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Extent of Adoption of Recommended Practices in Respect of Hybird Sorghum Cultivation in the Selected Taluk of Mysore District*

By

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ABSTRACT

This study was conducted in Chamarajanagar taluk of Mysore district to find out the extent of adoption of recommended practices in respect of hybrid sorghum cultivation. The results revealed that majority of the farmers did not adopt all the recommended practices. Lack of knowledge and finance were the main reasons for non-adoption and or partial adoption of the recommended practices.

INTRODUCTION

The high yielding varieties have brought revolution in Indian agriculture and the farmers' response towards high yielding varieties has been found quite encouraging. The level of adoption of package of practices of high yielding varieties however varies considerably among the farmers. An attempt has been made to obtain as realistic a picture as possible about the situations prevailed in this district of Mysore with respect to the cultivation of hybrid sorghum.

MATERIALS AND MATHODS

The study was conducted in chamarajanagar taluk of Mysore district where hybrid sorghum was cultivated more extensively. Stratified two stage sampling method was adopted for sampling purpose, village level workers' circle within the taluk as strata, the villages as primary and the holdings as secondary units formed the basis for sampling. A list of all the villages in each V. L. W's circle wherein at least five farmers who had harvested a minimum of two crops of hybrid sorghum was prepared with the assistance of extension officer and gramasevaks of the taluk. A total of 20 villages, one from each V. L. W's circle was selected by random method. Five farmers were selected randomly in each village which formed 100 respondents in total. The respondents were interviewed with the help of a pretested schedule. The extent of adoption is measured in terms of adoption quotient.

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RESULTS AND DISCUSSION

Categories of adopters:

Only 17 per cent of the farmers were high adopters compared to medium (62 per cent) and low adopters (21 per cent). It shows that majority of the farmers did not adopt all the practices recommended for hybrid sorghum cultivation. This indicates that more efforts on the part of the extension worker are essential to encourage and help low and medium adopters to adopt the recommended practices to bring them on par with high adopters which would help in increasing production (Table 1).

Table 1. Categories of adopters based on their adoption quotient

Range of adoption quotient	Adopters No. of categories farmers		Percent- age of farmers	
10—40%	Low adopters	21	de10215W	
50—80%	Medium adopter	s 62	62	
90—100%	High adopters	17	17	
Total	Five farm	100	100	

Number of farmers adopting recommended practices:

Practices like application of farm yard manure, use of certified seeds, proper seed rate, intercultivation and weeding were adopted by all farmers (Table 2). Nearly 50 per cent of the farmers adopted proper spacing, used

Table 2. Number of farmers adopting recommended practices

Carlo	Respondents		
Practices	No.	Per cent	
· I · I · I · I · I · I · I · I · I · I		1	
Deep ploughing with iron plough	45	45	
Application of farm yard manure	100	100	
Use of certified seed	100	100	
Proper seed rate	100	100	
Proper spacing one to achieve be	45	45	
Fertilization-both basal+top			
dressing	35	35	
Basal dose only	13	13	
Top dressing only	12	12	
Intercultivation and weeding	96	96	
Removal of side tillers	- 1	1	
Plant protection measures	58	58	

iron plough to plough the land and took plant protection measures. Only one per cent of the farmers adopted the practice-removal of side tillers. Sixty per cent of the farmers used fertiliser at different levels. Since application of recommended dose of fertilizers plays an important role in increasing production, the practice was studied in detail by calculating adoption index seperately.

Number of farmers adopting fertilizer application:

It is seen that 40 per cent of the farmers applied recommended dose of fertilizers. The remaining 51 per cent of the farmers applied fertilizer at diffe-

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rent levels but not as recommended.
This was revealed by their low adoption index in that practice (Table 3).

In the present study none of the farmers followed the recommended schedule of plant protection measures. Plant protection measure was followed

by 58 per cent of the farmers once or more than once but never as per recomended schedule.

The reasons expressed by the respondents for the non-adoption and partial adoption of the practices are briefly discussed in the fallowing paragraphs.

Table 3. Number of farmers adopting fertilizer application not application not be a second of the se

Fertilizers of 60 mm		Respondents		Adoption	
		No.	Per cent	Removal of side tillers	
No fertilizer		40	40	Plant protection measures	
Recommended dose of NPK		9	9	100	
Recommended dose of N+different lev			5	55.3	
Top dressing recommended dose		15	15	28.9	
Recommended dose of P+different level	01 14	91 25		high cost of the iron for not using 0.78 sam	
Recommended dose of K+different level	els of N	of ed	nt of t	Fifty six per ce	
Different levels of fertilizers apart from	the				
above said categories of the end		18 100	180	seu 32.5 to attende	
Deta bebreammones to moligatia lais Tota	armers to	00	d 100 an	Table 5.—Reason	

Hundred per cent of the farmers stated lack of knowledge as the reason for not adopting the practices like proper spacing and removal of side tillers. Eighty per cent of the farmers who did not apply fertilizer stated lack of finance to purchase as the reason for non-adoption. Majority of the non-adopters (79 per cent) of plant protection measures

stated that there was no pest and disease attack, hence not adopted the practice. This could be attributed to the lack of adequate information about the benefit of plant protection measures. Fiftyeight per cent of the non-adopters expressed their doubt about the superiority of iron plough over the local and 42 per cent complaint about the

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Table 4. Reasons for non-adoption of recommended practices

	LU DUIL	THE RESIDENCE OF THE PARTY OF T		THE REAL PROPERTY AND ADDRESS OF THE PERSON	
Practices not adopted	No. of	se (Table 3). mended	No. of farmers cited		
	farmers	Reasons cited by the farmers	No.	Per cent	
-tea bas inoltacos-ac	m eft x	the recommended: pondents t			
Deep ploughing with iron plough	55	a) Not proved superior over the local	32	to elub 58	
	Tight of	b) Cost of the implement is high	23	42	
Proper spacing	55	Lack of knowledge	55	. 100	
Fertilizer application	40	a) Organic manures better to the crop	lds7 4 :	10	
The tree productions		b) Organic manures available in plenty	4	10	
		c) Lack of finance to purchase	32	80	
Removal of side tillers	99	Lack of knowledge	99	100	
Plant protection measures	42	a) No pest and disease attack	33	79	
		b) Non-availability of finance and spraying equipments	prem 9 use	21	

high cost of the iron plough as reasons for not using the same.

Fifty six per cent of the farmers were not fully convinced about the benefits of the use of recommended

dose of fertilizer. Lack of finance was also expressed by 29 per cent of the farmers as reason, for partial adoption. Majority of the partial adopters (31 per cent) stated that they had not adopted the practice as recommended because

Table 5. Reasons cited by the farmers for partial adoption of recommended practices

Durakina	No. of	Description at the formers you partial adoption		Farmers cited		
Practices	Reasons cited by the farmers ror partial adoption		No. Per cen			
Fertilizer application	epned 55	a) Not fully convinced about the pratice	31	56		
		b) Lack of finance	16	29		
		c) No timely guidance by extension agency	2	4		
		d) No incentives from the government	6 6	11		
Plant proection measur		a) Lack of finance and equipments 1 documents	25 15 80	26		
		b) No incentives from the government	13	22		
		c) No timely guidance by extension agency	18	19031		
		d) There was no pest and disease attack	12	21		

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there was no timely guidance by exten-

sion agency. The other reasons advan-

ced by them were lack of purchasing

powar, little knowledge about the occ-

urrence of pests and diseases. Similar

findings were reported by Bedi and

Saxena (1965), Rai (1965), Rajagopa-

lan and Jaspal Singh (1967) and Basram

and Capner (1968) who identified lack

of capital and lack of knowledge as

reasons for non-adoption.

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