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Upland rice was intercropped with pigeonpea, blackgram and sesame at Barkachha (Mirzapur) to evaluate the impact of intercropping. Intercropping of rice with blackgram in 2:1 rows provided mean grain yield of 1795 kg/ha rice and 393 kg/ha blackgram as against sole rice yield of 1861 kg/ha. Intercropping of rice with blackgram in 1:1 rows also proved superior to sole rice. Intercropping of rice with pigeonpea or sesame was not found profitable. Rice intercropping with blackgram as well as with pigeonpea recorded higher available N in the soil than sole rice.