

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:3179

ANSWERED ON:24.04.2012

IMPACT OF CLIMATE CHANGE ON AGRICULTURE

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Will the Minister of AGRICULTURE be pleased to state:

- (a) whether the agriculture sector in the country is pressurised from both high population growth and climate change;
- (b) whether the Indian Council of Agricultural Research (ICAR) has conducted any survey with regard to the impact of climate change on the production of foodgrains in the country during the last three years;
- (c) if so, the details thereof; and
- (d) the steps proposed to be taken for mitigating the impact of climate change on foodgrains production?

Answer

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

- (a) Higher population will require higher agricultural production. Besides there are also reports about possible impact of climate change for agricultural production.
- (b) & (c): Indian studies conducted under ICAR Network Project on Climate Change (NPCC), indicate that climate change may reduce yield of timely sown irrigated wheat by about 6% in 2020. When late and very late sown wheat is taken into consideration, the projected impact could reduce the yield by as much as 18%, if no adaptation measures are followed. Similarly, this study projects 4-6% reduction in yield of rice and up to 18% in respect of irrigated kharif maize, and 2.5% in rainfed sorghum by the year 2020.
- (d) As part of the National Action Plan for Climate Change, the Mission Document on National Mission for Sustainable Agriculture (NMSA) has been formulated jointly by Department of Agriculture & Cooperation and Department of Agricultural Research & Education, in consultation of stakeholders including State Governments, and approved in principle by Prime Minister's Council on Climate Change.