

F. No. 3-1/ 2016-17-CFCC-E&S
GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE
(CROP FORECAST COORDINATION CENTRE)

Room No. 344-A, Krishi Bhawan, New Delhi

Dated: 05.04.2017

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 31.03.2017.

Summary observations of the Group on Agenda Items

- *In the Pre Monsoon season, at All-India level, the rainfall during the week (23rd March, 2017 – 29th March, 2017) has been 78% lower than the Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been lower by 92% each in South Peninsula & North West India, 53% in East & North East India and equal to LPA in Central India.*
- *The cumulative rainfall in the country during the Pre monsoon season i.e. 01st March to 29th March, 2017 has been 11% lower than the Long Period Average (LPA). Rainfall in the four broad geographical divisions of the country during the above period have been higher by 94% in South Peninsula, 14% in East & North East India and lower by 39% in North West India, 33% in Central India.*
- *Out of 36 met sub-divisions, 15 met subdivisions constituting 35% of the total area of the country has received large excess/excess rainfall, 05 met sub-divisions constituting 16% of the total area of the country has received normal rainfall, 08 met sub-divisions constituting 22% of the total area of the country has received deficient, 05 met sub-divisions constituting 20% of the total area of the country has received large deficient rainfall and 03 met subdivisions constituting 07% of the total area of the country has received No Rain.*
- *Central Water Commission monitors 91 major reservoirs in the country which have total live capacity of 157.80 Billion Cubic Meter (BCM) at Full Reservoir Level (FRL). Out of these, 76 reservoirs with FRL capacity of 116.25 BCM have irrigation potential. Live storage in the 91 major reservoirs as on 30th March, 2017 has been 52.63 BCM as against 39.64 BCM on 30.03.2016 (last year) and 51.58 BCM of normal (average of the last 10 years) storage. Current year's storage is 133% of last year's storage and 102% of the average of last 10 year's storage.*
- *All-India progressive procurement of Rice as on 30.03.2017 for the Kharif marketing season 2016-17 was 324.81 lakh tonnes against the procurement of 304.15 lakh tonnes in the corresponding period of last year.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. **Pre Monsoon Season (March–May) during the week ending on 29th March, 2017**

➤ **Sub-division-wise weekly rainfall & minimum temperature is shown in Table-1.1**

- **Rainfall during the week (23rd March, 2017 to 29th March, 2017)** Rainfall was large excess/excess in 03 subdivision, deficient/large deficient in 12 and no rain in 21 subdivisions out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st March, 2017 to 29th March, 2017)** Rainfall was large excess/excess in 15, normal in 05, deficient/large deficient in 13 and no rain in 03 out of 36 meteorological sub-divisions.

Table - 1.2: Weekly and Cumulative Rainfall in four regions of the country¹

Region	Week Ending (29.03.2017)				Cumulative (01.03.17 to 29.03.17)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	0.9	11.5	-92	LD	28.2	46.2	-39	D
Central India	0.0	2.4	-100	NR	5.9	8.8	-33	D
South Peninsular India	0.3	3.3	-92	LD	21.1	10.9	94	LE
East & North-East India	8.5	18.3	-53	D	67.6	59.1	14	N
Country as a whole	1.7	7.9	-78	LD	25.6	28.8	-11	N

LE: Large Excess, E: Excess, N: Normal, D: Deficient, LD: Large Deficient, NR: No Rain.

Source: India Meteorological Department, New Delhi

Table- 1.3: Category wise comparative distribution of Sub-division (cumulative rainfall) and All – India Percentage Rainfall Departure for the last five years since: 1st Mar. to 29th Mar, 2017

No. of Sub-Divisions with rainfall	For the period from 1 st March to 29 th March, 2017					
	28 MAR 2012	27 MAR 2013	26 MAR 2014	01 APR 2015	30 MAR 2016	29 MAR 2017
Large Excess	-	-	-	-	-	07
Excess	00	09	19	26	13	08
Normal	00	00	06	01	05	05
Total	00	09	25	27	18	20
Deficient	09	09	05	05	10	08
Large Deficient	-	-	-	-	-	-
Scanty	15	15	05	04	06	05
No rain	12	03	01	00	02	03
Total	36	27	11	09	18	16
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 64%	(-) 5%	29%	95%	0%	-11%

Source: IMD

➤ Sub-division-wise 5 days rainfall forecast from 03rd Apr.,2017 to 07th Apr.,2017 is shown in Table 1.4

1. North-west India - Uttar Pradesh, Rajasthan, Haryana, Chandigarh and Delhi, Punjab, Uttaranchal, Himachal Pradesh, and Jammu and Kashmir.

Central India - Madhya Pradesh, Chhattisgarh, Maharashtra and Gujarat

South Peninsula - Andhra Pradesh, Karnataka, Tamil Nadu & Puducherry, Kerala and Lakshadweep.

East & North East India - Bihar, Jharkhand, Orissa, West Bengal, Sikkim, Assam, Arunachal Pradesh, Meghalaya, Nagaland, Manipur, Mizoram, Tripura, and Andaman and Nicobar Islands.

Table: 1.1

METEOROLOGICAL SUB-DIVISIONWISE DAILY DISTRIBUTION OF REALISED MAXIMUM TEMPERATURE & RAINFALL -2017																
S.No.	SUB-DIVISIONS	MAXIMUM TEMPERATURE							RAINFALL							
		23 MAR	24 MAR	25 MAR	26 MAR	27 MAR	28 MAR	29 MAR	23 MAR	24 MAR	25 MAR	26 MAR	27 MAR	28 MAR	29 MAR	
1	ANDAMAN & NICOBAR ISLANDS	N	N	N	N	N	N	N	DRY	DRY	DRY	SCT	DRY	ISOL	FWS	
2	ARUNACHAL PRADESH	N	N	N	N	N	N	ABN	DRY	DRY	FWS	SCT	WS	DRY	FWS	
3	ASSAM & MEGHALAYA	N	N	N	N	N	N	ABN	DRY	ISOL	FWS	SCT	SCT	ISOL	FWS	
4	NAGA,MANI,MIZO,TRIPURA	N	N	N	N	N	N	N	DRY	ISOL	ISOL	FWS	ISOL	ISOL	ISOL	
5	SUB-HIMA.WEST BEN. & SIKKIM	N	N	N	N	N	N	N	ISOL	ISOL	WS	ISOL	SCT	SCT	SCT	
6	GANGETIC WEST BENGAL	N	N	N	N	N	N	N	DRY	DRY	DRY	ISOL	DRY	ISOL	DRY	
7	ODISHA	N	N	N	AN	N	AAN	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
8	JHARKHAND	AAN	N	AAN	AAN	AN	N	N	ISOL	DRY	ISOL	DRY	DRY	DRY	DRY	
9	BIHAR	N	N	N	N	N	N	N	DRY	ISOL	ISOL	ISOL	DRY	ISOL	ISOL	
10	EAST UTTAR PRADESH	N	N	N	AAN	N	AAN	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
11	WEST UTTAR PRADESH	AAN	N	AAN	AAN	N	AAN	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
12	UTTARAKHAND	MAN	N	MAN	MAN	MAN	N	MAN	DRY	DRY	ISOL	DRY	DRY	DRY	DRY	
13	HARYANA CHAND. & DELHI	MAN	N	AAN	AAN	AAN	N	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
14	PUNJAB	AAN	AAN	AAN	MAN	N	N	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
15	HIMACHAL PRADESH	MAN	MAN	AAN	MAN	MAN	MAN	MAN	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY	
16	JAMMU & KASHMIR	AAN	MAN	MAN	MAN	MAN	AAN	MAN	FWS	SCT	DRY	DRY	DRY	ISOL	FWS	
17	WEST RAJASTHAN	AAN	AAN	N	MAN	MAN	MAN	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
18	EAST RAJASTHAN	AAN	AAN	N	AAN	N	MAN	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
19	WEST MADHYA PRADESH	N	N	AAN	AAN	AAN	AAN	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
20	EAST MADHYA PRADESH	N	N	AAN	AAN	AAN	MAN	MAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
21	GUJARAT REGION D.D. & N.H.	N	AN	AN	AAN	AAN	N	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
22	SAURASTRA KUTCH & DIU	N	AN	AAN	AAN	AAN	N	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
23	KONKAN & GOA	N	N	N	AN	N	N	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
24	MADHYA MAHARASHTRA	N	AN	N	AN	N	N	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
25	MARATHAWADA	N	N	AN	N	AAN	N	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
26	VIDARBHA	N	N	AAN	AAN	N	AAN	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
27	CHHATTISGARH	N	N	AN	AAN	N	N	AAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
29	TELANGANA	N	AN	AN	AN	AN	N	AN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
30	RAYALASEEMA	N	N	AN	AN	AN	N	AN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
31	TAMILNADU & PUDUCHERRY	N	N	N	AN	N	N	N	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL	
32	COASTAL KARNATAKA	N	AN	N	N	N	N	N	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL	
33	NORTH INTERIOR KARNATAKA	N	N	N	N	AN	N	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
34	SOUTH INTERIOR KARNATAKA	N	N	N	N	AN	N	AN	DRY	DRY	DRY	DRY	DRY	DRY	ISOL	
35	KERALA	N	N	N	AN	N	N	N	ISOL	ISOL	DRY	DRY	DRY	DRY	ISOL	
36	LAKSHADWEEP	N	N	N	N	N	N	N	DRY	DRY	DRY	DRY	DRY	DRY	DRY	

LEGENDS FOR RAINFALL:																
WBS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51-75%)	SCT	SCATTERED / FEW PLACES (26-50%)	ISOL	ISOLATED (UP TO 25 %)									
DRY	NO STATION REPORTED RAINFALL	RAINFALL ACTIVITY			*	ACTIVE (R.F 1 st - 4 times the normal)	**	VIGOROUS (R.F More than 4 times)								
(ACTIVE R.F 1 st - 4 times the normal & WS FWS, at least 2 stations should be 5 cm. along west coast & 3 cm. elsewhere)								(VIGOROUS R.F More than 4 times the normal & WS FWS, at least 2 stations should be 8 cm. along west coast & 5 cm. elsewhere)								

LEGENDS FOR TEMPERATURE:																	
N	NORMAL (±1,-1)°C	BN	BELOW NORMAL (±2)°C	ABN	APPRECIABLY BELOW NORMAL (±3, -4)°C	MBN	MARKEDLY BELOW NORMAL (±3 AND BELOW)°C										
AN	ABOVE NORMAL (±2)°C	AAN	APPRECIABLY ABOVE NORMAL (±3,-4)°C	MAN	MARKEDLY ABOVE NORMAL (±3 AND ABOVE)°C												
*	Cold wave conditions (Departure from Normal in/ -4°C to -3°C and -3°C to -6°C)							**	Severe Cold wave conditions (Departure from Normal in/ -6°C or less and -7°C or less)								

Table: 1.4

Met-Sub-Division	03-Apr Today	04Apr Tue	05Apr Wed	06Apr Thu	07Apr Fri
1. Andaman & Nicobar Islands	SCT	ISOL	ISOL	ISOL	ISOL
2. Arunachal Pradesh	WS	FWS	SCT	SCT	SCT
3. Assam & Meghalaya	WS	FWS	FWS	FWS	FWS
4. N. M. M. & T.	WS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	SCT	SCT	SCT	SCT
6. Gangetic West Bengal	ISOL	ISOL	ISOL	SCT	SCT
7. Odisha	ISOL	ISOL	ISOL	DRY	DRY
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	ISOL	ISOL	SCT	SCT
10. East Uttar Pradesh	DRY	DRY	ISOL	ISOL	ISOL
11. West Uttar Pradesh	DRY	ISOL	ISOL	ISOL	ISOL
12. Uttarakhand	DRY	SCT	FWS	FWS	FWS
13. Haryana, Chd & Delhi	DRY	SCT	SCT	ISOL	ISOL
14. Punjab	DRY	SCT	SCT	ISOL	ISOL
15. Himachal Pradesh	ISOL	FWS	WS	WS	WS
16. Jammu & Kashmir	SCT	FWS	WS	WS	WS
17. West Rajasthan	DRY	ISOL	DRY	DRY	DRY
18. East Rajasthan	DRY	ISOL	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	ISOL	ISOL	DRY	DRY
28. Coastal Andhra Pradesh	ISOL	ISOL	DRY	DRY	DRY
29. Telangana	DRY	DRY	DRY	DRY	DRY
30. Rayalaseema	DRY	DRY	DRY	DRY	DRY
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
35. Kerala	ISOL	ISOL	ISOL	ISOL	ISOL
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

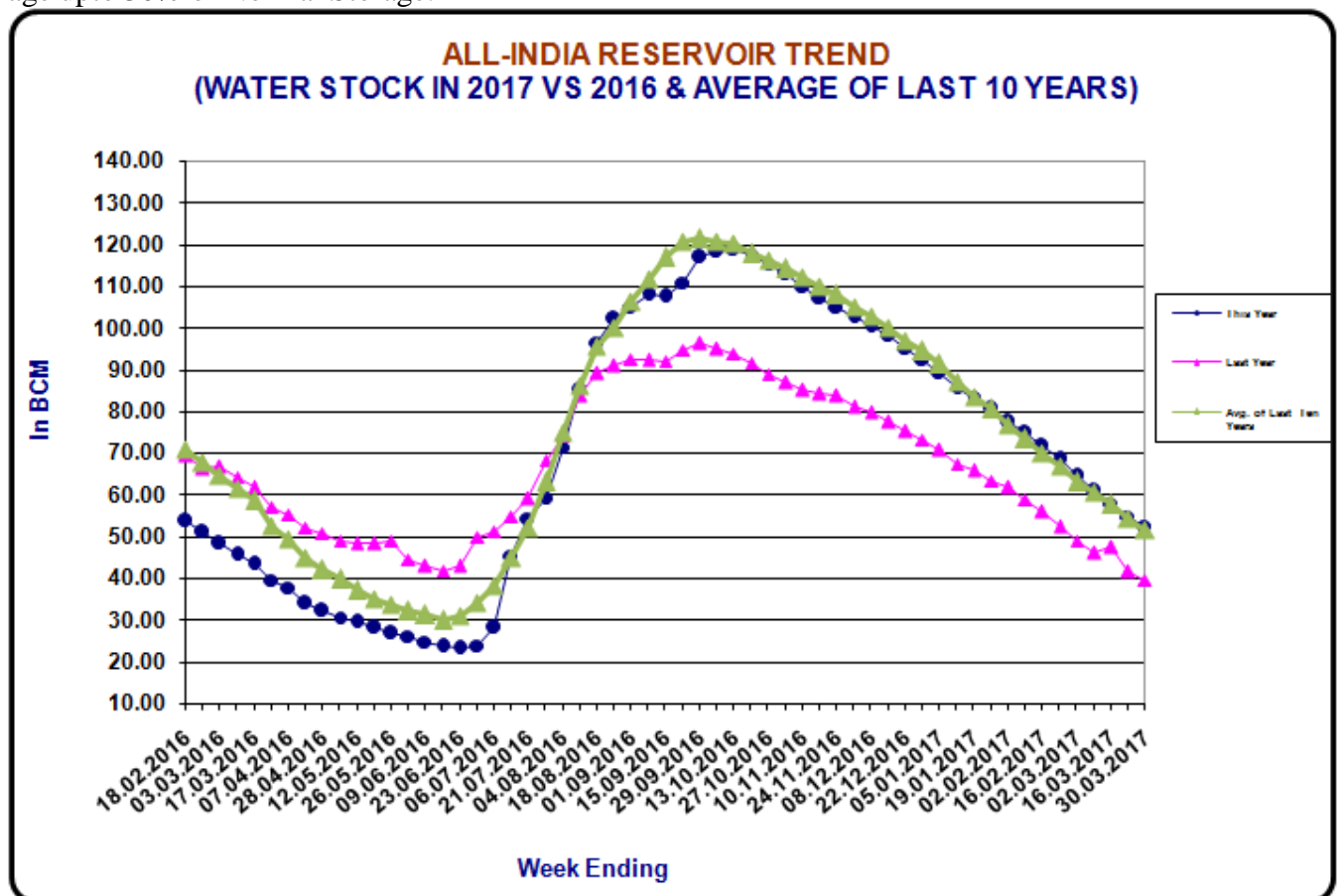
2. Reservoir Status (For the week ending on 30.03.2017)

- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 62% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **decreased** to 52.63 BCM from the previous week's level of 54.97 BCM. Current storage is higher than the last year's position of 39.64 BCM and the average of last 10 year's storage of 51.58 BCM.

Table – 2.1 : For 91 major reservoirs of the country

Period	Storage as % of FRL	Storage as % of last year	Storage as % of 10 year's average level
Current Week	33	133	102
Last Week	35	132	101
The percentage to live capacity at FRL was 25% on 30/03/2016, 34% on 30/03/2015, 41% on 30/03/2014 and 33% on 30/03/2013.			
<i>Source: CWC</i>			

There were 49 reservoirs having storage more than 80% of normal storage, 19 reservoirs having storage between 50% to 80%, 10 reservoir having storage between 30% to 50%, 13 reservoirs having storage upto 30% of Normal Storage.



Source: Central Water Commission

3. Fertilizer Position:

Table – 3.1: Requirement, Availability, Sales and Stock position of Major Fertilizers Urea, DAP, MOP, Complex and SSP during Rabi 2016-17 (As on 29.03.2017)

(in '000 Tonnes)

Availability / Sale / Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.10.2016	1509	1308	231	1056	212
Requirement for Rabi, 2016-17	14568	4973	1703	4961	3338
Requirement upto March, 2017	1226	434	200	583	308
Availability upto 29.03.2017	16018	8001	1502	4984	2292
Sales upto 29.03.2017	13892	7000	1404	3708	1929
Closing Stock upto 29.03.2017	2126	1001	97	1277	363

Source: Fertilizer Division (DAC&FW) / Deptt. of Fertilizer

4. Pest & Diseases:

- Incidence of the **Basal stem rot (*Ganoderma lucidum*)** has been reported at **moderate** on Coconut plants in few villages of Mysore district in Karnataka state. The trees are 15 to 25 years old. **Low** intensity of Top shoot borer has been reported in Sugarcane in few villages of Mandya, Mysore and Chamarajanagara districts of Karnataka. The Crop stage is at Cane formation.
- The special survey for **Rugose Spiralling Whitefly(RSW)** on different crop was conducted in 15 Taluka of 4 districts namely; Ramanagara, Mandya, Mysore and Chamarajanagara of Karnataka state. Guava at Voderahalli Horticultur Farm, Chanapatana Taluk., Ramanagara and Jamun tree at Agriculture College, V.C. Farm, Mandya were found infested with RSW. Other major hosts of namely Coconut, Arecanut, Teak, Mango, Banana, Papaya, Cassava, Tomato etc. were free from infestation of RSW.
- Special survey was also conducted for **Pod borer and Wilt in Red gram** in Maharashtra state under CROP-SAP. During survey, 25 villages of Amravati, Nagpur, Aurangabad, Latur, Pune and Nasik division of Maharashtra were found above ETL level.
- Incidence of, Leaf Yellow Stem Borer folder/Case worm, BPH, Blast, Sheath blight, BLB and Gallmidge in Paddy was reported by State Agriculture Department covering 1460 area in hectare in Bargarh, Balasore, Kalahandi, Bhadrak, Koraput, Sonapur, Nuapada districts of Odisha.
- Incidence of Leaf minor, Leaf Eating, Caterpillar, Termite, Collar rot, Tikka, Thrips, Jassid, White grub and Aphid effecting Groundnut covering area 136 hectare was reported by State Agriculture Department Odisha.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

5. Progressive procurement of Kharif Rice as on 30.03.2017 (lakh tonnes)

Table: 5.1

State	Total procurement in marketing season 2015-16 (Oct. – Sept.)	Progressive Procurement as on 30.03.2017	
		In Marketing season 2016-2017	In Marketing season 2015-2016
Andhra Pradesh	43.36	25.77	29.14
Telangana	15.79	11.03	10.16
Chhattisgarh	34.42	46.62	39.72
Haryana	28.61	35.70	28.61
Kerala	3.82	2.06	2.50
Madhya Pradesh	8.49	13.14	8.41
Maharashtra	2.30	2.40	1.52
Odisha	33.69	24.07	23.63
Punjab	93.50	110.47	93.50
Tamil Nadu	11.92	1.37	8.83
Uttar Pradesh	29.10	23.54	29.10
Uttrakhand	5.98	7.06	5.97
West Bengal	15.68	8.71	10.41
All-India	342.18	324.81	304.15