

F. No. 3-1/ 2015-16-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: 08.02.2016

**SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON
05.02.2016.**

Summary observations of the Group on Agenda Items

- **Details of the mean maximum and minimum temperature during the week 28th January, 2016 to 03rd February, 2016 were as under:-**

Maximum Temperature

- *Above normal by 4 to 6°C over some parts of Telangana and isolated pockets of Himachal Pradesh, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Marathwada, North Interior Karnataka and by 2 to 4°C over many parts of Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Jharkhand, Madhya Pradesh, Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Vidarbha, Gujarat, Telangana, Andhra Pradesh, Karnataka, some parts of Haryana, Uttar Pradesh and isolated pockets of Bihar, Gangetic West Bengal, Konkan, Tamil Nadu, Kerala.*
- *Normal to near normal in remaining parts of the country.*

Minimum Temperature

- *Above normal by 4 to 6°C over isolated pockets of Kutch and by 2 to 4°C over West Rajasthan, many parts of Haryana & Delhi, West Uttar Pradesh, East Rajasthan, Gujarat, Mizoram, some parts of Manipur, Odisha, West Madhya Pradesh and isolated pockets of Himachal Pradesh, Gangetic West Bengal, East Madhya Pradesh, Chhattisgarh and Coastal Andhra Pradesh.*
- *Normal to near normal in remaining parts of the country.*
- *In the winter season, weekly Rainfall for the country as a whole during the week 28th January, 2016 to 03rd February, 2016 was 72% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was lower by 96% in East & North East India, 57% in North West India, 99% in Central India and 70% in South Peninsula.*
- *The cumulative rainfall in the country during the post monsoon season i.e. 01st January, 2016 to 03rd February, 2016 was 63% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was lower by 37% in East & North East India, 74% in North West India, 50% in Central India and 57% in South Peninsula.*

- *Out of 36 met sub-divisions, 06 met sub-divisions constituting 12% of the total area of the country has received excess/normal rainfall, 25 met sub-divisions constituting 75% of the total area of the country has received deficient/scanty rainfall and 05 met sub-divisions constituting 13% 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 BCM at Full Reservoir Level (FRL). Current live storage in these reservoirs as on 04th February, 2016 was 59.34 BCM as against 76.05 BCM on 04.02.2015 (last year) and 77.87 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 78% of the last year's storage and 76% of the normal storage.*
- *As per final reports on sowing of Rabi crops, around 95.3% of the normal area under Rabi crops has been sown upto 28.01.2016. Area sown under all Rabi crops taken together has been reported to be 591.51 lakh hectares at All India level as compared to 609.31 lakh hectares in the corresponding period of last year.*
- *All-India progressive procurement of Rice as on 05.02.2016 for the marketing season 2015-16 was 249.40 lakh tonnes against the procurement of 202.29 lakh tonnes upto the corresponding period of last year.*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. Winter Season (January – February) during the week ending on 03rd February, 2016

Sub-division-wise daily distribution of rainfall and minimum temperature are shown in Table-1.1

- **Rainfall during the week (28th January, 2016 to 03rd February, 2016)** Rainfall was excess in 01, deficient/scanty in 13 and no rain in 22 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st January, 2016 to 03rd February, 2016)** Rainfall was excess/normal in 06, deficient/scanty in 25 and no rain in 05 out of 36 meteorological sub-division.

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

Region	Week Ending (03.02.2016)				Cumulative (01.01.16 to 03.02.16)			
	(in mm)		Devi- ation (%)	Cat.	(in mm)		Devi- ation (%)	Cate- gory
	Actual	Normal			Actual	Normal		
North-West India	4.4	10.4	-57	D	10.3	40.5	-74	S
Central India	0.0	1.6	-99	S	4.3	8.6	-50	D
South Peninsular India	0.3	1.0	-70	S	3.5	8.2	-57	D
East & North-East India	0.3	8.3	-96	S	15.6	24.6	-37	D
Country as a whole	1.5	5.3	-72	S	7.8	21.2	-63	S

E: Excess, N: Normal, D: Deficient, S: Scanty, 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 January to

No. of Sub-Divisions with rainfall	<i>For the period from 1st January to</i>					
	02 FEB 2011	01 FEB 2012	06 FEB 2013	05 FEB 2014	04 FEB 2015	03 FEB 2016
Excess	02	11	08	08	15	04
Normal	00	10	04	02	08	02
Total	02	21	12	10	23	06
Deficient	05	04	06	08	10	09
Scanty	19	07	17	16	03	16
No rain	10	04	01	02	00	05
Total	34	15	24	26	13	30
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36
All-India % Rainfall Deviation	(-) 67%	36%	(-) 9%	(-) 6%	(-) 2%	(-) 63%

Source: IMD

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 & Pondicherry, Kerala and Lakshadweep.

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 RAINFALL & MINIMUM TEMPERATURE-2016																
S.No.	SUB-DIVISIONS	RAINFALL							MINIMUM TEMPERATURE							
		28 JAN	29 JAN	30 JAN	31 JAN	01 FEB	02 FEB	03 FEB	28 JAN	29 JAN	30 JAN	31 JAN	01 FEB	02 FEB	03 FEB	
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	ISOL	ISOL	DRY	DRY	DRY	N	N	N	N	N	N	N	
2	ARUNACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	ISOL	N	N	N	N	N	N	N	
3	ASSAM & MEGHALAYA	ISOL	DRY	DRY	DRY	DRY	ISOL	DRY	N	N	N	N	N	N	N	
4	NAGA,MANI,MIZO,TRIPURA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
5	SUB-HIMA.WEST BEN. & SIKKIM	DRY	DRY	DRY	DRY	DRY	ISOL	ISOL	N	N	N	N	N	N	N	
6	GANGETIC WEST BENGAL	ISOL	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	AAN	
7	ODISHA	ISOL	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
8	JHARKHAND	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	AN	AN	
9	BIHAR	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	AN	N	
10	EAST UTTAR PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
11	WEST UTTAR PRADESH	DRY	DRY	ISOL	DRY	DRY	DRY	DRY	N	N	AAN	MAN	AAN	N	N	
12	UTTARAKHAND	DRY	DRY	ISOL	DRY	DRY	DRY	DRY	N	AAN	AAN	N	N	N	N	
13	HARYANA CHAND. & DELHI	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	AAN	N	MAN	N	N	N	
14	PUNJAB	DRY	ISOL	ISOL	DRY	DRY	DRY	DRY	N	AAN	MAN	N	N	N	N	
15	HIMACHAL PRADESH	DRY	ISOL	FWS	ISOL	DRY	DRY	DRY	N	N	N	N	N	N	N	
16	JAMMU & KASHMIR	ISOL	ISOL	SCT	SCT	DRY	DRY	DRY	N	MAN	AAN	N	N	N	N	
17	WEST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	MAN	MAN	MAN	N	N	N	
18	EAST RAJASTHAN	DRY	DRY	DRY	DRY	DRY	DRY	DRY	AAN	AAN	AAN	MAN	N	N	N	
19	WEST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AAN	AAN	N	AN	N	
20	EAST MADHYA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	AAN	N	AN	N	
21	GUJARAT REGION D.D. & N.H.	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AAN	N	N	N	N	
22	SAURASTRA KUTCH & DIU	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	AAN	N	N	N	N	
23	KONKAN & GOA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	BN	
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
25	MARATHAWADA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
26	VIDARBHA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
27	CHHATTISGARH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
28	COASTAL ANDHRA PRADESH	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
29	TELANGANA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
30	RAYALASEEMA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	BN	
31	TAMILNADU & PUDUCHERRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
32	COASTAL KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
33	NORTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
34	SOUTH INTERIOR KARNATAKA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
35	KERALA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	
36	LAKSHADWEEP	DRY	DRY	DRY	DRY	DRY	DRY	DRY	N	N	N	N	N	N	N	

LEGENDS FOR RAINFALL:																
WS	WIDE SPREAD / MOST PLACES (75-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51-75%)	SCT	SCATTERED/ FEW PLACES (25-50%)	ISOL	ISOLATED/One or two places (UP TO 25 %)									
DRY	NO STATION REPORTED RAINFALL	RAINFALL ACTIVITY		*	ACTIVE (≥1° - 4 times the normal)	**	VIGOROUS (≥6 More than 4 times)									

LEGENDS FOR TEMPERATURE:																
N	NORMAL (-1.5 to +1.5)°C	BN	BELOW NORMAL (+1.6 to 2.0)°C	ABN	APRECIABLY BELOW NORMAL (-3.1 to -5.0)°C	MBN	MARKEDLY BELOW NORMAL (-5.0 °C or less)									
AN	ABOVE NORMAL (+1.6 to 2.0)°C	AAN	APRECIABLY ABOVE NORMAL (+3.1 to 5.0)°C	MAN	MARKEDLY ABOVE NORMAL (+5.0 °C or more)											
*	Cold wave conditions (Min.Temp.Dep. is -4.5 to -6.5)°C	**	Severe Cold wave conditions (Min.Temp.Dep. is -6.4 °C or more)	*	Cold day conditions (Max.Temp.Dep. is -4.5 to -6.5)°C	**	Severe Cold day conditions (Max.Temp.Dep. is -6.5° C or less)									

2. Reservoir Status (For the week ending on 04.02.2016)

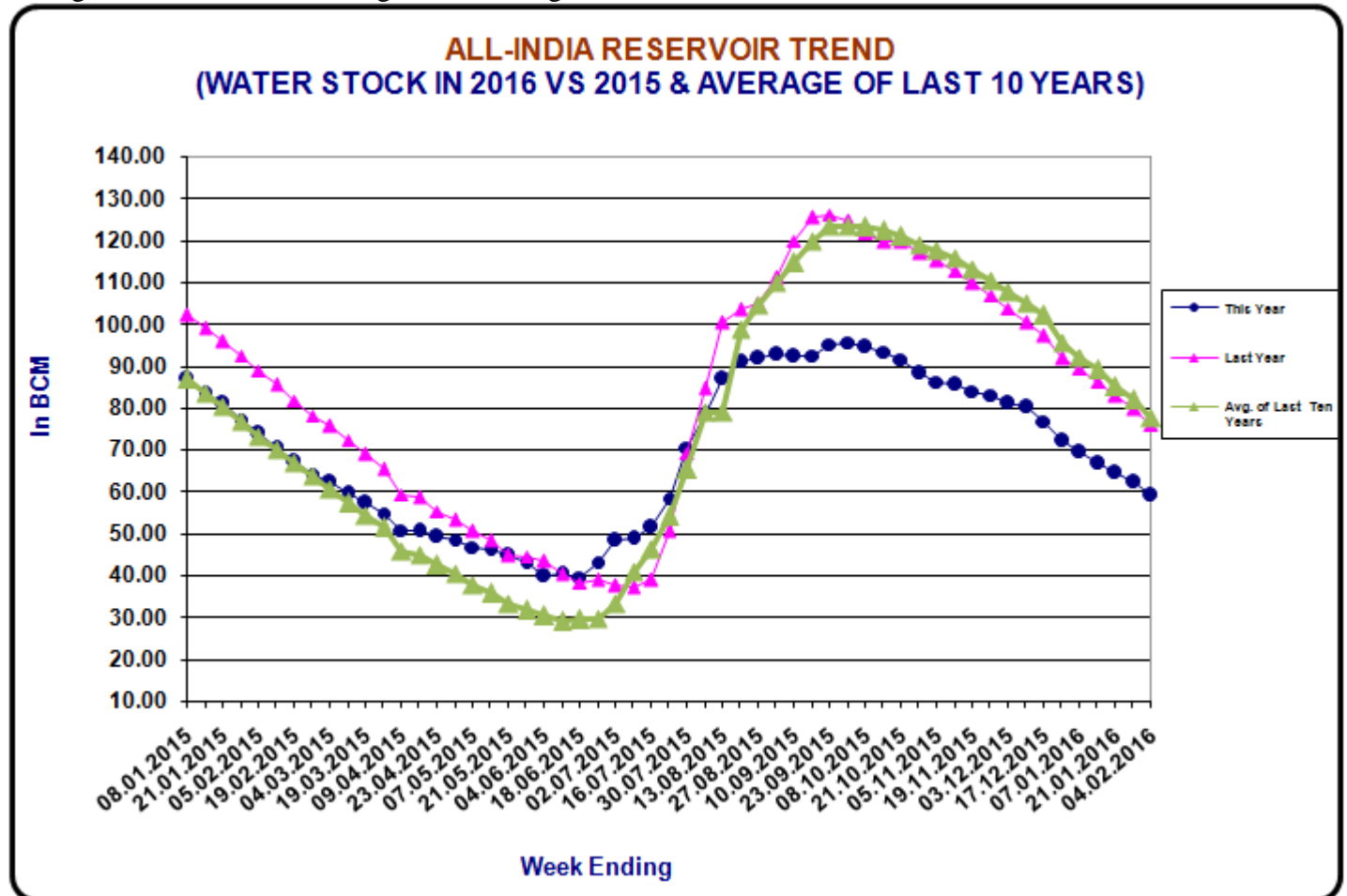
- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 62% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs **decreased to** 59.34 BCM from the previous week's level of 62.22 BCM. Current storage is **lower** than the last year's position of 76.05 BCM and the average of last 10 year's storage of 77.87 BCM.

Table – 2.1 : For 91 major reservoirs of the country

<u>Period</u>	Current Year's Storage as % of FRL*	Current Year's storage as % of last year	Current year as a % of 10 years average level
Current Week	38	78	76
Last Week	39	78	76
The percentage to live capacity at FRL was 48% on 04/02/2015, 54% on 04/02/2014, 46% on 04/02/2013 and 51% on 04/02/2012.			
* Live storage as % to Full Reservoir Level (FRL) of 157.80 <i>Billion Cub. Mts.(BCM)</i>			

Source: CWC

There were 35 reservoirs having storage more than 80%, 30 reservoirs having storage between 50% to 80% of Normal Storage, 13 reservoir having storage between 30% to 50%, 13 reservoir having storage 30% of Normal Storage and 03 reservoir having no live 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 2015-16 (As on 31.01.2016)

(in '000 Tonnes)

Availability / Sale / Closing Stock	Urea	DAP	MOP	Complex	SSP
Opening Stock as on 01.10.2015	289	930	260	840	340
Requirement for Rabi, 2015-16	15885	5141	1777	5316	3248
Requirement upto January, 2016	2779	466	273	733	517
Availability upto 31.01.2016	12456	4126	1115	3822	1698
Sales upto 31.01.2016	11371	2702	750	2850	1283
Closing Stock upto 31.01.2016	1084	1423	366	971	415

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

4. Pest & Diseases:

- Incidence of yellow rust in wheat crop has been reported in trace intensity in patches in some villages of Roopnagar, SBS Nagar and Hoshiarpur districts in Punjab; Bilaspur, Una, Mandi districts in Himachal Pradesh; Mogar village of Anand district in Gujarat and Khanwal Kataan, Talla Bazula and Lakhani Mandi villages of Haldwani block of Nainital district in Uttarakhand. However, Considerable incidence of yellow rust on wheat in patching ranging 1 sq.M to 1 sq. Acre has been reported in Ishapur village of Jagadhari balock, Lawana, Khanpur, Mustafabad & Kotarkhana villages of Mustafabad balock, Laharpur and Manakpur villages of Sadhura balock, Palewala village of Radaur balock of Yamunanagar district in Haryana, covering 12 acres.
- Advisories have been issued to state Governments and CIPMCs for continuous monitoring of yellow rust diseases on Wheat crop and to take appropriate control measures in wheat growing areas of Haryana, Punjab, Jammu & Kashmir, Himachal Pradesh, Rajasthan and Uttar Pradesh along with the monitoring of aphids and white rust on mustard crop.
- Incidence of white rust in mustard crop has been reported in trace to low intensity in few villages of Sriganaganagar district of Rajasthan; Anand, Kheda, Baroda, Ahmedabad, Mehsana districts of Gujarat and south district of Sikkim.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

5. All India Crop Situations

Table: 5.1

All India Crop Situation - Rabi-Final (2015-16) as on 28.01.2016									
(Area in lakh hectares)									
Crop Name	Normal Area	Average Area as on date	Area sown			Absolute Change over (+/-)		% Change over	
			28.01.2016	% of Normal	28.01.2015	Average as on date	Last Year	Average as on date	Last Year
Wheat	295.74	301.30	292.52	98.9	305.94	-8.8	-13.4	-2.9	-4.4
Rice	43.11	27.73	22.41	52.0	24.08	-5.3	-1.7	-19.2	-6.9
Jowar	39.57	36.81	37.35	94.4	33.36	0.5	4.0	1.5	12.0
Maize	14.17	13.50	14.64	103.3	14.92	1.1	-0.3	8.4	-1.9
Barley	6.68	7.25	7.26	108.7	7.60	0.0	-0.3	0.1	-4.5
Total Coarse Cereals	60.43	58.37	60.08	99.4	56.76	1.7	3.3	2.9	5.8
Total Cereals	399.18	387.40	375.01	93.9	386.78	-12.4	-11.8	-3.2	-3.0
Gram	88.21	90.97	85.48	96.9	85.74	-5.5	-0.3	-6.0	-0.3
Lentil	14.81	15.27	13.45	90.8	15.01	-1.8	-1.6	-11.9	-10.4
Peas	7.93	10.09	9.79	123.4	10.37	-0.3	-0.6	-3.0	-5.6
Kulthi(Horse Gram)	2.13	4.82	4.16	195.1	5.07	-0.7	-0.9	-13.7	-17.9
Urad	7.47	6.81	8.16	109.2	8.08	1.4	0.1	19.8	1.0
Moong	7.92	5.33	5.59	70.6	6.45	0.3	-0.9	4.9	-13.3
Lathyrus	4.86	4.22	3.91	80.5	4.02	-0.3	-0.1	-7.3	-2.7
Others	3.16	7.80	8.53	270.1	8.27	0.7	0.3	9.4	3.1
Total Pulses	136.48	145.31	139.08	101.9	143.01	-6.2	-3.9	-4.3	-2.7
Total Foodgrains	535.66	532.71	514.09	96.0	529.79	-18.6	-15.7	-3.5	-3.0
Rapeseed & Mustard	62.78	68.57	64.51	102.8	65.17	-4.1	-0.7	-5.9	-1.0
Groundnut	8.68	7.16	4.45	51.3	5.96	-2.7	-1.5	-37.8	-25.3
Safflower	2.29	1.77	1.10	48.1	0.96	-0.7	0.1	-37.9	14.6
Sunflower	5.89	4.27	2.95	50.1	2.84	-1.3	0.1	-30.9	3.9
Sesamum	2.43	0.74	0.56	23.0	0.88	-0.2	-0.3	-24.3	-36.4
Linseed	3.23	3.97	2.93	90.8	3.19	-1.0	-0.3	-26.2	-8.2
Total Oilseeds (Nine)	85.29	87.17	77.43	90.8	79.51	-9.7	-2.1	-11.2	-2.6
All- Crops	620.95	619.88	591.51	95.3	609.31	-28.4	-17.8	-4.6	-2.9
Normal Area - Average of 5 years area (2009-10 to 2013-14) for whole Rabi Season.									
Average Area as on date - Average of last 5 years area (2010-11 to 2014-15) of corresponding period.									