



#### **BASAI News Updates**

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# Freedom consists not in doing what we like, but in having the right to do what we ought. — Pope John Paul II



### PM greets people on Independence Day

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The Prime Minister, Shri Narendra Modi has greeted the people on the occasion of Independence Day.

In a tweet, the Prime Minister said;

"देशवासियों को #स्वतंत्रतादिवस की हार्दिक शुभकामनाएं। जय हिंद!

Greetings on this very special Independence Day. Jai Hind!"

## Foodgrain output set to drop due to uneven monsoon rains

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NEW DELHE: Farmers are racing against the clock to plant key summer crops, which account for nearly half of the country's annual food output. due to a highly uneven monsoon, with the sowing of rice well behind its usual pace.

Acreage under key food crops has been mostly average so far, while the area under rice, the summer staple, has shrunk 12.4% compared to last year's levels, according to official sowing data reviewed by HT. India's foodgrain output is set to dip for the first time after six straight years of record production. A smaller area under rice could cut into harvests amid high cereal prices.

Overall, the area under major kharif crops tracked by the agriculture ministry lags behind last year's levels by 3.7% so far. The area under seven key summer crops stands at 96.3 million bectares, compared to last year's 100.1 million

Robust harvests are critical this year because of a global food crisis. Plentiful summer inflation and drive-up rural

The area under pulses showed a decline of 4%, while the acreage under oilseeds was marginally lower than last year so far. The country imports up to two-thirds of its edible oil requirement, while 16% of domestic demand for pulses is met through imports.

In rain-scaked states, such as Madhya Pradesh and Karnakata, farmers had to go for resowing. Heavy rains in Karnataka, Maharashtra and Madhya Pradesh have hampered the sowing of tur, a key pulses variety, whose total area, at 4.2 million bectares, in lagging by ion. Farmers have planted 3% more coarse crreal and millets compared to last year for this time of the year, the data

In the country as a whole, the June-September monsoon. country's net-sown area, has exports



The area under major kharif crops tracked by agriculture ministry lags behind last year's levels by 3.7% so far.

been cumulatively 8% surplus. However, the rains have

been highly skewed in distribution during July, the most critical month for the planting of crops, the main reason for sluggish sowing. Eastern states have seen rainfall deficits of up to 16%, while southern states expecting only light rain on have seen 37% excess falls.

Poor rains in rice-growing states such as Uttar Pradesh | IMD. (minus 43%), West Bengal (minus 22%) and Bihar (minus 37%) have dragged down paddy sowing. The agriculture minisharvests help keep a lid on try's data showed nearly 4.3 million hectares have gone unplanted with paddy compared to last year.

Traders are worried that the government could impose curbs on rice exports depending on the shortfall of output," said Rahul Chauhan, an analyst with IGrain Pvt Ltd. a commod-

exports in May after an estimated 3% fall in output due to an unseasonal heatwave. A patchy monsoon is expected to fall over Uttar Pradesh and crimp rice output as well.

Currently, the government has enough stocks of rice. On July I, stocks held by the Union government stood at 31.5 million tonne, about 133% more than the buffer requirement of

major exporter of rice. In 2021-22, India exported nearly 21 million tonius of rice, about allocatly deferred in region 21 million tornes of rice, about nitrountly deferred in regions a stath of its total output. A affected by ram deficience

Aug rain fails to make up for deficiency in Gangetic plains

Jayashree Nandi

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NEW DELHI: Rainfall in the first fortnight of August failed to make up the high deficiency over the Gangetic plains, possibly affecting the paddy crop. but heavy showers in the next 2-3 days will continue to lash. central India, which has already seen some flooding and damage to crops due to excessive rains, according to the India Meteorological Depart-

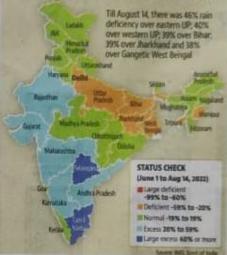
Delhi will see overcast skies and light rain on August 15 but no disruption is expected during Independence Day celebrations at Red fort, "We are Independence Day," said M Mohapatra, director general of

An atmospheric low-pressure area over the northern llay of Bengal intensified into a depression on Sunday, the weather bureau said, bringing Incessant rains over Odisha. and central India. The depression lay around 10km southeast of Digha in West Bengal and 90km east-northeast of Balasore in Odisha on Sunday morning and is likely to move westnorthwestwards in the next 24 hours. "Heavy and widespread rain will be concentrated over Odisha, Chhattisgarh and Madhya Pradesh over the next two days," Mohapatra said. "There may be light to moderate rain-Bihar also, but not enough to compensate for high defi-

Till August 14, there was 46% Uttar Pradesh; 40% over western Uttar Pradesh: 39% over Bihar: 39% over Jharkhand and 38% over Gangetic West Ben-

which waters nearly 60% of the lower output could affect. Farmers can still sow around. and August "sast Palawat." For

Taking stock of monsoon



patterns will change and farmers will go through a lot of difficulties, according to GV Ramanjanevulu, executive director at the Centre for Sustainable Agriculture in Hyderabad.

Paddy and red gram will be very difficult to sow and yields will be low," he said. "There should have been a contingency plan. The farmers need government support and access to seeds for alternative crops."

There is a possibility of showers during August 18-20 in the rain deficient paddy regions, but crop will definitely rain deficiency over eastern be impacted due to the delays, said Mahesh Palawat, vice president of climate and meteorology at Skymer Weather Services, a private forecaster. "We

the end of August, but cropping two to three days, there will be August 18

widespread rain over central

Under the influence of the present weather systems, widespread rainfall is likely over eastern Madhya Pradesh. Jharkhand, Vidarbha, Chhattis garh and Telangana on August 14 and 15: Konkan, Goa, northern Maharashtra and western Madhya Pradesh from August 14 to 16; Gujarat on August 16 and 17: and Odisha till August

Heavy rainfall is likely in Chhattisgarh and Odisha in next 24 hours. Very beavy rainfall is likely over Telangana. southern Jharkhand and Gangetic West Bengal on August 14





Source HT 15.08.2022 Delhi Edition

#### **CUS** AGRICULTURE **OPPORTUNITIES & CHALLENGES**

### Make farming climate-resilient, future-ready

Primary crop production

Global quartet

Four crops (sugarcane,

account for about

crop production.

half of global primary,

food bowl states,

maize, wheat and rice)

Global production of primary

crops was 9.4 billion tonnes in

2019, 53% more than in 2000.

Sugarcane,

maize, wheat, rice

9.4 BILLION

TONNES

1960-61 to 2.83 million ha by 2012.

India has made remarkable

progress in food production. In

2021, India produced 314 MT of

foodgrains, 102 MT of fruits

and 200 MT of vegetables.

110 MT of wheat in 2022, but

because of un-seasonally high

temperature in March, wheat

production was 11 MT less,

causing a rise

MANJITS. KANG

Our agriculture

challenges of

faces the existential

climate change and

water shortage. We

need to be able to

predict the climate

accuracy to tailor

new crop varieties

to the conditions.

In the 'food bowl

cultivation should

water. Rainwater

harvesting centres

need to be set up

in villages. Research

on crops other than

rice and wheat

should be

accelerated.

be reduced to save

states', paddy

with improved

N 1947, India's population was about 330 million and the foodgrain production was around 50 million tonnes (MT). This amount was insufficient to feed the population. India could not purchase foodgrains from other countries because of lack of foreign exchange. The US Public Law 480 allowed India to purchase American foodgrains with rupees. India imported 10 MT of wheat in the early 1960s under the PL 480 programme, as a near-famine situation existed in the country.

Indian leaders were aware, however, that dependence on other countries for food could compromise the nation's freedom. Jawaharlal Nehru gave the highest priority to agriculture by declaring in 1947, "Everything else can wait but not agriculture."

The Indian government established seven agricultural universities in the country in the early 1960s on the pattern of the US land grant universities. Each uni- wheat, with acceptable grain versity had American advisers on colour and quality. Dr DS Athwal, the campus. For example, Punjab Agricultural University (PAU) had advisers from The Ohio State University and the Agricultural University in Pant Nagar was assisted by the University of Illinois.

Prof MS Swaminathan, then at Indian Agricultural Research Insti-

Major producers of main primary crops worldwide (2019)

Maize and Wheat Improvement gorised India as a hopeless case though Centre or CIMMYT) in Mexico, to in his book The Population rice was India in 1963. Seeds of a few good Bomb. This was the beginning of not a food varieties of wheat were imported in unprecedented gains in wheat 1966 from Mexico and distributed productivity in India. Rice proamong agricultural institutes. The new seeds required larger inputs - irrigation, fertilisers and pesticides - than the local varieties. PAU took the lead in develensure food for all citizens. oping new dwarf varieties of a prominent PAU plant breeder,

yielding dwarf wheat 'Kalyan'. Thanks to the improved seeds and technologies developed by PAU, IARI, and other agricultural universities/institutes, India's annual foodgrain production tute (IARI), invited Dr Norman E. increased from 51 MT in 1960-61 Borlaug, who had developed high- to 213 MT in 2007-08, defying the vielding, dwarf wheat varieties at doomsday predictions by Amerithe Rockefeller Foundation (now can ecologist Paul R. Ehrlich,

developed India's first high-

duction showed similar gains. area under rice in India became self-sufficient in Punjab alone increased from a cereal grains by 1974. The Gov- mere 230,000 hectares\* (ha) in ernment of India passed the historic Right to Food Act in 2013 to

The monoculture of the wheatrice cropping system took deep roots in the 'food bowl states' of Punjab, Haryana, and western India was expected to produce UP as the government started purchasing only these two foodsecurity crops at the minimum support price (MSP). Perpetuation of this unsustainable resulted in loss of crop

diversification, soilhealth problems and a serious decline in the whose triage system cate- water table Even

Climate change makes future to be 1.7 billion in 2050. The production uncertain.

that the food bowl states might run this population, India would need out of underground water within to produce 50% more foodgrains 20 years if the exploitative rice- than produced now, 230% more wheat monoculture continues.

tivity (kg per ha) of certain impor- tion, under-nutrition), emphasis tant crops lags at the global level. should be on coarse grains such as India is behind in cereals (3,280 vs millets and biofortification of cere-4,070), cotton (1,380 vs 2,610), soy- als with iron, zinc and vitamin A

productivity are sugar crops (77,350 vs 68,460), castor (6.825 vs 5.315). For example, the gap between India's cereal productivity and the can be increased through the use of cutting-edge, modern genetic agricultural research and develop-

In India, 21 MT of wheat grain is lost annually to rodents, birds, fungi and moisture due to lack of scientific grain storage infrastructure. In addition, based on the UNEP's 2021 report on annual household food waste, India wastes 69 MT of food (50 kg per capita). This is happening even as 200 million people in India go to bed hungry every day.

ment will be needed.

Challenges are always opportunities to innovate - modernise the scientific research infrastructure in agricultural universities and reduce academic inbreeding. India's population is estimated

National Academy of Agricultural Many experts have indicated Sciences estimated that to feed fruits and 90% more vegetables.

As per FAO data, India's produc- To end hidden hunger (malnutri-

bean (930 vs 2,780), and sunflower The government should make (660 vs 1,800). The crops where serious efforts to make the ever-elu-India is ahead of the global sive crop diversification a reality through enhanced investments in the agricultural sector and assured (2,170 vs 1,680), and coconut marketing for alternative crops. Research on crops other than rice and wheat should be accelerated.

The biggest existential challenges global one is 19%. Some of it our agriculture faces are climate change and water shortage. We need to be able to predict the climate with technologies. New investments in improved accuracy to tailor new crop varieties to the conditions. For example, crop breeders would need to have accurate data on future temperatures, expected frequency of droughts and rainfall patterns.

In the 'food bowl states', paddy cultivation needs to be reduced to save water. In addition, rainwater harvesting centres should be established in villages.

The dream of becoming a \$5trillion economy by 2024 can't be fulfilled without proper investments in agriculture. Agriculture cannot be on the waiting list.

Send your feedback to letters@tribunemail.com

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### Taking research to farmers' doorstep

PARVEEN ARORA
TRIBUNE NEWS SERVICE

KARNAL, AUGUST 14

Chairman of Anand-headquartered National Dairy Development Board (NDDB) Meenesh Shah on Saturday announced that the NDDB and the ICAR-National Dairy Research Institute (NDRI) would work together to take the research work to the farmers' doorstep, so that they could get the benefits of the research work done by the NDRI scientists. He was chairing a silver jubilee programme of the Model Dairy plant, a part of the NDRI, which was established in 1997, with an aim to provide commercial dairy training to budding dairy scientists.

"NDRI does research work, and the NDDB does extension activities. We have jointly decided to work together so that all the research should reach to the field for quality breeding and enhancing milk production," said Shab

tion," said Shah.

While counting the challenges in dairy sector, the chairman said enhancing milk production of the milch animals was a major challenge, for which they were working. "In India, average yield of milk of each animal is 5-6 kg per day, while it is 20-25 kg per day in other countries. We are working to enhance the milk production by improving genetic breeding, focusing on animal health care and ensuring good nutrition for animals," said Shah.

On being asked about the lumpy skin disease (LSD), he said it was a viral disease and sufficient vaccine was available to protect animals from the disease.

He also said milk production had been increasing, due to which the per capita availability has also increased. "After Independence, the per capita availability was around 100 gram per person per day, which was now 477 gram per person per day," said Shah.

Dr Manmohan Singh Chauhan, Director, NDRI, said they would provide all kind of support to the NDDB in all fields, so that suitable technologies for the farmers can be developed. "We want the farmer community to know all kinds of dairy-related updates. The NDDB will also support us in taking the research to farmers," said the Director.



Source T 15.08.2022 Delhi Edition