

FOR ALL EXAMS

AGRICULTURE HANDBOOK INDIA + WORLD

BY SUDARSHAN GURJAR (UPDATED)

SOURCE OF THE CONTENT - UNIFIED PORTAL FOR AGRICULTURAL STATISTICS (UPAG)

INDIA YEAR BOOK

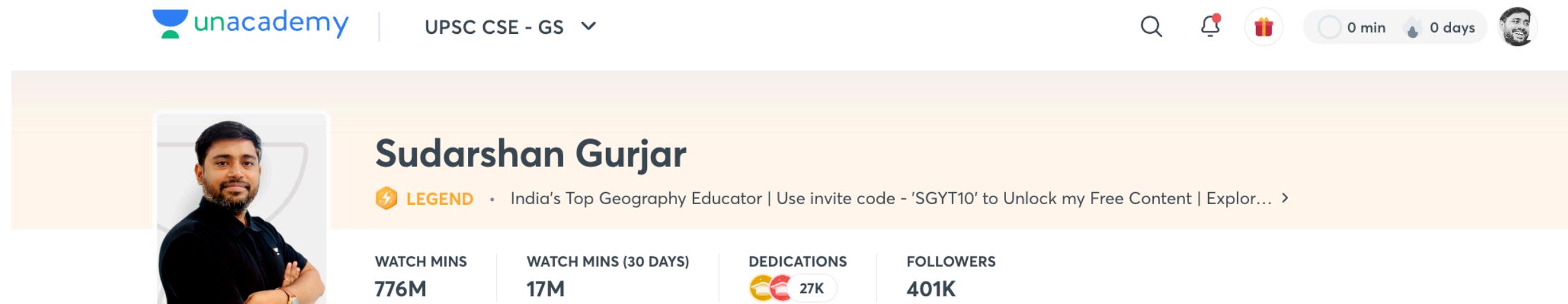
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The image shows a screenshot of an Unacademy profile page for Sudarshan Gurjar. At the top, there's a navigation bar with the Unacademy logo, a dropdown menu for 'UPSC CSE - GS', and various user interface icons like search, notifications, and profile. Below the header is a large profile picture of Sudarshan Gurjar, a man with a beard, wearing a black shirt. To his right, his name 'Sudarshan Gurjar' is displayed in a large, bold, dark font. Underneath his name is a 'LEGEND' badge with an orange lightning bolt icon and the text 'India's Top Geography Educator | Use invite code - 'SGYT10' to Unlock my Free Content | Explore... >'. Below this are four performance metrics: 'WATCH MINS' (776M), 'WATCH MINS (30 DAYS)' (17M), 'DEDICATIONS' (27K), and 'FOLLOWERS' (401K).

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Educator Level

 **LEGEND** in UPSC CSE - GS

Sudarshan Gurjar's bio

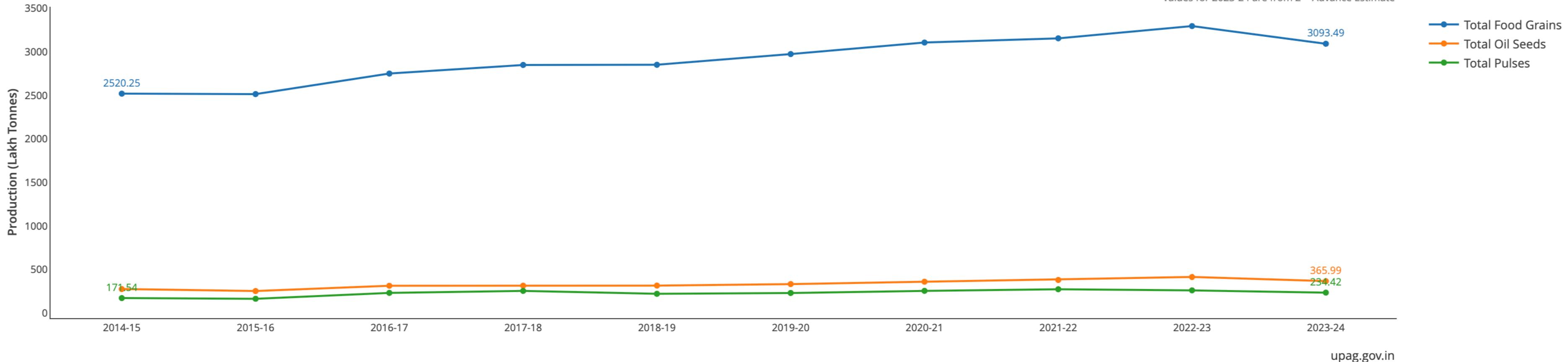
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All India Production Trend, 2014-15 to 2023-24



Source: DA&FW

*Values for 2023-24 are from 2nd Advance Estimate



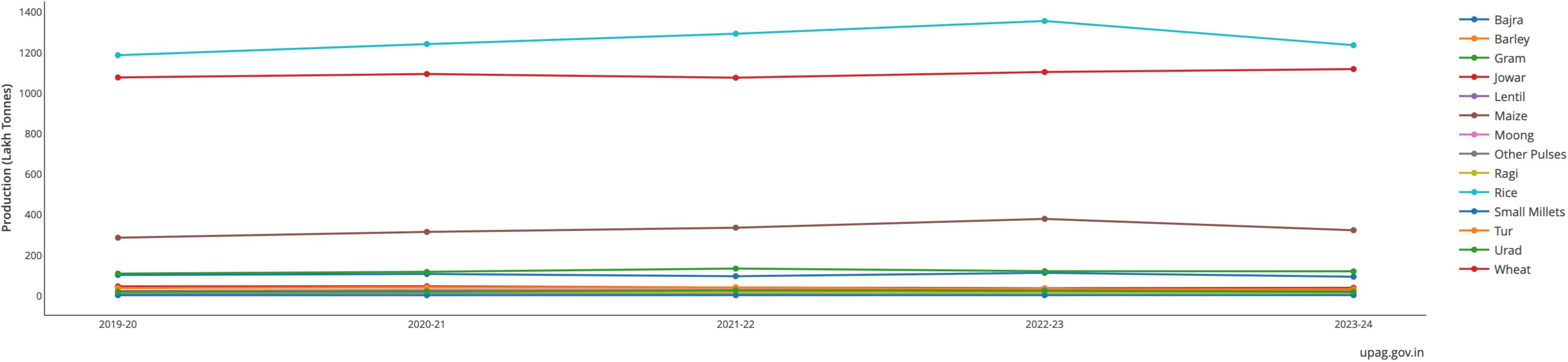
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All India Production Trend, 2019-20 to 2023-24



Source: DA&FW

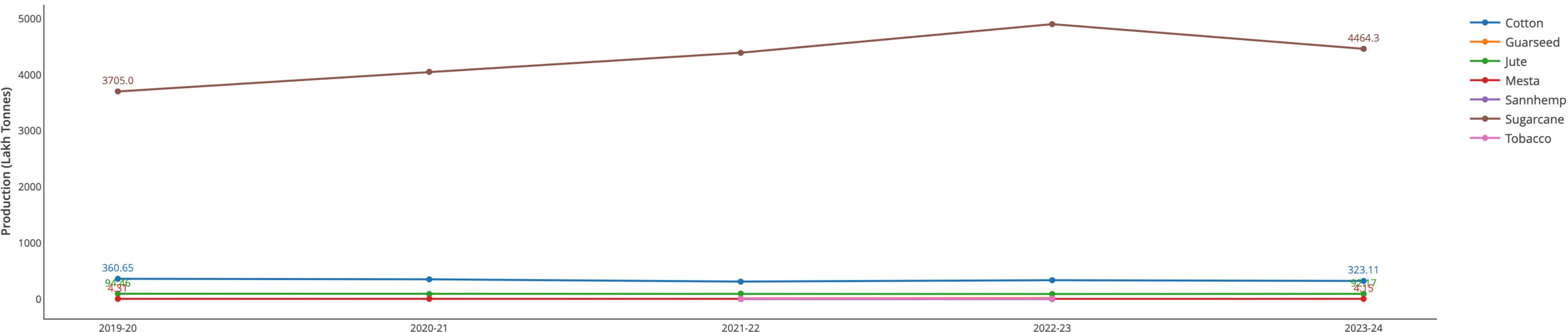
*Values for 2023-24 are from 2nd Advance Estimate



All India Production Trend, 2019-20 to 2023-24

Source: DA&FW

*Values for 2023-24 are from 2nd Advance Estimate

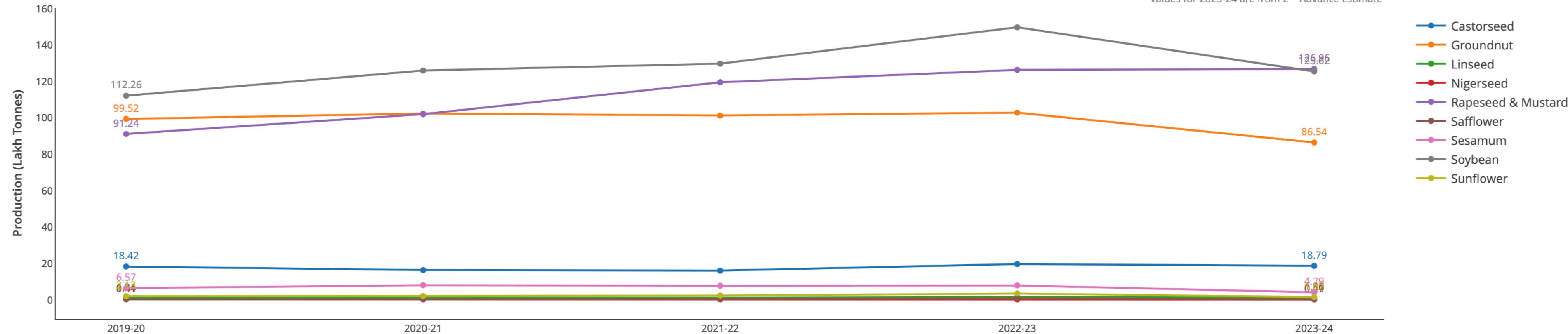


All India Production Trend, 2019-20 to 2023-24

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Source: DA&FW

*Values for 2023-24 are from 2nd Advance Estimate





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होगी?..

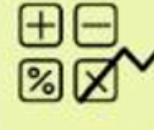
मुझे चीज़ याद
कैसे होंगी..

Answer
writing कैसे
शुरू करें?

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रहा हूँ...

क्या मैं
काबिल हूँ?

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**The net area sown works out to be
42.4% of the total geographical area.**

**54.6 OF THE TOTAL
WORKFORCE IS ENGAGED IN
AGRICULTURE AND ALLIED
SECTOR ACTIVITIES**

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Rice Production, Second Advance Estimate, 2023-24

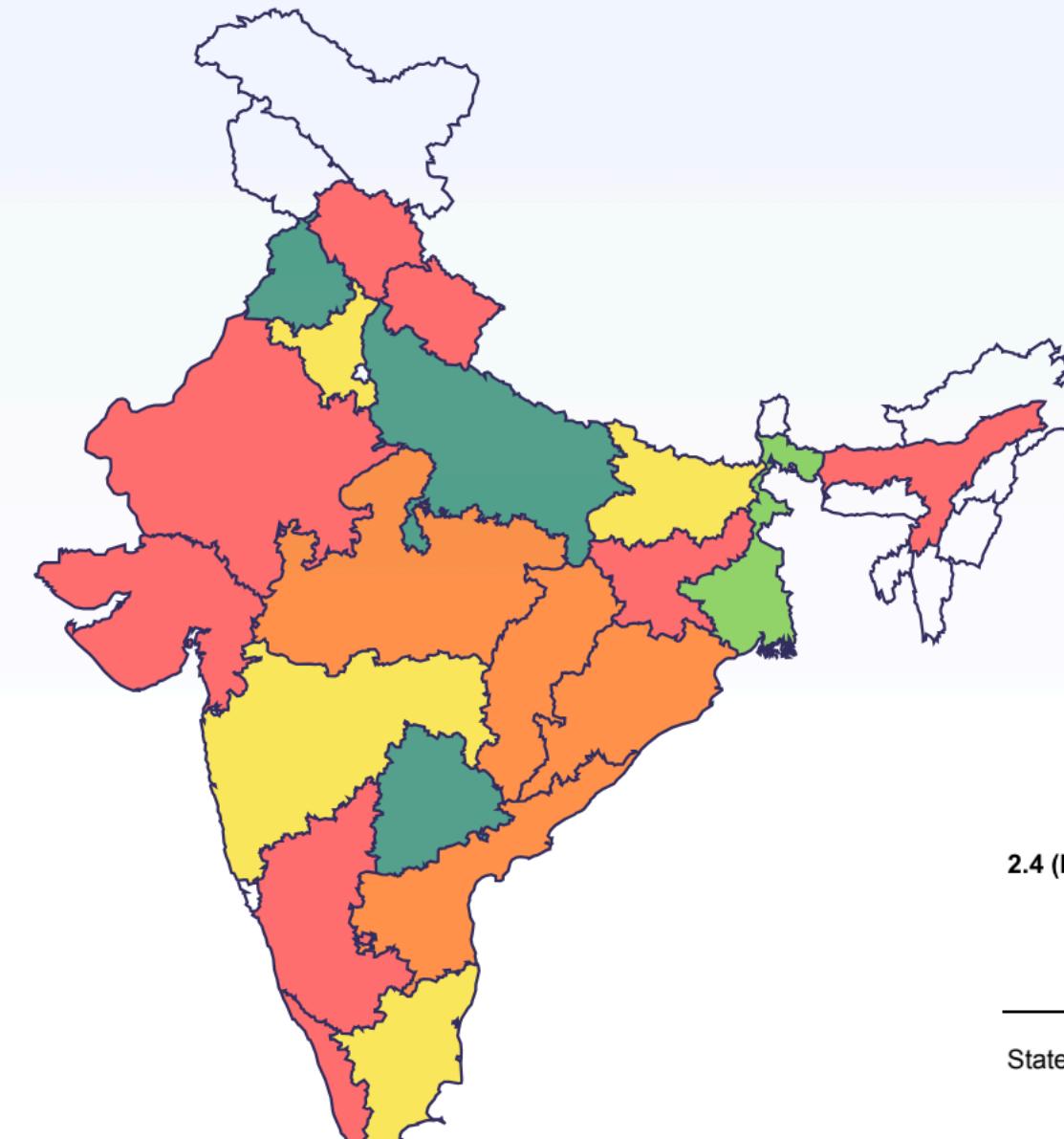
Season(s): Kharif, Rabi

① Advance Estimates covers only major states

Rice

Top 5 States (Lakh Tonnes)

Uttar Pradesh	162.98	■
Telangana	160.25	■
Punjab	144.45	■
West Bengal	115.19	■
Odisha	89.83	■



NA 1.46+ 33.76+ 66.07+ 98.37+ 130.67+ 162.98

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2.4 (b): Rice: Area, Production and Yield during 2020-21 and 2021-22 in major Producing States alongwith coverage under Irrigation

Area - Million Hectares
Production - Million Tonnes
Yield - Kg./Hectare

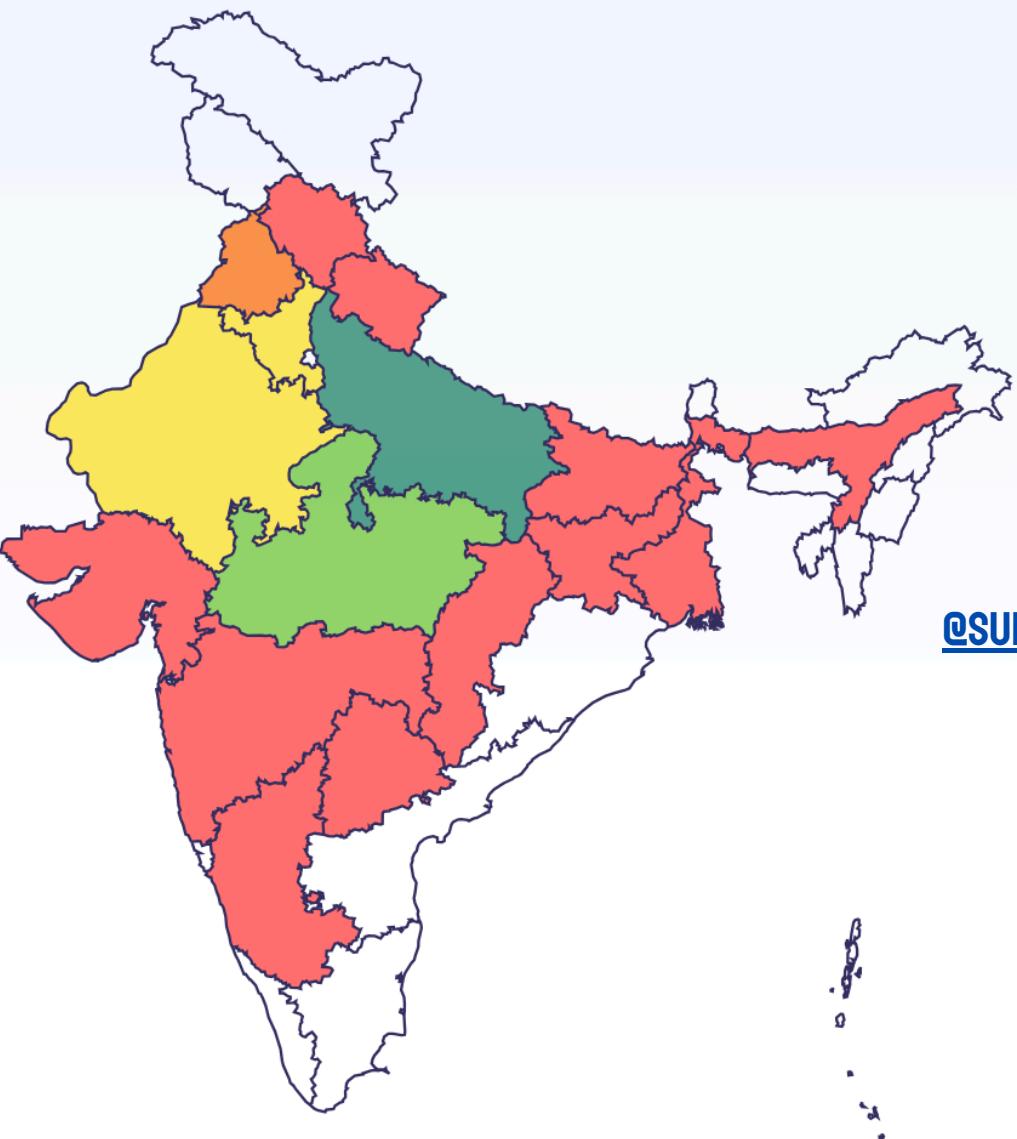
State	2021-22#					2020-21					Area Under Irrigation(%) 2019-20*	
	Area (2)	% to All - India (3)	Production (4)	% to All - India (5)	Yield (6)	Area (7)	% to All - India (8)	Production (9)	% to All - India (10)	Yield (11)		
West Bengal	5.60	12.06	16.76	12.87	2996	5.59	12.20	16.52	13.29	2958	51.08	
Uttar Pradesh	5.70	12.29	15.27	11.72	2679	5.68	12.41	15.52	12.48	2733	90.23	
Punjab	2.97	6.40	12.89	9.89	4340	2.93	6.40	12.78	10.28	4366	99.70	
Telengana	3.65	7.88	12.30	9.44	3366	3.19	6.96	10.22	8.22	3206	99.41	
Odisha	3.94	8.50	9.14	7.01	2318	4.04	8.82	8.81	7.08	2182	31.91	

Wheat Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

① Advance Estimates covers only major states

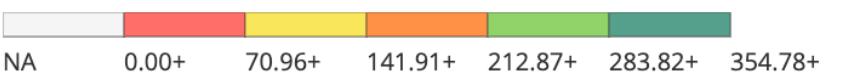
Wheat



Top 5 States (Lakh Tonnes)

Uttar Pradesh	354.78
Madhya Pradesh	234.75
Punjab	161.30
Haryana	112.13
Rajasthan	104.15

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Gram Production, Second Advance Estimate, 2023-24

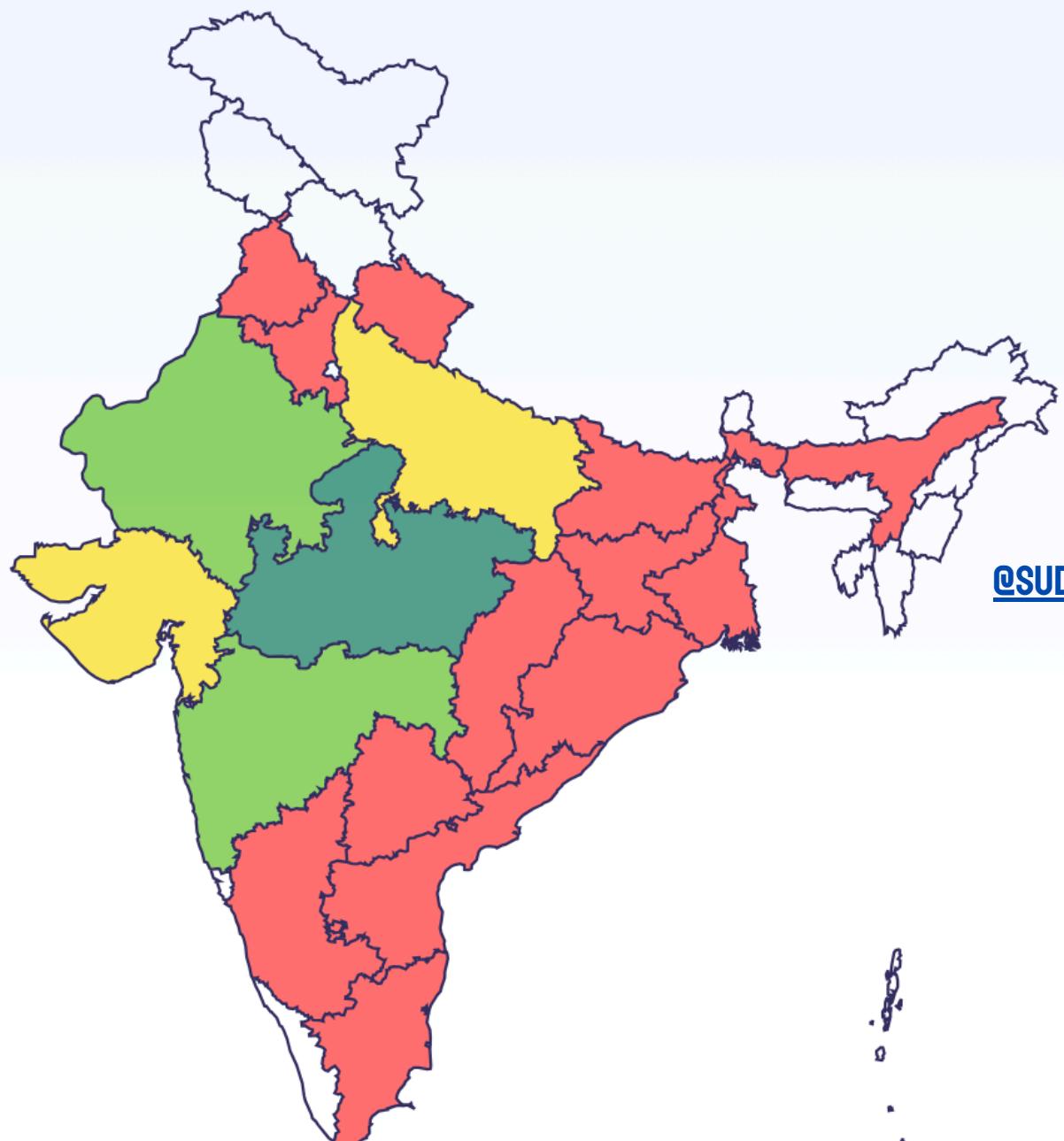
Season(s): Kharif, Rabi

● Advance Estimates covers only major states

Gram

Top 5 States (Lakh Tonnes)

Madhya Pradesh	34.93
Maharashtra	26.67
Rajasthan	20.99
Gujarat	12.14
Uttar Pradesh	8.95



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Bajra Production, Second Advance Estimate, 2023-24

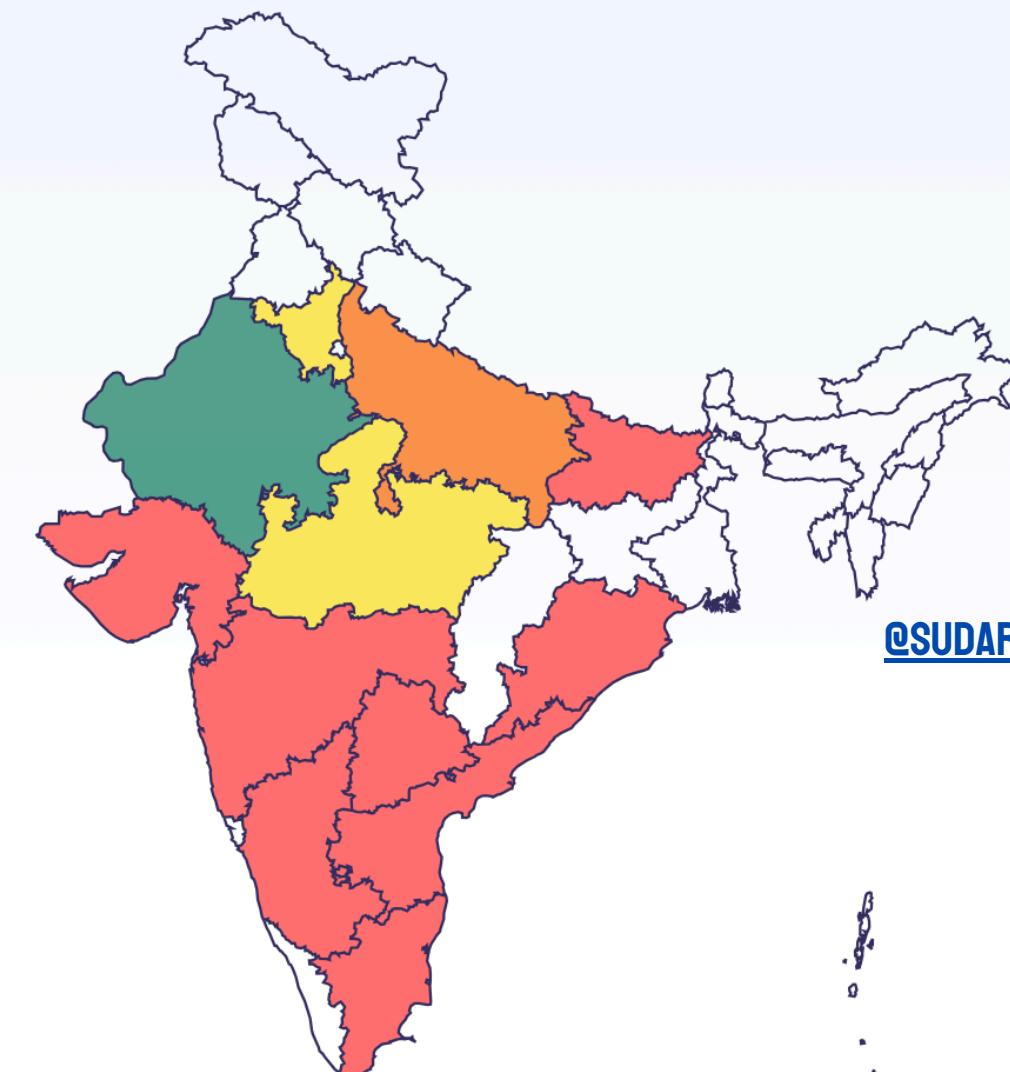
Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Bajra

Top 5 States (Lakh Tonnes)

Rajasthan	42.81	■
Uttar Pradesh	21.95	■
Haryana	11.69	■
Madhya Pradesh	9.58	■
Gujarat	3.63	■



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NA 0.00+ 8.56+ 17.12+ 25.69+ 34.25+ 42.81+

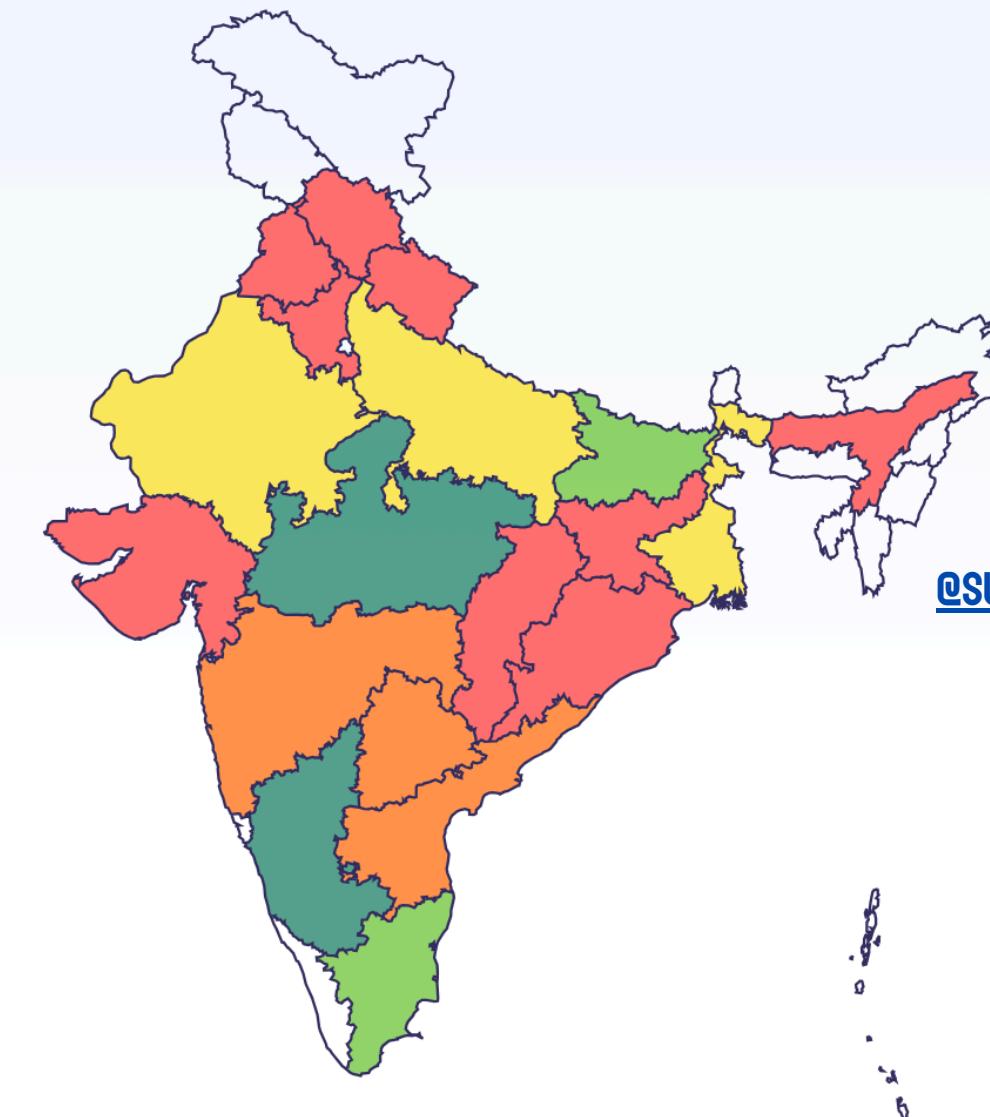
Maize Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Maize

Top 5 States (Lakh Tonnes)	
Madhya Pradesh	49.33
Karnataka	48.48
Bihar	32.03
Tamil Nadu	30.04
Telangana	24.78



NA 0.00+ 9.87+ 19.73+ 29.60+ 39.46+ 49.33+

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Ragi Production, Second Advance Estimate, 2023-24

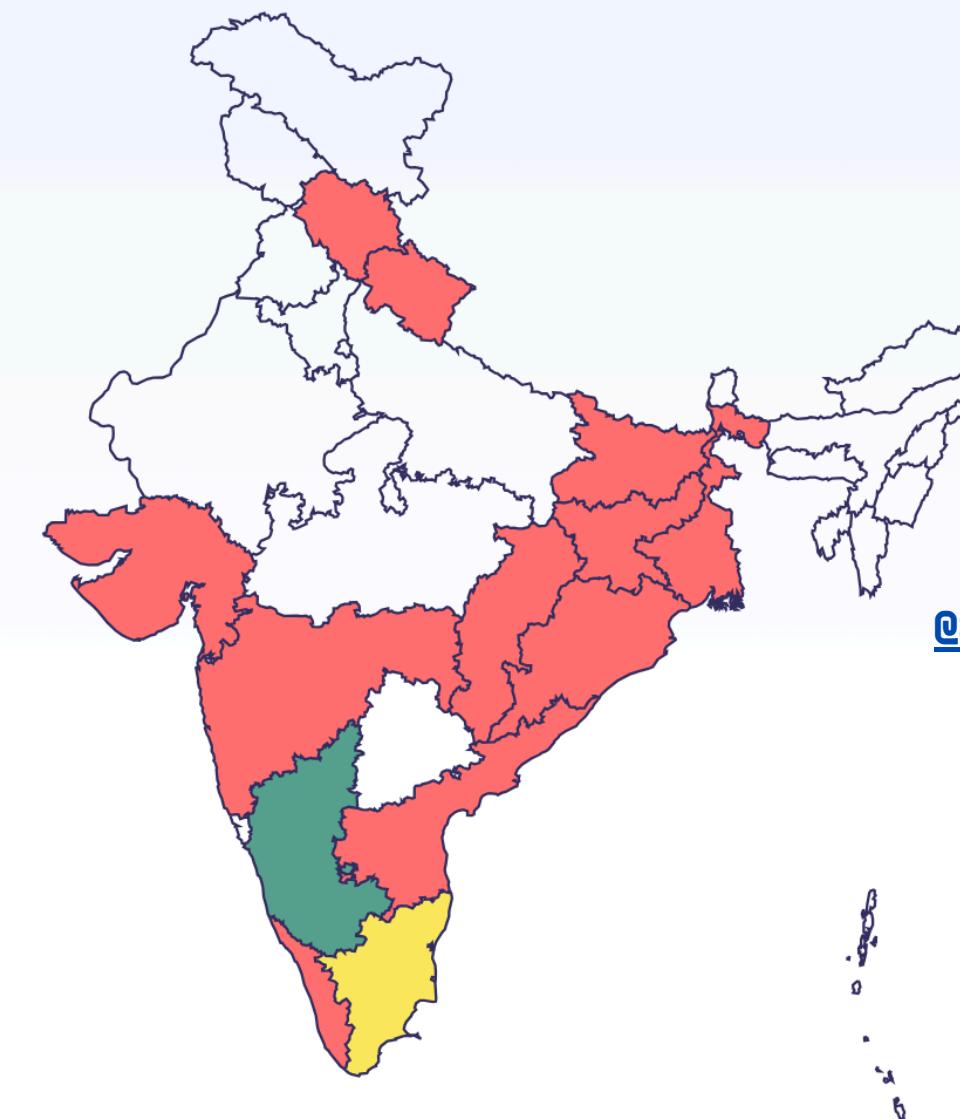
Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Ragi

Top 5 States (Lakh Tonnes)

Karnataka 8.65	■
Tamil Nadu 1.89	■
Uttarakhand 1.01	■
Maharashtra 0.88	■
Odisha 0.38	■



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NA 0.01+ 1.73+ 3.46+ 5.19+ 6.92+ 8.65+

Small Millets Production, Second Advance Estimate, 2023-24

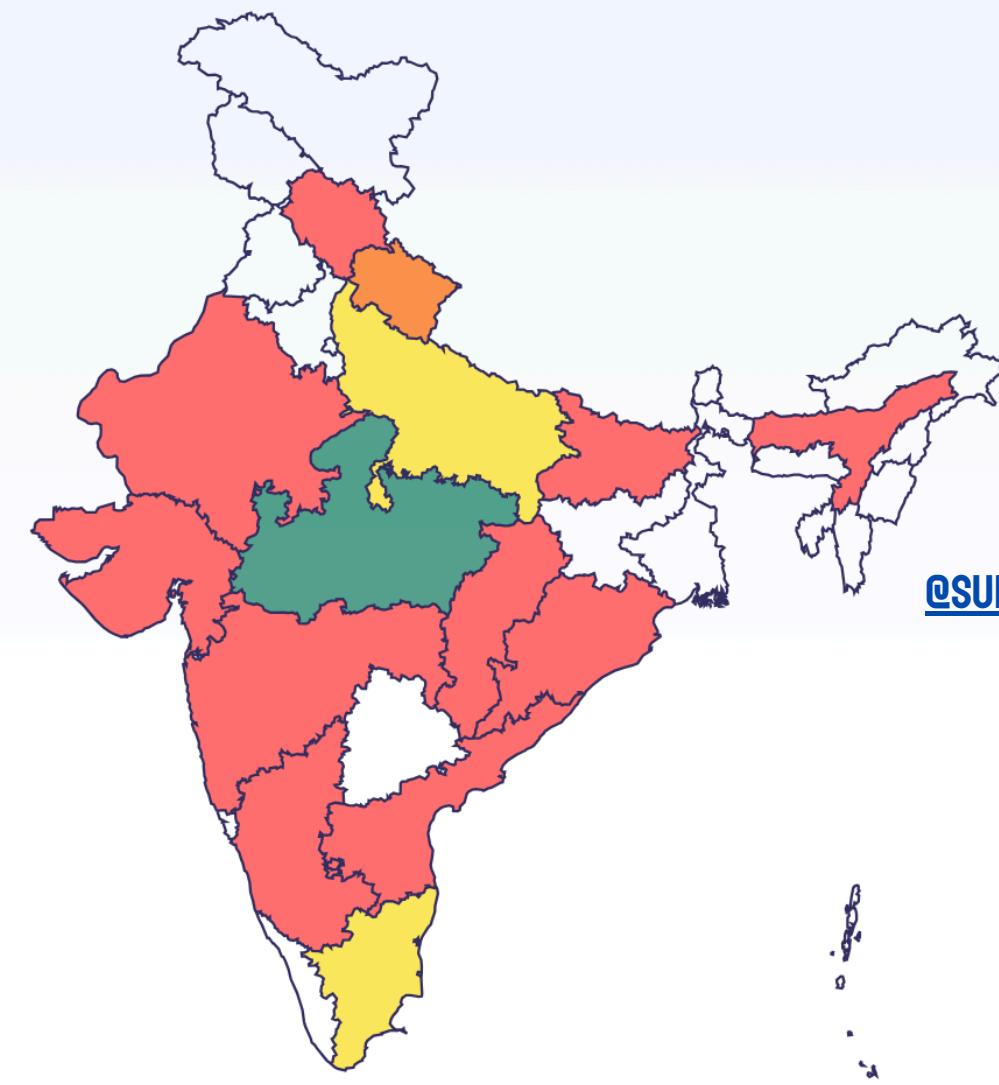
Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Small Millets

Top 5 States (Lakh Tonnes)

Madhya Pradesh	1.47
Uttarakhand	0.60
Uttar Pradesh	0.41
Tamil Nadu	0.33
Odisha	0.27



NA 0.00+ 0.29+ 0.59+ 0.88+ 1.18+ 1.47+

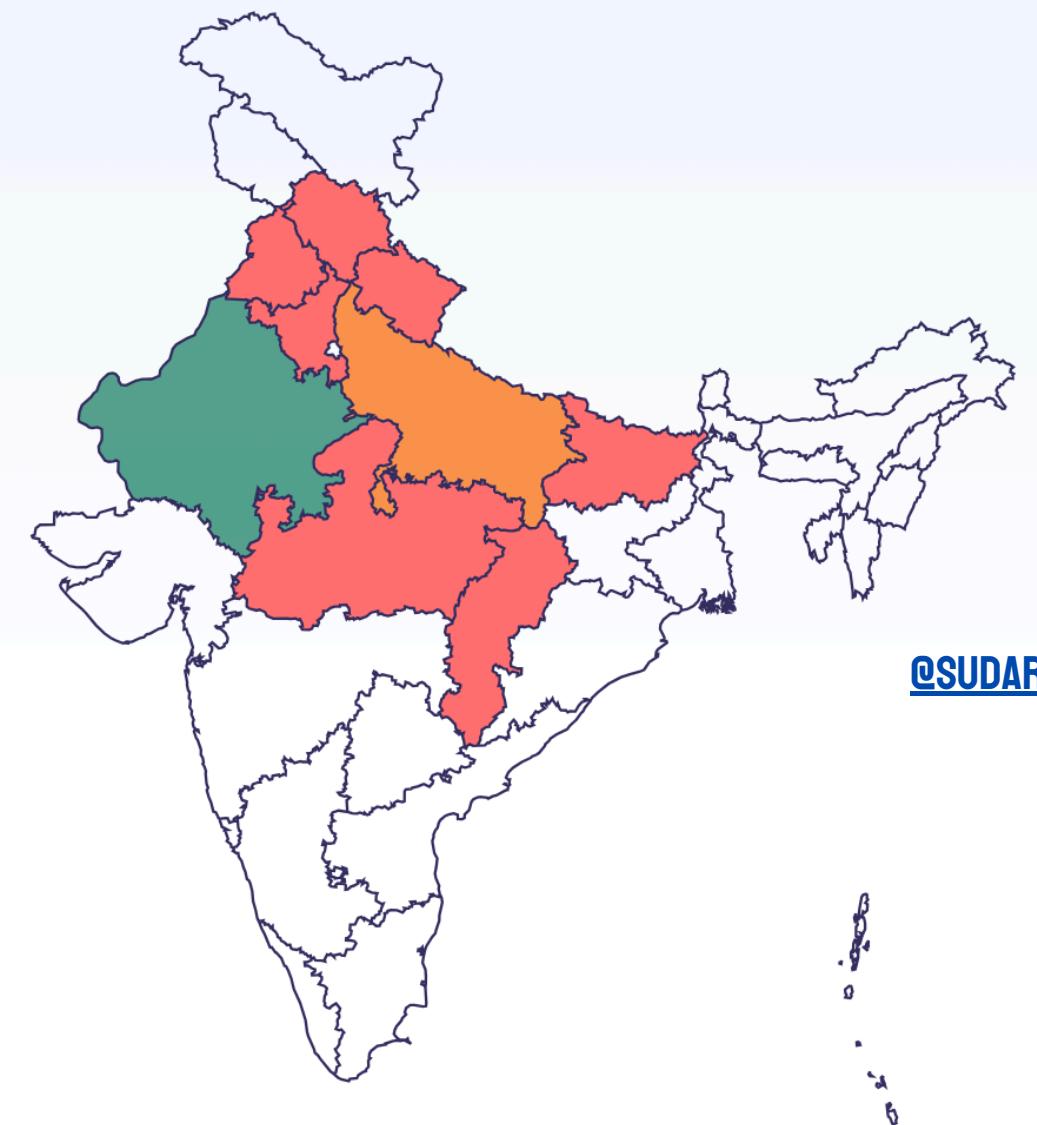
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Barley Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

● Advance Estimates covers only major states

Barley



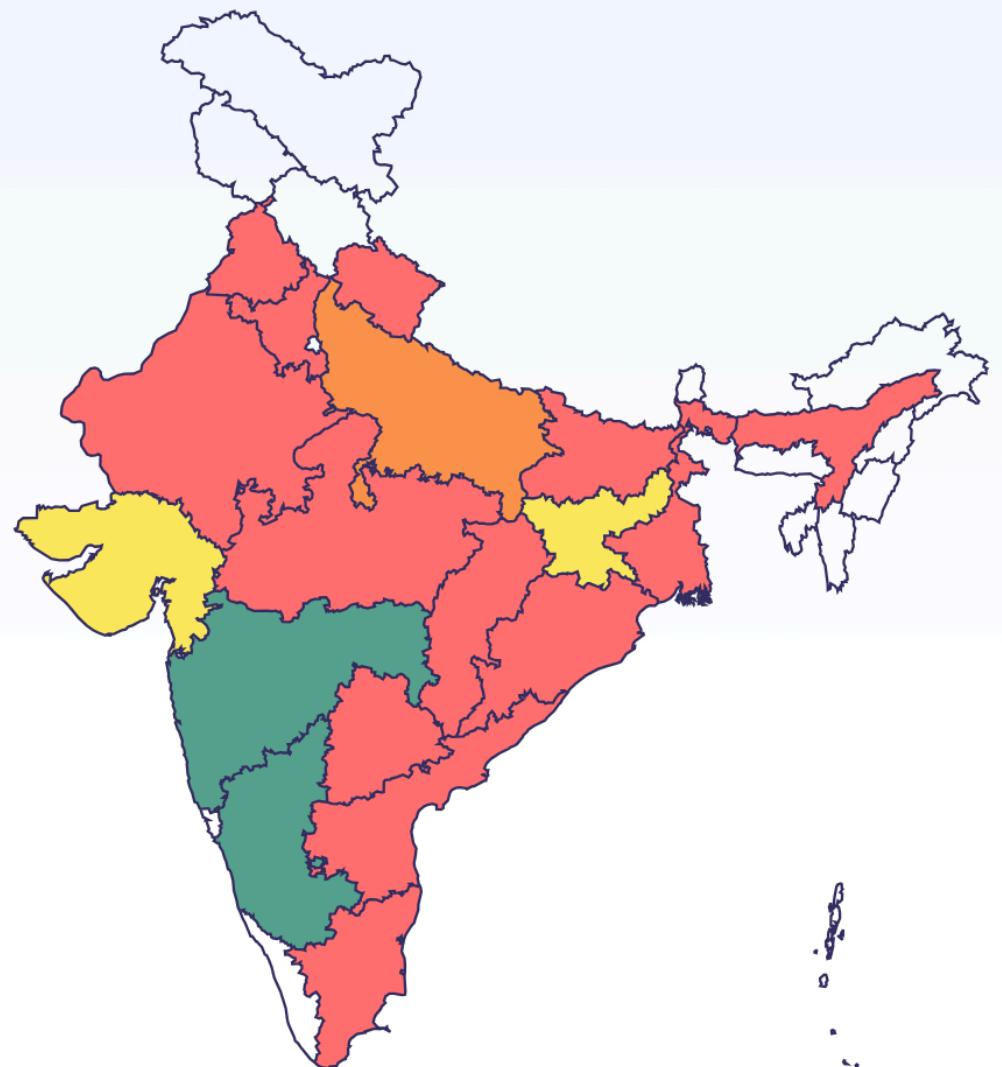
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Tur Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Tur



Top 5 States (Lakh Tonnes)

Karnataka	9.48
Maharashtra	8.75
Uttar Pradesh	3.80
Gujarat	2.66
Jharkhand	2.12

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Gram Production, Second Advance Estimate, 2023-24

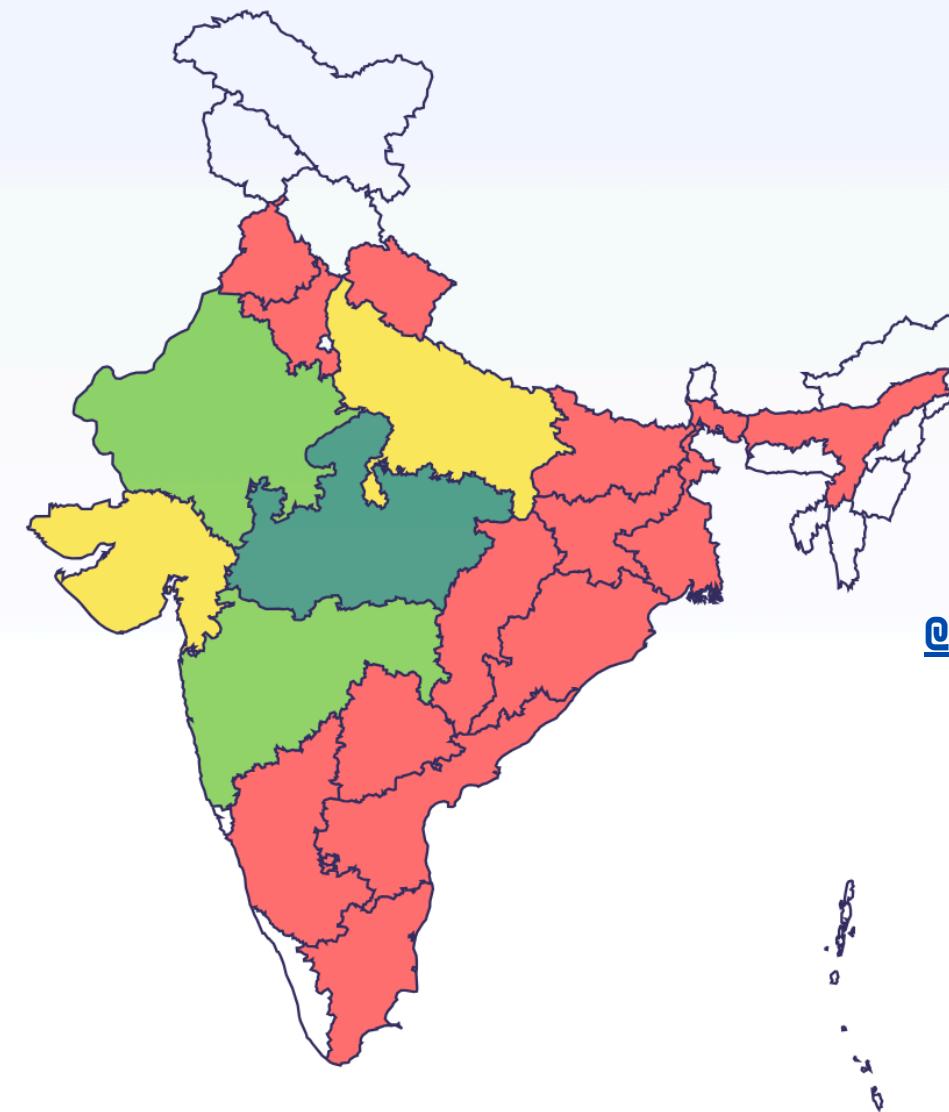
Season(s): Kharif, Rabi

① Advance Estimates covers only major states

Gram

Top 5 States (Lakh Tonnes)

Madhya Pradesh	34.93
Maharashtra	26.67
Rajasthan	20.99
Gujarat	12.14
Uttar Pradesh	8.95



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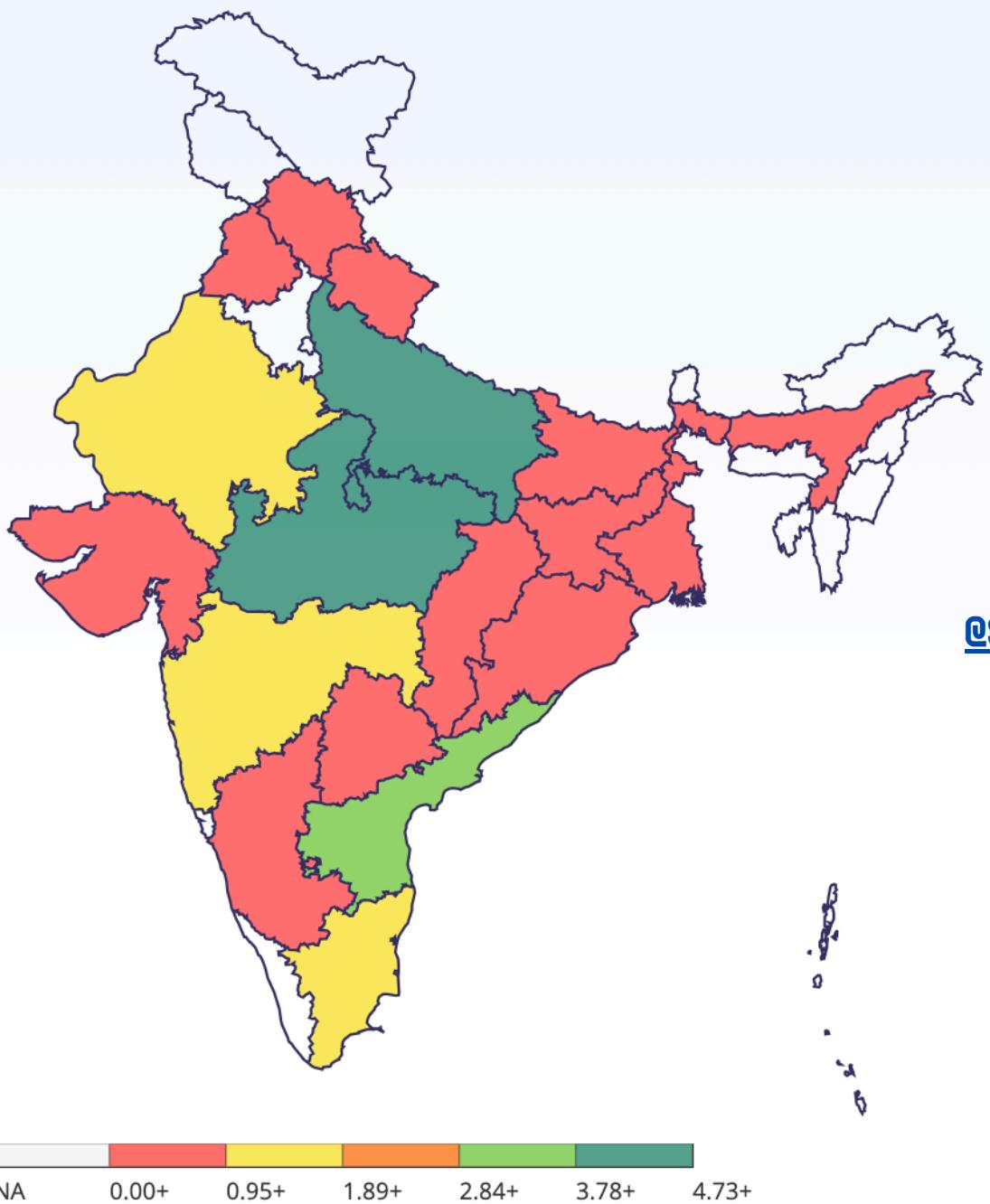
NA 0.00+ 6.99+ 13.97+ 20.96+ 27.95+ 34.93+

Urad Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

● Advance Estimates covers only major states

Urad



Top 5 States (Lakh Tonnes)

Madhya Pradesh	4.73	■
Uttar Pradesh	4.42	■
Andhra Pradesh	3.33	■
Rajasthan	1.73	■
Tamil Nadu	1.71	■

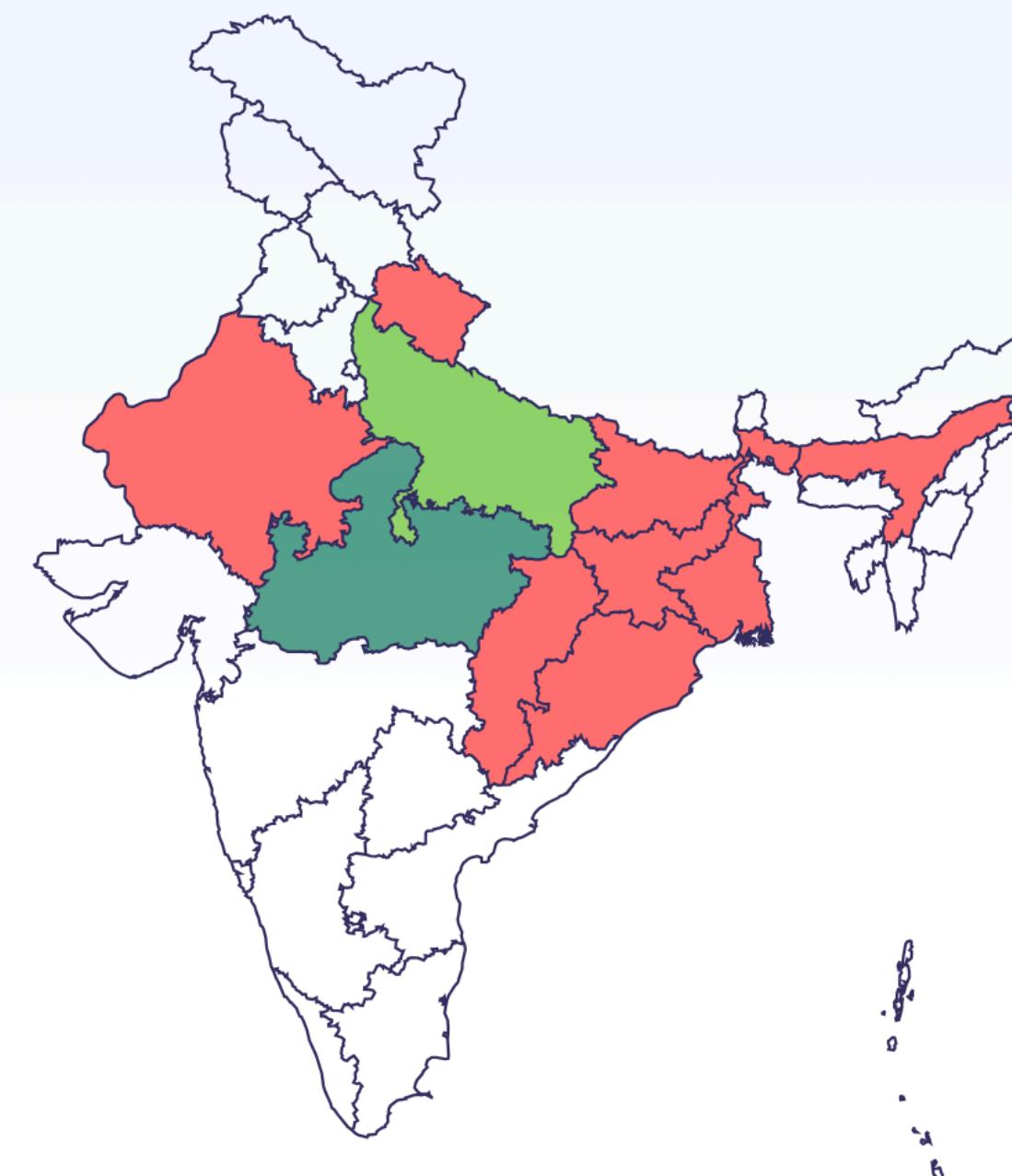
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Lentil Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

① Advance Estimates covers only major states

Lentil



Top 5 States (Lakh Tonnes)

Madhya Pradesh	6.95
Uttar Pradesh	5.49
West Bengal	1.35
Bihar	1.27
Rajasthan	0.45

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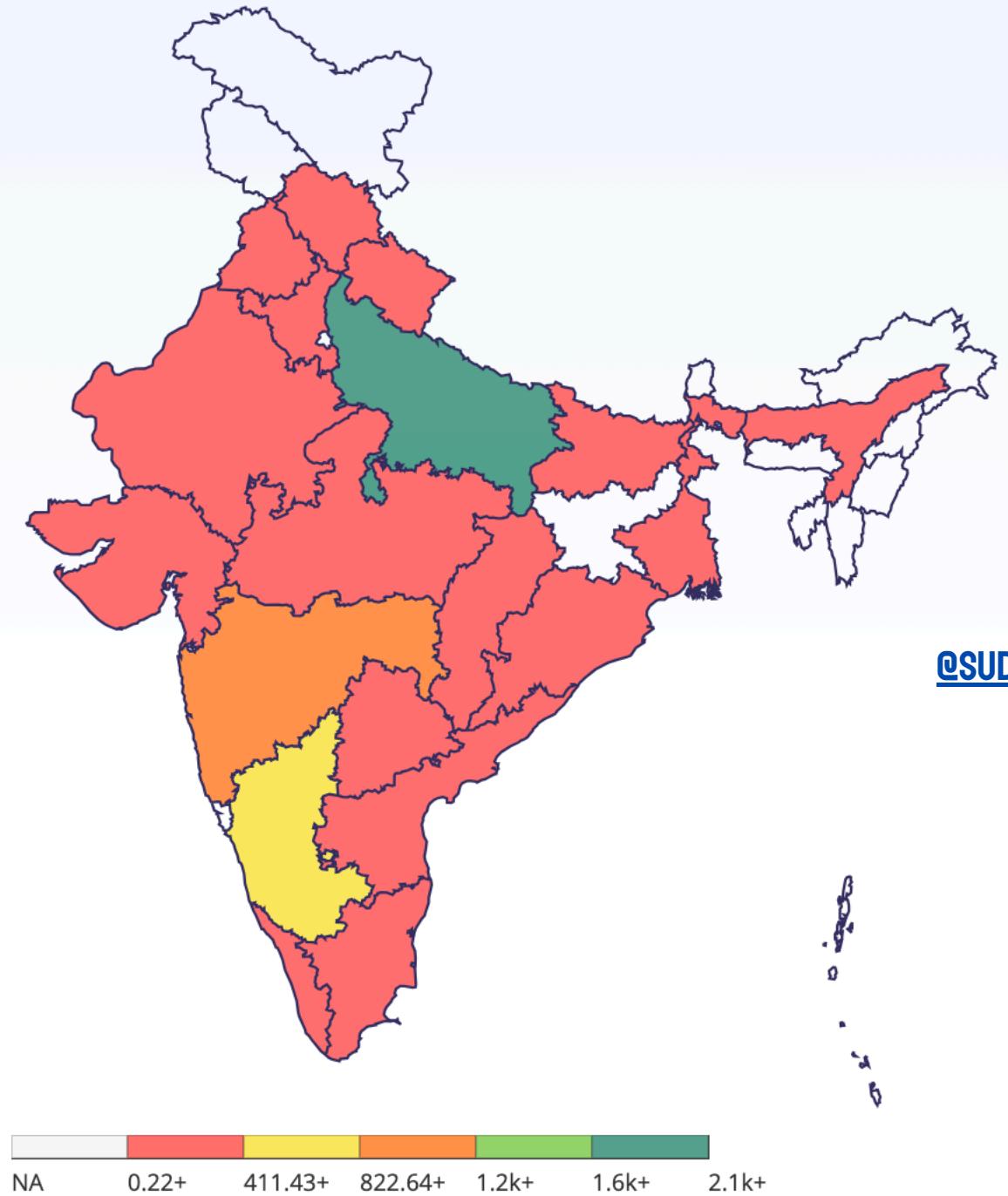


Sugarcane Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

● Advance Estimates covers only major states

Sugarcane

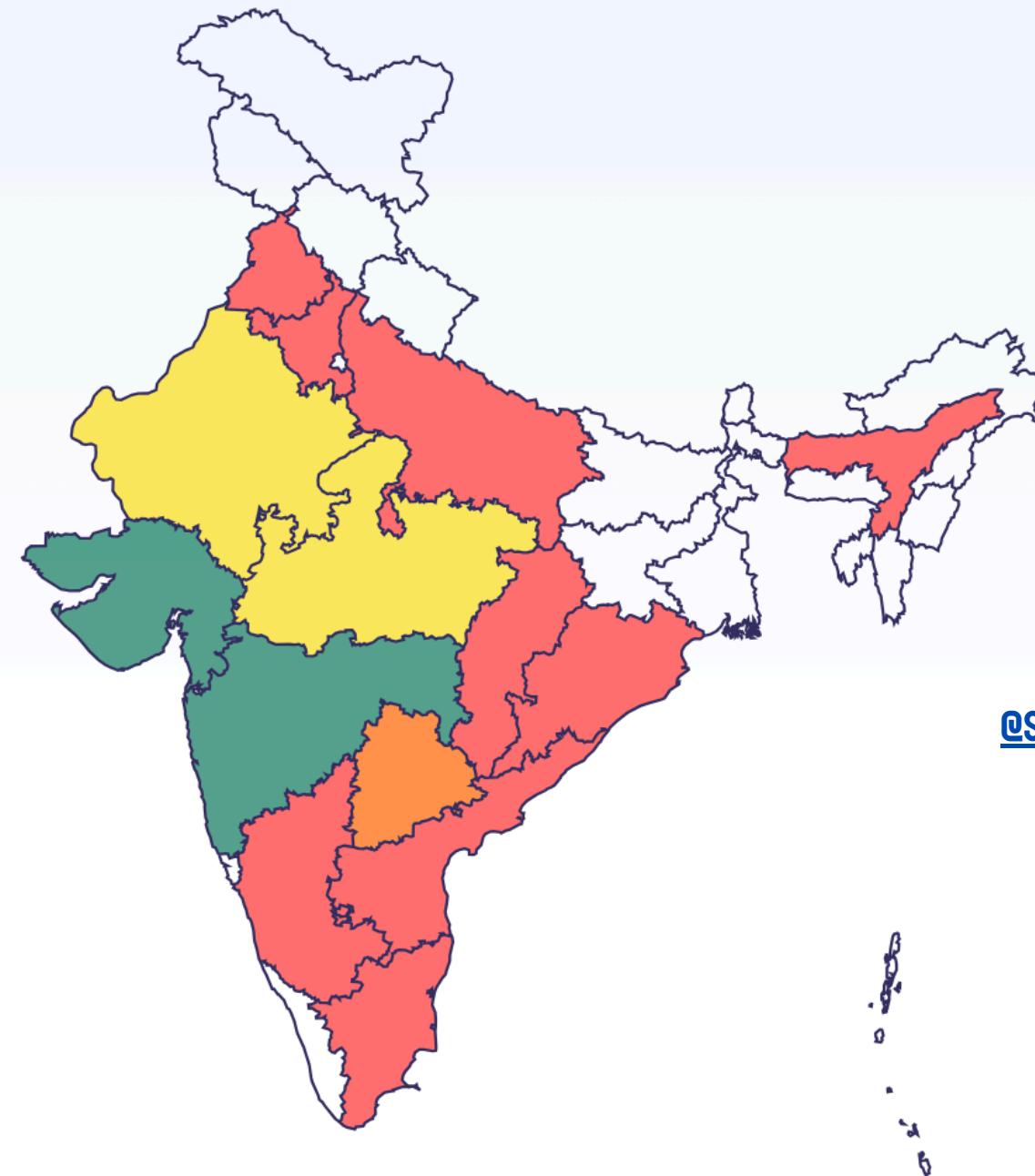


Cotton Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Cotton



Top 5 States (Lakh Bales)

Gujarat	89.65	■
Maharashtra	82.43	■
Telangana	48.12	■
Rajasthan	27.43	■
Madhya Pradesh	17.97	■

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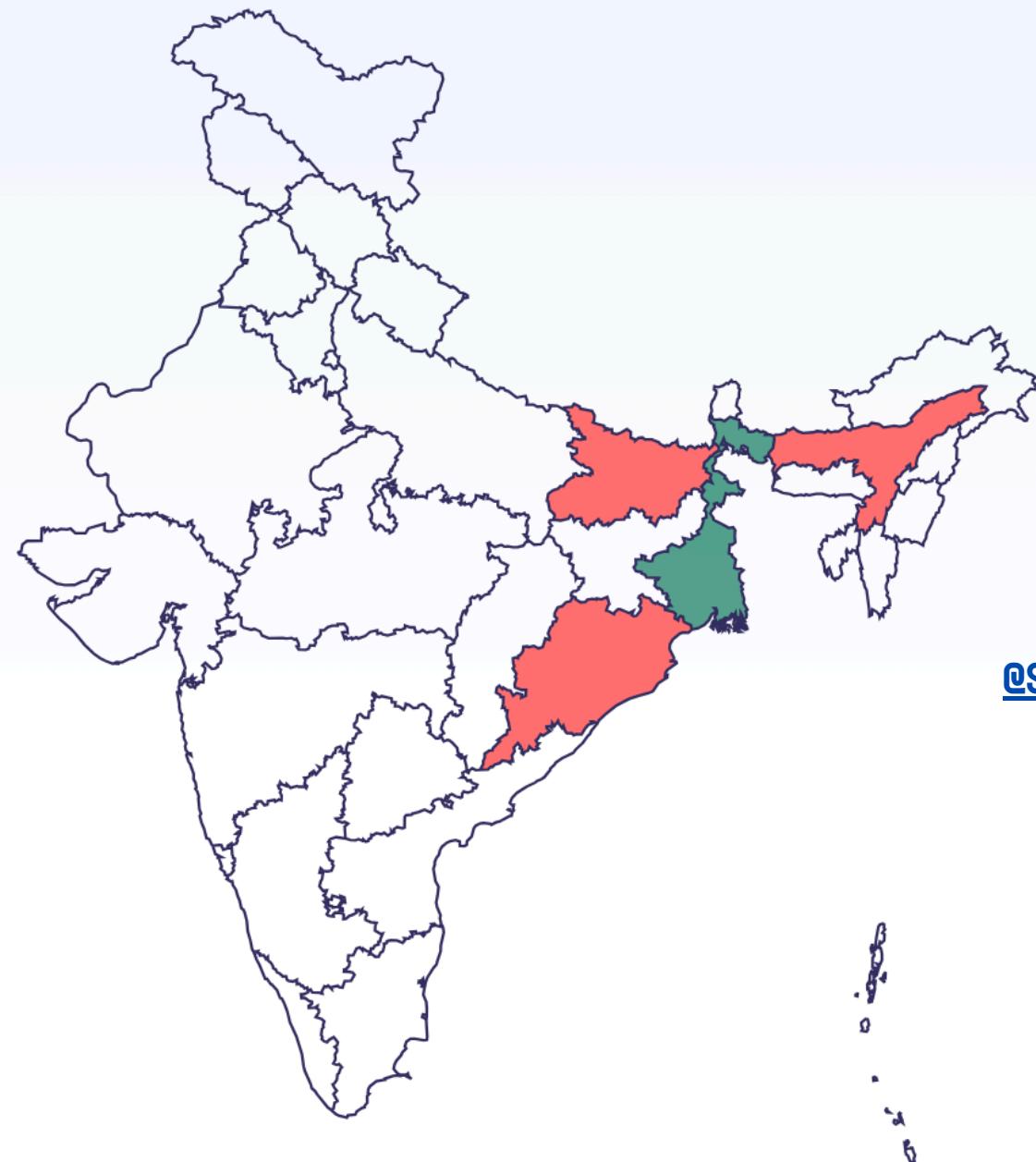
NA 0.00+ 17.93+ 35.86+ 53.79+ 71.72+ 89.65+

Jute Production, Second Advance Estimate, 2023-24

Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Jute



Top 4 States (Lakh Bales)

West Bengal	74.91
Bihar	9.49
Assam	6.65
Odisha	0.47

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Mesta Production, Second Advance Estimate, 2023-24

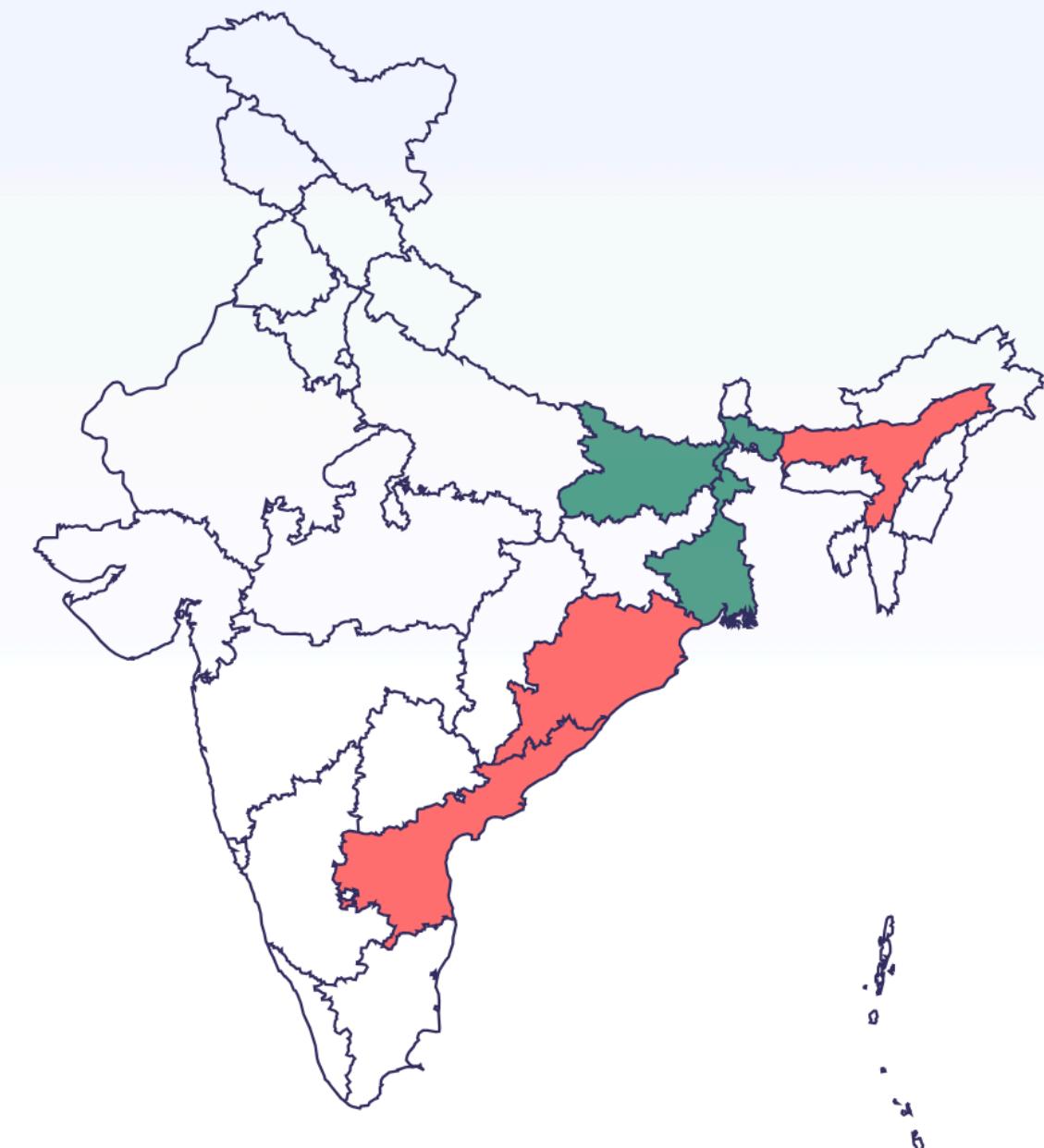
Season(s): Kharif, Rabi

ⓘ Advance Estimates covers only major states

Mesta

Top 5 States (Lakh Bales)

Bihar	1.64	■
West Bengal	1.62	■
Assam	0.20	■
Odisha	0.19	■
Andhra Pradesh	0.08	■



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INDIA

Tobacco - Gujarat > AP > UP

Potato - UP > WB

Onion → MH > MP @SUDARSHANGURJAR

Tomato - MP > Andhra Pradesh

Coconut - Karnataka > Kerala > TN

Milk production - UP > Raj > MP (India - I^m)

Fish production - Overall → AP > WB > Gujarat

Inland - AP > WB > UP

Marine - Gujarat > Kerala > TN

Black pepper - Karnataka > Kerala

Ginger - MP > Karnataka

Turmeric - MH > Telangana, > Karnataka

Cumin - Raj > Gujrat

Fenugreek - MP > Raj > Guj

Clove - TN
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Tamarind - TN > Karnataka > Kerala.

Nutmeg - Kerala

Almond - JK

Cashewnut → MN > AP > Odisha

Cocoa - AP > Kerala.

Rubber - Kerala + TN | Thailand > Indonesia

Coffee - Karnataka, Kerala | Brazil*

Tea - Assam, WB, TN, | China > India

+ | Cangra valley
NP

Arecanut - native to

Malaysia & Philippines | Karnataka
Kerala | India's largest producer

Total oilseeds = Raj > MP

World Production:-

Wheat - China > India

Maize - USA > China

Barley - Russia > Australia

Rice - China > India

Cotton - China > India

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Pulses - India > Canada

Oilseeds - Brazil > USA

Soyabean - Brazil > USA

Sunflower seed - Russia > Ukraine

Rapeseed - Canada > China

Copra (oilseed) - Philippines > Indonesia

Palm oil - Indonesia > Malaysia

Sugarcane - Brazil > India

**CHICKPEA
(GRAM)**
Scientific Name:
Cicer arietinum L.

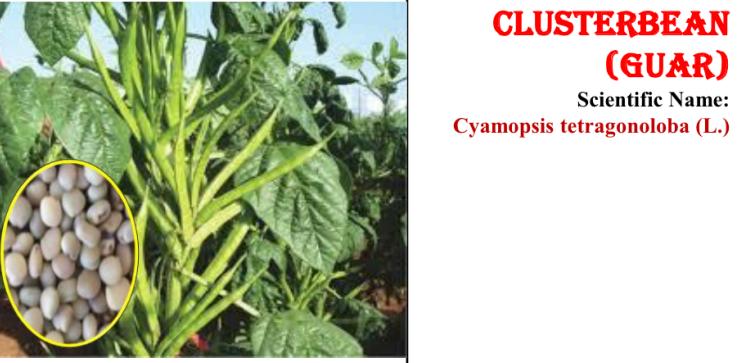


FIELDPEA
Scientific Name:
Pisum sativum (L.)

**PIGEONPEA
(TUR)**
Scientific Name:
Cajanus cajan (L.)



**CLUSTERBEAN
(GUAR)**
Scientific Name:
Cyamopsis tetragonoloba (L.)



Pulses and Beans

Black gram
Chickpea (Bengal gram)
Chickling vetch
Cluster Bean
Cowpea
Green Gram
Horsegaram
Kidney bean
Lentil
Peas
Red gram (Pigion pea)
Soyabean

Vignamungo
Cicer arietinum
Lathyrus sativus
Cyamopiss tetragonoloba
Vigna unguiculate
Vigna radiata
Dilichos biflorus
Vigna aconitifolia
Lens culimaris
Pisum sativum vararvense
Cajanus cajan
Glucine max

Urad
Chana
Khesari
Guar
Lobia
Mung
Kulthi
Moth
Masur
Matar
Tur,Arhar
Soyabean

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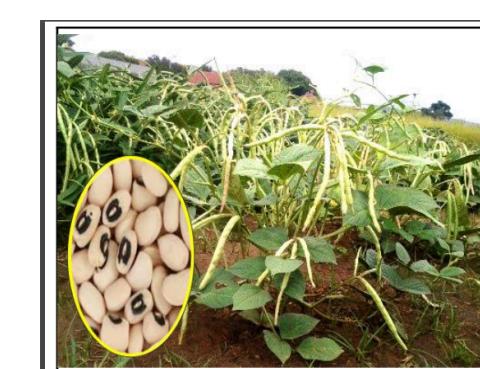
**HORSEGARAM
(KULTHI)**
Scientific Name:
Macrotyloma Uniflorum



MOTHBEAN
Scientific Name:
Vigna aconitifolia



URDBEAN
Scientific Name:
Vigna Mungo (L.)



RAJMASH
Scientific Name:
Phaseolus vulgaris L.



**LATHYRUS
(KHESARI)**
Scientific Name:
Lathyrus sativus L.



MUNGBEAN
Scientific Name:
Vigna radiate (L.)



LENTIL
Scientific Name:
Lens culinaris



Total pulses - MP > Maha > Raj

(R) Chickpea (Gram) - MP > Maharashtra > Raj

(K&R) Pigeon pea (Tur) - MH > Karnataka > MP

(A1) Mung bean - Raj > MP > MH

(A1) Urad bean - MP > AP > UP - Black gram

(R) Lentil - MP > UP > Bihar

(R) Field pea - UP > MP > JH @SUDARSHANGURJAR

(K) Mothbean - Raj > Guj

(K&R) Horse Gram - (Kulthi) - Karnataka > TN > AP

(R) Lathyrus (Khesari) - Chhattisgarh > WB

(K|R) Rajmash - MH > HP > UP > JK

(K|R) Cowpea - Punjab, Haryana, UP

(Karif)
summer Clusterbean
(Guar) - Raj, Gujarat

1.2.3 Season & crop contribution in total pulse production (2017-18 to 2021-22)

Under individual crop category gram with *47 per cent* production share to total pulses is the highest contributor followed by Tur (*15 per cent*), Mung (*12%*), Urd (*10%*) and Lentil (*5%*). The crop-wise APY and *per cent* share to total pulses is given below (*Table-2, Fig.-2*).

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(Table -2): Crop contribution to total pulse production

Crop	Normal (2017-18 to 2021-22)			Contribution (%)	
	Area	Production	Yield	Area	Production
Gram	101.08	115.70	1145	34	47
Tur	46.29	40.07	866	16	16
Urd	48.38	27.28	564	16	11
Mung	48.52	26.48	546	17	11
Lentil	14.19	13.43	947	5	5
Other Kharif Pulses	17.62	7.61	432	6	3
Other Rabi Pulses	16.86	16.01	949	6	7
Total Kharif Pulses	139.70	84.34	604	48	34
Total Rabi Pulses	153.25	162.22	1059	52	66
Total	292.94	246.56	842		

Source: DES,Min.of Agri.&FW (DA&FW), GOI, OKP, Other Kharif Pulses, ORP –Other Rabi Pulses.

**RAPESEED & MUSTARD****126.96**

Lakh Tonnes

**SOYBEAN****125.62**

Lakh Tonnes

**GROUNDNUT****86.54**

Lakh Tonnes

**CASTORSEED****18.79**

Lakh Tonnes

**SESAMUM****4.29**

Lakh Tonnes

तिल**SUNFLOWER****1.67**

Lakh Tonnes

**LINSEED****1.35**

Lakh Tonnes

**SAFFLOWER कुसुम****0.47**

Lakh Tonnes

**NIGERSEED****0.29**

Lakh Tonnes

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Crop Category	Crop	State	2022-23	2023-24
Oilseeds	Groundnut	Gujarat	44.08	36.74
		Rajasthan	19.23	20.86
		Madhya Pradesh	7.39	9.09
		All India	85.62	79.10
Castorseed	Castorseed	Gujarat	16.03	15.13
		Rajasthan	3.47	3.34
		Andhra Pradesh	0.14	0.20
		All India	19.80	18.79
Sesamum	Sesamum	Madhya Pradesh	1.46	1.23
		Uttar Pradesh	0.84	1.19
		Rajasthan	0.78	0.89
		All India	3.92	3.96
Nigerseed	Nigerseed	Odisha	0.13	0.16
		Chhattisgarh	0.05	0.05
		Madhya Pradesh	0.03	0.03
		All India	0.29	0.29

Crop	State	2022-23	2023-24
Soybean	Maharashtra	66.16	52.69
	Madhya Pradesh	57.89	51.29
	Rajasthan	12.07	10.49
	All India	149.85	125.62
Sunflower	Karnataka	1.82	0.60
	Andhra Pradesh	0.08	0.01
	Maharashtra	0.07	0.01
	All India	2.04	0.66

Rapeseed & Mustard

Safflower

Linseed

Top 5 States (Lakh Tonnes)

- Rajasthan 58.44
- Uttar Pradesh 17.46
- Madhya Pradesh 16.65
- Haryana 13.04
- West Bengal 7.81

Top 5 States (Lakh Tonnes)

- Maharashtra 0.25
- Karnataka 0.17
- Telangana 0.05
- Odisha 0.01
- Andhra Pradesh 0.01

Top 5 States (Lakh Tonnes)

- Madhya Pradesh 0.57
- Uttar Pradesh 0.36
- Rajasthan 0.14
- Jharkhand 0.06
- Bihar 0.05

		2021-22	2022-23
Tobacco	Gujarat	4.52	4.47
	Andhra Pradesh	1.32	1.18
	Uttar Pradesh	1.23	0.93
	All India	8.18	7.70
Sannhemp	Odisha	0.37	0.28
	Uttar Pradesh	0.03	0.07
	Karnataka	0.03	0.05
	All India	0.51	0.46
Guarseed	Rajasthan	10.03	16.15
	Haryana	0.91	0.90
	Gujarat	0.75	0.74
	All India	11.83	17.87



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Palm Oil Production Top Producing Countries

Andhra Pradesh, Telangana, and Kerala are major Oil palm-growing States and account for 98% of total production.

Market	% of Global Production	Total Production (2023/2024, Metric Tons)
Indonesia	59%	47 Million
Malaysia	24%	19 Million
Thailand	4%	3.28 Million
Colombia	2%	1.9 Million

MSP for Kharif Crops:-

Highest → Sesamum > Moong > Nigerseed
(8635)

Rabi crops :-

Highest - Masur > Safflower > Rapsseed
(Lentil)
Mustard.
(6425)

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- ✓ Coffee Board → section 4 coffee Act, 1942 → Bangalore
- ✓ Rubber Board → section 4 Rubber Act 1947 → kottayam kerak,
- ✓ Tea Board → section 4 Tea Act 1953, 1954 → Kolkata
 - Jorhat - Assam
 - Coonoor → TN
- ✓ Tobacco Board → section 4 Tobacco Board Act, 1975, 1976 → Guntur
- ✓ Spices Board → section 3 Spices Board Act, 1986, 1987

Kochi ↴

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Ministry of commerce & industry
Dept. of commerce..
Statutory Organisations

• National Beekeeping & Honey Mission ~~मधुकर्म पालन योजना~~ योजना

↓
under Aatma Bharat Announcement
(sweet Revolution)

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Sudarshan
gurjar

↓
(2020-2023) → central sector scheme.

implemented by ⇒

National Bee Board - 2006 ↓

World Bee Day - 20 May

(M. of Agri & Farmer welfare) Registered Society

Testing Labs :-

Anand Gujarat

IARI, Pusa Delhi

+
Society Registration
Act.

Indian Institute of Horticultural Research, Bengaluru.

Production + Export Increased.

Punjab, UP, MH, AP *
(Andhra Pradesh)

National Horticulture Board

↳ Autonomous organization
↓

1984 → Gurugram

→ society legis.
Act

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Coconut Development Board

↳ Statutory Body

1981 → Kochi Kerala

3. * Bee Board

Ministry of
Agriculture &
former
refor

Autonomous
organ. ← 2006 ← ↪ National Fisheries
Development Board

1. National Dairy Development Board

Statutory Body

Ministry of fisheries

Animal Res. body

Anand, Gujarat

1965

Central Silk Board

↳ Statutory Body

1948 → Bangalore

Ministry of

Textiles

National Jute Board

↳ Statutory Body

National Jute Board Act, 2008

+ Kolkata

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Textile committee

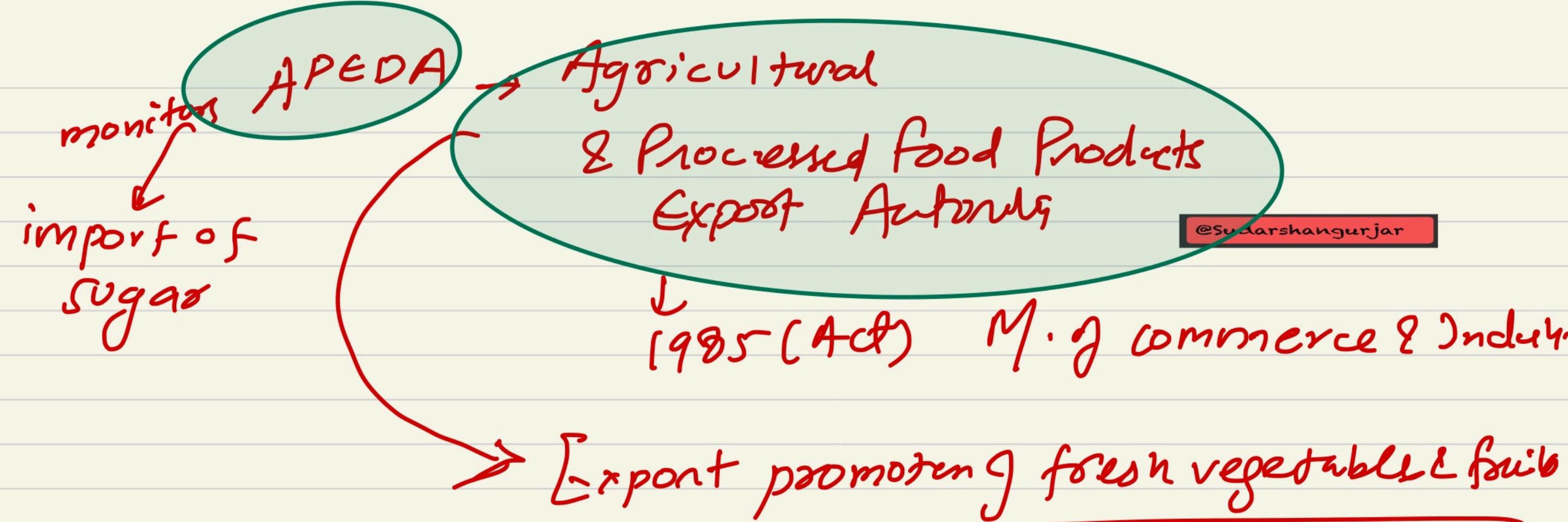
(SB) ↳ 1964 → set Textile committee

NIFT → fashion → 1986 → NIFT Act 2006 → Statutory status

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Coir Board of India
+
(Coconut
fibre)

→ Coir Industry Act 1953 → Kochi
Statutory org.
Alappuzha
Many Micro, small & Medium Enterprises.



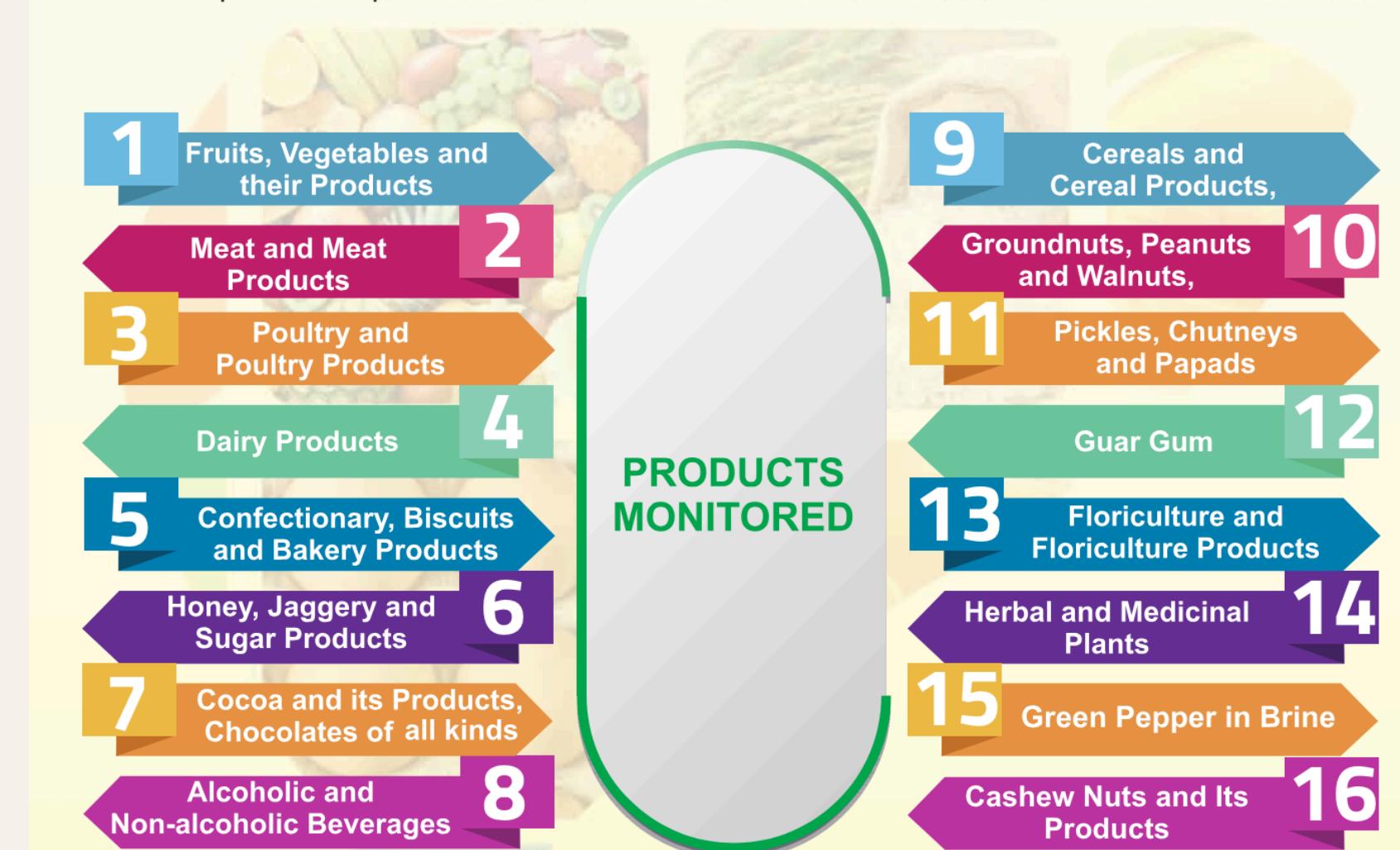
Products not monitored by APEDA

Tobacco
 Coffee
 Tea
 Spices
 Rubber
 Marine Products
 Books

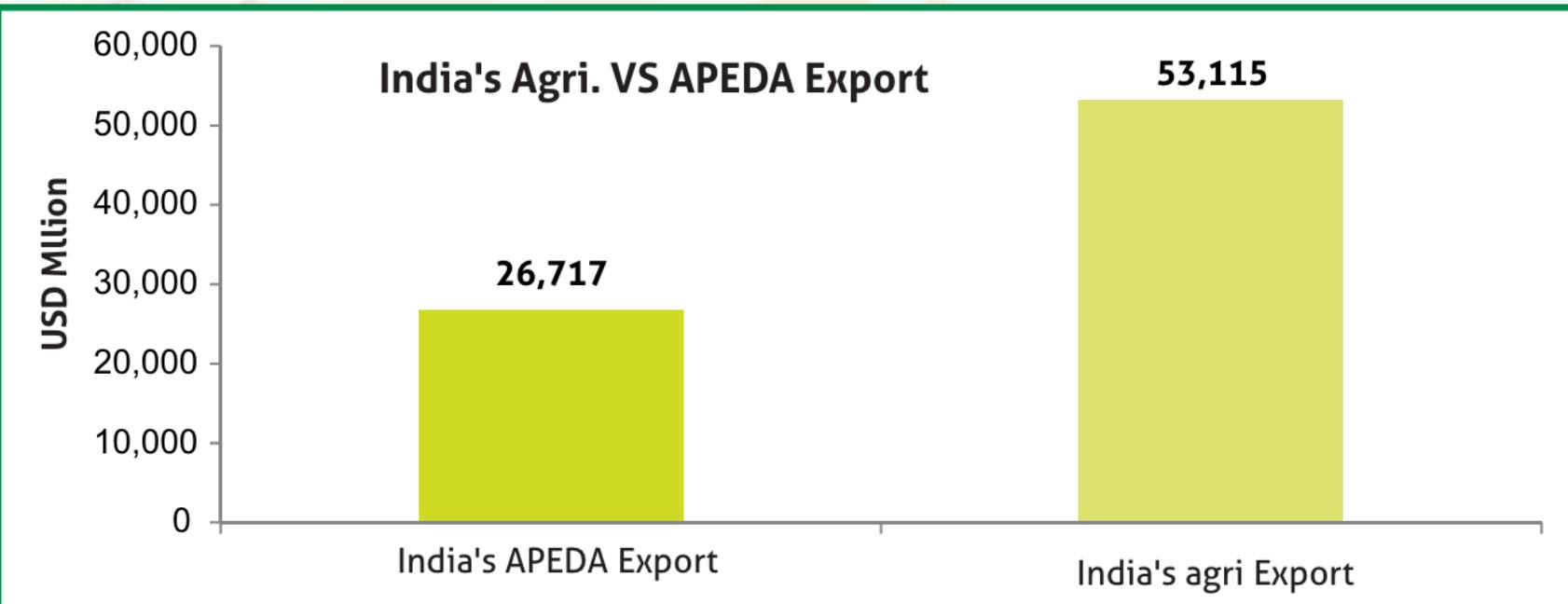
{ Boards }
 { MPEDA }
 { marine products export De }

1.3. PRODUCTS MONITORED

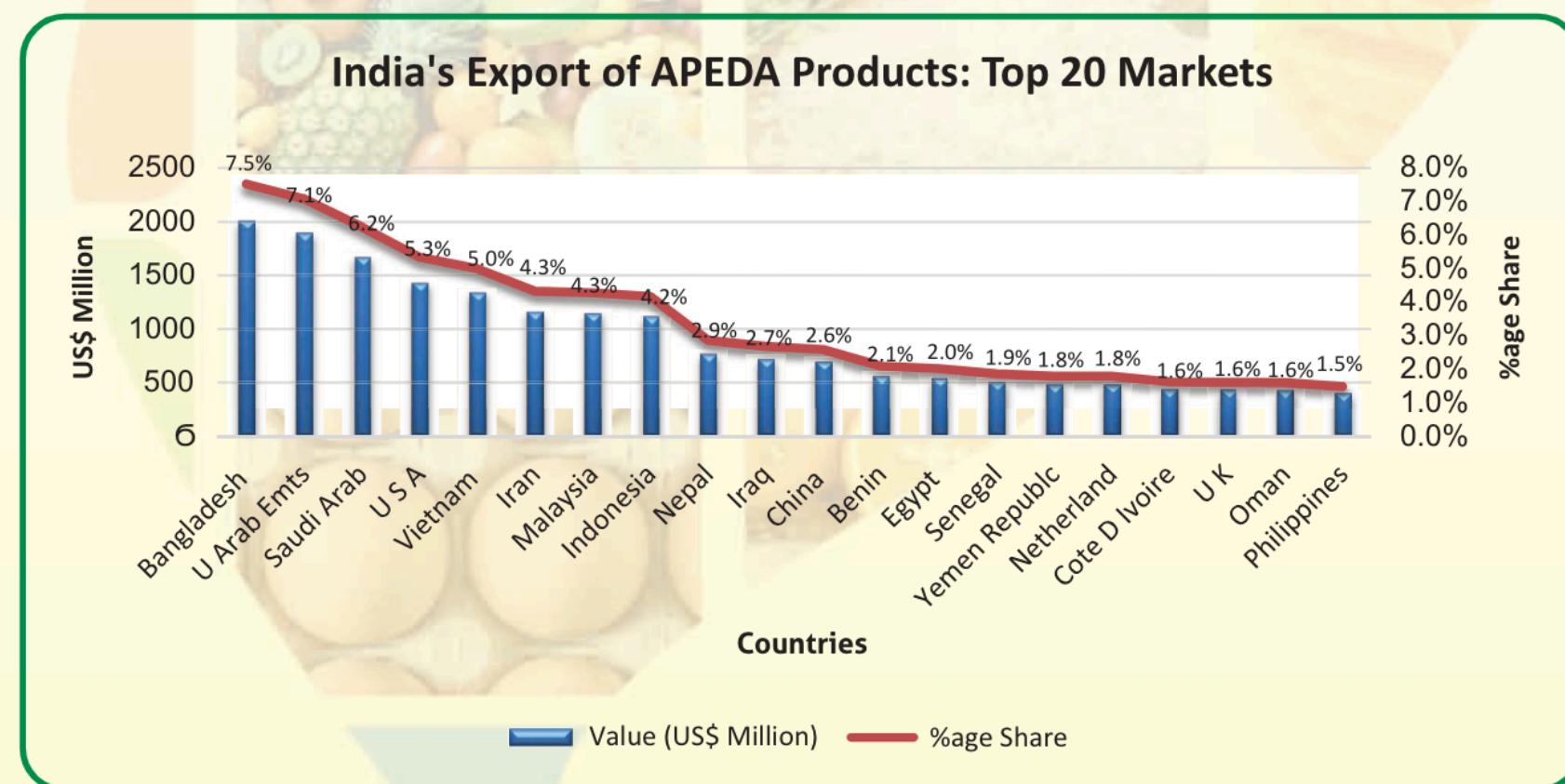
APEDA is mandated with the responsibility of export promotion and development of the following scheduled products as provided in First Schedule of APEDA Act:



2.1. APEDA'S SHARE IN AGRI EXPORTS



2.2. SHARE OF APEDA EXPORTS IN TOP 20 MARKETS



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2.3. APEDA'S MAJOR PRODUCTS AND MAJOR MARKETS

S.No.	APEDA Major Products	APEDA MAJOR MARKETS
1.	Non-Basmati Rice	Benin (8.35 %), China (7.63 %), Senegal (6.79 %), Cote D Ivoire (6.64 %), Togo (5.20 %)
2.	Basmati Rice	Saudi Arab (21.71 %), Iran (20.35 %), Iraq (7.87 %), U Arab Emnts (6.98 %), Yemen Republic (6.42 %)
3.	Buffalo Meat	Malaysia (16.77 %), Vietnam Soc Rep (15.94 %), Egypt A Rp (12.71 %), Indonesia (9.84 %), Iraq (7.32 %)
4.	Wheat	Bangladesh Pr (27.67 %), Indonesia (18.59 %), Korea Rp (10.13 %), U Arab Emnts (9.93 %), Yemen Republic (5.60 %)
5.	Maize	Bangladesh Pr (49.21 %), Vietnam Soc Rep (25.09 %), Nepal (10.72 %), Malaysia (5.12 %), Sri Lanka Dsr (3.97 %)
6.	Miscellaneous Preparation	U S A (17.87 %), U Arab Emnts (11.57 %), Malaysia (10.17 %), Nepal (5.31 %), Australia (4.74 %)
7.	Groundnut	Indonesia (33.41 %), Vietnam Soc Rep (24.44 %), Philippines (7.72 %), Malaysia (7.55 %), Thailand (6.46 %)
8.	Cereal Preparation	U S A (16.63 %), Nepal (6.85 %), Bangladesh Pr (6.84 %), U Arab Emnts (6.79 %), U K (4.77 %)
9.	Pulses	Bangladesh Pr (22.83 %), China P Rp (17.61 %), U Arab Emnts (15.13 %), U S A (7.83 %), Nepal (4.68 %)
10.	Processed Vegetables	U S A (16.95 %), U K (8.76 %), Philippines (7.56 %), Germany (5.55 %), Thailand (5.40 %)

GI PRODUCTS PROMOTION:

S.NO.	New GI Product	Origin	Export Destination
1	Dasheri Mango	Uttar pradesh	Bahrain, Belgium
2	Jardalu Mango	Bihar	Bahrain, Belgium
3	Khirsapati Mango	West Bengal	Bahrain
4	Fazli Mango	West Bengal	Bahrain
5	Laxmanbhog Mango	West Bengal	Bahrain, Belgium
6	Dalle Khursani (Round Chilli)	West Bengal	UAE, Qatar, Bahrain

Cardanol finds use in the chemical industry in Oil and Alcohol soluble resins, laminating resins, rubber compounding and coatings, serving as an excellent raw material for the preparation of high grade insulating varnishes, paints, enamels.

Cardanol comes from Cashew Nutshell Liquid CNSL, co-produced during of cashew nuts industry

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Direct Seeding method → Paddy cultivation

Plasticulture:- application of plastics in
Agri. sector.
seedling trays, greenhouse film.

Egg production:- Andhra Pradesh > TN

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wool production:- Raj > JK

Palmuru - Rangareddy Lift Irrigation project
↳ Krishna River | Telangana.

- Akkadi Sale → intercropping system
 - reducing we of pesticides.
- Prescmud → by-product of sugar industry.
 - organic material
- National Turmeric Board → M.G commerce & Industry
 - India - largest producer in the world.

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Zero Budget Natural Farming

Chemical free agriculture

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- Jeeva mrutha - cow dung + jaggery + etc.
- Bijamrita - pest mgmt → neem leaves
- Acchadana (mulching) = protect during cultivation
- Whapasa

→
Reduce
the irrigation by tilling.
Requirement
not destroy it

System of Rice Intensification :-



- yield ↑ crop
- Organic manure ↑
- labour intensive

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- Biofloc Technology: →

High density fish farming

fish waste → converted into

useful nutrients.

→ Limited water exchange

→ Higher productivity.

Food Fortification

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hidden hunger ↘ ↓

→ adding vitamins, minerals & micronutrients

Rice fortification + schools +
child care.

AgriStack → collection of digital database
+ tech-interventions in Agri.
↳ Farmer ID → linked to Address

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Fishery Survey of India — Mumbai

Nat. Fisheries Dev. Board — Hyderabad.

Coastal Aquaculture Authority — Chennai.

Gopal Ratna Award → livestock & dairy
sector

Rashtriya Gokul Mission — conservation
of bovine breeds

↓
Enhancing milk
production.

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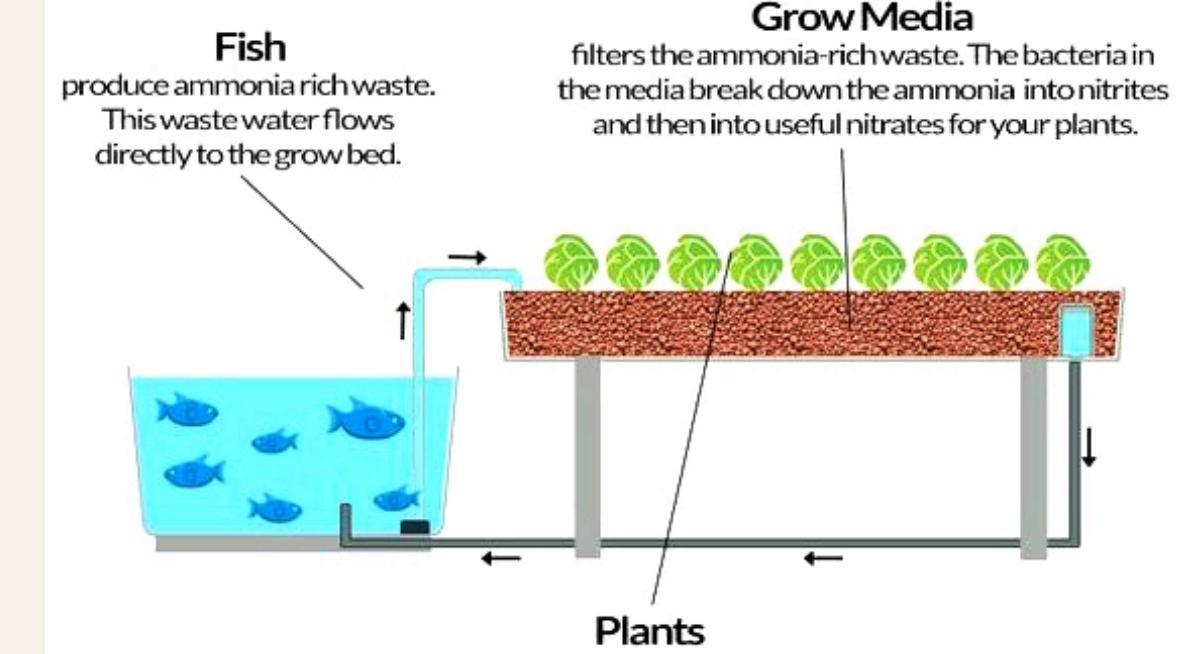
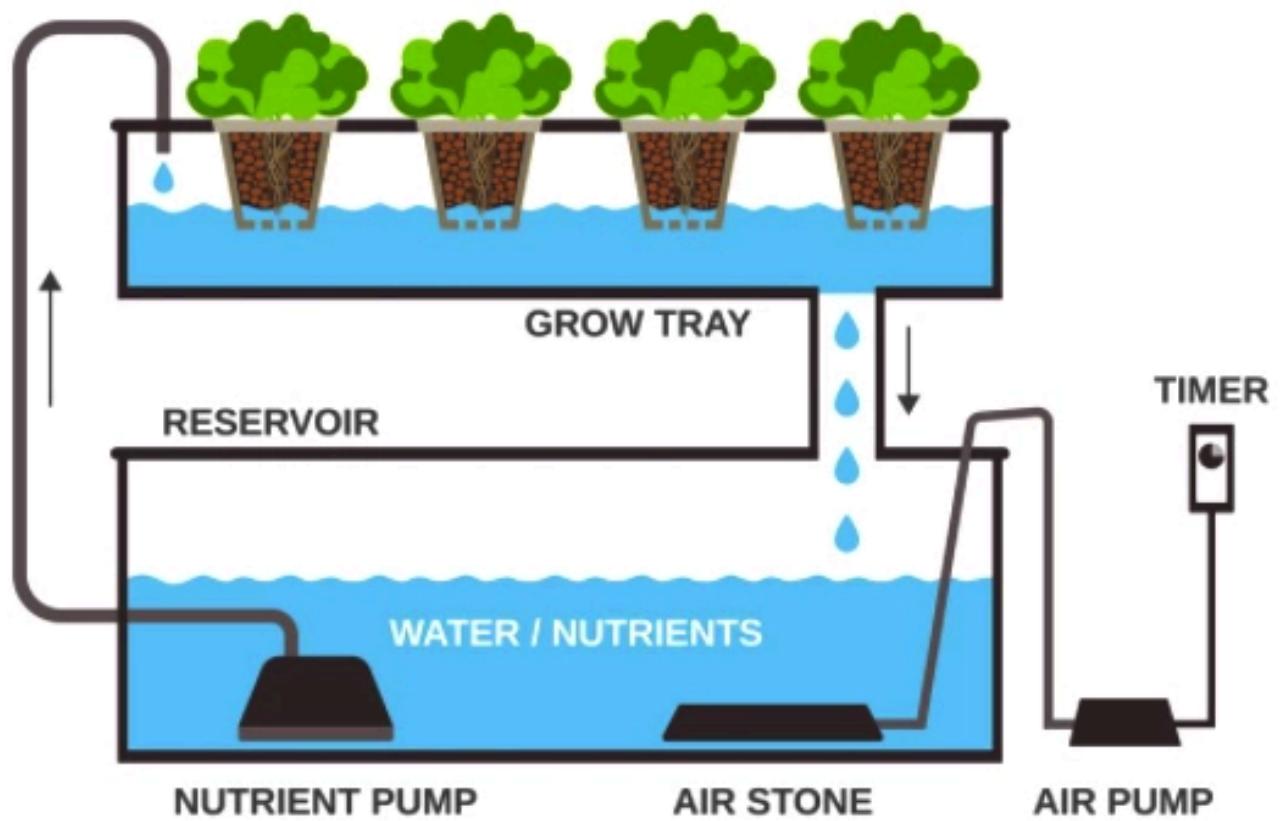
THREE BIOLOGICAL COMPONENTS IN THE AQUAPONICS PROCESS: FISHES, PLANTS, AND BACTERIA.

How An Aquaponics System Works

WATER-BASED, NUTRIENT-RICH SOLUTION.

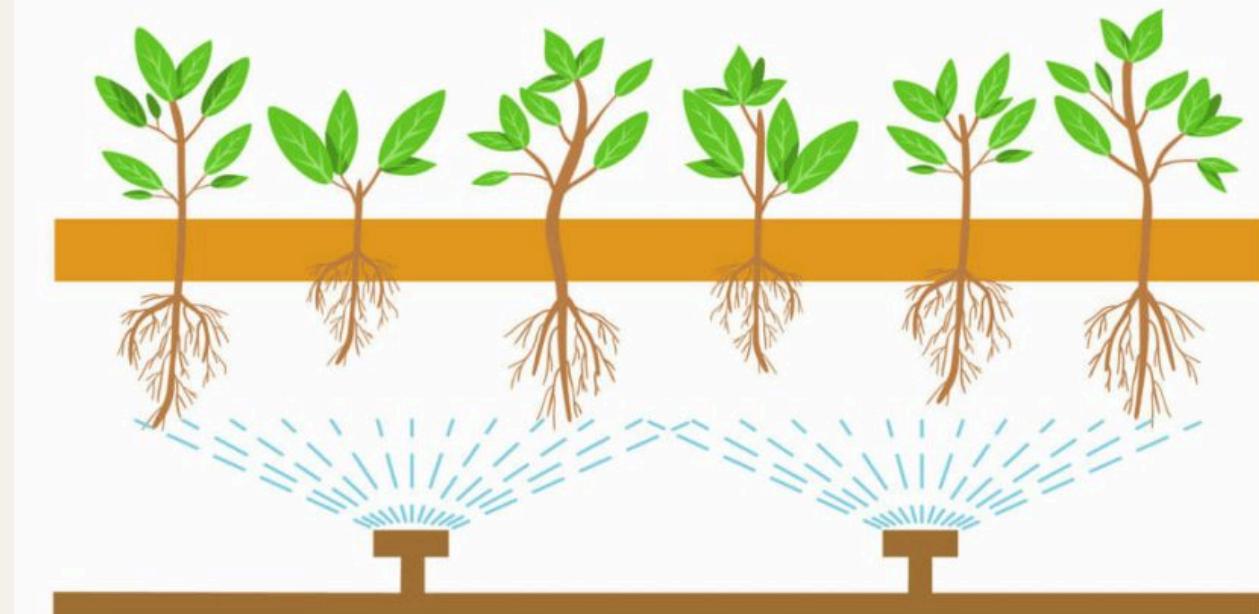
HYDROPONICS

infographics elements



ROOTS ARE SUSPENDED IN THE AIR AND PLANTS GROW IN A HUMID ENVIRONMENT WITHOUT SOIL.

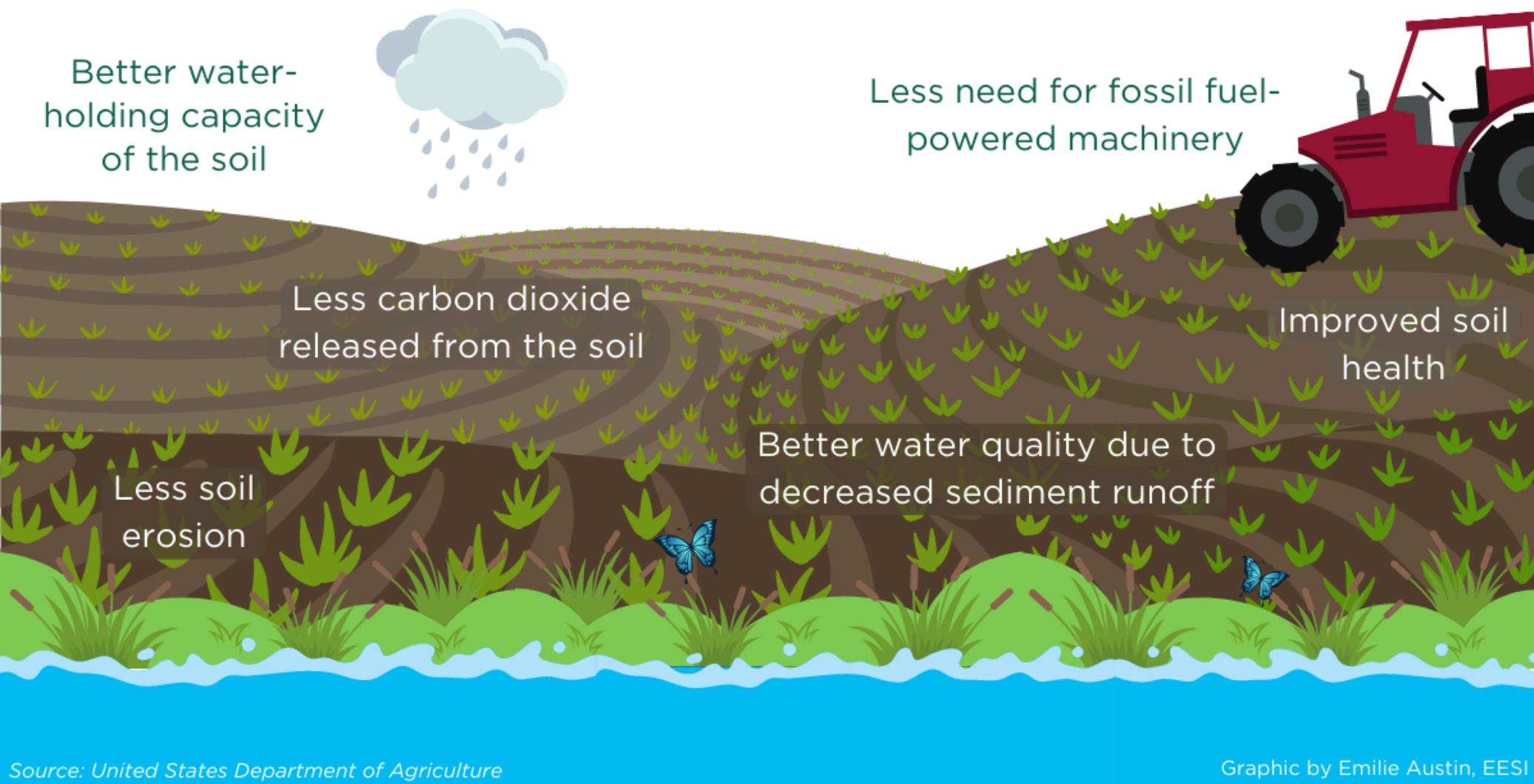
Aeroponics



SPawning

THE SPAWNING PROCESS IN MUSHROOM CULTIVATION IS A CRUCIAL STEP THAT INVOLVES THE INTRODUCTION OF MUSHROOM MYCELIUM, KNOWN AS SPAWN, INTO A PREPARED SUBSTRATE

Benefits of No-Till Farming



Source: United States Department of Agriculture

Graphic by Emilie Austin, EESI



List of Rabi Crops

Sl No	Common Name	Scientific Name
1.	Maize	<i>Zea mays</i> , L
2.	Lucerne	<i>Hedicago sativa</i>
3.	Cumin	<i>Cuminum cyminum</i> , L
4.	Coriender	<i>Coriandrum sativum</i> , L
5.	Wheat	<i>Triticum vulgare</i> , Vill
6.	Fenugreek	<i>Trigonella foenumgraecum</i> , L
7.	Gram	<i>Cicer arietinum</i>
8.	Onion	<i>Allium cepa</i> , L
9.	Mustard	<i>Brassica juncea</i> , L
10.	Tomato	<i>Lycopersicum esculentum</i> , Mill
11.	Fennel	<i>Foeniculum vulgare</i> , Miller
12.	Potato	<i>Solanum tuberosum</i>
13.	Isabgol	<i>Plantago ovata</i> . Fors
14.	Oat	<i>Avena sativa</i>

List of Kharif Crops

Sl No	Common Name	Scientific Name
1.	Paddy	<i>Oryza sativa</i> , L
2.	Guar (F)	<i>Cymopsis tetragonaloba</i> , Taub
3.	Castor	<i>Ricinus communis</i>
4.	Nagali	<i>Eleusine coracana</i> , G
5.	Hy Cotton	<i>Gossypium hirsutum</i> , L
6.	Chilly	<i>Capsicum frutescens</i> , L
7.	Cotton	<i>Gossypium herbaceum</i> , L
8.	Jowar	<i>Sorghum vulgare</i> , Pers
9.	Sesamum	<i>Sesamum orientale</i>
10.	Soyabean	<i>Glycine hispida</i> , Merr
11.	Maize	<i>Zea mays</i> , L
12.	Urid	<i>Vigna mungo</i> , L
13.	Bajri	<i>Pennisetum typhoideum</i> , L
14.	Arhar	<i>Cajanus cajan</i> , Milsp
15.	Ground Nut	<i>Arachis hypogaea</i> , L
16.	Fennel	<i>Foeniculum vulgare</i> , Miller

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