Information Processing and Sharing Behaviour of IFS Farmers

K. Ponnusamy¹ and Jancy Gupta²

ABSTRACT

A study was conducted to assess the information processing and sharing behaviour of farmers in different farming systems of coastal Tamil Nadu during 2005. Almost three-fifth of the total respondents (60.67%) never preserved any literature relating to farming while farmers before to C+D+P+F (5.33%) and C+D+P (10.00%) systems were comparatively better in preserving the literature. The diary writing habit was relatively better in C+D+P+F systems (5.33%) and poor in other systems. Most of the respondents evaluated the information with locally available sources like friends, relatives and progressive farmers. Similarly majority of the respondents shared the information with friends, relatives, neighbours and advise seekers immediately after receiving it in most of the systems. Information sharing behaviour was high among personal localite channels. The extension agencies should inculcate the habit of various methods of information preservation, consultation of different sources for evaluation the information and sharing the same in all farming systems.

Farming system is a way of life among the farmers of India wherein several enterprises are integrated symbiotically and the synergistic interactions of them have a greater effect than the individual effect. In this endeavour, the role and nature of involvement of component enterprises including dairy within the farming systems, development of appropriate research protocols, mechanisms to encourage greater use of profitable technologies, method of diffusion, delivery and acceptance by farmers will assume greater importance for spearheading the agricultural growth. This needs meticulous planning on how to integrate crop, dairy and other enterprises of integrated farming in different agroeco systems. It is necessary to understand the information processing and sharing behaviour of farmers in order to plan need based strategy for promoting profitable farming systems in the country.

METHODOLOGY

The studey was conducted in two randomly selected coastal districts of Tamil Nadu. From these two districts, four blocks and eight villages were selected applying proportionate random sampling technique. A sample of 150 farmers was drawn using the proportional allocation. A complete list of farmers having different enterprise combinations including at least one milch animal was prepared for each of the selected villages. Based on the proportionate random sampling technique, the sample IFS farmers were drawn randomly from the selected villages. The sample IFS farmers were post stratified based on the combination of enterprises.

Information processing behaviour

It was operationalised as activities performed by an IFS farmer for synthesis, evaluation, storage and

¹ Scientist (Senior Scale), Central Instgitute of Brackishwater Aquaculture, 75, Santhome High Road, Chennai-600 028, Tamil Nadu.

² Head, Dairy Extension, National Dairy Research Institute, Karnal-132 001, Haryana.

transmission of farm related information. A score of three, two and one was assigned for mostly, sometimes and never responses. For calculating the overall score of information processing behaviour, scores on each item was worked out and summed-up.

Information sharing behaviour

It was operationalised as the tendency of the respondents to share farm oriented information received by IFS farmers with fellow farmers and transmission of farming problems to concerned development departments as feedback. The numerical scores of one for sharing the information immediately after receiving the information and two for sharing the information after adopting the technology or innovation were assigned and overall score was calculated by summing up the individual scores obtained on each of the information shared with others to find out the information sharing behaviour.

RESULTS AND DISCUSSION

Information processing behaviour of IFS farmers

The information processing behaviour of IFS farmers with respect to their method of preservation and evaluation of new information on different farming systems has been described as hereunder.

Preservation of information

The results on method of preservation of new information by IFS farmers in different farming systems have been depicted in Table 1.

As could be seen from the table, more than half of the total respondents (56.00%) only made cursory look without making much effort in understanding what the information/ message was about. Similar trend was observed in all the systems. Almost three-fifths of the total respondents (60.67%) never preserved any literature relating to farming while farmers belonging to C+D+P+F (5.33%) and C+D+P (10.00%) were comparatively better in preserving the literature. About 87.33 per cent of total respondents never maintained a subject matter file. Higher proportion of farmers in C+D+P+F (4.00%) had the habit of maintaining the subject matter files and farmers of C+D+P+H and C+D+P+S/G+H did not follow the same. With regard to noting in a diary about events and accounts, 61.33 per cent of them never noted/ wrote in the diary and 22.67 per cent wrote most of the time. The diary writing habit was relatively better in C+D+P+F (5.33%) and poor in other systems. Majority of the respondents (59.33%) preferred to memorize the new information mostly and 40.67 per cent of them sometimes

memorized the same. Farmers of C+D+P+F+H (6.00%) and C+D+P+S/G+H (8.00%) showed greater interest to memorise the new information as a means of preservation.

These findings indicate that the habit of preservation had not been inculcated although the educational status of the respondents greatly improved. Farmers generally make a cursory look and memorise the same if they happenm to see/ hear the news on radio television, from fellow farmers or read the newspapers The habit of literature preservation, diary writing and file maintenance could not be found even among graduate farmers. Generally farmers expressed that since they are fully involved in farming activities from morning to evening, they could not find enough time for these work and moreover, it was not a difficult task for them i remembering the income and expenditure at least for th current and previous years. However, they could no recollect the data on activity wise farming activities for the last 5 to 10 years. Hence, one of the major tasks (field extension functionaries is to inculcate the habit various methods of preservation of information in ord to enable the farmers to plan their calendar of activiti which will help them in avoiding wasteful expenditures as in running the farming on a profitable basis. Kadian a Kumar (2002) found that majority of dairy farme preserved scientific information by memory.

Method for evaluation

The data in Table 2 display the results of meth of evaluation of information by IFS farmers on different farming systems. It could be observed from the Ta that about 68.67 per cent of the total responde discussed the new information with friends/ relatives wh more than half of them (52.00%) also evaluated information by having discussion with progressive farm The respondents who mostly evaluated the informat with the progressive farmers were proportionately hig C+D+P (14.00%), C+D+P+F (6.00%), C+D+P (6.00%) and C+D+P+S/G+H (5.34%) system. It m be due to familiarity with these sources and its re availability in the vicinity of locality. Moreover, the c checking and doubt clearing were easy while evalua the information with these sources. Kadian and Ku (2002) revealed that evaluation of perceived informa was done by discussing with friends, relatives progressive farmers (87.22%) as well as considering feasibiltiy and profitability of the innovation. They fu suggested the evaluation of cost of alternative appropriate approaches as a basis for decision mai About 46.00 per cent of respondents never consulte locally available institutions and 28.67 per cent and 2

Table 1. Distribution of respondents according to their method of information preservation (N=150)

	Method of		drate/2		System			Overall
	Preservation	C+D	C+D+P	C+D+P+F	C+D+P +S/G	C+D+P +H	C+D+P +S/G+H	
I.	Only through cur	sory look		•				
i)	Never	1	0	2	3	vitalor 3 basis	diler a December	10
		(0.67)	(0.00)	(1.33)	(2.00)	(2.00)	(0.67)	(6.67)
ii)	Sometimes	21	25	6	17	7	8	84
		(14.00)	(16.67)	(4.00)	(11.33)	(4.67)	(5.33)	(56.00)
iii)	Mostly	13	20	4	10	3	6	56
		(8.66)	(13.33)	(2.67)	(6.67)	(2.00)	(4.00)	(37.33)
II.	Preserve literatur			(202)	100.81	(2.00)	(1.00)	(31.33)
1)	Never	22		4	01			
1)	INCVCI		25	4	21	8	LE BOH HOLES	91
ii)	Sometimes	(14.67)	(16.67)	(2.67)	(14.00)	(2.67)	(7.33)	(60.67)
п)	Sometimes	7	5	0	4	4	3	23
iii)	Mostly	(4.66)	(3.33)	(0.00)	(2.67)	(2.67)	(2.00)	(15.33)
ш)	Mostly	6	15	8	5	$(\mathbb{T}_{\mathbf{i}}^{\mathbf{l}})_{1}$	1	36
		(4.00)	(10.00)	(5.33)	(3.33)	(0.67)	(0.67)	(24.00)
III.	Maintain a subje	ct matter file						
i)	Never	31	41	4	27	13	15	131
		(20.67)	(27.33)	(2.67)	(18.00)	(8.67)	(10.00)	(87.33)
ii)	Sometimes	2	3	2	2	0	0	9
		(1.33)	(2.00)	(1.33)	(1.33)	(0.00)	(0.00)	(6.00)
iii)	Mostly	2	1	6	1	0	0	10
	(Gin	(1.33)	(0.67)	(4.00)	(0.67)	(0.00)	(0.00)	(6.67)
IV.	Note in a diary	(1040)	(600)	and the second	. (2.0)	(0.00)	(0.00)	(0.07)
i)	Never	23	30	Votes 2 villas	21	7	0	00
,	The London	(15.33)	(20.00)	(1.33)	(14.00)		9	92
ii)	Sometimes	5	8	(1.55)	(14.00)	(4.67)	(6.00)	(61.33)
	Cometines	(3.33)	(5.33)	(1.33)	(2.00)	2	4	24
iii)	Mostly	7	7	(1.55)	(2.00)	(1.33)	(2.67)	(16.00)
ш,	1110011	(4.67)	(5.33)	(5.33)		4	8	34
V	Memorise it	(4.07)	(3.33)	(3.33)	(4.00)	(4.00)	(1.33)	(22.67)
)	Never	0	0	0	0	0	0	0
	((4.1)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
i)	Sometimes	15	18	6	15	4	3	61
	(9-6.2)	(10.00)	(12.00)	(4.00)	(10.00)	(2.67)	(2.00)	(40.67)
ii)	Mostly	20	27	6	15	9	12	89
		(13.33)	(18.00)	(4.00)	(10.00)	(6.00)	(9.00)	(59.33)

C - Crop; D - Dairy; P X Poultry; F - Fishery; S/G ä Sheep/Goat and H - Horticulture Figures in parentheses indicate percentage.

per cent of them consulted mostly and sometimes respectively.

Only C+D+P+F (6.00%) and C+D+P (9.33%) farmers had higher proportion in consulting the local institution. Vast majority of the respondents (65.33%) preferred to evaluate the new information based on the availability of inputs and profitability of innovations and

only miniscule minority of respondents (I4.67%) did not consider their criterion. The C+D+P+F farmers (5.33%) were mostly immediate adopters of innovations. The results disclosed that those with higher risk taking ability were adopting multiple enterprises and were having contact with various stakeholders of the system and to try to take the advantages of prevailing factors of

Table 2. Distribution of respondents according to their method of information evaluation (N=150)

lable 2.			System			Overall		
Method of Evaluation	C+D	C+D+P	C+D+P+F	C+D+P +S/G	C+D+P +H	C+D+P +S/G+H		
		8	*		deel year	nly through cur		
I. Consultation with	friends/ relativ	es		0	0	0	5	
	0	4	1	0	(0.00)	(0.00)	(3.33)	
i) Never	(0.00)	(2.67)	(0.67)	(0.00)	10	14	103	
		29	8	22		(9.33)	(68.67)	
ii) Sometimes	20	(19.33)	(5.33)	(15.67)	(6.67)	1	42	
	(13.33)	12	3	8	3	(0.67)	(28.00)	
iii) Mostly	15		(2.00)	(5.33)	(2.00)	(0.07)	(20.10)	
	(10.00)	(8.00)	(2.00)					
II. Consultation wi	th progressive fa	armers	4	10	0	2	19	
181	2	4	(15)		(0.00)	(1.33)	(12.67	
i) Never	(1.33)	(2.67)	(0.67)	(6.67)	4	5	53	
(200.5)	16	20	2	6	(2.67)	(3.33)	(35.33	
ii) Sometimes	(10.67)	(13.33)	(1.33)	(4.00)	9	8	78	
		2	9	14		(5.33)	(52.00	
iii) Mostly	17 (11.33)	(1.33)	(6.00)	(9.33)	(6.00)	(5.55)		
						_	69	
III. Consultation	with local institu	LIOIIS	1	20	7	7		
i) Never	16	18	1	(13.33)	(4.67)	(4.67)	(46.0	
1) 146461	(10.66)	(12.00)	(0.67)	(13.55)	5	7	38	
ii) Sometimes	10	13	2	(0.67)	(3.33)	(4.67)	(25.3	
ii) Sometimes	(6.67)	(8.67)	(1.33)	9	1	I viscol	43	
A	9	14	9		(0.67)	(0.67)	(28.6	
iii) Mostly	(6.00)	(9.33)	(6.00)	(6.00)	(0.07)			
IV. Consider the	in-hilling of in	nuts and profi	tability of innov	ations		0	7	
IV. Consider the	availability of in	puts use 1	0	0	0		(4.6	
i) Never	3	4	(0.00)	(0.00)	(0.00)	(0.00)	4.5	
1)	(2.00)	(2.67)	2	10	1	6	(30.	
ii) Sometimes	12	14		(6.67)	(0.67)	(4.00)	,	
II) Boilidean	(8.00)	(9.33)	(1.33)	20	12	9	9	
iii) Mostly	20	27	10	(13.33)	(8.00)	(6.00)	(65.	
iii) Mostly	(13.33)	(18.00)	(6.67)	(15.55)				
TI Watt for do	monstrations in	other's farm			0,	2	и и з	
		13	8	3	3	(1.33)	(24	
i) Never	7	(8.67)	(5.33)	(2.00)	(2.00)	(1.33)	2	
0 6	(4.67)	19	4	10	6		(46	
ii) Sometimes	22		(2.67)	(6.67)	(4.00)	(5.34)		
	(15.33)	(12.6)	0	17	4	5	(29	
iii) Mostly	5	13	(0.00)	(11.33)	(2.67)	(3.33)	(2.	
ш,	(3.33)	(8.67)			The second second	Second Disease		

C - Crop; D - Dairy; P X Poultry; F - Fishery; S/G ä Sheep/Goat and H - Horticulture Figures in parentheses indicate percentage.

production and their method of evaluation. Those farmers who take into consideration of backward and forward linkages in a system perspective are always ahead of others as they evaluate any information which they come to know with various system components which ultimately help them to take right decision.

Information sharing behaviour

The information sharing behaviour was de in relation to immediate sharing of informatio different sources after knowing it or passi information after adopting the innovations in the farm by the farmers.

The study shosed respondents passed on the information to friend and relatives (53.33%) followed by neighbours (49.33%), advisor seekers (48.00%), tenants (4.67%) and agricultural meetings (0.67%) respectively. On the other hand, other farmers preferred to pass on the information after adopting the same in their farm setting to friends and relatives (46.67%), neighbours (43.99%), advice seekers (43.33%), tenants (14.01%), agricultural meetings (10.6%) and by writing articles (1.33%). The farmers belonging to C+D+P+F, C+D+P+H systems and C+D+P+S/G+H mostly shared the information after verifying the same in their farms while those belonging to C+D, C+D+P and C+D+P+S/G systems mostly passed on the information immediately after coming to knw it. It could be inferred that the systems containing risk factors require the technologies or innovations first to be verified before passing the same whereas those systems practised by resource poor farmers with low value crops/ enterprises may not require such verifications as risk factors contained in the innovations may be of relatively lower. Farmers of C+D+P+F also shared their results in agricultural meetings as well as writing articles/ preparing pamphlets in the slang language to popularise certain innovations/ enterprises. It was also found that the technologies that were shared with others after adoption on their farms by the farmers included pest and disease control measures, new high value crops like flowers, etc. and technologies that were passed immediately were insect control measures, seed availability and market related information. Garg and Saini (2004) suggested that extension agencies need to educate the farmers about quality, value addition, diversification and better marketing

so that it can be shared among the farmers. It could be concluded that the information sharing behaviour was high among personal localite channels and low among impersonal cosmopolite channels. These findings implied that commodity specific group formation is urgently warranted in each and every village of the country.

CONCLUSION

The findings revealed that almost three-fifth of the total respondents never preserved any literature relating to farming while farmers belong to C+D+P+F (5.33%) and C+D+P systems were comparatively better in preserving the literature. The diary writing habit was relatively better in C+D+P+F and poor in other systems. Most of the respondents evaluated the information with locally available sources like friends, relatives and progressive farmers. Similarly, majority of the respondents shared the information with friends, relatives, neighbours and advise seekers immediately after receiving it in most of the systems. Information sharing behaviour was high among personal localite channels.

REFERENCES

- Garg, I. and Saini, G.S. (2004). Information seeking and dissemination of extension personnel. *Indian Journal of Extension Education*, XXXX (1&2), 28-31.
- Kadian, K.S. and Kumar, R. (2002). Information processing pattern of dairy famrers of Kangra valley. *Indian Journal of Extension Education*, XXXX (1&2), 65-67.