## **Smother Intercrops Check Weed Growth in Direct Seeded Rice.** (A08-angadi112401-Poster)

Authors:

- V.V.Angadi Univ. Agril. Sciences, Dharwad, India
- S.S.Meli Univ. Agril. Sciences, Dharwad, India
- S.V.Angadi AAFC-SPARC Research Centre, Swift Current, Canada

## **Abstract:**

Raising smother intercrops is one of the options for weed management in the first 40 to 50 days in rainfed lowland rice (RLR). We evaluated the weed smothering effect of green manures like Crotolaria juncea, Vigna sinensis, Glysine max, Sesbania rostrata and S. aculeate during 1992, 1994 and 1995 at the ARS,Mugad, Karnataka, India. The smother intercrops were combined with either hand weeding (HW) alone at 30 d after rice emergence (DE) or with intercultivation (IC) at 15 DE followed by HW at 40 DE.Intercropped C. juncea, V. sinensis, G. max and S.rostrata, when combined with 1 IC at 15 DE and 1 HW at 40 DE could suppress weeds effectively. The rice yields in these plots were similar to those recorded after Butachlor applications with 1 HW at 30 DE, suggesting that these crops could replace butachlor application when combined with 1 IC. Apart from their weed smothering ability,these legumes can fix atmospheric N and add a considerable amount of organic matter to the soil. Therefore,intercropping of difficult to reestablish crops like C.juncea and V.sinensis may be encouraged for sustainable weed management in RLR.

**Corresponding Author Information:** 

Vivekanand Angadi

University of Agricultural Sciences, Dharwad phone: (91)-(836)-775109 fax: (91)-(836)-448377 e-mail:

AICRP-Sorghum, Main Research Station, vvangadi@hotmail.com Krishinagar

Dharwad, KA 580 005 India

## **Presentation Information:**

Presentation Date: Wednesday, November 13, 2002 Presentation Time: 1:30-3:30 pm Poster Board Number: 634

Keywords: Intercrop, Weed Management, Upland Rice, Organic Matter