

# **Global Impact of Land Squeeze**

For Prelims: International Panel of Experts on Sustainable Food Systems (IPES-Food), National Land Records Modernization Programme (NLRMP), National Food Security Act (NFSA), 2013, National Mission on Sustainable Agriculture (NMSA)

**For Mains:** Key takeaways regarding land squeeze from International Panel of Experts on Sustainable Food Systems (IPES-Food) Report, Land Use in India, India's Initiatives to Tackle the Issue of Land Squeeze and Food Insecurity

#### **Source: DTE**

## Why in News?

A recent study conducted by the <u>International Panel of Experts on Sustainable Food Systems</u> (<u>IPES-Food</u>) focusses on the unprecedented 'land squeeze', threatening farmers and food production.

• Land squeeze refers to the situation where the **demand for land for various purposes** (agriculture, urbanisation, infrastructure, etc.) outpaces the available cultivable land.

# What are the Key Highlights of the Report?

- The report warns of prevalent "land squeeze" due to rising land prices, land grabs, and carbon schemes, threatening farmers and food production.
- Globally, the top 1% of the world's largest farms now control 70% of the world's farmland.
  - As land becomes scarce, it can be converted from productive agricultural land to other uses, impacting food production
- Between 2008-2022, there has been a doubling of global land prices.
  - This increase has been particularly pronounced in Central-Eastern Europe, where prices have tripled.
- "Green grabs," land acquisitions are evidently motivated by environmental concerns, now account for approximately 20% of large-scale land deals.
  - Green grabbing refers to the large-scale acquisition or control of land and resources for environmental purposes, often with negative social and economic consequences. It's essentially land grabs done under the guise of environmental protection.
- Over half of the land designated by governments for **carbon removal projects** presents a potential risk of interference with the livelihoods of small-scale farmers and Indigenous people.
  - Carbon offset markets are expected to quadruple in the next 7 years

### What are the Key Reasons Behind Land Squeeze?

- Land Grabs:
  - Large-scale acquisitions of land by governments, corporations, and speculators are displacing farmers and Indigenous communities.
  - These acquisitions are mainly for **resource extraction** (mining, logging)

or export-oriented agriculture.

- Rising Population and Demands:
  - The increasing global population along with the huge demand for food, feed, fiber and fuel is putting lots of pressure on the availability of the land.
- Shifts in Global Food Production Systems:
  - It involves the transfer of large areas of land towards industrial agriculture like
     Concentrated Animal Feeding Operations (CAFO) and monoculture farming practices.
    - Industrial agriculture is the large-scale, intensive production of crops and animals, often involving chemical fertilizers on crops and harmful use of antibiotics in animals.
  - Also, there has been increased demand for land for biofuels and other non-food uses.

#### What is the Status of Land Use in India?



- India's Initiatives to Tackle the Issue of Land Squeeze and Food Insecurity:
  - Land Management and Utilisation:

- National Land Records Modernization Programme (NLRMP)
- Formation & Promotion of 10,000 FPOs
- Improving Productivity and Reducing Food Wastage:
  - National Food Security Act (NFSA), 2013
  - Mission for Integrated Development of Horticulture (MIDH)
  - Pradhan Mantri Gareeb Kalyan Anna Yojana (PMGKAY)
- Programs for Land and Soil Conservation:
  - Soil Health Card Scheme
  - Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).
  - National Mission on Sustainable Agriculture (NMSA)

## What are the Key Impacts of Land Squeeze?

- Loss of Access and Control for Farmers and Rural Communities:
  - Displacement and Dispossession: Land grabs and other pressures force small-scale farmers and indigenous communities off their land, disrupting their livelihoods and traditional ways of life.
  - Threatens Food Security: With fewer farmers and less land available for food production, overall food security becomes threatened, particularly for local communities.
  - Weakened Bargaining Power: Loss of <u>land ownership</u> puts farmers at a disadvantage in negotiating fair prices for their products from powerful agribusinesses.
  - Exacerbated Rural Poverty: Limited access to land restricts opportunities for rural populations, trapping them in a cycle of poverty.
- Environmental Degradation:
  - Unsustainable Practices: The focus on large-scale, export-oriented agriculture
    often leads to unsustainable land use practices, such as <u>deforestation</u>, soil depletion, and
    overuse of water resources.
  - Loss of Biodiversity: Land conversion for mining, infrastructure, and industrial agriculture destroys natural habitats and threatens biodiversity.
  - Increased Vulnerability to Climate Change: Degradation of soil health and loss of natural vegetation weaken ecosystems, making them more vulnerable to <u>climate</u> <u>shocks</u>.
- Social Unrest and Conflict:
  - **Competition for Resources**: Competition for scarce land resources can lead to **social tensions and conflicts** between communities and investors.
    - According to the report by IPES-Food, over half of the land designated by governments for <u>carbon removal projects</u> presents a potential risk of interference with the <u>livelihoods</u> of small-scale farmers and indigenous people.
  - Instability and Outmigration:
    - Loss of land and livelihood opportunities triggers <u>rural-urban migration</u>, putting pressure on urban resources and social services.

#### What are the Recommendations of the Report?

- Halt Land Grabs: Policies and regulations are needed to prevent land grabs and ensure land use decisions prioritise local communities and food security.
- **Support Small-Scale Farmers**: Investments in rural infrastructure, secure land tenure, and access to financing are crucial for empowering small-scale producers.
- **Sustainable Land Management:** Promote practices that protect soil health, conserve biodiversity, and ensure long-term food production.
- **Fair Trade Policies:** Trade agreements should be reformed to promote sustainable agriculture and protect the livelihoods of small-scale farmers.

#### Conclusion

The land squeeze is a complex issue demanding a multifaceted solution. By addressing the underlying causes and supporting small-scale food producers, we can ensure equitable access to land, protect our environment, and build a more sustainable food system for the future.

#### **Drishti Mains Question:**

Q. Highlighting the threats of land squeeze discuss the land use pattern of India and challenges associated with it.

#### **UPSC Civil Services Examination Previous Year Question (PYQ)**

#### **Prelims**

- Q. With reference to the provisions made under the National Food Security Act, 2013, consider the following statements: (2018)
  - 1. The families coming under the category of 'below poverty line (BPL)' only are eligible to receive subsidised food grains.
  - 2. The eldest woman in a household, of age 18 years or above, shall be the head of the household for the purpose of issuance of a ration card.
  - 3. Pregnant women and lactating mothers are entitled to a 'take-home ration' of 1600 calories per day during pregnancy and for six months thereafter.

## Which of the statements given above is/are correct?

(a) 1 and 2 only

**(b)** 2 only

(c) 1 and 3 only

(d) 3 only

Ans: (b)

PDF Refernece URL: https://www.drishtiias.com/printpdf/global-impact-of-land-squeeze