

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:2915

ANSWERED ON:11.12.2012

IMPACT OF GLOBAL WARMING ON AGRICULTURE

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Will the Minister of AGRICULTURE be pleased to state:

- (a) whether there has been a shortfall in the production of rice, wheat, sugarcane, oilseeds etc. in the country due to global warming during each of the last three years and the current year;
- (b) if so, the details thereof, State-wise and crop-wise;
- (c) the details of funds allocated under the National Initiative on Climate Resilient Agriculture (NICRA) Scheme to address the impact of climate change on agriculture and allied sectors in the country during each of the last three years and the current year, State-wise;
- (d) the success achieved in this regard so far; and
- (e) the remedial measures taken/proposed to be taken by the Government to arrest the impact of global warming?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FOOD PROCESSING INDUSTRIES (SHRI TARIQ ANWAR)

(a) There is no specific study reporting such effect so far.

(b) Does not arise.

(c) The information is Annexed.

(d) Climate resilient technologies are being demonstrated in four modules across 100 vulnerable districts in selected villages representing all states of the country. Also demonstrated rainwater harvesting and recycling measures across all the drought prone KVKs (50). Several heat/drought resistant germplasm lines for various crops have been identified. 100 Automatic Weather Stations in Krishi Vigyan Kendras (KVKs) were established in most vulnerable districts for improved agro advisories. Real time pest surveillance in relation to weather in five crops across 36 locations and developing software for automatic data uploading has been undertaken. A tool kit was developed to quantify the climate change adaptation potential of watershed projects. Climate change farmers' awareness programs are also being organized.

(e) The Government of India has implemented various schemes/programmes, namely, Macro Management of Agriculture (MMA), Rashtriya Krishi Vikas Yojana (RKVY), National Food Security Mission (NFSM), National Horticulture Mission (NHM), and National Mission on Microirrigation (NMMI) etc to make Indian Agriculture climate resilient by embedding and mainstreaming various adaptation measures. Besides, Mission document on National Mission on Sustainable Agriculture (NMSA) has been approved by the Planning Commission for implementation of various interventions to address the issue of climate change.

The Indian Council of Agricultural Research (ICAR) has initiated a Network project entitled National Initiative on Climate Resilient Agriculture (NICRA) to enhance resilience of Indian agriculture to climate change and climate vulnerability through strategic research and technology demonstration. Capacity Building and Sponsored/Competitive Grants. The Council is also providing improved agro-advisories on real time weather data for appropriate agronomic interventions and preparing District Level Contingency Plans for 572 target districts of the country as well.