

CONSTRAINTS FACED BY VEGETABLE GROWERS IN AMARAVATI DIVISION OF MAHARASHTRA

ABSTRACT

Vegetable cultivation involves intensive cultural operations since sowing to marketing, providing regular employment opportunities to unemployed youth and farm family. Vegetable production is now commercialized, but still traditional farming is done in far flung areas. Besides, they are not as well served by the extension system as the farmers growing food grains. Moreover, most of the vegetable growers in this region are small and marginal farmers, and they have their peculiar concerns and problems which need to be studied urgently and earnest. The present study was carried out in Akola and Amravati districts of Vidarbha region of Maharashtra state during the year 2019 with a sample size of 120 respondents to define the constraints faced by vegetable growers in Amravati division of Maharashtra. The major constraints faced by the vegetable growers were price fluctuation, electricity, fertigation, exploitation by middle men and lack of market knowledge.

KEY WORDS: Vegetables, Vegetable growers, Amravati Division, Constraints

1. INTRODUCTION

India is principally a vegetarian country and second largest producer of vegetables, next to China. Vegetables occupy 38.90% of area and 61.00% of total horticultural area and production, respectively. Vegetables shares about 2.00% of cropped area. India shares about 14.00% of the total vegetable production of the world. Maharashtra is the leading producer of onions and fresh onion contributes 25.00% among horticultural crops export. But the Post-harvest handling losses in vegetables is high up to 20-30%. (Horticultural Statistics at a Glance, 2018).

In era of shrinking land holding and more pressure per unit area of land, cultivation of fruit and vegetable has emerged as profitable venture. Cultivation of vegetable not only provide nutritional security; it also provides a substantial employment to rural people as well as open

the door for export. Thus, plays an active role in increasing the livelihood condition of poor rural folks. Vegetables are one of the cheapest sources of natural protective food, contributing carbohydrates, vitamins and mineral in human diet (Choudhury, 2006). Vegetable consumption provides taste, increase appetite, palatability and provides necessary fibre, essential for proper functioning of digestive system (Tiwari *et.al.*,2018).

Vegetable cultivation has a number of added advantages like vegetables are of shorter duration than cereal crops so, more crops can be taken per unit area of land in a year, vegetable cultivation is helpful in diversification of agriculture, providing ample opportunities to conserve soil and moisture depletion. Most of the vegetable crops, if properly grown can give yield which is 5-10 times more than any cereal crop. A farmer can fetch more prices for his produce in comparison to cereal crops from the small unit area of land, he can take more produce than other crops. Vegetable cultivation involves intensive cultural operations since sowing to marketing, providing regular employment opportunities to unemployed youth and farm family. At the same time perishable nature of vegetables demand skill and comprehensive planning for storage, movement and distribution as well as processing of vegetable produce.

Now-a-days, people are aware regarding their health proposition, as a result they want to add more and more fruit and vegetable in their food basket. Vegetable production is now commercialized, but still traditional farming is done in far flung areas. Besides, they are not as well served by the extension system as the farmers growing food grains. Moreover, most of the vegetable growers in this region are small and marginal farmers, and they have their peculiar concerns and problems which need to be studied urgently and earnest. The purpose of the study was to find the Constraints faced by vegetable growers in Amaravati division of Maharashtra.

2. MATERIALS AND METHODS

2.1 Research Design

An exploratory design of social research was used for present study.

2.2 Selection of Districts

Maharashtra state comprises of six revenue divisions viz., Mumbai, Pune, Nashik, Aurangabad, Nagpur and Amravati. The Nagpur and Amravati together popularly known as Vidarbha region. Vidarbha region comprises of eleven districts namely Buldana, Akola, Amravati, Yavatmal, Wardha, Nagpur, Bhandara, Chandrapur, Gadchiroli, Washim

and Gondia. Out of which Amaravati division i.e. Akola and Amravati districts from Vidarbha region were selected for the present study.

2.3 Selection of Talukas

Two talukas namely, Patur taluka of Akola district and Achalpur taluka of Amravati district were purposively selected for the study as they were having high area under vegetable cultivation than other talukas of these selected districts.

2.4 Selection of Villages

In Patur and Achalpur talukas, 5 villages from each taluka were selected purposively based on high area under vegetable cultivation. Comprising total sample of 10 villages for the present study.

2.5 Selection of Respondents

A list of vegetable growers having minimum area of 0.20 ha under vegetable cultivation was obtained from Taluka Agriculture Office of selected talukas. Thus, from selected two talukas and selected 10 villages, 120 respondents were selected i.e. 12 respondents from each village were selected randomly and they were considered as sample respondents in the present study.

The basic instrument used for study was interview schedule. The data was collected by personal interview, so as to get valid and complete responses. Keeping the objective of the study in view an interview schedule was developed, pre-tested and was personally administered. In this study, a personal interview schedule having 23 statements, regarding various constraints faced by the respondents were asked. The responses observed from different respondents were divided into two categories i.e., yes or no. The statement having “NO” response was given zero mark and “YES” statement was given one mark. So, the respondent can get a maximum of 23 marks and a minimum of zero marks.

3. RESULTS AND DISCUSSION

A perusal of table 1, revealed that 32.50% of the respondents faced problem about initial investment followed by, problem with working capital 26.67%. These were the constraints faced by respondents regarding the finance. These results were in line with findings of Kumar (2008), Mandeep Sharma(2014), Jyothi (2017) and Tiwari *et.al.*, (2018) Among the resource constraints, 70.83% Of respondents had electricity problem, followed by, problem with chemicals and fertilizers 45.00% had problem with manures 35.00% and plants/seedlings 24.00%. In case of plant management constraints, more than half 57.50% of

respondents had problem about knowledge on proper dosage of weedicide/insecticide/fungicide, followed by difficulty in diagnosis of disease and insect pests 40.00%. These are in accordance with the findings of Dhillon and Kumar (2004).

Table 1: Distribution of the vegetable growers according to constraints faced bythem

Sl.No	Particulars	Respondents (n=120)		
		Frequency(%)	Component wise Rank	Over all rank
1	Financial constraints			
	a) Initial investment	39(32.50)	I	XVIII
	b) Working capital	32(26.67)	II	XX
2	Resource constraints			
	a) Plants /Seedlings	24(20.00)	IV	XXIII
	b) Manures	42(35.00)	III	XV
	c) Chemicals and fertilizers	54(45.00)	II	XI
	d) Electricity (for irrigation)	85(70.83)	I	II
3	Plant management constraints			
	a) Knowledge on proper dose of weedicide/ insecticide	69(57.50)	I	VI
	b) Difficulty in diagnosis of disease and insect pests	48(40.00)	II	XIII
4	Labour constraints			
	a) High cost of labour	57(47.50)	I	IX
	b) Lack of skilled labour	41(34.17)	III	XVI
	c) Non- availability of labour	55(45.83)	II	X
5	Technical constraints			
	a) Improved varieties	45(37.50)	II	XIV
	b) Fertigation	81(67.50)	I	III
	c) Modern production techniques	37(30.84)	IV	XIX
	d) Soil testing facility	40(33.34)	III	XVII
6	Marketing constraints			
	a) Transportation cost	28(23.34)	IV	XXI

	b) Price fluctuation	97(80.83)	I	I
	c)Lack of market knowledge	74(61.67)	III	V
	d)Exploitationby middlemen	78(65.00)	II	IV
7	Storage constraints			
	a) Poor shelf life	51(42.50)	III	XII
	b) Lack of cold storages	61(50.83)	II	VIII
	c) Lack of processing units	68(56.67)	I	VII
8	Others			
	a) Wild animals	27(22.50)	-	XXII

Figures in parentheses indicate percentage

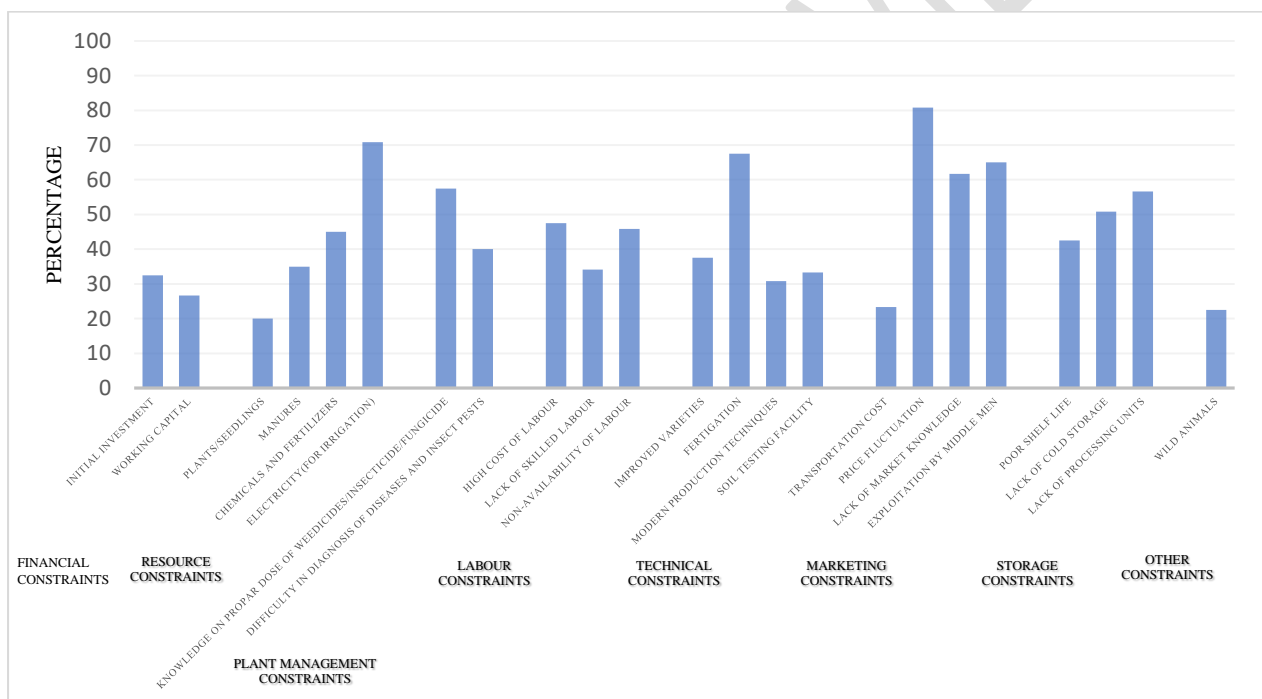


Fig 1. Distribution of respondents according to the constraints

Regarding labour constraints, nearly half **47.50%** of the respondents had problem about high-cost of labour, followed by problem on non-availability of labour **45.83%** and lack of skilled labour **34.17%**. These findings were in line with Jyoti (2017) Among the technical constraints, nearly two-third **67.50%** had problem about fertigation, followed by about improved varieties **37.50%**, whereas, **33.34%** and **30.84%** of respondents had problem about soil testing facility and modern production techniques, respectively. The similar result was also reported by **Tiwari et.al., (2018)**. In case of marketing constraints, majority **80.83%**

of the respondents had problem regarding price fluctuation, followed by exploitation by middle men 65.00%, lack of market knowledge 61.67% and transportation cost 23.34%. Regarding storage constraints, 56.67% of the respondents had problem about lack of processing units, followed by about lack of cold storages 50.83%, only 42.50% of respondents had problem about poor shelf life. These findings are in conformity with Ghandi *et.al.*, (2008) and Tiwari *et.al.*, (2018). Other than this 22.50% of respondents faced constraints regarding wild animals.

4. CONCLUSION

The government should set up efficient marketing information regarding prices of vegetables and input availability. Price fluctuation should be minimized through fixing of minimum support prices. Provision of cold storage facilities to the farmers at the village level and adequate refrigerated transport facilities for the smooth movement of vegetables from the places of production to the various consumption centers are some of the means suggested to improve the efficiency of production and marketing of vegetables Kumar (2008).

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