

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:48
ANSWERED ON:22.02.2011
IMPACT OF TEMPERATURE ON AGRICULTURE
Kataria Shri Lal Chand;Ray Shri Rudramadhab

Will the Minister of AGRICULTURE be pleased to state:

- (a) whether as per the recent studies conducted by various agencies including the Indian Council of Agricultural Research, production of foodgrains is decreasing due to the impact of rising temperature on agriculture;
- (b) if so, the details thereof; and
- (c) the remedial measures taken by the Government in this regard?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND MINISTER OF STATE IN THE MINISTRY OF FOOD PROCESSING INDUSTRIES(SHRI HARISH RAWAT)

(a) & (b): There is no definite indication so far of decrease in foodgrain production in the country due to rise in temperature. The Indian Council of Agricultural Research (ICAR) initiated a Network Project on Climate Change during X Plan to study the impact of climate change and global warming on agricultural crops, horticulture, forests, livestock, fisheries, etc. The limited studies conducted under this project have indicated that the increase in minimum temperature by 1°C during reproductive stage of wheat may reduce the yield by 7-10%.

(c) To enhance resilience of Indian agriculture against climate change including rising temperature a new scheme National Initiative on Climate Resilient Agriculture with an outlay of Rs.350 crore for the period 2010-12 has been launched by the Government. The scheme aims to assess the impact of climate change on agriculture and allied sectors in the country and evolve cost effective adaptation and mitigation strategies. Besides, mid term, corrections in farm operations are effected through contingency plans and weather based agro-advisories.