

**Directorate of Pulses Development,
Government of India
Ministry of Agriculture & Farmers Welfare
Deptt. Agri., Cooperation & Farmers Welfare
Bhopal -462004**

Dated: 23.10.2015

**Sub:-Report on Kharif crop conditions/situation and Rabi prospects - Madhya Pradesh State
(Ref.: Ministry's Letter No. 13-3/2015-CU I dated 14th October, 2015.)**

1. Kharif crop situation

1.1 In the state of M.P. monsoon activated on 14th June, 2015. The total seasonal rainfall received (14.06.2015 to 30.09.2015) was 823.1 mm which is 13% less of the state's normal rainfall of 949.1 mm. As per the data, 5 districts received excess, 23 normal and 23 received deficit rainfall.

1.2 The normal area under kharif crops is 120.82 lakh hectares. Target of 125.92 lakh hectares was proposed for kharif 2015 about 4 % more than normal. Kharif 2015 crops have been adversely affected due to prolonged dry spell of 20 days or more beginning from 3rd Sept., 2015 to 20th Sept., 2015 and last rain received on 23rd Sept., 2015. The deficit in rainfall is more than 30% in eastern and northern part of M.P. Out of 51 districts 23 districts have received less rainfall (more than 20 % deficit in rainfall). These districts include:

Jabalpur, Katni, Balaghat, Seoni, Mandla, Narsinghpur, Sagar, Damoh, Panna, Tikamgarh, Chhatarpur, Rewa, Sidhi, Singroli, Shahdol, Annuppur, Umaria, Morena, Shepurkala, Bhind, Gwalior, Shivpuri and Datia.

1.3 Due to less rainfall, early recession of monsoon and rise in October temperature, there has been substantial loss to kharif crops. It is estimated that Soybean production in the state will be only 38 Lakh MT (39 Lakh MT less than the First Forecast). The soybean productivity in the state is expected to be 6.50 Q/ha. The productivity loss in majority of the districts is more than 50 %. Similarly, Urd production is severely affected. Urd production is expected to be 3.37 Lakh MT (1.38 Lakh MT less than First Forecast). There has been more than 50 % productivity loss in moong. Paddy cultivation in 20.24 Lakh ha sown area is under tremendous moisture stress. The productivity of paddy expected to decline to 20.45 Q/ha (Which is more than 25 % productivity loss). The expected production of paddy is around 41.39 Lakh MT in place of 52.31 Lakh MT as in the First Forecast reported by the State. As the October temperatures are rising, the losses to paddy crop, which would mature in November, are going to be furthermore.

2. Rabi crop situation

The area under Rabi crop in the State in 2013-14 was 110 lakh ha and in 2014-15 was 106 lakh ha. It is estimated that Rabi crop area for 2015-16, targeted at 105.36 lakh ha. is reduced to 101 lakh ha due to severe moisture stress. Crop-wise details are given below.

2.1 Crop-wise details

| Crops | Area (lakh ha) | | |
|----------------------------|----------------|---------------|----------------|
| | Normal | Target | Revised Target |
| Wheat | 40.78 | 58.70 | 55.85 |
| Barley | 0.80 | 0.44 | 0.42 |
| Total Cereals | 41.58 | 59.14 | 56.27 |
| Gram | 26.49 | 28.60 | 29.30 |
| Lentil | 5.29 | 5.30 | 5.02 |
| Peas | 1.97 | 2.62 | 2.65 |
| Total Pulses | 34.32 | 36.98 | 36.97 |
| Rabi Foodgrains | 75.90 | 96.12 | 93.24 |
| Rapeseed/Mustard | 7.02 | 6.79 | 5.77 |
| Linseed | 1.30 | 1.65 | 1.54 |
| Total Rabi Oilseeds | 8.32 | 8.44 | 7.31 |
| Sugarcane | 0.55 | 0.80 | 0.68 |
| Total Rabi Crops | 84.77 | 105.36 | 101.23 |

3. Input- Seeds: Availability status

Sufficient inputs for rabi crops are available in the State, however some shortage of seeds of Pulses & Oilseeds have been reported by the State. The crop wise Target & availability is given below.

Unit : Quantity in Quintals

| Crop | Target | Availability | Shortage |
|-----------------------|---------------|---------------|---------------|
| Wheat | 1562000 | 1741587 | - |
| Barley | 2000 | 1435 | 565 |
| Gram | 400000 | 150513 | 249487 |
| Peas | 30000 | 4268 | 25732 |
| Lentil | 11000 | 2520 | 8480 |
| Total Pulses | 441000 | 157301 | 283699 |
| Mustard | 15000 | 9850 | 5150 |
| Linseeds | 900 | 468 | 432 |
| Total oilseeds | 15900 | 10318 | 5582 |

4. Districts visited by DPD, Bhopal

Out of 23 deficit districts, this Directorate visited 8 districts viz. Katni, Jabalpur, Sagar, Damoh, Shahdol, Anuppur, Bhind and Morena of Madhya Pradesh and remaining other deficit districts discussed over telephone. The brief observations are as below:

4.1 Katni

- As on 16.10.2015 rains received 542.7 mm against the last year rains of the same period of 611.4 mm and normal rainfall of the district is 1124.4 mm.
- About 27% less coverage of kharif target and 21% yield reduced due to deficit rains.
- Major kharif crops of the districts are paddy, arhar & til.
- Rainfed paddy totally failed due to long dry spell as last rains received by the district on 17th September, 2015.
- Two village Chapra and Uttampur, Block- Bahoriband of Katni district visited on 19th Oct. 2015. The paddy crop condition is normal in Chapra village as irrigated through tube-well. However, rainfed paddy crop in Uttampur village are totally failure due to non availability of irrigation.

- During the visit interacted with farmers and drought affected survey team of and their members in Uttampur village. They informed team verified 600 khasra of the area only crop found on 6 field and others field are cultivated due to failure of paddy crop.
- Kharif standing crop paddy at milking to dough stage, Arhar at flowering to fruiting stage, no field observed sowing of rabi crops due to moisture stress and high temperature as ranging from 32- 35⁰C in the visited area.
- Rabi target reduced from 1.58 lakh ha to 1.02 lakh ha due to deficit rains in the district.
- More emphasis being given to less water requirement crop like Gram, Lentil, Mustard and Linseed is suggested in meeting with Collector of the district.

4.2 Jabalpur

- As on 16.10.2015 rains received 766.3 mm against the last year rain 850.9 mm in the same period and normal rains of the district 1312.0 mm.
- 100 % target of kharif area achieved by the district.
- Soybean crop damaged due to dry spell, YMV (Yellow Mosaic Virus) and insect –pest, about 2 to 3 quintals yield obtained in crop cutting data.
- Standing paddy crop and Arhar is normal in Jabalpur block however, stunted growth in paddy observed in Umariapatan village of panagar block and also farmer informed that they could not transplanted paddy due to deficit rains.
- Paddy crop at milking to dough stage and Arhar at flowering to pod formation stage.
- Sowing of rabi crop is reported only field pea about 1200 ha however, in visited area some fields observed under gram crop which is at germination to branching stage.
- DDA, informed some wheat area diverted to Gram, Lentil & Mustard crop this year due to less irrigation water availability in water reservoir.
- Input arrangement being done by district authority however, shortage of gram seed reported.
- Sowing of wheat is delayed due to prevailing high temperature ranging from 32- 35⁰C.

4.3 Shahdol

- As on 30.09.2015 rains received 519.5 mm against the last year rain 942.0 mm in the same period and normal rains of the district 994.7 mm.
- 100 % target of kharif area achieved by the district.
- Soybean crop damaged due to dry spell, YMV (Yellow Mosaic Virus).
- About 1 to 1.5 quintals yield obtained in crop cutting data.
- Standing Arhar crop is in normal condition. Stunted growth in paddy observed in some pockets.
- Paddy crop at milking to dough stage and Arhar at flowering to pod formation stage.
- Sowing of rabi crop about (100 ha) is reported under Field pea, Lentil & Niger.
- DDA/Field staff, informed some wheat area diverted to Gram, Lentil & Mustard crop this year due to less irrigation water availability in water reservoir.
- Input arrangement being done by district authority however sowing of wheat crop is delayed due to prevailing high temperature at 35⁰C to 37⁰C.

4.4 Anuppur

- As on 30.09.2015 rains received 635.10 mm against the normal rainfall of the district is 1174.80 mm.
- About 13% less coverage of kharif target and 50 % yield reduced due to deficit rains.

- Major kharif crops of the districts are soybean, maize, paddy, kodo-kutki, pigeonpea.
- Paddy crop severe damaged due to long dry spell as last rains received by the district on 17th September, 2015. However, crop is normal in the field where assured irrigation is available.
- Kharif standing crop paddy at milking to dough stage, Arhar at flowering to pod formation stage, no field observed sowing of rabi crops due to moisture stress and high temperature as above 32⁰C in the visited area.
- Due to deficit rains in the district, more emphasis being given to less water requirement crop like Gram, Lentil, Mustard and Linseed.

4.5 Sagar

- As on 15.09.2015 rains received 633.0 mm against the normal rainfall of the district is 1230.5 mm.
- Soyabean crop affected by YMV after 40-45 DOS due to high temperature & long dry spell.
- Major crop of Kharif are Soyabean, Urd, Paddy, moong & Arhar,
- Arhar crop is in good condition in irrigated areas whereas, rabi crop sowing has not been started to till date.
- Reservoirs are the only source for Irrigation to rabi crop about 45.21% availability reported.
- DDA, informed some wheat area diverted to Gram, Lentil crop this year due to less irrigation water availability in water reservoir.
- DDA informed that, this year pulses crop area increase Gram, Lentil, pea etc.
- Farmers discussed on rabi season preparation, but soil moisture is very low & irrigation water source is in poor condition.
- Field Extension officers & DDA suggested to farmers for intercropping promotion by SMS and other extension technology.

4.6 Damoh

- As on 15.09.2015 rains received 735.0 mm against the normal rainfall of the district is 1246.0 mm.
- Soyabean crop is affected due to long gap in rainfall.
- Arhar crop is Flowering & pod formation stage & in good condition.
- Pre irrigation by sprinkler has been started for sowing of gram crops in some of the parts of district.
- Major kharif crop are soybean, paddy, urd & mung .
- Farmers informed the estimated soybean crop yield obtained 4 to 5 quintals per ha.
- According to DDA instruction to all field extension workers for selection of farmers in rabi demonstration should be based on irrigation facility of availability on demo. plot.

4.7 Morena

- Last rainfall received in the first week of August, 2015.
- As on 30.09.2015 rains received 405.0 mm against the normal rainfall of the district is 706.9 mm.
- 78.32 % irrigated area from Rivers, Tubewells , Wells and other sources. and 21.67 % rainfed area in the district.
- Major Crops of Kharif Season i.e. Bajra, Arhar, Guar, Til Urd and Moong.

- Arhar crop is in flowering to pod formation stage & in good condition in irrigated area.
- Farmers told 15-20 % loss in Bajra, Guar & Til and 50 % loss in rainfed area.
- Urd & Moong crop has been failed due to long dry spell.
- Pre irrigation has been started for sowing of Mustard crops in some parts.

4.8 Bhind

- Rainfall has not received from the third week of August, 2015.
- 53.63 % irrigated area from Rivers, Tubewells, Wells and other sources and 46.37 % rainfed area in the district.
- Major Crops of Kharif Season i.e. Bajra, Til, Paddy, Jowar, Arhar, Guar, Urd and Moong. Mostly Bajra, Til, Urd, Moong, have been harvested.
- 15-20 % loss in Bajra, Paddy & Til in irrigated areas and 50 % loss in rainfed area.
- 80 % loss in Urd & Moong and 75 % loss in Arhar crop.
- Paddy crop is normal condition in irrigated area.

The overall crop situation of kharif crop has been adversely affected in deficit districts. Specially soybean, urd, moong and some area of paddy. The rabi pulse and oilseeds are usually sown on residual moisture. Since, no rainfall received from 23rd September, 2015, the residual moisture is very low and temperature is high the sowing of rabi crops is likely to be affected. Sowing of oilseeds and pulses in some districts is started however, state has not yet started the reporting the area under rabi crops in weekly report. If the temperature remains high in Oct. – Nov. and if there are no winter rains in November, then the Rabi area may fall down further and adversely affect standing Kharif crops.

Dated:23.10.2015

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(Dr. A. K. Tiwari)
Director