

## December 19<sup>th</sup>, 2018 Sample Current Affairs

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## **1. Efforts to make agriculture climate-resilient must be scaled up and consolidated**

- How does the climate change affect the agricultural livelihoods?
- What is the need for India to practice the climate resilient agriculture?
- What needs to be done to foster the climate resilient agriculture?

### **GS paper 3 ( Issues related to agriculture )**

**In this video, you can find detailed answers for all the above questions.**

**The above article has been retrieved from:**

Naveen P Singh  
& Bhawna Anand. ( 2018, December , 19). Farming in a warming world. The Hindu. Retrieved from <https://www.thehindu.com/opinion/op-ed/farming-in-a-warming-world/article25746161.ece>

**What is the context about?**

- The pervasiveness of climatic aberrations and the associated socio-economic vulnerability are now widely recognised and experienced across the globe.
- The Sixth Assessment Report by the Intergovernmental Panel on Climate Change (IPCC) on “Global Warming at 1.5°C” distinctly propagates the need to strengthen and

enhance existing coping capacity and to remain committed to the objectives of the Paris Agreement.

### **How does the climate change affect the agricultural livelihoods?**

- ❑ The report establishes that the world has become 1°C warmer because of human activities, causing greater frequency of extremes and obstruction to the normal functioning of ecosystems.
- ❑ Climate-induced risks are projected to be higher for global warming of 1.5°C than at present, but lower than at 2°C (a catastrophic situation). However, the magnitude of such projections depends on in-situ attributes and the level of developments.
- ❑ Moreover, for such a change in global warming, indigenous populations and local communities dependent on agricultural or coastal livelihoods are very vulnerable to the climate impacts.

### **What is the need for India to practice the climate resilient agriculture?**

- ❑ India, with its diverse agro-climatic settings, is one of the most vulnerable countries. Its agriculture ecosystem, distinguished by high monsoon dependence, and with 85% small and marginal landholdings, is highly sensitive to weather abnormalities.

- ❑ There has been less than normal rainfall during the last four years, with 2014 and 2015 declared as drought years.
- ❑ Even the recent monsoon season (June-September) ended with a rainfall deficit of 9%, which was just short of drought conditions.
- ❑ Research is also confirming an escalation in heat waves, in turn affecting crops, aquatic systems and livestock.
- ❑ These projections underline the need for strategic change in dealing with climate change in agriculture.

### **What needs to be done to foster the climate resilient agriculture?**

- ❑ At the micro-level, traditional wisdom, religious epics and various age-old notions about weather variations still guide farmers' responses, which could be less effective. Corroborating these with climate assessments and effective extension and promoting climate resilient technologies will enhance their pragmatism.
- ❑ Climate exposure can be reduced through agronomic management practices such as inter and multiple cropping and crop-rotation; shift to non-farm activities; insurance covers; up-scaling techniques such as solar pumps, drip irrigation and sprinklers.
- ❑ At the macro-level, climate adaptations are to be mainstreamed in the current developmental framework.

