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05™SEPTEMBER 2019

4. Impact of Climate Change on India's Banana Crop

Prelims: Environment- Climate Change & its Impact

Mains: GS-III- Conservation, Environmental Pollution and Degradation, Environmental Impact Assessment.

Why in News?

▶ A new study has found that climate change has benefited bananas over the last several decades but predicted that the trend will reverse, with climate change eventually causing a Negative Impact.

Highlights of the Study:

- ➤ The study, led by researchers from the University of Exeter has been published in Nature Climate Change.
- The study includes both the recent and future impact of climate change on the world's leading banana producers and exporters.
- ▶ They found that 27 countries accounting for 86 per cent of the world's dessert banana production have on average seen increased crop yield since 1961 by 1.37 tonnes/hectare every year due to the changing climate resulting in more favourable growing conditions.
- ▶ In India, data from the National Horticulture Board show broadly consistent yields in six years leading up to 2016-17, when the provisional yield was 34 tonnes/hectare.
- ▶ The study says the gains in these 27 countries could be significantly reduced by 2050 to 1.19-0.59 tonnes/hectare or disappear completely, if climate change continues at its expected rate. The study predicts that 10 countries including India and the fourth largest producer, Brazil could see a significant decline in crop yields.

Concerns:

- ▶ Bananas has the impact on millions of people in both rural and urban areas across the globe.
- ▶ In Britain, for example, more than five billion bananas are purchased each year, and the United Kingdom accounts for seven per cent of the global export market.

▶ Such international trade can play a pivotal role to local and national economies in producing countries. For example, bananas and their derived products constitute the second largest agricultural export commodity of Ecuador and Costa Rica.

About Banana Crop:

- **▶** Bananas **Thrive in warmer climates, and India is the world's largest producer and Consumer** of the fruit crop.
- ▶ Bananas are recognised as the most important fruit crop, providing food, nutrition, and income for millions in both rural and urban areas across the globe.

Way Forward:

- ▶ Banana growers are very concerned about the impact of diseases like Fusarium Wilt on bananas, but the impacts of climate change have been largely ignored.
- ▶ In coming years, the study may stimulate vulnerable countries to prepare through investment in technologies like irrigation.
- ▶ An open exchange of ideas is going to be critical going forward. It is believed that practical solutions already exist, but these are scattered across banana producing countries. This knowledge exchange needs to start now to counteract predicted yield losses due to climate change.

