

528. **Srivastava, A.K., Verma, B. and Pratap Narain. 1985.** Studies on double cropping under rainfed condition. *Indian J. Agro.*, 30(1):64-71

Greengram, blackgram and cowpea each followed by safflower, mustard, *taramira* and gram in double cropping sequences were studied from 1978-79 to 1981-82. Sorghum + pigeonpea intercropping (1:1) was included for comparison. Greengram-Safflower sequence was superior over four seasons producing 12.6 q/ha followed by greengram-*taramira* (10.5 q/ha). Greengram sequences were significantly better in energy value of grain yield (3.42 to 4.40 million K calories/ha) than other double cropping sequences and were at par with sorghum + pigeonpea intercropping (4.36 million K calories/ha). Rainfall productivity of greengram-Safflower sequence (12.0 kg grain/cm rains) was higher than other double cropping sequences (5 to 15 kg grain/cm rains) and comparable

to sorghum + pigeonpea (19 kg grain/cm rains). Blackgram and greengram provided maximum canopy cover (80 and 79%) followed by cowpea (76%) and sorghum + pigeonpea (68%) 45 days after sowing.