Authors:	Nupur, Vinita (/browse?type=author&value=Nupur%2C+Vinita)
Advisor:	Singh, R.S. (/browse?type=author&value=Singh%2C+R.S.)
Title:	STUDIES ON UPLAND RICE BASED CROPPING SEQUENCE UNDER RAINFED CONDITION
Publisher:	Birsa Agricultural University, Kanke, Ranchi, Jharkhand
Language:	en_US
Type:	Thesis
Pages:	78
Agrotags:	null
Keywords:	STUDIES ON UPLAND RICE BASED CROPPING SEQUENCE UNDER RAINFED CONDITION

Abstract:	In Jharkhand the upland rice is cultivated in 7.30 lakh hectares and after harvesting of rice the land remains fallow due to lack of irrigation facility (11% irrigated area). The prevailing practice of monocropping and leaving the land fallow after Kharif harvesting is proved uneconomical to meet the food requirement. Hence, a field experiment was conducted “Studies on upland rice based cropping sequence under rainfed condition” at Birsa Agricultural University farm during Kharif and Rabi season of 2005-06. The soil was sandy loam, acidic in nature (5.5 pH), having available nitrogen (230.60 Kg/ha), phosphorus (18kg/ha) and potassium (158.35 Kg/ha).Treatment consisted of 3 upland rice varieties, Birsa Dhan 108, Birsa Vikas Dhan 109 and Birsa Gora 102 of different duration in main plot and 4 oilseed crops, Niger, Mustard, Linseed, and Sesamum in sub plot laid out in split plot design and replicated thrice. Results revealed that the time of seeding of oilseeds after harvesting of rice affected the yield attributing characters (number of branches/ plant, pods/ plant, seeds/pod) as well as yield of oilseeds. Oilseeds sown after early maturing rice variety Birsa Dhan 108 showed maximum number of yield attributing characters and yield as compared to sown after comparatively late duration varieties. The oilseeds sown after Birsa Dhan 108 gave maximum rice equivalent yield (16.05q/ha), net returns (Rs 2465.60 /ha) and benefit: cost ratio (0.71). Among oilseeds, mustard gave highest rice equivalent yield (20.79q/ha), net returns (Rs. 3526.30 /ha) and benefit: cost ratio (0.87). Among rice- oilseed crops sequence, oilseeds sown after Birsa Vikas Dhan 109 gave maximum rice equivalent yield (36.30 q/ha), net returns (Rs. 7118.30 /ha) and benefit: cost ratio (0.77) Rice variety Birsa Vikas Dhan 109 – Mustard system produced significantly higher rice equivalent yield (43.08 q/ha), net returns (Rs 8919.30 /ha) and benefit: cost ratio (0.90), net energy output (105169 MJ/ha) and energy- use efficiency (14.47)
Description:	STUDIES ON UPLAND RICE BASED CROPPING SEQUENCE UNDER RAINFED CONDITION
Subject:	Agronomy
Theme:	STUDIES ON UPLAND RICE BASED CROPPING SEQUENCE UNDER RAINFED CONDITION
These Type:	M.Sc
Issue Date:	2008
Appears in Collections:	Thesis (/handle/1/93550)

Files in This Item:

File	Description	Size	Format

1176 Vinita Nupur.pdf	2.01 MB	Adobe PDF

THESIS

SUBMITTED TO THE

BY

Vinita Nupur

FOR THE DEGREE OF

2008

View/Open (/displaybitstream?handle=1/5810028301)

Show full item record (/handle/1/5810028301?mode=full)

(/handle/1/5810028301/statistics)