

**GOVERNMENT OF INDIA  
MINISTRY OF EARTH SCIENCES  
LOK SABHA  
UNSTARRED QUESTION NO. 1382  
TO BE ANSWERED ON WEDNESDAY, 31<sup>ST</sup> JULY, 2024**

**EI NINO AND LA NINA EFFECT ON AGRICULTURE**

1382. DR. RAJESH MISHRA:

Will the Minister of EARTH SCIENCES be pleased to state:

- (a) whether the El Nino effect has influenced the rainfall, weather conditions in our country to a great extent;
- (b) if so, the details of rain pattern and its impact on agriculture during the year 2021-22, 2022-23 and 2023-24;
- (c) whether the Government has formed any expert committee to study the La Nina effect on agriculture; and
- (d) if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR  
MINISTRY OF SCIENCE AND TECHNOLOGY  
AND EARTH SCIENCES  
(DR. JITENDRA SINGH)

- (a) Yes. In general, during the El Nino event, Indian summer monsoon is weaker than normal and the intensity of the event also decides the amount of impact on the monsoon. Since 1950, there were 16 El Niño years, out of which 9 years have impacted Indian monsoon rainfall, when rainfall was below normal.
- (b) The details of the rain pattern and the agriculture production during the years 2021-22, 2022-23, and 2023-24 are given in Annexure-1.
- (c) No.
- (d) Does not arise.

## Annexure-1

Percentage of districts with large excess/excess/normal and deficient/large deficient rainfall for the years 2021-2023:

Year	Large Excess, Excess & Normal	Deficient & Large Deficient
2021	77	23
2022	72	28
2023	69	31

### All India: Crop-wise Production

Crop	Production (in Lakh Tonnes)		
	2021-22	2022-23	2023-24
Rice	1294.71	1357.55	1367.00
Wheat	1077.42	1105.54	1129.25
Maize	337.30	380.85	356.73
Barley	13.71	19.13	16.53
Jowar	41.51	38.14	47.42
Bajra	97.81	114.31	106.69
Ragi	17.01	16.91	15.63
Small Millets	3.67	3.84	4.34
Shree Anna/Nutri Cereals	160.00	173.21	174.08
Nutri/Coarse Cereals	511.01	573.19	547.34
Cereals	2883.14	3036.28	3043.59
Tur	42.20	33.12	33.85
Gram	135.44	122.67	115.76
Urad	27.76	26.31	23.00
Moong	31.66	36.76	29.16
Lentil	12.69	15.59	17.54
Other Pulses	23.27	26.14	25.62
Total Pulses	273.02	260.58	244.93
Total Food Grains	3156.16	3296.87	3288.52
Groundnut	101.35	102.97	102.89
Castorseed	16.19	19.80	19.13
Sesamum	7.89	8.02	8.11
Nigerseed	0.33	0.29	0.27
Soybean	129.87	149.85	130.54
Sunflower	2.50	3.63	1.69
Rapeseed & Mustard	119.63	126.43	131.61
Linseed	1.26	1.67	1.19
Safflower	0.61	0.90	0.51
Total Oil Seeds	379.63	413.55	395.93
Sugarcane	4394.25	4905.33	4425.22
Cotton	311.18	336.60	325.22
Jute	97.62	89.89	92.59
Mesta	3.87	4.03	4.54
Jute & Mesta	101.49	93.92	97.13

Data for the year 2023-24 is of 3<sup>rd</sup> Advance Estimates

# Cotton Production in Bales, 1Bale=170 kg

## Jute & Mesta Production in Bales, 1Bale=180 kg

Source: Department of Agriculture & Farmers Welfare, Krishi Bhawan

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