

**GOVERNMENT OF INDIA
WATER RESOURCES
LOK SABHA**

UNSTARRED QUESTION NO:1565

ANSWERED ON:06.03.2006

RESEARCH ON RAINS

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Will the Minister of WATER RESOURCES be pleased to state:

(a) whether the Government has conducted any research to remove the uncertainty of rains and its dependence on irrigation in the country; and

(b) if so, the details thereof and the outcome thereof?

Answer

THE MINISTER OF WATER RESOURCES (PROF. SAIF-UD-DIN SOZ)

(a) & (b) There are frequent instances of late onset and early withdrawals of monsoon in India. Similarly, there are considerable periods of no rains during the monsoon. Uncertainty in the rainfall resulting from such natural phenomenon affect the agriculture and irrigation. Many studies and research have been carried out for analysis of rainfall characteristics, precipitation forecasting, inflow forecasting and development of models of optimum utilisation of the available resources including decision support systems by various academic and research institutions in the country including India Meteorological Department, Indian Council of Agricultural Research and National Institute of Hydrology.

The research / studies in this area have helped in Agricultural Advisories Services and Long Range Forecast by India Meteorological Department and Inflow Forecast to some of the reservoirs during monsoon period by Central Water Commission. A number of National agencies like Department of Agricultural Research & Education, India Meteorological Department, National Centre for Medium Range Weather Forecasting (NCRMWF), Space Application Centre, Ahmedabad; Indian Council of Agricultural Research (ICAR) etc. are also associated with development of Extended Range Forecast System for Climate Risk Management in Agriculture. A study titled "Development of Drought Vulnerability Indices for Preparedness and Mitigation" has also been taken by National Institute of Hydrology (NIH), Roorkee and Indian Institute of Technology, Mumbai.