



Earth Overshoot Day 2025

Why in News?

[Earth Overshoot Day](#) occurred on **24th July** this year(2025), marking the **earliest date ever** when humanity's demand for ecological resources surpasses what the Earth can regenerate in a year.

- This means humans have consumed an entire year's worth of resources in **under seven months**.

A Year's Worth Of Earth's Resources Used Up In 7 Mths

Month in which Earth Overshoot Day came in these yrs...



Key Points

- **Definition:** Earth Overshoot Day marks the date when humanity's demand for **ecological resources and services** exceeds the Earth's capacity to regenerate them in that year.
- **Inception:** The idea of Earth Overshoot Day was first proposed by **Andrew Simms** of the UK think tank New Economics Foundation.
 - The **New Economics Foundation** partnered with **Global Footprint Network** in 2006 to launch the campaign. Since 2007, the [World Wide Fund \(WWF\)](#) has collaborated on the initiative.
 - **Calculation:** **Global Footprint Network** hosts and calculates the event based on the **National Footprint and Biocapacity Accounts**, maintained by **York University**.
 - The **data is updated annually** to reflect the most accurate and current global

consumption patterns.

▪ **Formula:**

$$\text{Earth Overshoot Day} = \left(\frac{\text{Earth's Biocapacity}}{\text{Humanity's Ecological Footprint}} \right) \times 365$$

▪ **Biocapacity vs. Ecological Footprint:**

- **Biocapacity:** The amount of **ecological resources** Earth can regenerate in a given year (e.g., forests, grazing lands, croplands).
 - Represents the Earth's productive land and sea areas, including forests, grazing lands, cropland, and fishing grounds.
- **Ecological Footprint:** The total demand humanity places on these resources (including food, timber, space for urban infrastructure, and carbon dioxide absorption).
 - Measures a **population's demand** for resources like food, fiber, timber, and space to absorb CO₂ emissions from **fossil fuels**.

▪ **Global Impact:**

- **Ecological Deficit:** When a region's demand exceeds its ecological supply, it runs an ecological deficit. This deficit is addressed by **importing resources, over-exploiting local ecosystems** (like overfishing), and emitting CO₂ into the atmosphere.
- **Global Overshoot:** At a global scale, **ecological deficit and overshoot** are synonymous, as there's no net import of resources to the planet.

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