

# EXPLORATORY ANALYSIS OF RAINFALL DATA IN INDIA FOR AGRICULTURE

## Advices for farmers on the day No-Rain Forecast

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### **Introduction:**

When rainfall does not occur, it leads to drought conditions. This causes water scarcity, crop failure, and financial stress for farmers. Proper strategies are needed for both farmers and policy makers.



### **Impact of No Rainfall**



## Advice for Farmers

- Grow drought-resistant crops like millets and pulses.
- Use drip and sprinkler irrigation systems.
- Practice mulching to reduce water evaporation.
- Construct farm ponds for rainwater harvesting.
- Enroll in crop insurance schemes.



## Advice for Policy Makers

- Improve early weather forecasting systems.
- Provide subsidies and drought relief funds.
- Support irrigation infrastructure development.
- Promote climate-smart agriculture practices.
- Strengthen rural employment programs during drought periods.



## Conclusion

Drought management requires cooperation between farmers and government. Water conservation, financial protection, and proper planning can reduce losses and ensure sustainable agricultural development