



TATHASTU
Institute of Civil Services

DAILY CURRENT AFFAIRS



4th March, 2024

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S.NO.	TOPIC
1.	WHITE REVOLUTION 2.0
2.	PRELIMS POINTERS

WHITE REVOLUTION 2.0

SOURCE: [THE INDIAN EXPRESS](#)

TAG: GS Paper III- **Economics of Animal-Rearing.**

Practice Question:

Mains

Q. "Assess the socio-economic impact of India's White Revolution, its role in rural development, and challenges for sustainable growth." (10 Marks)

WHY IN NEWS?

- ❖ According to the **2022-23 Household Consumption Expenditure Survey**, milk has become the **primary food expense for Indians**, encompassing **both rural and urban regions**.

WHAT IS WHITE REVOLUTION?

- ❖ Launched on **January 13, 1970**, the **White Revolution**, also known as **Operation Flood**, stood as the **world's most extensive dairy development initiative**, marking a **significant milestone for India's National Dairy Development Board (NDDB)**.
- ❖ The **success** of this initiative can be attributed to the **Amul trio: Verghese Kurien, Tribhuvandas Patel, and Harichand Dalaya**.
- ❖ **OBJECTIVES OF THIS INITIATIVES:**
 - Boosting **milk production**
 - Enhancing **rural incomes**
 - Ensuring **equitable prices for consumers**
 - **Elevating income, alleviating poverty** among involved farmers, and maintaining a consistent milk supply.
- ❖ **PHASES OF THIS PROGRAM:**
 - **PHASE I:** Operation Flood connected **18 major milk sheds** to metropolitan cities, establishing mother dairies in Delhi, Mumbai, Kolkata, and Chennai.
 - **PHASE II:** This initiative **expanded to 136 milk sheds and 290 urban outlets by 1985**, creating a **self-sustaining system with 43,000 village cooperatives and 4,250,000 milk producers**.
 - **PHASE III:** This phase concentrated on **strengthening infrastructure**, offering **veterinary care, health services, feed, and artificial insemination** to co-op members. **Member education** fostered higher milk procurement and marketing.

SUCCESS ACHIEVED IN WHITE REVOLUTION

- It turned India from a **milk-deficient country** into the **top global milk producer**, overtaking the **United States in 1998**.
- **By 2018**, India contributed around **22.29 percent to the world's milk production**.
- In just three decades, it **doubled the per capita milk availability** in India and **established dairy farming** as the country's most significant and **self-sustaining source of rural employment**.



- The making of **skim milk powder** from **buffalo milk**, known as the **Anand Pattern Experiment** at Amul, played a crucial role in the **program's achievements**.
- **Niti Aayog** projects a **rise in India's milk production to 330 million metric tonnes by 2033–34 from the present 176 mt.**

CRITICISMS OF WHITE REVOLUTION

- **Some experts** argue that the **White Revolution in India** has **favoured high-yield breeds**, leading to the **decline of indigenous breeds**.
- They assert that **foreign breeds, while more productive, demand more feed and are ill-suited for Indian conditions**.
- Key challenges include **expensive and impractical milk collection from remote areas, unsanitary livestock conditions, and inadequate marketing resources**.
- The **benefits of the White Revolution** have **not adequately reached small-scale and marginalized farmers**, limiting its **impact on inclusive growth**.
- The focus on **raw milk production** may **limit opportunities for value addition, processing, and diversification into dairy-based products**, potentially hindering economic growth.

WHY IS THERE A NEED FOR WHITE REVOLUTION 2.0?

White Revolution 2.0, a proposed initiative in India, aims **to modernize the dairy industry**. It focuses on:

- **Boosting Efficiency and Productivity:** This involves improving cattle breeds, feed practices, and adopting technologies like milking machines.
- **Enhancing Milk Quality and Processing:** Upgrading infrastructure to ensure better quality dairy products and reduce spoilage.
- **Farmer Welfare:** Ensuring fair prices, providing veterinary services, and promoting farmer cooperatives for collective benefits.
- **Diversification and Market Expansion:** Encouraging the production of various dairy products beyond liquid milk and exploring export opportunities.
- **Sustainability:** Promoting practices that minimize environmental impact, such as improving manure management and optimizing water usage.



WAY TO FORWARD

- Promote **preference to indigenous breeds** like Sahiwal and Sindhi.
- **Use of Sex-Sorted Semen:** Enhances the **likelihood of female calves**, increasing the number of potential milk-producing cows.
- **Targeted Breeding Programs:** Selecting animals with desirable traits, like high milk production, to improve genetics.
- **New Breeding Technologies:** Advancements like genomic selection for more precise breeding decisions.
- Incentivize the **transition to organic dairy farming**, reducing reliance on synthetic inputs and promoting healthier practices.



PRELIMS POINTERS:

1st March, 2024

TOPIC	DESCRIPTION
<p>RUPA TARAKASI OF ODISHA AND BANGLAR MUSLIN RECEIVE- GI TAG</p>	<p>WHY IN NEWS?</p> <ul style="list-style-type: none"> ❖ <i>Granting GI tag to Cuttack Rupa Tarakasi and Banglar Muslin celebrates their cultural importance, preserving artisanal heritage and showcasing India's rich traditions worldwide.</i> <p>WHAT IS A GI TAG?</p> <ul style="list-style-type: none"> ❖ Definition: Marks products with specific geographical origins. ❖ Purpose: Prevents unauthorized use, protects from imitation. ❖ Validity: Lasts 10 years after registration. ❖ Regulation: Governed by the Geographical Indications of Goods Act, 1999. overseen by the Ministry of Commerce and Industry. ❖ Protection: Ensures adherence to TRIPS agreement. <p>ABOUT RUPA TARAKASI:</p> <ul style="list-style-type: none"> ❖ Known as "Silver Filigree," is a highly intricate form of silver craftsmanship. ❖ Originating from Odisha, "tarakasi" means wire design in Odia and 'kasi' means design. ❖ Odissi dancers often wear jewellery made using the Tarakasi technique. ❖ Artisans also use Tarakasi to craft miniature models of landmarks like the Jagannath temple and Konark temple.  <p>ABOUT BANGLAR MUSLIN:</p> <ul style="list-style-type: none"> ❖ Traditional handloom craft from Bengal. ❖ Crafted from the finest cotton muslin with impressive tensile strength. ❖ Threads spun from cotton boast high tensile strength, ranging from 300 to 600 counts. ❖ Renowned for its quality and craftsmanship in cotton textiles.  <p>OTHER PRODUCTS GRANTED GI TAG:</p> <ul style="list-style-type: none"> ❖ <i>Ratlam Riyawan Lahsun (Garlic), Ambaji White Marble, Tripura Risa Textile, Hyderabad Lac Bangles, Majuli Mask of Assam, and Assam Majuli Manuscript Painting are among the products that also received the GI tag.</i>
<p>SNAKE GENES: EVOLVED 3X FASTER</p>	<p>WHY IN NEWS?</p> <ul style="list-style-type: none"> ❖ <i>Study unveils snakes' rapid evolution, outpacing lizards after dinosaurs. Genetic insights highlight snake-specific changes, shedding light on evolutionary mysteries for ecological predictions.</i>



KEY FINDINGS OF THE STUDY

- ❖ **Snakes' Rapid Evolution:**
 - ☛ Snakes **evolved three times faster than lizards**, exploiting new habitats **post-dinosaur extinction**.
 - ☛ Largest genetic study revealed **snakes' swift adaptation**, driving species diversification.
- ❖ **Lizards' Adaptation:**
 - ☛ Some lizards **mirrored snake traits**, losing limbs and **elongating bodies**.
 - ☛ Lerista lizards showed remarkable **limb malleability**, undergoing frequent evolutionary changes.
- ❖ **"Singularity of Snakes":**
 - ☛ Rapid evolutionary changes in snakes **akin to a cosmic Big Bang event**.
 - ☛ Snakes diversified **into over 4,000 species**, mastering various **ecological niches**.
- ❖ **Dietary Preferences:**
 - ☛ Snakes specialized in **small vertebrate prey**, while lizards preferred **insects and invertebrates**.
 - ☛ Prey availability alone **insufficient to explain snake diversity**.
- ❖ **Genetic Insights:**
 - ☛ **Sonic hedgehog gene alterations** linked to **snake-specific limb reduction**.
 - ☛ Understanding evolutionary bursts crucial for predicting ecological futures.





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