

furrow irrigation in as much as 1.6 ha.

- 248. Hanumanathappa, B., Chittaranjan, S., Arjun Prasad and Sam, M.J. 1980.** Surface irrigation methods for maize in Vertisols. Abst. 88, National Symp. on "Soil Conservation and Water Management in 1980's", Dehradun, March 12-13, 1980: 60.

The soils of Bellary have low infiltration rates causing surface runoff and wastage of water. A study was initiated in 1976-77 and 1977-78 to evaluate various methods of surface irrigation. Results indicated that with the flat bed irrigation maize recorded 4899 kg/ha grain yield which was 578 and 888 kg more than with ridge furrow and alternate furrow irrigation. However, water use efficiency was highest with alternate furrow irrigation (201 kg/ ha/cm of water) while it was lowest (140 kg) with flat bed irrigation.