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in a three year (1984-86) field trial, effect of pre-emergence application of atrazine (2 chloro-Lamino-6-isopropylamino-s-triazine) and different schedules of manual weedings and mer combinations (10 treatments) were studied on weed-biomass production, nutrient loss weeds, yield of maize (Zea mays Linn.), net returns, and runoff and soil loss. *** It is a second of a strazine @ 1 kg ai/ha + 2 weedings 15 and 30 days after sowing was most in reducing the loss of N through weeds to the minimum (35 kg/ha). The same mean recorded mean maximum grain (2528 kg/ha) and straw (8541 kg/ha) yield of net returns (Rs. 3359/ha) and soil loss (12.51 tonnes/ha) compared with all other Runoff was maximum (41.4%) with atrazine + weeding 15 days after sowing.