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INTRODUCTION

Punjab is the most stunning example of green revolution in India. Adoption of modern farming techniques in Punjab involving improved irrigation, high yielding varieties, agro-chemicals and farm mechanization has made significant contributions towards raising food production (Bajwa, 2002). The total cropped area in Punjab which was 5.678 million hectares in 1970-71 has increased to 7.912 million hectares in 2008-09. More than 83 per cent of the total land in the state is under agriculture (as compared to the national average of 40.38 per cent). The cropping intensity in Punjab has increased from 140 in 1970-71 to about 189 in 2008-09 as against national average of about 133 per cent. But the states agriculture has reached a plateau under the available technologies and natural resource base and has become un-sustainable and nonprofitable. Over intensification of agriculture over the years has led to overall degradation of the fragile

ecosystem of the state and high cost of production are affecting the socio economic conditions of the farmers. The major driving forces, which have affected the natural ecosystem and prevalent agricultural practices are increase in demand for food grain due to increase in population, intensive and extensive agriculture as a result of green revolution, good irrigation facilities, procurement facilities for grain, easy availability of credit and subsidies for input intensive agriculture. These driving forces have induced several pressures on the agricultural pattern and environment.

Therefore, the present study has been undertaken to examine ecological crisis arised due to the process of development in the state. More specifically the objectives are: to study the cropping pattern in the state, to analyze the impact of intensive use of farm inputs on various parameters of environment and to suggest policy measures to check the environmental degradation in the light of these effects.