भारतीय चरागाह एवं चारा अनुसंधान संस्थान, झाँसी

Handling fodder issues during drought

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Jhansi

Contribution to the income of farmers in Jhansi

Category of household	**Contribution of crops**	**Contribution of livestock**
Landless Labour	Labour mainly	Minor contribution
Marginal farmers	60 %	35 %
Small farmers	67 %	26 %
Medium farmers	77 %	20 %
Large farmers	84 %	12 %

Fodder issues during drought

- Poor germination and growth of fodder crops
- Lesser availability of fodder
- Shortage of other crops's byproducts used as fodder
- Less availability of weeds used as fodder supplements
- Higher cost of Concentrate
- More uncontrolled grazing (Anna pratha)
- Crop harvesting with combine to save cost/labour
- Less income from Livestock

How to manage the fodder/feed during drought

- Keep space for Perennial fodder grasses
- Grow dual purpose grain crops
- Efficient use of irrigation methods
- Adopt Fodder conservation practices as Silage and hay making
- Grow azolla as concentrate replacement to certain extent
- Field protection from uncontrolled grazing
- Rely on small ruminants
- Crop harvesting with reaper/hand operated machines to save byproducts
- Grow fodder trees on bunds

Keep space for Perennial fodder grasses

Hybrid Napier grass, 2500 quintals/ha

Grow the crops near water bodies, unused lands

Hybrid napier grass on strips

Grow the crops on unused bunds in fields

Hybrid napier grass on bunds

Growing the crops on bunds/channels to save water

Growing the crops on bunds/channels to save water

Draught resistant- anjan grass

Sowing of Shade tolerant- Guinea grass in orchard

Fodder production from Orchard

Farm pond is must for lifesaving irrigation and utilise the available water efficiently

Fodder conservation for lean period- Silage

Less water requiring Oat seed/grain production: a profitable enterprise

Economics of seed production, Oat (JHO822) in Jhansi

Parameters	Values
Total cost, Rs	47202
Total, pure seed, Quintal	1816
Straw, q	32.42
Total Return,Rs	59182
Net Return, Rs	11970
C:B Ratio	1 : 1.25
Cost of production of seed (Rs/kg) (When both seed and fodder are considered)	18.41

Oat seed crop cv JHO 822 seed crop in Aonla orchard in Badagaun Jhansi, Rabi 2014-15

0.5 ha Oat seed crop cv JHO 822 seed crop in Richhore Jhansi, Rabi 2014-15

Oat,JHO-822 seed crop in badagaun, Jhansi

Berseem seed production in Mustard fields for additional income

Grow less water requiring sorghum crop in place of maize

Sorghum and Maize

Seasonal Dinanath grass fodder/seed for less fertile/rainfed soils

Dinanath grass tollerance

Azolla as concentrate replacement (up to 50%)

Azolla production method

Other ways

धन्यवाद

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