

FAINA INNOVATIONS LTD



HIGH QUALITY FODDER TREE SEEDS

Growing protein-rich tree crops for high
milk, meat and egg production



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High quality fodder tree seeds Certified seeds



Sesbania

Calliandra

leuceana



Why grow fodder tree crops (calliandra, leucina or sesbania)

1. To boost milk, meat and egg production
2. To reduce usage of commercial feeds
3. Easy and low cost of cultivation
4. Requires very small piece of land to cultivate
5. Perfect small - sized fodder trees for intercropping (Fixes nitrogen)
6. Drought resistance (suitable for arid, semi-arid and highlands zones)
7. Very high growth rate (**8-12** months to maturity)
8. High regeneration rate (can be re-harvested **4-6** times a year for **10-20** years)
9. Source of highly palatable and digestible feeds (up to **89%**)



A sustainable solution to high cost of milk meat and egg production in Kenya

Farmers in Kenya spend about **65%** of income from dairy or poultry farming towards purchase of commercial feeds. Commercial feeds are now the major constraint to smallholder competitiveness and the overall profitability of dairy and poultry industry in Kenya.

Quality commercial dairy feeds are mainly formulated to provide proteins, a major component of milk, meat and egg.

A dairy cow requires at least **16%** protein intake per every kilo of feed consumed to produce adequate milk. Unfortunately, Banana, maize and rice stoves which are commonly used as feeds by majority of small scale dairy farmers in Kenya can only provide about **2.5%** of protein per kg. Although nippier grass and grazing grass forages are important source of many nutrients for livestock, these feeds contain about **10%** proteins per kg which is not enough to meet the protein requirements for optimal milk production



to buy dairy commercial feeds. The fodder crops are also known to increase the live weight of most livestock by **70-100%**.

Calliandra, leucaena and sesbania fodder tree crops are an excellent source of high protein (**20-35%**) feed for dairy cows, goats, sheep, chicken, pigs, fish and other livestock. Farmers growing these fodder tree crops no longer need

All the three fodder trees crops are drought tolerance. Therefore, investment in their production would address the challenge of seasonality by ensuring consistency in milk and egg production across all seasons.

Very small piece of land is required to cultivate these fodder tree crops. They can be intercropped with maize and other crops or cultivated along a perimeter fence, or along the farm contours. They are also good in fixing nitrogen for use by other crops.

Cultivating the 3 fodder tree crops

Each packet of calliandra, leuceana and sesbania will produce between 250-350, 300-400 and 1000-1400 seedlings respectively. *Leuceana leucocephala* is most suitable for arid and semi-arid areas while Calliandra and sesbania are suitable for highlands and semi-arid areas

All seeds are approved and certified by KEFRI and KEPHIS

The seedling propagation information is provided at the back of each of the seed packet.

Feeding livestock with the fodder tree

Harvesting of the soft stems and leaves starts after **8-12** months from planting. You can harvest **4 to 6** times per year for up to **20 years**.

The fodder should constitute only **25-30 %** of the daily dairy cow, goats, chicken and sheep's feed. Animals can be fed on the green forage (soft branches and their leaves) or the dried form. Dried form can also be mixed with other feeds (grass, maize, wheat etc)



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