

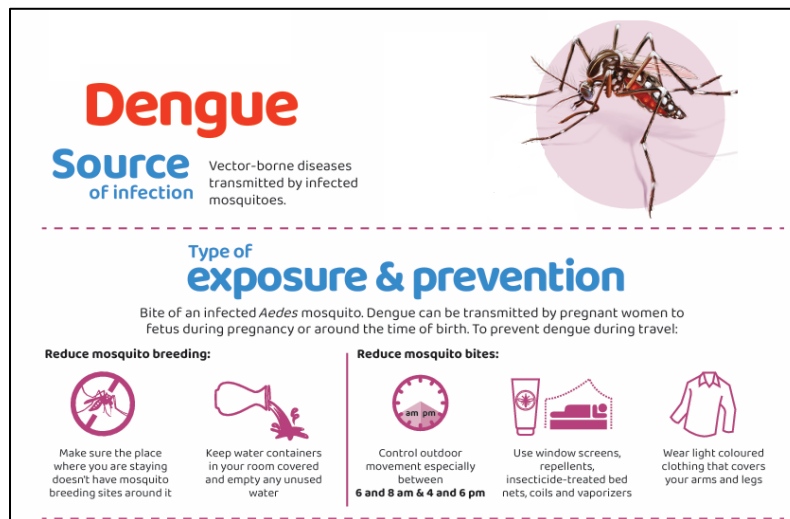
December - 01

TNPSC BITS

- ❖ The first “Global Conference of The International Co-operative Alliance” was inaugurated in New Delhi.
- ❖ The book, ‘Beyond the Higgs Boson: The W Boson and Dr. Ashutosh Kotwal's Quest for the Unknown’ is authored by Manik Kotwal and translated by Jerry Pinto.
- ❖ Andhra Pradesh’s famous Narasapuram lace craft has bagged the prestigious Geographical Indication (GI) tag.
- ❖ Industrialist and Essar Group Chairman Shashikant Ruia passed away.
- ❖ Ashoka University's Professor Projit Bihari Mukharji was awarded 2024 Pfizer Award for Groundbreaking Book “Brown Skins, White Coats: Race Science in India, 1920–66”.
- ❖ India has inaugurated its first green hydrogen fuelling station in Leh, Ladakh.
- ❖ Hindalco has been ranked the world's most sustainable aluminium company in the Dow Jones Sustainability Indices (DJSI) for five consecutive years- 2020 - 2024.

TAMIL NADU

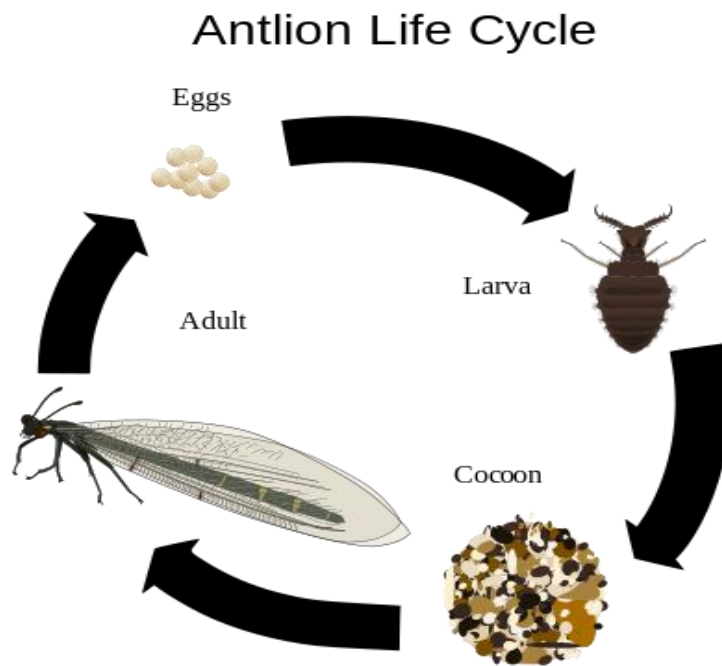
Low dengue prevalence in Tamilnadu



- ❖ As many as 75% of people, who are treated for fever currently, have been diagnosed to have contracted flu viruses.

- ❖ The incidence of dengue is under control and there has been a source reduction of Aedes mosquitoes that transmit dengue.
- ❖ The National Institute of Epidemiology of Chennai, study in 2017, has found that dengue IgG was very high at 77%”.
- ❖ Now, only 3.76% of the female Aedes mosquito pools were positive for DENV.

Antlions in Tamil Nadu

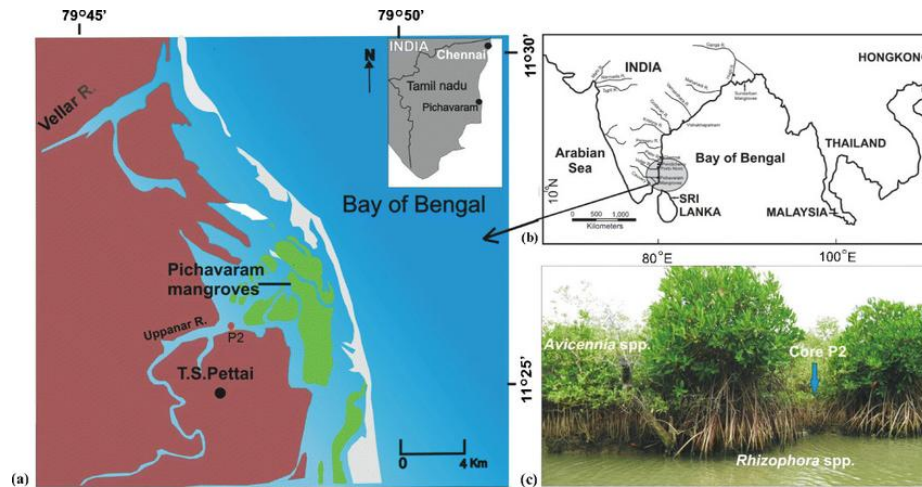


- ❖ Researchers spotted a large-sized adult antlion, *palpares contrarius* in Chennai.
- ❖ Though it looks like a dragonfly, it has an antenna and a distinct fluttering flight which separates it from them.
- ❖ Antlions are found mostly in Africa, Myanmar, Thailand, and Sri Lanka and are seen in isolated parts of India such as Odisha, Maharashtra, Karnataka, Mizoram, Uttarakhand, and Madhya Pradesh.
- ❖ The incidence of *palpares contrarius* in MCC is a new record in Tamil Nadu.

Sea level rise impact in Tamilnadu

- ❖ A recent study warns that rising sea levels could result in the loss of thousands of hectares of mangrove cover in Tamil Nadu's Pichavaram and Muthupet regions.
- ❖ Up to 2,382 hectares of mangrove forest in the Muthupet region and 413 hectares in Pichavaram could be submerged by 2100 due to sea level rise.

- ❖ The study estimates that the loss of these coastal forests would result in the release of 2.24 Tg (teragram) of carbon from the Muthupet and Pichavaram regions, contributing to climate change.



Pilot project of LPG Kits – Tamilnadu

First in India: TN To Replace Kerosene Boat Engines

Tamil Nadu is launching a ₹1.90 crore pilot project, the first of its kind in India, to replace kerosene-powered outboard motors with LPG engines in 150 fishing boats across Tirunelveli, Thoothukudi, and Kanniyakumari districts. The new engines will reduce carbon monoxide emissions and significantly lower fuel costs. The initiative aims to enhance environmental sustainability and improve fishermen's health. The government has also sanctioned subsidies for OBM replacements and commercial LPG cylinders.

- ❖ The Fishing boats with marine outboard motors (OBM) using kerosene will soon become environment-friendly.
- ❖ They will get liquefied petroleum gas-powered outboard engines to replace their kerosene-driven ones.
- ❖ 150 such boats in Tirunelveli, Thoothukudi and Kanniyakumari districts will get LPG kits.



- ❖ Tamil Nadu is the first State to introduce such a pilot project to do away with the polluting kerosene as fuel.
- ❖ CO emission in kerosene engines was 1.2%, whereas in LPG ones, it was only 0.32%.

NATIONAL

Basic animal husbandry statistics 2024

Items	2022-23	2023-24	Y-0-Y
Milk Production (million tonnes)	230.58	239.30	3.78%
Meat Production (million tonnes)	9.77	10.25	4.95%
Egg Production (billion nos)	138.38	142.77	3.17%
Wool Production (million kg)	33.61	33.69	0.22%
Per Capita Milk Gm/Per day	459	471	2.61%
Per Capita Egg (numbers per annum)	101	103	0.98%

- ❖ It is based on the outcomes of the Integrated Sample Survey conducted for the period from March 2023 to February 2024.
- ❖ The total Milk production in the country is estimated as 239.30 million tonnes during 2023-24.
- ❖ It registered a growth of 5.62% over the past 10 years which was 146.3 million tonnes in 2014-15.
- ❖ Further, the production has also increased by 3.78% during 2023-24 over the estimates of 2022-23.
- ❖ The top five milk producing States during 2023-24 was Uttar Pradesh with a share of 16.21% of total milk production followed by Rajasthan (14.51 %), Madhya Pradesh (8.91 %), Gujarat (7.65 %), and Maharashtra (6.71 %).
- ❖ The total Egg production in the country is estimated as 142.77 billion nos. during 2023-24.
- ❖ It registered a growth of 6.8% growth over the past 10 years as compared to the estimates of 78.48 billion numbers during 2014-15.

- ❖ Further, the production has also increased annually by 3.18% during 2023-24 over 2022-23.
- ❖ The major contribution in the total Egg production comes from Andhra Pradesh with a share of 17.85 % of total Egg production followed by Tamil Nadu (15.64 %), Telangana (12.88%), West Bengal (11.37%) and Karnataka (6.63 %).
- ❖ The total Meat production in the country is estimated as 10.25 million tonnes during 2023-24.
- ❖ It registered a growth of 4.85 % over the past 10 years as compared to the estimates of 6.69 million tonnes in 2014-15.
- ❖ Further, the production was increased by 4.95 % in 2023-24 over 2022-23.
- ❖ The major contributor is West Bengal with 12.62 % share and followed by Uttar Pradesh (12.29%), Maharashtra (11.28 %), Telangana (10.85 %) and Andhra Pradesh (10.41 %).
- ❖ The total Wool production in the country is estimated as 33.69 million kg during 2023-24 registered a slight growth of 0.22% over last year.
- ❖ It was 36.76 million kg during 2019-20 and 33.61 million KG in previous year.
- ❖ The top contributor is Rajasthan with a share of 47.53% followed by Jammu & Kashmir (23.06%), Gujarat (6.18%), Maharashtra (4.75%) and Himachal Pradesh (4.22%).
- ❖ India is leading in milk production globally whereas 2nd in Egg production.

TeacherApp



- ❖ In a move to enhance the quality of education, the Union government launched the TeacherApp in New Delhi.
- ❖ This digital platform aims to equip teachers with the skills needed to navigate 21st-century classrooms, fostering continuous professional development.

- ❖ It provides over 260 hours of high-quality content, including courses, videos, podcasts, webinars, quizzes, and more.
- ❖ It is aimed at enhancing teaching practices and boosting student engagement.

INTERNATIONAL

Gelephu - Mindfulness City

- ❖ India is supporting to the 2,500 square kilometre “Zero Carbon” city being developed in Gelephu, Bhutan.
- ❖ It is a Special Administrative Region (SAR).
- ❖ It will have its own government and have the independence to have its own lawmaking, as well as an independent judiciary.
- ❖ It will have two protected areas - a national park and a wildlife sanctuary.
- ❖ The 'Mindfulness City' project has been envisioned by the King of Bhutan, Jigme Khesar Namgyel Wangchuck.



ENVIRONMENT

COP29 - Climate Finance Agreement

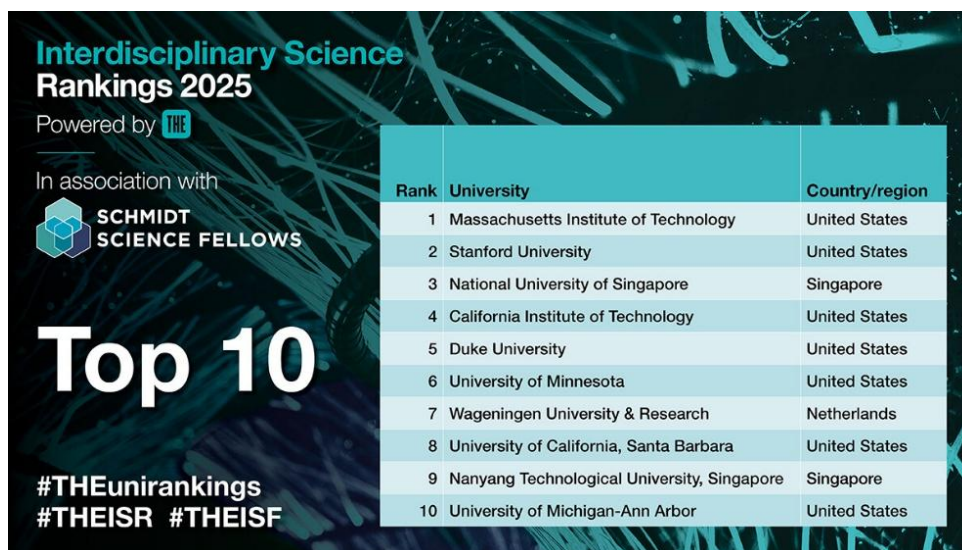
- ❖ The developed countries managed to force an agreement at the COP29 meeting in Baku, promising to put together just 300 billion dollars a year, that too from 2035.
- ❖ But the developing countries had been asking for the NCQG to be set at 1.3 trillion dollars every year.

- ❖ The target, or new collective quantified goal (NCQG), will replace the existing \$100 billion goal that is due to expire in 2025.
- ❖ India does not accept the goal proposal in its present form.
- ❖ In 2009, the developed countries had offered to raise 100 billion dollars a year from 2020.



REPORTS AND INDICES

THE Interdisciplinary Science Rankings 2025



- ❖ India has emerged as the most represented nation, featuring 65 universities in the rankings.
- ❖ The Anna University has achieved the highest position among Indian institutions, securing the 42nd rank globally.



- ❖ It was followed by VIT University, ranked 65th, and the SRM Institute of Science and Technology (84th).
- ❖ Singapore stood out as the only Asian country in the top 10
- ❖ Asia remains the most represented continent in the top 100, with 47 universities.
- ❖ Massachusetts Institute of Technology – US topped in the rank.
- ❖ It is followed by Stanford University-US and National University of Singapore.

IMPORTANT DAYS

World Conjoined Twins Day 2024 - November 24

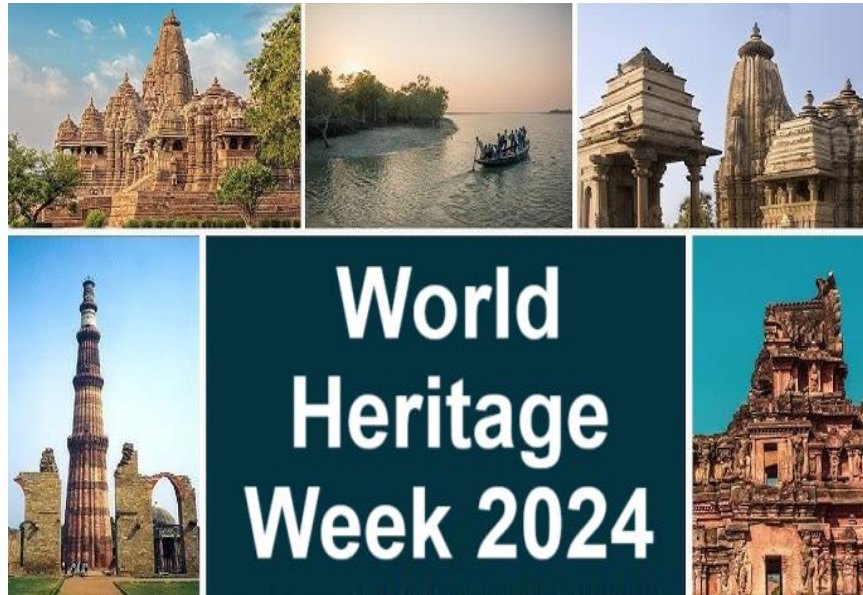
- ❖ This year marks the 1st observance of this day.
- ❖ It aims to raise awareness about conjoined twins, support their well-being, and promote their social inclusion.
- ❖ The case of conjoined twins is a rare condition where the estimated incidence can be 1 in 50,000 births.



World Heritage Week 2024 - November 19/25

- ❖ It aims to spread awareness about the traditions and cultures of different parts of the world.

- ❖ The ASI has protected over 3,650 ancient monuments and archaeological sites across the country.
- ❖ The theme for 2024 is “Discover and Experience Diversity.”



Aviation Safety Awareness Week 2024 - November 25/29



- ❖ It is observed annually during the last week of November to reinforce the industry’s commitment to ensuring safety in all aspects of aviation.
- ❖ India’s civil aviation journey just began in 1911 with the first commercial flight between Allahabad and Naini.
- ❖ The launch of Tata Airlines in 1932, marking the start of scheduled air services in India.



- ❖ India entered in the International Civil Aviation Organization (ICAO) in 1947.
- ❖ Today, India ranks as the third-largest domestic aviation market globally.

