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Sustainable Agriculture in India

Agriculture Inputs

Data Guide – August 2022

Table of Contents

Section	Page
<u>Introduction</u>	2
<u>Summary</u>	4
<u>Fertilizers</u>	6
<u>Pesticides</u>	24
<u>Seed Requirement and Availability</u>	29

Sustainable Agriculture in India

Agriculture Inputs - Summary

Agriculture Inputs at a glance



Average consumption of fertilizer in India in 2018-19 was **~133 Kg Per Hectare**



Consumption of **carrier based and liquid based** biofertilizers is in the ratio of **3:1** respectively



In 2018-19, highest consumption of fertilizer was in **Telangana - 245.3 Kg/H)**



In 2019, **~360 gms of pesticide** was used per hectare



3/4th of Organic fertilizer is from Farmyard manure (>50%) and Vermicompost (25%)



In 2020-21, more than **20% of the total chemical pesticide** consumption of India was in the state of **Maharashtra**

Sustainable Agriculture in India

Fertilisers

Fertilizers

Fertilizers are an essential component for crop growth and soil fertility. While there are different types of fertilizers, in this data guide we cover three major types of fertilizers

- Chemical fertilizers - **NPK (Nitrogen, Phosphorus and Potassium)** are the three main types of chemical fertilizers used in India.
- Organic fertilizer - An organic fertilizer is a fertilizer that is derived from **organic sources, including organic compost, cattle manures, poultry droppings** and domestic sewage.
- Biofertilizers - Biofertilizers are **biological preparations of efficient microorganisms that promote plant growth by improving nutrient acquisition.**

India - Production, Consumption and Import of Fertilizers (In Tonnes)

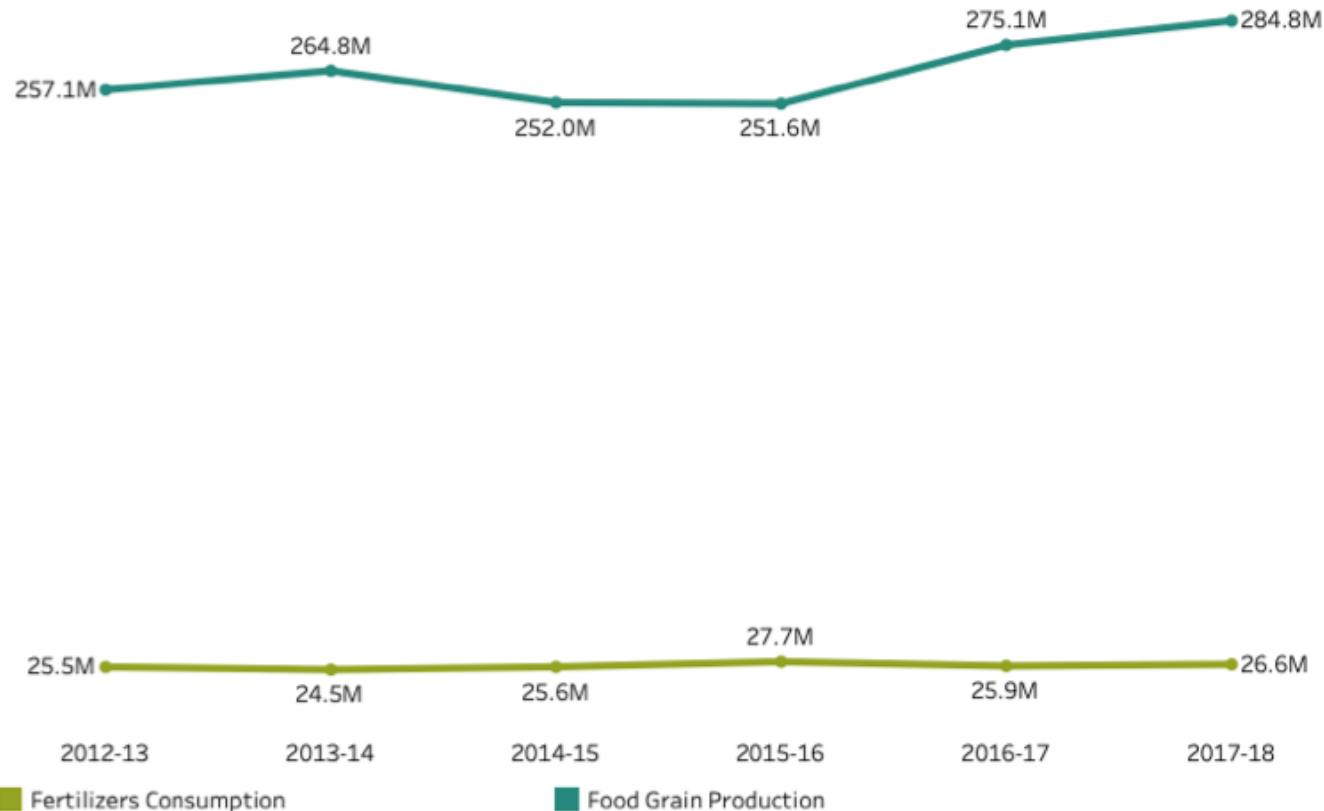


During the decade 2007-2018, Production of fertilizers increased by 2 million tonnes (increased by 12% since 2007)

Imports increased by 2.4 million tonnes (increased by 40%)

Consumption increased by 4.9 million tonnes (22.5% increase)

India Fertilizer Consumption v/s Food Grain Production (in Tonne)



In 2017-18, for every 1000 Kgs of foodgrain produced, ~93 Kgs of fertilizer was consumed. However, in 2012-13, ~100 Kgs of fertilizer was consumer for the same amount of foodgrain production.

We also notice that during certain years (2012-17), the foodgrain production was inversely proportional to fertilizer consumption.

India - Production, Consumption and Import of Fertilizers by Type (In Tonnes)



Production of Potassium based fertilizers is very minimal in India. Hence there is a lot of dependency on the Imports. Fertilizers consumption needs are fulfilled by indigenous production and Imports.

Consumption of Phosphatic fertilizers has increased by 20% in one decade (2007-17).

Nitrogenous Fertilizers consumption is also increased by 3K Tonnes in last decade (2007-17).



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