

Original Research Article

<https://doi.org/10.20546/ijcmas.2019.803.256>

## Problems of Cotton Farmers in Haryana

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### ABSTRACT

Cotton the “white gold” is premier industrial crop of major cotton growing countries like China, India, United States of America, Pakistan, Brazil, Uzbekistan, Egypt, Argentina, Australia and Turkey which accounts for nearly 85 per cent of the total global production. Apart from the increasing production of synthetic fibre, cotton has maintained its reputation as “king of the fibre crops”. It is world’s most important textile fibre and oil seed crop. The present study was conducted in Sirsa and Fatehabad district of Haryana state, purposively in the year 2015-16. Two blocks viz. Nathusari Chopta and Sirsa from Sirsa district and Bhuna and Bhattukalan from Fatehabad district were selected purposively. From each block one village was selected randomly and fifty farm families from each village were selected, thus making 200 families and total 400 respondents (husband and wife from each family). Interview schedule was used and data were collected personally, frequency and percentage were used to interpretation and analysis. Data regarding problems faced by respondents in cotton cultivation were climatic, seeds, fertilizer, irrigation, plant protection, shortage of labour and marketing. From climatic problems, unexpected rain (98.0%) followed by outbreak of pests/diseases (94.0%), regarding problem of seed majority of respondents had faced the problem of adulterated seed (93.0%) and high cost of seed (83.5%), while non-availability of seeds reported by 30.0 per cent of the respondents. High cost of fertilizer as their major problem (99.0%), high cost of pesticides and chemicals (99.0%), adulteration (82.0%), high cost of labour wages (77.5%) majority had reported very less MSP (98.0%) followed by low rate of return (96.0%) respectively.

#### Keywords

Cotton cultivation,  
Farmer’s problem,  
Seeds, Haryana

#### Article Info

Accepted:  
18 February 2019  
Available Online:  
10 March 2019

### Introduction

Cotton the “white gold” is premier industrial crop of major cotton growing countries like China, India, United States of America, Pakistan, Brazil, Uzbekistan, Egypt, Argentina, Australia and Turkey which accounts for nearly 85 per cent of the total global production. Apart from the increasing

production of synthetic fibre, cotton has maintained its reputation as “king of the fibre crops” (Shiv Kumar, 2007). It is world’s most important textile fibre and oil seed crop. The share of Haryana in area and production of cotton in India was 6.14 lakh hectares and 24.00 lakh bales respectively during the year 2010-13. India also exported 4.58 lakh tones of cotton worth Rs.2866 crore in 2011-12

(Anonymous, 2012). In 2011-12, it was cultivated on about 12.19 million hectares producing 35.3 million bales. In last ten years, cotton acreage has been growing at an average annual rate of around 3.00 per cent. However, the average cotton yield in India is only 0.49 tons per hectares compared to world average of 0.73 tons per hectare (International Cotton Advisory Committee, 2010). In the subsequent year the cotton area and production shrunken to 11.77 million hectare and 34 million bales respectively (Anonymous, 2013). The low yields of cotton in India are attributed to inadequate input usage, rain fed cultivation, untimely operations on field and inefficient crop production technologies (Majumdar, 2012). The low yields persistent in Indian cotton production are also attributed to the lack of disease resistant and high yielding varieties. Another factor affecting the yield is rainfall pattern in India. About 65.00 per cent of the cotton acreage in India is dependent on rain; the annual variation in monsoon rainfall plays an important role in production and yield for any particular year (Aggarwal, *et al.*, 2008). Thus, keeping in view the low production and productivity of cotton crop, the study was carried out with the objective of problems faced by cotton farmers in Haryana.

### **Materials and Methods**

Present study was conducted in Sirsa and Fatehabad district of Haryana state, purposively in the year 2015-16. Two blocks viz. Nathusari Chopta and Sirsa from Sirsa district and Bhuna and Bhattukalan from Fatehabad district were selected purposively. From each block one village was selected randomly and fifty farm families from each village were selected, thus making 200 families and total 400. Interview schedule was used and data were collected personally, frequency and percentage were used to interpretation and analysis.

### **Results and Discussion**

#### **Cotton varieties and their production potential**

Data presented in Table 1 revealed the information regarding cotton varieties grown and the production potential of the varieties as perceived by respondents. Cent percent respondents had grown *Bt* cotton, while 12.5 per cent had also grown *Desi* cotton. Regarding production potential, majority of the respondents (72.50%) had perceived yield 7.5 to 11 quintal/acres, followed by 19.5 per cent had perceived 4 to 7 quintal/acre yield and 8.0 per cent had perceived 11.5 to 15 quintal/acre yield for *Bt* cotton. The production potential for *Desi* cotton 11.0 per cent had perceived 3.5 t 5 quintal/acre yield and only 1.5 per cent had perceived 5.5 t 8 quintal/acre yield.

Problems of farmers were studied in terms of climatic, seeds, fertilizer, irrigation, plant protection, shortage of labour and marketing in cotton cultivation and presented in Table 2 as follows; Climatic problems as perceived by respondents, majority had reported unexpected rain (98.0%) followed by outbreak of pests/diseases (94.0%). Regarding problem of seed majority of respondents had faced the problem of adulterated seed (93.0%) and high cost of seed (83.5%), while non-availability of seeds reported by 30.0 per cent of the respondents. Table 2 further elucidated information regarding fertilizer majority of the respondents had reported, high cost of fertilizer as their major problem (99.0%) followed by lack of knowledge about correct dose (31.0%), while 8.5 per cent had reported non-availability of fertilizer as their problem. Regarding problem of irrigation, water shortage in canal was reported by 62.5 per cent of the respondents. Data presented in Table 2 pinpointed that high cost of pesticides and chemicals (99.0%), adulteration (82.0%),

lack of knowledge about correct dose (54.5%) and non-availability of pesticides (38.0%) were the problems of plant protection as perceived by respondents. Further it was evident from the Table 2 that high cost of labour wages (77.5%) and shortage of labour

(55.5%) were also the problem in cotton cultivation. Problems faced by respondents regarding marketing of cotton majority had reported very less MSP (98.0%) followed by low rate of return (96.0%) and heavy price fluctuation (32.5%) respectively.

**Table.1** Varieties and their production potential of cotton perceived by respondents n=400

S.N.	Varieties	f	(%)
1.	<i>Bt</i>	400	100.00
	Yield/acre (in quintals)		
	4 to 7	78	19.50
	7.5 to 11	290	72.50
	11.5 to 15	32	8.00
2.	<i>Desi</i>	50	12.50
	Yield/acre (in quintals)		
	3.5 to 5	44	11.00
	5.5 to 8	6	1.50

**Table.2** Problems in cotton cultivation n=400

S.No.	Topic	Constraints	f (%)*
1.	<b>Climatic</b>	Unexpected rain	392(98.0)
		Outbreak of pests /diseases	376 (94.0)
2.	<b>Seeds</b>	High cost of seed	334 (83.5)
		Non-availability of seeds	120 (30.0)
		Adulterated seeds	372 (93.0)
3.	<b>Fertilizer</b>	Non-availability of fertilizer	34 (8.50)
		High cost of fertilizer	396 (99.0)
		Lack of knowledge about correct dose	124 (31.0)
4.	<b>Irrigation</b>	Water shortages in canal	250 (62.5)
5.	<b>Plant protection</b>	High cost of pesticide/chemicals	396 (99.0)
		Lack of knowledge about correct dose	218 (54.5)
		Adulteration	328(82.0)
		Non availability	152(38.0)
6.	<b>Labourer</b>	Shortage of labour	222 (55.5)
		High cost /wages	310 (77.5)
7.	<b>Marketing</b>	Heavy price fluctuation	130 (32.5)
		Very less Minimum Support Price (MSP)	392 (98.0)
		Low rate of return	384 (96.0)

\*Multiple responses

Findings were in line with those of Mondal and Sinha (2015) that the problems faced by the cotton growers were endemic to pest and

diseases, soil problems, effect of insecticides, drought and late heavy rainfall, labour problems, black marketing and private traders.

Similar findings were reported by Maraddi *et al.*, (2004), Reddy *et al.*, (2010), Kumar *et al.*, (2012) and Singh *et al.*, (2013).

In conclusion, cotton is world's most important textile fibre and oil seed crop. For Indian farmer it is important cash crop, which is input and labour intensive. In the cotton crop farmers dependency increases upon the seed companies due to the reason of growing *Bt* cotton. For every next crop farmers have to purchase seeds from the large companies, which ultimately reduces their profit margin. Our farmers are facing various constraints with regard to climatic conditions such as unexpected rain, outbreak of pest/diseases, seed related problems including adulterated seeds, high cost of seeds and non-availability of seeds. High cost of fertilizers, pesticides, and high cost of labour wages and less MSP and low rate of returns were also reported by the farmers. In order to sustain the optimum production and the productivity of soil, scientific and indigenous methods should be synergies together and policy intervention is utmost important for the farmers well being.

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## How to cite this article:

Reeta Devi Yadav and Rita Goel. 2019. Problems of Cotton Farmers in Haryana. *Int.J.Curr.Microbiol.App.Sci*. 8(03): 2139-2142. doi: <https://doi.org/10.20546/ijcmas.2019.803.256>