



BASAI News Updates

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CROP DIVERSIFICATION



42.77

Farmers of Punjab and Harvana are not able to move to the next level ofagricultural development through diversification crops as the old system

towards high-value of incentives for paddy is continuing, even though Punjab and Haryana are more suitable for the cultivation of commercial crops such as maize, pulses, oilseeds, fruits and vegetables. Continuation of paddy cultivation is a low-income trap for the farmers of both states.

GRICULTURAL incentives, intended to safeguard farmers' incomes while achieving solf-sufficiency in food security, are resulting in unintended negative consequences such as distortion of the cropping pattern and inefficient use of natural resources due to ineffective planning and implementation. Incentives provided for padity production across the country are a typical example of meptly planned schemes that have led to a flawed production system and excessive use of scarce groundwater, apart from adding to the government's fiscal burden.

A. AMARENDES REDDY

While incentives are necessary for protecting the incomes of farmers from the vagaries of the weather and volatile market prices, they need to be properly planned, constaritly monitored and evaluated for their effectiveness and impact so that the crop output is maxmired with judicious use of resources without having significant negative implications for the

ecosystem and the stakeholders. Free electricity for agriculture, fertiliser subsidy and incentives for the adoption of high-yielding varieties of paddy in Punjah, Haryana and western Uttar els and higher electricity con- Chhattingarh, 40 cm in Prodesh in the late 1960s ushered sumption. Irrigation water proin the Green Revolution and saved the country from starvation and famine, making India self-sufficent on the food front. By the Haryana compared to eastern water productivity deg of 1500s. Punjab and Haryana farm- India, However, huge subsidy in paddy per in' of irrigaadequade market infrastructure for procurement. However, farmers in the next level of agricultural develcoment through diversification towards high-value crops as the old system of incentives for paddy is tune of Re 2-3 lakh crore annual with the motio of 'more crop per

Relative water requirement (mm) in a crop season

continuing, even though Punjab and Haryana are more suitable for the cultivation of commercial crops such as maize, pulses, oilseeds, fruits and vegetables. Purther, profitability in paddy cultivation, although stable, is not comparable with that of high-value crops. Farmers'areas that shifted from paddy to other crops saw a rise in profitability in recent years. Con-Punjab and Haryana.

Farmers of Punjab, Haryana the Indian Council for and western UP are still incentivised (free electricity to pump groundwater) to cultivate paddy tions (ICRIER) indiwith price guarantee through cated 100% procurement. Producing paddy in these states is costly applied for paddy cultidue to deeper groundwater levductivity - grain produced per compared to 180 cm unit of irrigation water - is in Punjab and 110 cm in Telanmuch less in Punjab and gana. Similarly, irrigation subsidies. These out-of-sync subsidies cost the government to the

ly, while encouraging an unsustainable cropping pattern. In contrast, these incentives are

not reaching farmers in states

such as Bihar West Bengal,

24.96

of maize in India

33.18

2019 2025 2030

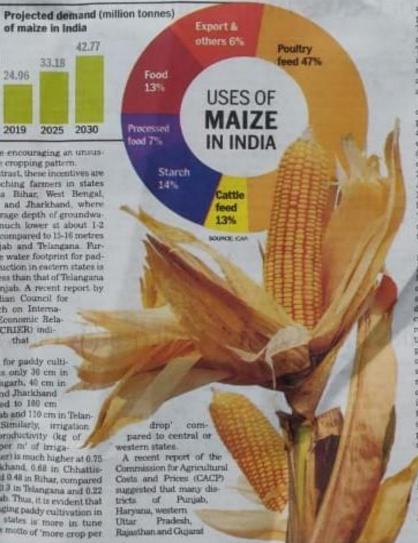
Odisha and Jharkhand, where the average depth of groundwater is much lower at about 1-2 metres compared to 15-16 metres in Punjab and Telangana Purther, the water footprint for padtimustion of paddy cultivation is a dy production in eastern states is low-income trap for the farmers of much less than that of Telanguna and Punjab. A recent report by Research on International Economic Relavation is only 30 cm in Bihar and Jharkhand es' productivity soared, thanks to the form of free electricity to tion water) is much higher at 0.75 pump groundwater is encourag- in Jharkhand, 0.68 in Chhattieing paddy production, thorough- garh and 0.48 in Rihar, compared these states are not able to move to. By supported by assured procure- to only 8.3 in Triangana and 0.22 ment and huge fertiliser in Purple Thus, it is evident that encouraging paddy cultivation in eastern states is more in tune

are not suitable for the cultivation of paddy, whereas some districts of Telangana, Kamataka and Maharightra are moderately mitable. The report suggests that the major ity of the districts in eastern states mach as West Bengal, Bilhar, Oduha and Chhattisgach are highly suitable for paddy cultivation.

As a result of input-intensive agriculture practices in some states, the productivity levels are higher On an average, packfyrjelds are much hurer in Punjab at 60.6 quantillabertary (gha) and Telangana at 51.1 gha compared to 28.9 in Chhartigach, 29.8 in Jharkhand Riber (33.1). Assam (33.1) and Odoha (32.4). Nevertheless, eastern states have better water my efficiency with more crup per drup in paddy cultivation and have the potential to double the road.

In array with ansured irrigation, farmers can be encouraged to erow high-stalue vegetables and horticultural crops. Pulses and celve-dy such as groundout and anybean, apart from being shortduration and less water-intensive crops, can help in the natural restoration of soil fertility. Hence, their cultivation can be widely promoted for crop rotation and/or crop mixes across all suitable states and across the country; it may also help in increasing their domestic production and reducing import dependency. Under the 'one district, one product' scheme, crop colonies are being promoted to spur farmers to switch to high-value crops by providing basic commodity-specific infrastructure such as processing units and post-harvest facilities in each district.

The outher is Principal Scientist. ICAB-Central Research Institute for Dryland Agriculture, Hydershoot



Biological Agri Solutions Association of India



अनिमिया मुक्त हिमाचल अभियान



4th अक्तूबर से 3rd नवम्बर, 2022



इस अभियान के अंतर्गत प्रदेश के 6 माह से 10 वर्ष के करी**ब 11 लाख** बच्चों की अनिमियां स्क्रीनिंग की जाएगी एवं आयरन की कमी **को दूर** करने के लिए दवाई मुफ्त दी जाएगी



इन सभी बच्चों की अपने नजदीकी आंगनवाड़ी केंद्र, सभी विद्यालयों व प्राथमिक स्वास्थ्य केंद्र से अनिमिया की जाँच जरूर करवाएं |







City's butterfly species count dips, experts say patchy rains to blame

This year's count of 67 was lower than the 75 butterfly species found in 2021 and 74 in 2020. Their population density was lower as well, said experts

Jasjeev Gandhiok

jacquery gamiltion @hindustantimes.com

NEW DELHI: This year's Big Butterfly Count from September 1 to 30 has found 67 species of butterflies in the national capital region, including rare sightthes of the dingy swift, common shot silverline, common rose and tailless lineblue.

This year's count was lower than 75 species found in 2021 and 74 in 2020, possibly due to low rainfall in the region during the monsoon, according to Sohail Madan, centre manager at the Bomboy Natural History Society, which celebrates Butterfly Month in September.

The count was conducted during the entire month, unlike a single day, as was done in the initial years, 2017 and 2018.

'Not only has the species count been lower, but the population density of butterflies was also noticed to be considerably less," Madan said.

"Prolonged heat over the summer and a long dry spell from August to mid-September could be the reason behind such low numbers."

However, no notable species were found to be missing, he

Among the most commonly sighted butterflies were the plain tiger, blue tiger, common grass vellow and common emi-

No notable species missing The butterfly count was conducted throughout September this year, unlike a single day, as was done during the initial years, 2017 and 2011 SPECIES 75 74 2122 LOCATIONS RARE SPECIES **OBSERVED IN 2022** O Dingy swift (Comman Common shot rose silverline Tailless lineblue Lamed, James paratic Cay harved Tay Enclave John Stanki Manufacethy Ramed, the America Randworsky Park in Gunggram, Nacta Stanz, along with picks in Calkay and Doubla COMMON SPECIES Plain tiger Blue tiger Common grass yellow Common emigrant **OBSERVED IN 2022**

The Butterfly Month is now an annual occurrence in areas around Delhi, which includes activities such as walking with butterflies, a big butterfly count. butterfly online workshops, a butterfly habitat workshop, a butterfly gardening workshop and a butterfly campus count.

The general public, school and college students, underprivileged groups and children with special needs get involved

The locations covered for this year's count included the Asola

jay Van, Jawaharial Jehru University; parks and pardens in Rohini, Greater Kalash and Saket: Gautam Buth Nagar, in the activities in different sta- Avanagar City Forest, Haur Rani City Forest, Jajanpanah City Forest, Taj Endave City Forest, Garhi Mandi City For-Bhatti Wildlife Sanctuary, San- est, Aravalli Biodivenity Park in and mineralise.

Gurugram, and Neela Haux. along with parks in Kalkaii and

While less rainfall is a key factor behind the low numbers. the bouncing back of activities after the pandemic is also likely to be impacting butterfly numbern, said Surya Prakash, a zoologist from Jawaharial Nehru University who covered areas like Gautam Buddha Nagar. Jawaharlal Nebru University. Sanjay Van and Neela Hauz

"We saw a very high number in 2020 and even in 2021, During both these years, there was less activity outside, be it vehicles, industries or construction activity, due to the lockdown and restrictions." Prakash said. "Butterflies are very sensitive to the environment around them and they thrived most in the lockdown period as human interference was minimal, even in public parks."

A dragonfly survey carried out across the seven biodiversity parks in Delhi last month also suggested significant behavioural changes in the insect's life cycle, likely due to the climate crisis and erratic rainfall patterns

This year, butterflies such as plain tiger, all three varieties of the grass blue, lesser, dark and pale, and common and mottled emigrant were all found in abundance, he said. However, numbers for other species such as the Danaid eggfly, great eggfly and white Arab were lower.

Rain and puddles are important for butterfly breeding, with butterflies often carrying out puddling, an activity where they spend time around damp sand or mud in order to drink water





Source HT 3.10.2022 Delhi Edition