

Statement*Details of Projected Demand and Supply of Food
Commodities during Twelfth Plan**(Million Tonnes)*

Crop/Group of Crops	Projected Demand	Projected Supply	Actual Production				
	Terminal Year Twelfth Plan 2016-17	Terminal Year Twelfth Plan 2016-17	2011-12	2012-13	2013-14	2014-15	2015-16*
Rice	110	198-106	105.30	105.24	106.65	105.48	103.61
Wheat	89	93-104	94.88	93.51	95.85	86.53	93.82
Coarse Cereals	36	42-48	42.01	40.04	43.29	42.86	38.40
Total Cereals	235	240-251	242.20	238.79	235.79	234.87	235.83
Pulses	22	18-21	17.09	18.34	19.25	17.15	17.33
Foodgrains	257	258-272	259.29	257.13	265.04	252.02	253.16
Oilseeds	59	33-41	29.80	30.94	32.74	27.51	26.34
Sugarcane	279	365-411	361.04	341.2	352.14	362.33	346.38
Vegetables	161	NA	156.33	162.19	162.90	169.48	168.51**
Fruits	97	NA	76.42	81.29	88.97	86.60	89.02**

*2nd Advance Estimates

** 1st Estimates

Ability of Bt. Cotton seeds to fight with 'rose insect' or 'pink insect'

993. SHRI PALVAI GOVARDHAN REDDY: Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

(a) whether it has come to the notice of his Ministry that the potential and ability of Bt. Cotton seeds to fight with 'rose insect' or 'pink insect' has been coming down;

(b) whether it is also a fact that there was focus on the above issue in the meeting recently held in the National Academy of Agricultural Research Management (NAARM); and

(c) if so, the efforts being made by the Ministry to address this problem?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE (DR. SANJEEV KUMAR BALYAN): (a) ICAR-Central Institute on Cotton Research, Nagpur (CICR) undertakes regular insect resistance monitoring programme on cotton across the country. Based on its survey of during 2014-15 and 2015-16, break down of Bollgard II resistance in cotton against pink bollworm in some parts of Gujarat, Telangana and Andhra Pradesh has been reported.

(b) A meeting was held at National Academy of Agricultural Research Management (NAARM) on 13th December, 2015 coordinated by Acharya NG Ranga Agricultural University, Hyderabad and the strategy to manage the pink bollworm was discussed.

(c) Following efforts are being made:

1. ICAR-CICR advised the use of the parasitoid *Trichogramma bactriae* in bt cotton fields for pink bollworm management.
2. Recommended planting of Desi cotton/conventional non-bt *G. hirsutum* cotton and late planted bhendi as refugia crops to counter build up of resistance.
3. Timely sowing of short duration/ early maturing hybrids for escape of pink bollworm.
4. Avoiding use of synthetic pyrethroids.
5. Termination of crop by December/January.
6. Weekly advisory issued on ICAR-CICR website at http://www.cicr.org.in/weekly_advisory.htm. Also Instructions are being offered weekly to the cotton growing farmers.

Indebtedness among cotton growing farmers

994. SHRI AVINASH PANDE: Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

(a) whether it is a fact that promotion of cultivation of Bt. Cotton has led to an increase in indebtedness among the cotton growing farmers, especially those of the Vidarbha region in Maharashtra;

(b) if not, the reasons and factors that support this conclusion; and

(c) if so, the measures being taken by Government to study, prevent and compensate the loss occasioned to such farmers?