Int.J.Curr.Microbiol.App.Sci (2020) *9*(4): 2326-2335

International Journal of Current Microbiology and Applied Sciences
***ISSN: 2319-7706* Volume 9 Number 4 (2020)**
Journal homepage: http://www.ijcmas.com

Original Research Article https://doi.org/10.20546/ijcmas.2020.904.279

Krishi Mahiti Wahini of VNMKV, Parbhani: Boon for Farmers

S. G. Puri*, P. R. Deshmukh and U.N. Alse

[1]*Department of Extension Education, ATIC, VNMKV, Parbhani, India*
[2]*Extension Agronomist, ATIC, VNMKV, Parbhani, India*

**Corresponding author*

Keywords

Questions, Subject areas, Analysis

Article Info

Accepted:
18 March 2020
Available Online:
10 April 2020

A B S T R A C T

Agricultural Technology Information Centre is a unique facility and shall endeavor with objectives like to empower farmers through direct access to information & knowledge. One of the efforts made by ATIC is an advisory service through Krishi Mahiti Wahini. Study was undertaken with purposive sampling method. All questions of year 2018were taken as a sample for study. The statistical tools like Mean, Frequency and Percentage were used to analyse the data. The data revealed that near about half of the total having equal percentage in month of June (13.77%), July (14.46%) and August (14.42%) and June (13.77%) were the month in which maximum No. of questions received from the farmers. One third (32.66 %) of questions were asked from Parbhani district. It was also observed that one third of questions were received from Horticulture discipline followed by Agronomy, Entomology and Pathology.

Introduction

The Agricultural Technology Information Center (ATIC) is single window delivery dissemination and supporting system for various innovative and farm worthy techniques, technical advice and diagnostic services. It aims to create strong linkage between research and extension in the pursuit of excellence in Agriculture. The Agricultural Technology Information Center established in 2000, located near the main entrance of administrative building of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani (M.S.).

Agricultural Technology Information Centre is a unique facility and shall endeavor with objectives like to empower farmers through direct access to information & knowledge, to provide single window delivery system for literature and agriculture information, to help farmers in problem solving and decision making, to create strong mechanism for

receiving feedback from the farmers, stake holder and reporting the same to research system for solution or refinement, to provide advisory services through News Paper, Radio, Television and Internet and to impart need based training to farmers, officers of Agriculture and other departments.

To attain the objectives of ATIC, one of the efforts made by ATIC is an advisory service through Krishi Mahiti Wahini. It is a farmers friendly service in which farmers are directly contacting with ATIC centre from their places. For this purpose the Telephone Helpline is started since 7th October 2000 in VNMKV, Parbhani. The Technical Officer is having duty to attend telephone for answering queries of farmers every day in office timing. Name, Address and Questions of the farmers are recorded in the register. If Specific queries of farmers raised that are solved with specialist by providing mobile number of concern Specialist. From October 2000 to March 2019, about30328farmers have benefited with Krishi Mahiti Wahini.

As the response of farmers was good, it is felt necessary to undertake analysis of Krishi Mahiti Wahini with following objectives.

To analysis month wise distribution of questions received from the farmers.
To know the district wise frequencies of questions asked by the farmers.
To find out the major subject area in which maximum questions asked by farmers.

Materials and Methods

The present study was undertaken with purposive sampling method. From 1stJanuary 2018 to 31 December 2018 total questions received were 2788 on Krishi Mahiti Wahini. All questions were taken as a sample for study. The statistical tools like Mean, Frequency and Percentage were used to analyze the data.

Results and Discussion

The findings of the study are given as below
Month wise distribution of questions received from the farmers.

The data present in Table 1 shows that near about half of the total having equal percentage in month of June (13.77%), July (14.46%) and August (14.42%) and June (13.77%) were the month in which maximum No. of questions received from the farmers. followed by May (9.51 %), January (8.03%), September (8.78%), October (7.39%), February (5.60%), November and December (5.27%), however in March (3.95%) and April (3.55%) very few questions were asked by the farmer on Krishi Mahiti Wahini of VNMKV, Parbhnai.

Districtwise frequencies of questions asked by the farmers

The data regarding district wise frequencies of farmers question, from the Table 2 it is clear that one third (32.66 %) of questions were asked from Parbhani district, Followed by Hingoli (14.06 %) and Beed district (10.62 %) however Jalna (9.88 %), Nanded (8.58 %), Osmanabad (4.30 Percent), Aurangabad (3.73 %), Latur (3.38 %), were also have significant contribution in asking the questions by the farmers. While Pune (2.08 %) and Solapur (1.90 %). Having very meagre percentage followed by Buldhana (0.96 %), Jalgoan (0.89 %), Ahamadnagar (0.82 %), Nasik (0.79 %), Amravati (0.68 %), Kolhapur (0.68 %), Yeotmal (0.57 %), Sangli (0.54 %), Akola (0.43 %), Satara (0.43 %), Washim (0.35 %), Dhule (0.32 %), Mumbai (0.21 %), Nagpur (0.21 %), Chandrapur (0.14 %), Raigad (0.10 %), Nandurbar (0.10 %), Wardha (0.10 %), Bhandara (0.10 %), Thane (0.07 %), Gadchiroli (0.07 %) and Ratnagiri

(0.04%) were having not satisfactory contribution in asking the questions. As for as state wise distribution of questions asked by the farmers are concerned from table 3 it indicates that majority of (99.79 %) questions were asked from the Maharashtra State. Very less percent (0.07%) of questions were asked from the other states like Gujrat, Karnataka and Telangana.

Major subject area in which maximum questions were asked by the farmers

Table 4 revealed that in Agronomy discipline maximum questions related to Cotton cultivation -69, followed by Soybean cultivation 54, Gram-54, Sugarcane cultivation-46, other -45, Weed management-41, Tur cultivation, Jowar cultivation and Wheat cultivation were some important questions asked. Few questions on Groundnut, Green Gram, Sesamum, sowing, Water management, Paddy cultivation, Linseed cultivation were also asked.

Next to Agronomy, Entomology discipline stands where out of 424 questions major question were from the Cotton pest management followed by Sericulture-66, Other-47, Soybean pest management and Turmeric insect pest control, Feromon Trap and Tricocard were the other important question. Few question related to vegetable, fruit crop, green gram, gram, melon, jowar, tur, insect control, mexican beetle availability, were also asked.

In case of plant pathology-264 question were asked by the farmers out of which Biomix/Metarizium/Tricoderma related 141, were the major question. Whereas Turmeric disease management 41 followed by Mushroom production, Cotton disease, Soybean, Other, Fruit crop disease and waste decomposer, Papaya, Tur and sugarcane related question were asked respectively. Maximum questions 840 were asked in the Horticulture discipline. In which 313 question were related to nursery (Fruit crop grafts/seedling availability) followed by Drumstick cultivation 97, Turmeric cultivation 63, Other 50. Question on Vegetable production, Banana cultivation, Sweet orange, Chilly, Ginger, Lemon and Citrus, Custard apple cultivation, Mango cultivation, Amla cultivation, Tamarind, Guva, Papaya, Melon Cultivation, establishment of garden, Coconut cultivation, Floriculture, were the some other questions.

As related to Agril., Chemistry and soil science out of 78 questions soil testing related 27 question were asked followed by biofertilizer and vermiculture / vemicompost. In case of Animal Husbandry and dairy science out of 64 question, 31 questions were asked on fodder crop followed by poultry management especially Kadaknath.

Agril., Engineering 62 questions were received in which 21 question related to implements like sprayer, Hand tools, cuter, Grinder, Groundnut decorator etc. followed by farm pond management. Genetics and plant breeding subject out of 246 questions in which Seed processing and seed availability were 225 and Seed production technology 21 questions were asked by the farmers.

In other discipline Extension Education 88 question were asked related to publication (37), training (26) and farmer rallies respectively. Food technology discipline 31 questions were asked related to food processing industry establishment and four from Soybean processing.

Table.1 Distribution of month wise questions received from the farmers n= 2788

Months	No of questions	Percentage (%)
Jan.-18	224	8.03
Feb.-18	156	5.60
March18	110	3.95
April-18	99	3.55
May-18	265	9.51
June-18	384	**13.77**
July-18	403	**14.46**
Aug.-18	402	**14.42**
Sept.-18	245	8.78
Oct.-18	206	7.39
Nov.-18	147	5.27
Dec.-18	147	5.27
Total in the year 2018	**2788**	**100.00**

Table.2 District wise distribution of the questions asked by the farmers n= 2788

Sr No.	Name of the districts	No of questions	Percentage (%)
1.	Aurangabad	104	3.73
2.	Hingoli	392	14.06
3.	Osmanabad	119	4.30
4.	Latur	94	3.38
5.	Beed	296	10.62
6.	Jalna	275	9.88
7.	**Parbhani**	**910**	**32.66**
8.	Nanded	239	8.58
9.	Solapur	53	1.90
10.	Nasik	22	0.79
11.	Ahemadnagar	23	0.82
12.	Jalgaon	25	0.89
13.	Dhule	09	0.32
14.	Sangli	15	0.54
15.	Satara	12	0.43
16.	Kolhapur	19	0.68
17.	Pune	58	2.08
18.	Chandrapur	04	0.14
19.	Nagpur	06	0.21
20.	Akola	12	0.43
21.	Amarawati	19	0.68
22.	Buldhana	27	0.96
23.	Yeotmal	16	0.57

24.	Washim	10	0.35
25.	Bhandara	03	0.10
26.	Gadchiroli	02	0.07
27.	Wardha	03	0.10
28.	Nandurbar	03	0.10
29.	Thane	02	0.07
30.	Ratnagiri	01	0.04
31.	Raigad	03	0.10
32.	Mumbai	06	0.21
33.	Other State	06	0.21
Total		**2788**	100.00

Table.3 State wise distribution of the questions asked by the farmers n= 2788

Sr No.	Name of the districts	No of questions	Percentage (%)
1.	**Maharashtra**	**2782**	**99.79**
2.	Gujrat	02	0.07
3.	Karnataka	02	0.07
4.	Telangana	02	0.07
Total		**2788**	**100.00**

Table.4 Distribution of the questions according to the major subject area in particular discipline

Sr No.	Name of the discipline	No of questions
1.	**Agronomy**	
	Cotton cultivation	69
	Soybean cultivation	54
	Green Gram Cultivation	12
	Sugarcane cultivation	46
	Tur cultivation	36
	Gram cultivation	54
	Jowar cultivation	32
	Sesamum cultivation	09
	Paddy cultivation	04
	Groundnut cultivation	19
	Wheat cultivation	27
	Linseed cultivation	02
	Weed management	41
	Water management	04
	Sowing period	07
	Climate (Weather forecasting)	31
	Other	45
	Total	**492**
2.	**Entomology**	
	Sericulture	66

	Cotton pest management	165
	Soybean pest management	33
	Green gram pest management	07
	Sugarcane insect pest control	02
	Tur insect pest management	08
	Gram insect pest control	06
	Bajra insect pest control	01
	Jowar insect pest control	02
	Turmeric insect pest control	22
	Fruit crop insect pest control	12
	Feromen Trap	18
	Trichocard	14
	Melon insect	02
	Mexican beetle	07
	Vegetable insect	12
	Other	47
	Total	**424**
3.	**Plant Pathology**	
	Mushroom production	29
	Biomix/ Trichoderma/ Metarizim	141
	Cotton disease management	18
	Soybean disease management	12
	Sugarcane disease management	01
	Tur disease management	02
	Turmeric disease management	41
	Fruit crop disease management	05
	Papaya	02
	Waste decomposer	04
	Other	09
	Total	**264**
4.	**Horticulture**	
	Nursery (Fruit crop graft / seedling availability)	313
	Turmeric cultivation	63
	Vegetable production	40
	Drumstick cultivation	97
	Floriculture	07
	Chily and Ginger cultivation	29
	Papaya cultivation	15
	Mango cultivation	20
	Guava cultivation	15
	Custardapple cultivation	21
	Coconut and Sapota cultivation	07
	Banana cultivation	32
	Sweet orange cultivation	31
	Lemon and Citrus cultivation	27
	Amla cultivation	18
	Melon cultivation	13

	Apple, Jackfruit and Date palm cultivation	04
	Tamarind cultivation	17
	Pomegranate cultivation	09
	Establishment fruits crop	12
	Other	50
	Total	**840**
5.	**Soil science and Agril. Chemistry.**	
	Soil testing	27
	Vermiculture / vermicompost	13
	Bio fertilizers	19
	Humus information	02
	Other	17
	Total	**78**
	Animal husbandry and dairy science	
	Goat raring	07
	Poultry management (Kadaknath)	12
	Milk production	05
	Fodder crops	31
	Cow and Buffalo management	08
	Other	01
	Total	64
	Agricultural Engineering	
	High tech. farming	02
	Tractor drawn implements	02
	Animal drawn implements	05
	Implement testing	02
	Solar energy	01
	Farm pond management	15
	Other implements (Sprayer, Hand tools, Cutter, Grinder, Groundnut decocator, etc)	21
	Other	14
	Total	62
	Genetics and Plant Breeding	
	Seed Technology	21
	Seed Processing and availability.	225
	Other	0
	Total	246
	Extension Education	
	Publication	37
	Trainings	26
	Farmers rallies	25
	Total	88
	Food Technology	
	Soybean processing	04
	Food processing industry establishment	25
	Other	02
	Total	31

	Tissue Culture	24
	Forestry	
	Karwand cultivation	01
	Bamboo cultivation	03
	Sandal wood Cultivation	16
	Other	07
	Total	27
	Medicinal Plant	
	Shatawari cultivation	07
	Alovera cultivation	03
	Other	12
	Total	22
	Fishery	08
	Veterinary	
	Bullock castration	02
	Goat diseases	01
	Other	03
	Total	6
	Admission	11
	Other Discipline	101

Table.5 Per cent distribution of the questions asked by the farmers according to the discipline n= 2788

Sr No.	Name of the discipline	No of questions	Percentage (%)
1.	Agronomy	492	17.65
2.	Entomology	424	15.20
3.	Plant Pathology	264	9.47
4.	Horticulture	840	30.13
5.	Soil science	78	2.80
6.	Animal husbandry and dairy science	64	2.30
7.	Agricultural Engineering	62	2.23
8.	Genetics and Plant Breeding (Seeds)	246	8.82
9.	Extension Education	88	3.15
10.	Food Technology	31	1.11
11.	Tissue Culture	24	0.87
12.	Forestry	27	0.97
13.	Medicinal Plant	22	0.79
14.	Fishery	08	0.29
15.	Veterinary	06	0.21
16.	Admission	11	0.39
17.	Other	101	3.62
	Total	**2788**	**100**

Twenty four questions with regards to tissue culture plants availability, than 27 questions in forestry in which Sandal wood, Bamboo cultivation 22, questions in Medicinal plant in which Shatawari and Alovera cultivation. Few question related to Fishery and Veterinary were asked. Other areas like technical calls from Offices-101 and admission related -11 calls were received on Krishi Mahaiti Wahini of VNMKV, Parbhani.

Percent distribution of questions asked by the farmers according to the discipline

The result depicted in Table 5 reveals that one third percentage (30.13 %) of questions from Horticulture discipline followed by Agronomy (17.65 %), Entomology (15.20 %), Plant Pathology (9.47 %), Genetics and Plant Breeding (8.82 %), other disciple (3.62 %), Extension Education (3.15 %), Agril chemistry and soil science (2.80 %), Animal Husbandry and Dairy Science (2.30 %), Agril Engineering (2.23 %), Food Technology (1.11 %) questions were found. Few percentage of questions from Forestry (0.97 %), Tissue culture (0.87 %), Medicinal Plants (0.79 %), Admission (0.39 %), Fishery (0.29 %) and Veterinary (0.21 %) were the disciplines in which questions were asked by the farmers.

June, July and August months were the critical period of month in which maximum number of questions received from farmers. However, one third of question received from Parbhani district followed by Hingoli and Beed district. It was also observed that one third of questions were received from Horticulture discipline followed by Agronomy, Entomology and Pathology. In nut shell it is concluded that the maximum number of questions have been asked on Fruit crop grafts/Seedling availability, Seed availability, Biomix/Tricoderma/Metarizium availability, followed by Cotton pest management and Cotton cultivation respectively.

References

Alse, U.N., Deshmukh, P.R., Kulkarni, M.V., Patait, D.D. and Dhakane, V.B. (2016). Analysis of Krushi Sanjwahini of Agriculture Technology Information (ATIC). *Agriculture Update*, 11(4):411-415

Dass, G. (2002). To study the concept and methodology of Agriculture Technology Information Centre and operational problems faced by ATIC and factors contributing to the successful implementation of ATIC philosophy. Thesis, M.Sc. (Ag.) Dr. Bhimrao Ambedkar University, Area, U.P. (INDIA).

Diwiedi, N., Kwatra, J. and Singh, V.K. (2004). ATIC achevement at a glance, Directorate of Extension. G.B Pant University of Agriculture and Technology. Pantnagar (Uttarakhand) INDIA.

Kammar, S.K. (2003). Single window extension approach through Agriculture Technology. Information Centre: case analysis. M.Sc. (Ag.) Thesis, Indian Agriculture Research Institute, NEW DELHI, INDIA.

Pandey, M. and Sloanki, D. (2014). Utilization of Agriculture Technology Information Centre (ATIC) facilities by farm families in Udhaam Singh Nagar district (Uttarakhand). *Internat. J. Sci. & Res*., 3: 1011-1014.

Parihar,S.S., Mishra, B. and Rai, D.P. (2010) Sustainable models of Information Technology for Agriculture and Rural Development, *Indian Res. J. Extn. Edu*. 10: 20-23.

Sharma, J.P., Singh, P., Sharma, N., Gupta, A. and Singh,C.B. (2008). Farm advisory of Agriculture Technology Information Centre (IARI) *J. Community Mobilization & Sustainable Development*, 3: 15-20.

Webliogaphy

www.atic-icarnet.nic.in/.

www.icarzcu3.gov.in/atic.html.

How to cite this article:

Puri, S. G., P. R. Deshmukh and Alse, U.N. 2020. Krishi Mahiti Wahini of VNMKV, Parbhani: Boon for Farmers. *Int.J.Curr.Microbiol.App.Sci.* 9(04): 2326-2335.
doi: https://doi.org/10.20546/ijcmas.2020.904.279