GRASS FODDER BY HYDROPONICS

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Grass fodder is used as an animal feed and can be produced in great numbers within 12 days from seed to grass for all livestock. Various varieties of grass fodder include, but are not limited to, barley, rice grass, corn grass, oat grass, lucerne grass, rye grass or whatever grass one wishes to grow in ones country. Growing grass fodder hydroponically is now becoming popular in drought prone areas. Australia, Canada, Africa and Thailand & USA have been making this grass fodder for quite a number of years now and the USA sell systems on the back of trucks or in shipping containers & in India they use large glassed front coke fridges to sprout so theres many ways one can start the seed raising if they want to without buying expensive system setups.

In Spain they cultivate grass on their side, & in Canada we have seen simple but effective grass fodder growing so many different ways to grow grass fodder.

We have a system to help the small hobby farmer in tropical countries but we specialize in large commercial grass fodder production on a big scale mainly

The system itself only needs one person to run it so the cost to maintain labor is minimal. If one has an adequate water supply then you have no worries with water your main source. Closer to agents and where you live is an added plus as your delivery costs are reduced. Alternate power sources again drop the cost but whatever you think regarding the costs etc you make it up on the fact you have feed all year round-- your stock are healthy and easy to care for and you do not have the problems faced with grazing animals on arid country. No worries with pests, disease, mother nature.

We will give you a little info on building your system -- this is not commercial as we are doing but a guide only. To set your own up of course the expense is in the housing itself but if you are a handyman then you can build your own greenhouse using the materials one would have on ones farm. It is up to the individual to make up his mind on just what style is comfortable for their needs and pocket. We are making complete simple systems for the home owner..

With following HGF (Hydroponics Grass Fodder) yields are 208 kg for 25 m$^2$ from yellow color grains corn respectively. This would mean an estimated annual HGF production of 76,041 kg/per year 25 m$^2$ respectively.

We have used a typical 144m$^2$ area unit containing 1790 trays stacked on shelves that hold grain. The trays are tilted and have holes in one side. The contents are fed as food and grain. The trays are under controlled environmental conditions in a typical 12-day cycle. The grain develops roots and green shoots to form a dense mat at an average of 1200 kilograms/per day / 438,000 kg/per years with only 800 to 1000 liters of water consumption. This amount of fodder can be used to supplement feed for **100 head of cattle per day or 500 goats and/or sheep**. The water use difference is approximately 50:1 over the hay that the forage replaces.
The most common crops are corn and wheat. Washing: The seed is soaked in water, with the purpose of eliminating the whole material that floats, then drained and soaked in water with 2% sodium hypochlorite for 15 minutes. After this soaking, the seed is drained again, given a quick washing, and sent to the pre-germination area.
Each of the four shelf modules holds 448 trays for a total of 1792 trays
Day 1

Growth: The environmental factors that influence in the forage production are light, temperature, humidity, oxygenation, and carbon dioxide gas. The duration of daylight influences vegetative development.
Day 1
Day 2
Day 3
Day 4
Day 5
Day 6
Day 7
Day 8
Day 9
A close-up of the grass is pictures here

As consequence we will obtain a great root mat, since the roots intersect some with others for the high density of sows. This Mat this formed by the seeds that don't reach to germinate, the roots and the air part 25 centimeters or more than height.
HARVESTS This it is made when the PLANT has reached a height average of 25 cms. This development delays from 8 to 12 days, depending on the temperature, the environmental conditions and the frequencies of the watering.
Cows love the forage as a supplement to their normal rations

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