

F. No. 3-1/ 2015-16-CFCC-E&S
GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE
DEPARTMENT OF AGRICULTURE & COOPERATION
(CROP FORECAST COORDINATION CENTRE)

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

Dated: 11.08.2015

SUBJECT: MINUTES OF THE MEETING OF THE CROP WEATHER WATCH GROUP HELD ON 07.08.2015.

Summary observations of the Group on Agenda Items

- **Details of the mean maximum temperature during the week 30th July to 05th August, 2015, were as under:-**
 - *Above normal by 4^oC over many parts of Telangana, some parts of North Interior Karnataka and isolated pockets of Coastal Andhra Pradesh, North Interior Karnataka and Rayalaseema by 2 to 4^oC over Arunachal Pradesh, many parts of Marathwada, Coastal Andhra Pradesh, Rayalaseema Interior Karnataka, Kerala, some parts of Assam, Chhattisgarh, Telangana, Madhya Maharashtra, Tamil Nadu and isolated pockets of Jammu & Kashmir, Himachal Pradesh, Sub-Himalayan West Bengal and Vidarbha.*
 - *Below normal by 2 to 6^oC over many parts of West Rajasthan, some parts of Punjab and isolated pockets of Haryana.*
 - *Normal to near normal in remaining parts of the country.*
- **Details of the mean minimum temperature during the week 30th July to 05th August, 2015, were as under:-**
 - *Above normal by 2 to 4^oC over some parts of Andaman & Nicobar Islands and isolated pockets of Telangana.*
 - *Below normal by 4 to 6^oC over isolated pockets of Jammu & Kashmir by 2 to 4^oC over some parts of Jammu & Kashmir, Gujarat Region and isolated pockets of Uttarakhand, Punjab, West Madhya Pradesh and Rajasthan.*
 - *Normal to near normal in remaining parts of the country.*
- ***In the monsoon season, weekly Rainfall for the country as a whole during the week 30th July to 05th August, 2015 was 26% 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 7% in East & North East India, 30% in North West India, 24% in Central India and 51% in South Peninsula.***
- ***In the monsoon season, cumulative Rainfall for the country as a whole during the period 1st June to 05th August, 2015 was 6% lower than Long Period Average (LPA). Rainfall (% departure from LPA) in the four broad geographical divisions of the country during the above period was higher by 5% in North West India and lower by 9% in East & North East India, 4% in Central India and 21% in South Peninsula.***

- *Out of 36 met sub-divisions, 21 met sub-divisions constituting 65% of the total area of the country has received excess/normal rainfall and 15 met sub-divisions constituting 35% of the total area of the country has received deficient rainfall.*
- *Out of 613 districts, 117 districts (19%) received excess, 238 districts (39%) received normal, 226 districts (37%) received deficient and 32 districts (5%) received scanty rainfall during the above period.*
- *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 06th August, 2015 was 78.37 BCM as against 84.72 BCM on 06.08.2014 (last year) and 79.04 BCM of normal (average storage of the last 10 years) storage. Current year's storage is 93% of the last year's storage and 99% of the normal storage.*
- *As per latest information available on sowing of Kharif crops, around 80.0% of the normal area under Kharif crops has been sown upto 07.08.2015. Area sown under all Kharif crops taken together has been reported to be 847.40 lakh hectares at All India level as compared to 808.40 lakh hectares in the corresponding period of last year.*
- *Area coverage was higher by 1.7 lakh ha. under Maize, 3.8 lakh ha. under Urad, 7.5 lakh ha. under Soyabean and 1.9 lakh ha. under Sesamum. Area coverage was lower by 3.4 lakh ha. under Rice [WB (4.47), Telangana (2.84), A.P. (2.69), Mah. (2.56), Odisha (2.37), Guj. (1.52), Chhat. (1.03)], 4.3 lakh ha. under Jowar, 1.1 lakh ha. under Bajra, 3.3 lakh ha. under Tur, 5.3 lakh ha. under Groundnut, 2.0 lakh ha. under Castorseed 4.3 lakh ha. under Cotton and 2.1 lakh ha. under Sugarcane as compared to average area (as on date).*
- *Availability position of seeds and fertilizers has been found satisfactory.*

1. Monsoon Season (June – September) during the week ending on 05th August, 2015

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

- **Rainfall during the week (30th July, 2015 to 05th August, 2015)** Rainfall was excess/normal in 08 and deficient/scanty in 28 out of 36 meteorological sub-divisions.
- **Cumulative rainfall (01st June to 05th August, 2015)** Rainfall was excess/normal in 21 and deficient in 15 out of 36 meteorological sub-divisions.

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

| Region | Week Ending (05.08.2015) | | | | Cumulative (01.06.15 to 05.08.15) | | | |
|-------------------------|--------------------------|--------|-----------------------|------|-----------------------------------|--------|-----------------------|---------------|
| | (in mm) | | Devi- ation (%) | Cat. | (in mm) | | Devi- ation (%) | Cate- gory |
| | Actual | Normal | | | Actual | Normal | | |
| North-West India | 38.2 | 54.6 | -30 | D | 342.8 | 327.1 | 5 | N |
| Central India | 59.3 | 78.0 | -24 | D | 525.1 | 545.9 | -4 | N |
| South Peninsular India | 22.2 | 45.0 | -51 | D | 321.8 | 409.9 | -21 | D |
| East & North-East India | 76.0 | 81.7 | -7 | N | 772.8 | 846.0 | -9 | N |
| Country as a whole | 48.2 | 65.0 | -26 | D | 468.6 | 499.8 | -6 | N |

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 June to

| No. of Sub-Divisions with rainfall | <i>For the period from 1st June to</i> | | | | | |
|---------------------------------------|---|---------------|----------------|-------------|----------------|---------------|
| | 04 AUG 2010 | 03 AUG 2011 | 08 AUG 2012 | 07 AUG 2013 | 06 AUG 2014 | 05 AUG 2015 |
| Excess | 11 | 04 | 00 | 17 | 01 | 07 |
| Normal | 20 | 22 | 18 | 13 | 19 | 14 |
| Total | 31 | 26 | 18 | 30 | 20 | 21 |
| Deficient | 05 | 10 | 13 | 06 | 16 | 15 |
| Scanty | 00 | 00 | 05 | 00 | 00 | 00 |
| No rain | 00 | 00 | 00 | 00 | 00 | 00 |
| Total | 05 | 10 | 18 | 06 | 16 | 15 |
| Data Inadequate | 00 | 00 | 00 | 00 | 00 | 00 |
| TOTAL | 36 | 36 | 36 | 36 | 36 | 36 |
| All-India % Rainfall Deviation | (-) 2% | (-) 6% | (-) 17% | 15% | (-) 18% | (-) 6% |

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-2015 | | | | | | | | |
|---|------------------------------|----------|---------|---------|---------|---------|---------|---------|
| S.No. | SUB-DIVISIONS | RAINFALL | | | | | | |
| | | 30 JULY | 31 JULY | 01 AUG. | 02 AUG. | 03 AUG. | 04 AUG. | 05 AUG. |
| 1 | ANDAMAN & NICOBAR ISLANDS | SCT | SCT | SCT | SCT | FWS | WS | WS |
| 2 | ARUNACHAL PRADESH | ISOL | ISOL | SCT | ISOL | FWS* | SCT | WS* |
| 3 | ASSAM & MEGHALAYA | ISOL | SCT | SCT | ISOL | ISOL | SCT | WS* |
| 4 | NAGA MANI MIZO & TRIPURA | SCT | WS* | WS* | SCT | ISOL | SCT | SCT |
| 5 | SUB-HIM WEST BENGAL & SIKKIM | ISOL | SCT | SCT | SCT | SCT | SCT | FWS* |
| 6 | GANGETIC WEST BENGAL | WS** | WS* | WS** | WS* | FWS | ISOL | ISOL |
| 7 | ODISHA | ISOL | ISOL | SCT | WS | FWS* | SCT | SCT |
| 8 | JHARKHAND | ISOL | WS* | WS* | WS** | WS* | ISOL | DRY |
| 9 | BIHAR | ISOL | ISOL | FWS | SCT | SCT | ISOL | ISOL |
| 10 | EAST UTTAR PRADESH | DRY | ISOL | FWS* | SCT | SCT | ISOL | ISOL |
| 11 | WEST UTTAR PRADESH | ISOL | ISOL | SCT | ISOL | ISOL | ISOL | ISOL |
| 12 | UTTARAKHAND | ISOL | ISOL | WS* | WS | FWS | ISOL | SCT |
| 13 | HARYANA CHANDIGARH & DELHI | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 14 | PUNJAB | ISOL | ISOL | ISOL | SCT | SCT | ISOL | ISOL |
| 15 | HIMACHAL PRADESH | ISOL | ISOL | WS* | FWS | SCT | ISOL | SCT |
| 16 | JAMMU & KASHMIR | ISOL | ISOL | SCT | WS | FWS | SCT | ISOL |
| 17 | WEST RAJASTHAN | WS** | FWS** | SCT | ISOL | ISOL | ISOL | ISOL |
| 18 | EAST RAJASTHAN | FWS* | ISOL | ISOL | ISOL | ISOL | ISOL | SCT |
| 19 | WEST MADHYA PRADESH | SCT | ISOL | ISOL | ISOL | ISOL | FWS* | FWS* |
| 20 | EAST MADHYA PRADESH | ISOL | DRY | ISOL | ISOL | WS* | WS* | SCT |
| 21 | GUJARAT REGION D.D. & N.H. | FWS | ISOL | ISOL | ISOL | ISOL | ISOL | ISOL |
| 22 | SAURASTRA KUTCH & DIU | ISOL | ISOL | ISOL | ISOL | ISOL | DRY | DRY |
| 23 | KONKAN & GOA | WS | WS | WS | FWS | FWS | FWS | WS |
| 24 | MADHYA MAHARASHTRA | SCT | ISOL | SCT | ISOL | ISOL | ISOL | FWS* |
| 25 | MARATHAWADA | ISOL | DRY | ISOL | ISOL | ISOL | ISOL | WS** |
| 26 | VIDARBHA | ISOL | ISOL | ISOL | ISOL | ISOL | WS* | WS** |
| 27 | CHHATTISGARH | ISOL | ISOL | ISOL | SCT | FWS* | WS* | SCT |
| 28 | COASTAL ANDHRA PRADESH | DRY | ISOL | ISOL | SCT | ISOL | SCT | ISOL |
| 29 | TELANGANA | ISOL | ISOL | ISOL | ISOL | ISOL | SCT | ISOL |
| 30 | RAYALASEEMA | DRY | ISOL | ISOL | SCT | ISOL | SCT | ISOL |
| 31 | TAMILNADU & PUDUCHERRY | ISOL | ISOL | ISOL | SCT | ISOL | SCT | ISOL |
| 32 | COASTAL KARNATAKA | SCT | WS | WS | WS | WS | WS | WS |
| 33 | NORTH INTERIOR KARNATAKA | ISOL | ISOL | FWS | SCT | ISOL | ISOL | ISOL |
| 34 | SOUTH INTERIOR KARNATAKA | ISOL | ISOL | SCT | FWS | ISOL | SCT | FWS |
| 35 | KERALA | ISOL | ISOL | ISOL | ISOL | FWS | WS | WS |
| 36 | LAKSHADWEEP | DRY | DRY | ISOL | DRY | ISOL | SCT | WS |

LEGENDS:

| | | | |
|------------|---|-------------|---|
| WS | WIDE SPREAD / MOST PLACES (More than 75%) | FWS | FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%) |
| SCT | SCATTERED / FEW PLACES (26% to 50%) | ISOL | ISOLATED (Less than 25%) |
| DRY | DRY (Nil Rainfall) | | |
| + | 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.) |

2. Reservoir Status (For the week ending on 06.08.2015)

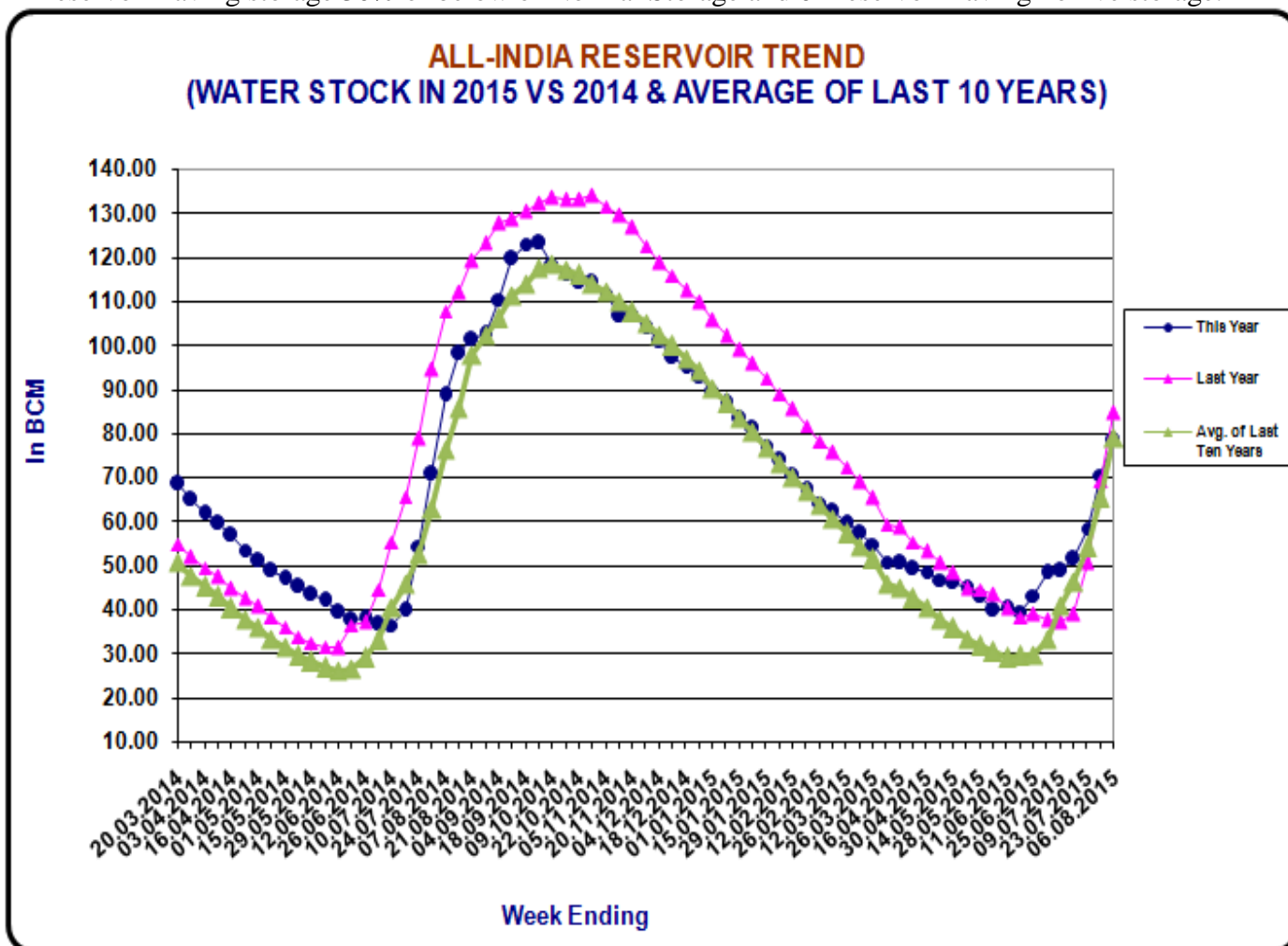
- **The Central Water Commission** monitors the live storage of **91** important/major reservoirs, having capacity at Full Reservoir Level (FRL) of **157.80** billion cubic meters (BCM), which is about 74% of total reservoir capacity in the country.
- Water stock in 91 major reservoirs increased to 78.37 BCM from the previous week's level of 71.80 BCM. Current storage is higher than the last year's position of 84.72 BCM and more than the average of last 10 year's storage of 79.04 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 | 50 | 93 | 99 |
| Last Week | 46 | 104 | 110 |
| The percentage to live capacity at FRL was 54% on 06/08/2014, 64% on 06/08/2013, 30% on 02/08/2012 and 49% on 04/08/2011. | | | |
| * Live storage as % to Full Reservoir Level (FRL) of 157.80 Billion Cub. Mts.(BCM) | | | |

Source: CWC

There were 56 reservoirs having storage more than 80%, 19 reservoirs having storage between 50% to 80% of Normal Storage, 08 reservoir having storage between 30% to 50% of Normal Storage and 08 reservoir having storage 30% or below of Normal Storage and 02 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 Kharif 2015 (As on 06.08.2015)

(in '000 Tonne)

| Availability / Sale / Closing Stock | Urea | DAP | MOP | Complex | SSP |
|-------------------------------------|-------|------|------|---------|------|
| Opening Stock as on 01.04.2015 | 130 | 224 | 289 | 407 | 256 |
| Requirement for Kharif, 2015 | 15490 | 5093 | 1831 | 3386 | 3311 |
| Requirement upto August, 2015 | 2776 | 782 | 308 | 952 | 501 |
| Availability upto 06.08.2015 | 10432 | 3844 | 1094 | 3444 | 1698 |
| Sales upto 06.08.2015 | 10058 | 3019 | 685 | 2589 | 1299 |
| Closing Stock as 06.08.2015 | 374 | 825 | 409 | 855 | 399 |

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

4. Pest & Diseases:

- Incidence of Citrus butterfly on Orange crop was reported in Trace to Moderate intensity village Loni, Block Arni of Yavatmal district of Maharashtra state. The crop was in 3 to 18 years old stage. The advisory to manage the infestation of this pest has been issued by the CIPMC, Nagpur.
- Incidence of Hairy caterpillar and Semi looper on Soybean crop in Banswara district of South Rajasthan in Low to Moderate intensity and Hairy caterpillar on Soybean crop in Mehsana, Patan, Sabarkantha & Banaskantha districts of Gujarat in Low intensity was recorded. The crop was in vegetative stage. The incharge of CIPMC, Sriganganagar was instructed to keep close monitoring of further spread of this pest.
- Incidence of Mites on Coconut crop at vegetative to fruiting stage was reported in Trace to Moderate intensity in Puri District in Bhubaneswar, Odisha State. CIPMC stations at Bhubaneswar and state Government of Odisha were advised to take intensive monitoring and survey to prevent the spread of this pest in other fields. If situation warrants, recommended pesticides approved by CIB&RC may be suggested for control of this pest.
- The special survey conducted by CIPMC Srinagar, The incidence of *Alternaria* leaf blight on Apple orchid was reported in trace to low intensity in Zainapura, Hyatpura and Arigam area of Shopian, Budgam and Pulwama districts of Kashmir. The crop was at Fruiting stage. The directorate instructed incharge of CIPMC, Kashmir that monitoring of mites and this disease may be intensified to prevent further spread of this disease.
- Incidence of pink bollworm on Bt cotton crop was recorded in low intensity in Mithapur, Chalala, Dharangad and Dhari villages of Amreli and Karjan village of Vadodra, Junagarh and Jamnagar districts of Gujarat state. Since the Bt cotton i.e., Bt gene (Cry1Ac) variety has been recorded ineffective against pink bollworm pest in some part of Gujarat. Hence, the incidence of this pest may further spread in other cotton growing areas in Gujarat. The crop was at vegetative to Flowering stage. The directorate instructed incharge of CIPMC, Baroda that monitoring of this pest may be intensified to prevent further spread of this disease.
- Incidence of Bacterial blight on Pomegranate Orchard was recorded in Severe intensity in few pockets of Nashik, Indapur of Maharashtra state. The Orchard was at fruiting stage.
- Incidence of *pyrilla* pest on sugarcane crop was noticed in Trace to Severe intensity in few pockets of Kawardha, Bodanla and Pandariya of Kabirdham district of Chhattisgarh state. The crop was at Vegetative to stem elongation stage.
- No shortage of Chemical / Bio-pesticides was reported from any State / UT.

5. Crop Situation:

Table: 5.1

| All India Crop Situation - Kharif (2015-16) as on 07.08.2015 | | | | | | | |
|--|-------------------------------------|------------------------|--------------------|------------------------------|----------------|----------------------------|-----------|
| (In lakh hectares) | | | | | | | |
| Crop Name | Normal Area for whole Kharif Season | Normal Area as on date | Area sown reported | | | Absolute Change over (+/-) | |
| | | | This Year 2015 | % of Normal for whole season | Last Year 2014 | Normal as on date | Last Year |
| Rice | 388.34 | 281.31 | 277.89 | 71.6 | 265.90 | -3.4 | 12.0 |
| Jowar | 27.27 | 21.01 | 16.76 | 61.5 | 14.73 | -4.3 | 2.0 |
| Bajra | 84.80 | 64.28 | 63.16 | 74.5 | 52.25 | -1.1 | 10.9 |
| Maize | 72.50 | 68.67 | 70.36 | 97.0 | 66.69 | 1.7 | 3.7 |
| Total Coarse Cereals | 204.41 | 164.93 | 158.62 | 77.6 | 141.43 | -6.3 | 17.2 |
| Total Cereals | 592.75 | 446.24 | 436.51 | 73.6 | 407.33 | -9.7 | 29.2 |
| Tur | 39.28 | 33.14 | 29.82 | 75.9 | 30.24 | -3.3 | -0.4 |
| Urad | 23.78 | 19.76 | 23.56 | 99.1 | 20.19 | 3.8 | 3.4 |
| Moong | 24.46 | 20.66 | 21.24 | 86.8 | 17.71 | 0.6 | 3.5 |
| Kulthi | 2.67 | 0.21 | 0.25 | 9.2 | 0.27 | 0.0 | 0.0 |
| Others | 18.56 | 15.23 | 17.77 | 95.8 | 12.83 | 2.5 | 4.9 |
| Total Pulses | 108.75 | 89.00 | 92.64 | 85.2 | 81.24 | 3.6 | 11.4 |
| Total Foodgrains | 701.50 | 535.24 | 529.15 | 75.4 | 488.57 | -6.1 | 40.6 |
| Groundnut | 44.97 | 36.37 | 31.06 | 69.1 | 32.36 | -5.3 | -1.3 |
| Soyabean | 104.00 | 103.18 | 110.71 | 106.4 | 104.02 | 7.5 | 6.7 |
| Sunflower | 3.39 | 1.57 | 0.65 | 19.2 | 1.35 | -0.9 | -0.7 |
| Sesamum | 18.62 | 11.12 | 12.99 | 69.8 | 11.81 | 1.9 | 1.2 |
| Nigerseed | 3.44 | 0.69 | 0.55 | 16.0 | 0.43 | -0.1 | 0.1 |
| Castorseed | 10.77 | 3.45 | 1.47 | 13.6 | 2.35 | -2.0 | -0.9 |
| Total Oilseeds | 185.19 | 156.38 | 157.43 | 85.00 | 152.31 | 1.1 | 5.1 |
| Cotton | 114.96 | 109.95 | 105.68 | 91.9 | 112.24 | -4.3 | -6.6 |
| Sugarcane | 48.18 | 49.44 | 47.36 | 98.3 | 47.17 | -2.1 | 0.2 |
| Jute & Mesta | 8.77 | 8.41 | 7.79 | 88.9 | 8.11 | -0.6 | -0.3 |
| All- Crops | 1058.59 | 859.41 | 847.40 | 80.0 | 808.40 | -12.0 | 39.0 |

Source: Crops & TMOP Divisions