

# Thoughts on the development of agricultural climate resilience under the frequent occurrence of extreme meteorological disasters.

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## Objectives

1. Summarize and extract the characteristics and advantages of modern agricultural development and construction both domestically and internationally.
2. Exploring the methods and means of modern agriculture in response to disasters.
3. Propose measures and considerations for improving agricultural climate resilience at present.

## Methods

Literature review

### Rice cultivation under film drip irrigation



### Intelligent greenhouse



### Irrigation area water transmission and distribution

## Discussion direction

1. The spatiotemporal law and early warning of water and drought disasters.
2. Application of Agricultural Irrigation Technology.
3. Optimal allocation of water resources in irrigation areas.
4. Improvement of agricultural ecological environment.

## Conclusions

Based on domestic and international research, the conclusions and recommendations are as follows:

1. Analyzing the spatiotemporal distribution pattern of regional precipitation can be combined with weather forecasting to establish an effective meteorological disaster warning mechanism.
2. Optimize the water transmission and distribution settings in irrigation areas, enhance the reservoir regulation capacity, and improve the water delivery efficiency of irrigation channels.
3. Increase the promotion and application of water-saving irrigation technology to improve farmland irrigation efficiency and reduce the impact of drought on agricultural production.
4. Optimize the allocation of water resources in irrigation areas, and determine land and production based on water.
5. Improve the agricultural ecological environment and enhance the resilience of farmland ecosystems to disasters.