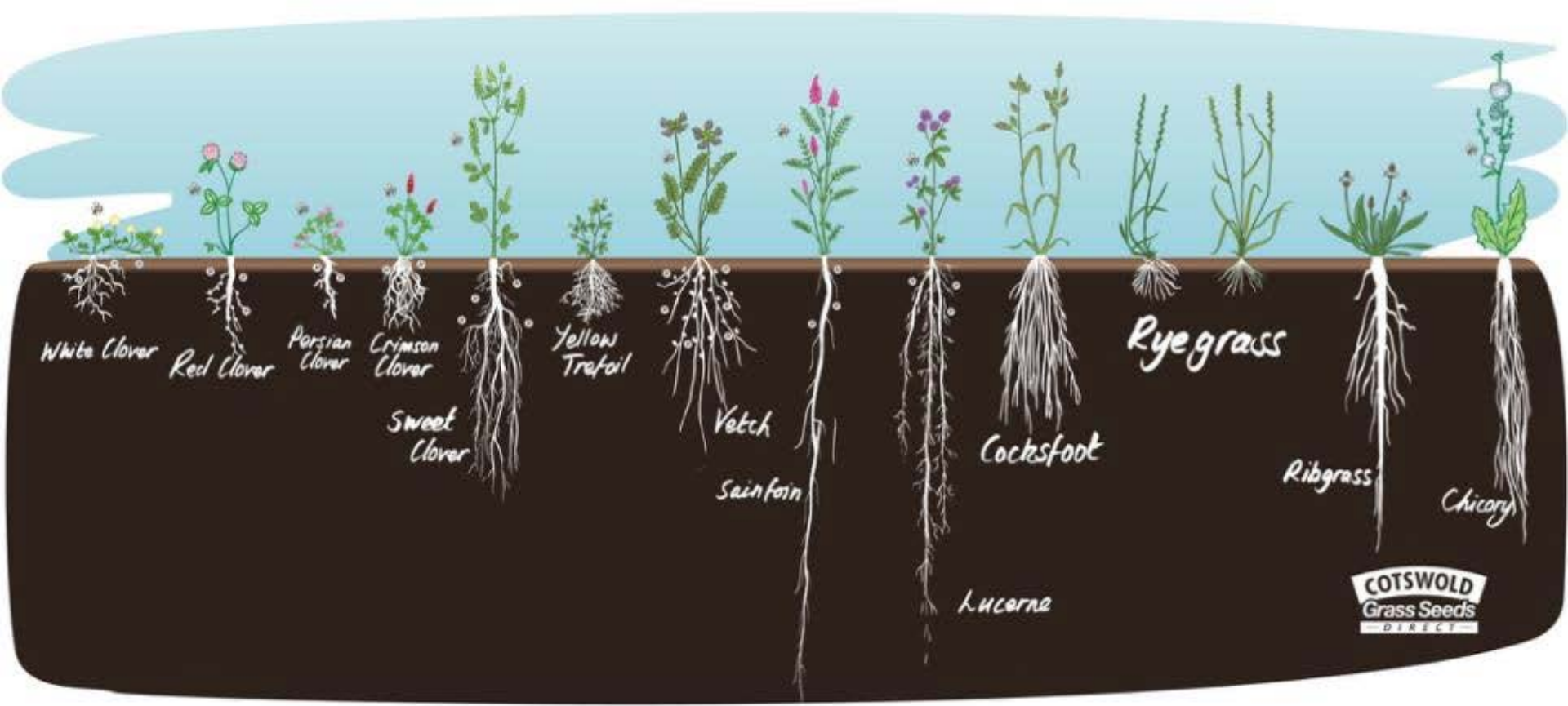
Potassium
Sodium
Copper
Manganese
Zinc
Selenium
Iodine
Cobalt
Iron

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—DIRECT—

Drought Resistance



Ryegrass



White Clover

Red Clover

Persian Clover

Crimson Clover

Sweet Clover

Yellow Trefoil

Vetch

Sainfoin

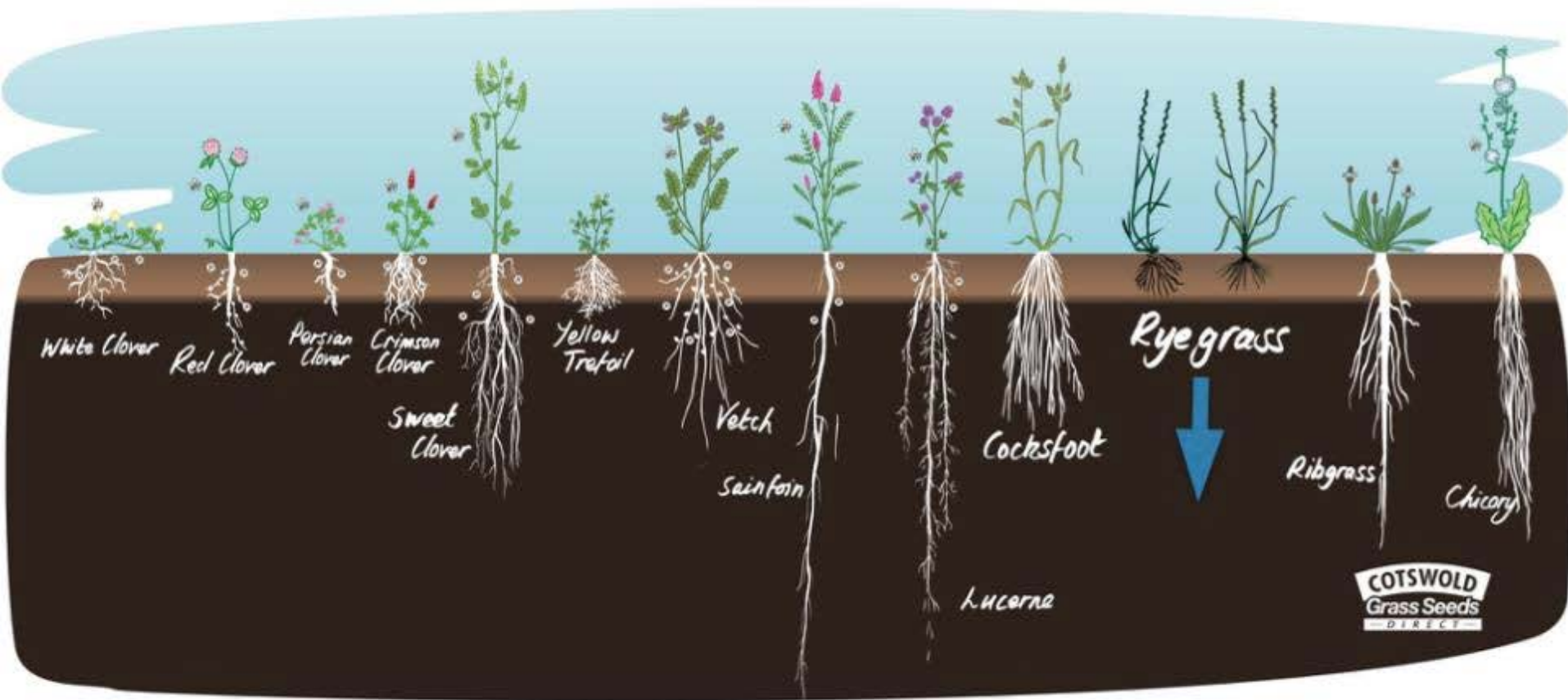
Lucerne

Cocksfoot

Ryegrass

Ribgrass

Chicory



...can't reach moisture

Money in the Bank

COTSWOLD
Honeydale
— FARM —

Cost of producing spring
barley on 60 acres = £11,000

Return = £10,936

Loss = £64!



Nitrogen fertiliser prices (£/tonne)



Nitrogen fertiliser prices (£/tonne)

300
250
200
150
100
50
0

£85

2000

£150

2005

£238

2010

£265

2015





ROBERT H. ELLIOT
of Clifton Park

Rob Richmond



Jonathan Boaz



Farmer Opinion Survey

[illegible]

Farmer Responses

- * Sainfoin growing farms
- + Sainfoin non-growing farms

■ Calcerous soil





Farmers said they want...

...faster establishment

longer lasting

higher yields

and MORE INFORMATION

THANK YOU



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