# Improving food security through sustainable watershed development - a case study in northern Thailand

## Margraf Verlag - Reducing the burden of rural water supply through greywater reuse: a case study from northern Malawi

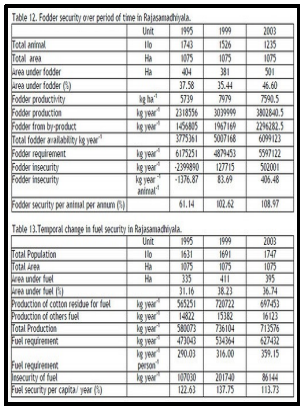

Table 12. Fodder security over period of time in Rajasamadhiyala.

| | Unit | 1995 | 1999 | 2003 |
|---|---|---|---|---|
| Total animal | Yo | 1743 | 1526 | 1235 |
| Total area | Ha | 1075 | 1075 | 1075 |
| area under fodder | Ha | 484 | 381 | 501 |
| Area under fodder (%) | | 37.58 | 35.44 | 46.60 |
| Fodder productivity | kg ha$^{-1}$ | 5739 | 7979 | 7590.5 |
| Fodder production | kg year$^{-1}$ | 2318556 | 3039999 | 3802640.5 |
| Fodder from by-product | kg year$^{-1}$ | 1456805 | 1967169 | 2296282.5 |
| Total fodder availability kg year$^{-1}$ | | 3775361 | 5007168 | 6099123 |
| Fodder requirement | kg year$^{-1}$ | 6175251 | 4879453 | 5597122 |
| Fodder insecurity | kg year$^{-1}$ | -2399890 | 127715 | 502001 |
| Fodder insecurity | kg year$^{-1}$ animal$^{-1}$ | -1376.87 | 83.69 | 406.48 |
| Fodder security per animal per annum (%) | | 61.14 | 102.62 | 108.97 |

Table 13.Temporal change in fuel security in Rajasamadhiyala.

| | Unit | 1995 | 1999 | 2003 |
|---|---|---|---|---|
| Total Population | Yo | 1631 | 1691 | 1747 |
| Total area | Ha | 1075 | 1075 | 1075 |
| area under fuel | Ha | 335 | 411 | 395 |
| area under fuel (%) | | 31.16 | 38.23 | 36.74 |
| Production of cotton residue for fuel | kg year$^{-1}$ | 565251 | 720722 | 697453 |
| Production of others fuel | kg year$^{-1}$ | 14822 | 15382 | 16123 |
| Total Production | kg year$^{-1}$ | 580073 | 736104 | 713576 |
| Fuel requirement | kg year$^{-1}$ | 473043 | 534364 | 627432 |
| Fuel requirement | kg year$^{-1}$ person$^{-1}$ | 290.03 | 316.00 | 359.15 |
| Insecurity of fuel | kg year$^{-1}$ | 107030 | 201740 | 86144 |
| Fuel security per capita/ year (%) | | 122.63 | 137.75 | 113.73 |

Description: -

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Water resources development -- Thailand.

Food supply -- Thailand.Improving food security through sustainable watershed development - a case study in northern Thailand

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Champs (Flammarion (Firm)) ;

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Farming & rural systems economics,Improving food security through sustainable watershed development - a case study in northern Thailand

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**3823613987**

Lifting the taboo on adaptation. Our covariates included a suite of soil and vegetation indices derived from four Landsat images taken between May and August 2016, a suite of topographic indices derived from Provincial 25-meter Terrain Resource Information Management TRIM digital elevation model and existing land use and soil e. Thus, optimizing the production of DSMs requires maximizing accuracy while minimizing cost.

**3823613987**

In recent years, addressing climate change has been high on the global strategic program.

**Siddhartho S Paul**

In Malawi, the National Water Policy promotes water recycling and reuse for urban and peri-urban areas, but does not specifically target rural areas. Thus, this section is organized by the steps along the production pathways. Contaminants in flue gas could place another constraint on the type of coal-fired electricity facilities that would be suitable for providing CO 2 for algae cultivation see sections Estimated Land Requirements and Estimated Nutrient Requirements in.

**RELATIONSHIP BETWEEN CLIMATE CHANGE AND FOOD SECURITY: A CASE STUDY ON THE NORTHERN REGION OF MALAYSIA**

Moreover, RMSE of RF produced maps were 9%, for SOC, and 48%, for CL, better than those of GBM predicted maps. We used machine learning algorithms random forest — RF and generalized boosted model — GBM , and pedotransfer functions to model the relationship between field data and a number of covariates. In contrast, if algae cultivation displaces grass-fed cattle production, producers might decide to change to corn-fed cattle production.

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