Trends in Citation Pattern in Agricultural Doctoral Theses of Bangladesh Agricultural University

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Abstract: By the method of citation analysis an attempt has been made to identify the main sources of citations and prepare a list of the most important journals used in various disciplines of Agricultural Sciences in Bangladesh Agricultural University (BAU), Mymensingh (i.e. Veterinary Science, Agriculture, Animal Husbandry, Agricultural Economics & Rural Sociology, Agricultural Engineering & Technology and Fisheries). In addition to it, a list of 123 most cited primary journals in order to their merit has been prepared. The geographical and chronological scattering of citations has also been included in the study. The information inferred in the paper may be of helpful to Agricultural University Libraries of Bangladesh to arrive at a need-based consideration in the selection and acquisition of journals within the limited budgets.

Keywords: Citation Pattern, Agriculture, Doctoral Theses and Technology.

Ealier a substantial number of such studies have been carried out in the world. Some of them are listed in this paper (Deo, V.N., 1995; Pichappan, P. 1990; Doraswamy, M. 2006; Lee, W.M., 2000; Thakur, M.K., 2006 and Ahmad, Moin, 2006).

Introduction

"Because of the rapidly growing boom in the publication of literatures like journals, books, government publications, proceedings, bulletins etc. in the field of Agricultural Science, it may not be feasible for any library to procure all the required reading materials for its potential users within the limited budget. Therefore, the knowledge of comparative and up-to-date details of the literature is of great significance. Citation analysis is one of the important tools for searching the major sources of literature"1. The goal of this study is to use citation used pattern whether the BAU library is meeting the needs of information to the researchers of various disciplines. " The academic and scientific agencies in the country are using journal's impact factor judging the merit and scholarship of research papers, for deciding appointments to academic and research positions and nominations for research awards, and for benchmarking the performance of scientific staff and research laboratories for inter-comparisons"2. This technique has also been used by several workers in the fields of Veterinary 3, Agriculture 4, Animal Husbandry 5, Agricultural Economics & Rural Sociology6, Agricultural Engineering & Technology 7 and Fisheries 8 etc. but very few attempts have been made to develop such a systemic study in the field of agricultural science and we have tried to do something more to it. In this study, authors have analyzed Ph.D. theses of a specific subject or various subjects in fields or as a

specific journals etc. We have selected 237 Ph.D. theses in the various fields of agricultural sciences.

Scope and Objectives

The scope of this study needs to be developed in the field of Agricultural Science since the bulk of researches are going on rapidly. From 1973 and up to till date on 31st December, 2013, 404 scholars awarded Ph.D. Degree from this University in different disciplines.

An investigation has been made here to study the citations contained in Ph.D. theses submitted by the scholars of different disciplines of agricultural science and to analyse them to obtain the required information with respect to the objectives given below:

1. to identify the subject-wise citations;

2. to show the different forms of citations;

3. to find out the geographical distribution of the cited journals; and

4. to depicts the chronological scattering of cited literature.

5. to prepare a list of the top five most cited journals;

6. to prepare a list of journals which are commonly cited by the researchers;

Methodology

Out of 404 theses, we have selected 237(58.66%) theses proportionately for the analyzing purposes. The sample technique was the stratified random sampling with proportional allocation. From these selected theses, a total of 43,078 citations were collected in order to analyze in present study. All the citations noted in the bibliography were categorized into two main groups: non-periodical publications and periodical publications. Non-periodical publications consist of text books, reference books, Government Publications and theses. Periodical comprise journals, bulletins, proceedings or similar works, which appear regularly and continuously in a numbered sequence.

However, the newspapers and annual reports were excluded from selected theses. All the citations of periodical and non-periodical publications were noted, classified, tabulated, presented, analyzed and interpreted with the help of tables. The study presents analysis of several parameters like subjectwise citations, forms of citations and finally a list

of top five important journals were compiled and prepared on the basis of highly cited articles of the journals. To identify the names of the branch and researcher were also indicated for its chronological study all the citations, which covered the period from 1912 to 2004, were divided into three classes: old period (1912-1971), recent period (1972-2000) and most recent period (2001 - 2013). For determining the origin of country and year of publication of journals, the Ulrich's International Periodical Directory (26th ed., 2004) and other sources available in the library were also consulted.

Results & Discussion

1. Department- wise distribution of theses

Bangladesh Agricultural University is to consist of 43 departments under the 6 Faculties. Out of these departments, only 30 departments were offered 404 Ph.D. degrees during the periods of 1973 to 2013.

Table1 depicts the number of submitted thesis (awarded) in different departments and the few numbers of awarded theses were taken from those departments for our analyzing purposes.

There are 8 departments out of which 43 departments were offered 24 Ph.D. degrees under the Faculty of Veterinary. We have taken 15(62.5%) out of 24 theses for analyzing purposes and found that 2888 of citations are used by the research scholars. Again, there are 12 departments out of which 16 departments were offered 257 Ph.D. degrees under the Faculty of Agriculture. We have taken 148(57.59%) for the study out of 257 theses and found that 25,757 citations are used by the researchers.

Further, there are 5 departments under the Faculty of Animal Husbandry and all the departments offered Ph.D. degree. We have analyzed 18 (64.28%) theses out of 28 theses and 4335 of citations are found from the analyzed theses. Under the Faculty of Agricultural Economics & Rural Sociology, there are 3 departments of which 5 departments offered Ph.D. degree. The total number of Ph.D. degree was 27 and we have taken 15 (55.55 %) theses to analyze and found 2410 citations.

Faculty of Agricultural Engineering & Technology is consisted of 5 departments. Three departments were offered Ph.D. degree and the rest are not providing any Ph.D degree. The total number of theses was 21and we have taken 14(66.67%) theses in order to study and found 1845 citations are used. Faculty of Fisheries is the last one, which belong to 4 departments. Out of 47 submitted theses, 27 (57.45%) theses were analyzed and 5843 citations are used by the research scholars. It is noted that the departments under the faculties have not done any Ph.D. works which are not mentioned in (Table 1) and the arrangement of different departments are used based on descending order in relation to the theses submitted.

SI. No.	Name of the Department	No. of theses submitted	No.of theses analyzed	No. of citations contained in analyzed theses
	FACULTY	OF VETERINA	RY SCIENCE	
01.	Microbiology and Hygiene	06	03	554
02.	Anatomy and Histology	02	01	098
03.	Medicine	01	01	141
04.	Parasitology	02	01	136
05.	Pathology	03	02	406
06.	Physiology	01	01	453
07.	Surgery and Obstetrics	04	03	600
08.	Pharmacology	05	03	500
	Total	24	15	2888
	Percentage (%)	100	62.5%	-

Table 1

Sl. No.	Name of the Department	No. of theses submitted	No.of theses analyzed	No. of citations contained in analyzed theses
	FAC	ULTY OF AGRIC	ULTURE	
01.	Agronomy	72	40	5096
02.	Horticulture	47	30	4340
03.	Agricultural Ext. & Education	25	13	2031
04.	Plant Pathology	28	16	2048
05.	Genetics and Plant Breeding	29	16	2488
06.	Soil Science	19	12	2016
07.	Crop Botany	05	03	870
08.	Entomology	13	07	1582
09.	Biochemistry	01	01	1572
10.	Agricultural Chemistry	07	04	202
11.	Biotechnology	06	03	1750
12.	Environmental Science	05	03	1762
	Total	257	148	25757
	Percentage (%)	100	57.59%	-
		Y OF ANIMAL		
01.	Animal Breeding & Genetics	07	04	1020
02.	Animal Nutrition	08	05	1758
03.	Animal Science	03	02	265
04.	Poultry Science	05	04	746
05.	Dairy Science	05	03	546
	Total	28	18	4335
	Percentage (%)	100	64.28%	-
	FACULTY OF AGRICUL	TURAL ECONOM	IICS & RURAL S	OCIOLOGY
01.	Agricultural Economics	19	10	1192
02.	Agricultural Finance	02	01	066
03.	Agricultural Business	06	04	1152
	Total	27	15	2410
	Percentage (%)	100	55.55%	-
	FACULTY OF AGRIC			NOLOGY
01.	Farm Power and Machinery	08	05	551
02.	Irrigation & Water Management	12	08	1147
03.	Food Technology	01	01	147
-	Total	21	14	1845
	Percentage (%)	100	66.67%	
		CULTY OF FISH		<u> </u>
01.	Aquaculture	14	08	2289
02.	Fisheries Biology & Genetics	11	07	1351
03.	Fisheries Management	17	10	1773
04.	Fisheries Technology	05	02	430
	Total	47	27	5843
	Percentage (%)	100	57.45%	-
	Grand Total	404 (100 %)	237(58.66 %)	43,078

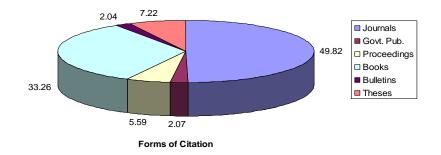
2. Forms of Citation

Table 2 shows the different forms of reading materials used by the researchers'' On the basis of the analysis made, it was found that the researchers made use of journals, Government publications, proceedings, books, bulletins and theses as the source of information (Table 2). But as best as 49.82% citations were from journals followed by 33.26% from books and the remaining sources were responsible for 16.92% citations only.

Name of the Faculty	Sl. no.	Documents cited	No. of citations	Percentage (%)	Cumulative (%)
Veterinary	01.	Journals	2169	75.10	-
	02.	Govt. Pub.	30	1.04	76.14
	03.	Proceedings	116	04.02	80.16

Table 2

Faculty	Sl. no.	Documents cited	No. of citations	Percentage (%)	Cumulative (%)	
racuity	04.	Books	434	15.03	95.19	
	04.	Bulletins	111	03.84	99.03	
	05.	Theses	28	0.97	100	
	Total	Theses	28	100	100	
		T			-	
	01.	Journals	11972	46.48	-	
	02.	Govt. Pub.	220	0.86	47.34	
A	03.	Proceedings	1276	4.95	52.29	
Agriculture	04.	Books	9948	38.62	90.91	
	05.	Bulletins	485	1.88	92.79	
	06.	Theses	1856	7.21	100	
	Total		25757	100	-	
	01.	Journals	2315	53.40	-	
	02.	Govt. Pub.	48	1.11	54.51	
Animal	03.	Proceedings	146	3.37	57.88	
Husbandry	04.	Books	1219	28.12	86.00	
	05.	Bulletins	48	01.11	87.11	
	06.	Theses	559	12.89	100	
	Total		4335	100	-	
	01.	Journals	1072	44.48	-	
Agricultural	02.	Govt. Pub.	125	05.19	49.67	
Economics &	03.	Proceedings	119	04.94	54.61	
Rural	03.	Books	917	38.05	92.66	
Sociology	04.	Bulletins	29	01.20	93.86	
sociology	05.		148	01.20		
		Theses			100	
	Total	T 1	2410	100	-	
	01.	Journals	708	38.38	-	
	02.	Govt. Pub.	17	0.92	39.30	
Agricultural	03.	Proceedings	153	8.28	47.59	
Engineering	04.	Books	907	49.16	96.75	
& Technology	05.	Bulletins	24	1.30	98.05	
	06.	Theses	36	1.95	100	
	Total		1845	100	-	
	01.	Journals	3225	55.19	-	
	02.	Govt. Pub.	452	7.73	62.92	
	03.	Proceedings	597	10.22	73.14	
Fisheries	04.	Books	905	15.49	88.63	
	05.	Bulletins	181	3.10	91.73	
	06.	Theses	483	8.27	100	
	Total		5843	100	-	
		Grand To	otal Citation of (J	
Grand Total	Journals		21461	49.8	2 -	
Citation of 6			2.0			
Faculties	Proceedir		2407	5.59		
	Books	-8 ⁰	14330	33.2		
	Bulletins		878	2.04		
			8/8	2.04	+ 19//2	
	Theses		3110	7.22		



3. Country-wise distribution of cited journals

Table 5 presents that USA, India, UK, Bangladesh, Netherlands, Japan, Australia, Germany, Philippines, Iran, Pakistan, Switzerland and Newzeland produced 123 titles which account for 10.89% of the total number of journals covering 41.75% of the total number of citations. The remaining citations of other countries produced 89.11% titles which account of 58.25% citations are only journals. These citations are not counted because used below 3 times. The other sources are such as proceedings, theses, bulletins, government publications together account for 16.92% citations only.

With the help of citation analysis the top five most important primary journals in each branch have been identified, which will serve as a guide-line to the researchers to pick out the journals most relevant in their area of research.

Sl. No.	Country	No. of	Percentage	No. of	Percentage
	l l	Journals	(%)	Citations	(%)
01.	Australia	03	0.27	053	0.25
02.	Bangladesh	11	0.97	625	2.91
03.	Canada	03	0.27	061	0.28
04.	German	03	0.27	137	0.64
05.	India	25	2.21	2316	10.79
06.	Iran	01	0.09	253	1.18
07.	Ireland	01	0.09	022	0.10
07.	Japan	04	0.35	195	0.91
08.	Netherlands	04	0.35	380	1.77
09.	Newzeland	01	0.09	014	0.06
10.	Pakistan	01	0.09	009	0.04
11.	Philippine	02	0.18	082	0.38
12.	Switzerland	01	0.09	010	0.05
13.	UK	25	2.21	1477	6.88
14.	USA	38	3.36	3325	15.47
Total Jo	ournal (according to	123	10.89	8959	41.75
top five	most)				
	Rest used journals	1007	89.11	12502	58.25
	Grand Total	1130	100	21461	100

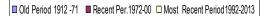
Table	2
Table	3

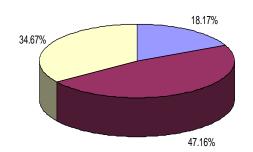
4. Chronological distributions of citation

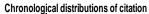
Table 6 indicates the scattering of citations chronologically. The table shows that about 34.67% cited literature, irrespective of documents were published during most recent period (1992 - 2013). About 47.16% of the citations were published during recent period (1972-2000) and only 18.17% from old period (1912- 1971). This study may be very useful and time saving and assuring to the librarians in the acquisition of back-log of journals.

Periodicals					Non-period	dicals			
Period	Journals	Bulletin	Proceedin	Total	Books	Govt.Pub	Thesis	Total	Grand
	No. of	No. of	gs	No. of	No. of	No. of	No. of Cit.	No. of	Total
	Cit. & %	Cit. & %	No. of Cit.	Cit. & %	Cit. & %	Cit. & %	& %	Cit. & %	& %
			& %						
Old Period	3434	233	469	4136	3125	227	341	3693	7829
1912 -71	(7.97%)	(0.54 %)	(1.09 %)	(9.60%)	(7.25 %)	(0.53%)	(0.79%)	(8.57%)	(18.17%)
Recent	9365	343	1481	11189	7170	463	1494	9127	20316
Per.	(21.74	(0.80 %)	(3.44 %)	(25.97%)	(16.64%)	(1.07%)	(3.47%)	(21.19	(47.16%)
1972-00	%)							%)	
Most	8662	302	457	9421	4035	202	1275	5512	14933
Recent	(20.11%)	(0.70%)	(1.06 %)	(21.87%)	(9.37%)	(0.47%)	(2.96%)	(12.80%)	(34.67%)
Period									
1992-2013									
Total	21461	878	2407	24746	14330	892	3110	18332	43078
	(49.82%)	(2.04 %)	(5.59%)	(57.44%)	(33.27%)	(2.07%)	(7.22%)	(42.56%)	(100%)

Table 4







5. Top five most important journals in each branch

Since the number of journals in the various disciplines of agriculture is quite exhaustive, a comprehensive study have made keeping in view the economy of space only five most important journals as indicated by the frequency of their citations from the various disciplines is provided in (**Table 5, Appendix**). Researchers were used different types of journals considering below 5 times used journals have not been counted. Table 5 also shows the country of origin, the establishing date of journals and how many citations were used from individual journal in each branch. Besides this, Table 5 also has been depicted the total number of used citations along with there percentage of the top five most used journals.

6. Rank list of commonly cited journals in each Faculty

Table 6 (Appendix) presents the list of commonly cited journals under the Faculty of Veterinary Science, Agriculture, Animal Husbandry, Agricultural Economics & Rural sociology, Agricultural Engineering & Technology and Fisheries in descending order in respect to their number of citations. The list of rank is based on the analysis of the total citations 43078 from the number of journals are 1113. The titles which share the same rank are listed in an alphabetical order. Although the total number of cited journals are 1113 but we have considered only 123 journals those were cited at least seven times by the research scholars of various departments in different Faculties.

Findings

In the present study 43,078 citations were analyzed from 237 PhD theses in Bangladesh Agricultural University. On the basis of the above discussion the following findings are drawn:

1. It is observed that the highest number (257) of PhD degrees was awarded under the Faculty of Agriculture by Bangladesh Agricultural University during the period of 1973-2013.

- Findings revealed that highest number of citations (25,757) and lowest number of citations (1845) were used by the researchers under the Faculty of Agricultural and Faculty of Agricultural Engineering & Technology respectively.
- 3. It is found from overall the findings that Books (33.27%) and Journals (49.82%) were widely cited by the researchers during their preparing theses.
- 4. Findings observed that foreign countries produced (89.11%) titles which account of (58.25%) citations in this study.
- 5. About 34.67% citations published during most recent period (1992-2013), 47.16% citations published during recent period (1972-2000) and 18.17% from old period (1912-1971).
- 6. Analysis has been shown in Table 5 reveals that 3.36% out of 10.89% journals came from USA, 2nd and 3rdly 2.21% journals came from UK and India. More than 34.67% literature was cited from most recent period in which journals contributed nearly 30% alone.
- 7. It is also found that the list of rank is based on the analysis of the total citations 43078 from the number of journals are 1113.

The major sources of information from the point of view of agricultural research (Veterinary Science, Agriculture, Animal Husbandry, Agricultural Economics & Rural Sociology, Agricultural Engineering & Technology and Fisheries), in Bangladesh Agricultural University, Mymensingh as a guidelines for the researchers to pick out the most relevant journals in their respective area of research.

Conclusion

Citation analysis in any research activites has become one of the popular methods to study subject relationtionships, citation forms, impact, publication trends, and to identify top most journals in a particular subject field or for a particular research community. It is evident from the citations that PhD research scholars of the Bangladesh Agricultural University consulted enormous literature while preparing their dissertations.

It is expected that the study can enlighten the researchers to identify the primary sources of **References**

information from which citations have been made. Such studies will help the information scienctists in circulation of contents for the use of potential users. This study will also serve as guidelines to the librarians in the collection and acquisition of most useful journals within the capacity.

- Ahmad, M. and Haridasam, S. (2006). Use of periodicals by the scholars at National Library of Veterinary Science. *IASLIC Bulletin*, 52(2), 2006, p. 5-17.
- Balaram, P. (2000). Why the impact factor of journal should not be used for evaluating reseach? Current Science, 78, p. 1177-78.
- De, Oliveira (Silas Marques).(1984). Citation pattern in Veterinary medicine dissertation. Annals of Library Science and Documentation. 31 (3-4), 147 155.
- Deo, V.N. Mohal, S.M. & Survey, S.S. (1995). Bibliometric study of doctoral dissertations on English language and literature. Annals of Lib. Sc. & Doc. 42(3), p. 81-95.
- Doraswamy, M. (2006). Analysis of citations cited in Ph.D.Theses in Botany. Indian J. of Inf., Lib. & Soc., 19(3-4), p. 167-75.
- Dutta, B., Das, A. Kumar & Sen, B.K. (2002). A Comparative study of citation patterns among eight scholarly journals published by National Institute of Science Communication and Information Resources. Annals of Lib. & Inf. Studies, 49(4), 127 -34.
- Furqan Ullah, M. and Kanwar, S.S. (2004). A Quantitative analysis of citations of research reports published by National Inst. of Hydrology. Annals of Lib. & Inf. Sc., 51(3), p. 108-15.

Hadagali (Prakash, B). Frequently cited periodicals by Indian agricultural economist: A

- citation analysis, IASLIC bulletin, 28 (2), 59-66.
- Kumaravel, J.P.S. (1983). Economic growth population and research output: A Scientometric
- analysis of Genetic Engineering, 1988-2000. IASLIC Bulletin, 50(1), p. 52-59.
- Lal, A. (1989). A trend in citation pattern in Agricultural research in Bihar, IASLIC

Bulletin, 34 (2), 65-72.

Lee, W. M. (2000). Publication trends of doctoral students in three fields from 1965-75. J. of

American Soc. For Inf. Sc.51, p. 139-44.

- Nasir, A.M. [et. al.] (1994). Bibliometric evaluation of Agricultural literature published in
- Malaysia, Scientimetrics, 29(2), p. 191-217
- Pichappan, P. (1990). Indian Agricultural Science Journal: a comparative study of the ranking list of journals by citations, impact factor and discipline influence score. *IASLIC Bulletin*, 35(2), p. 83-86.
- Thakur, Manoj Kumar. (2006). Analysis of Agricultural Information covered by National Dailies of Nepal. Indian Res. J. Ext. Education. 6(1&2), p. 20-23.

Sl.	Branch	Name of the Journals	Country	Year	No. of	Percenta
no	Rank		of origin	of	citations	ge (%)
•			0	found.		0 . ,
Facu	ulty of Vet.	I. Indian J. of Animal Sciences	India	1931	26	28.89
Sc.						
		II. Acta Anatomy	Swizerlan	1945	10	11.11
01	Anatomy &		d			
•	Histology	III. J. of Agricultural Science	UK	1905	08	8.89
		IV. American J. Veterinary	USA	1940	08	8.89
		Research V. Indian Veterinary Journal.	To dia	1924	06	((7
		Total citation (J), 90	India	1924	06 58	6.67 64.45
		I. J. Clinical Microbiology	USA	1975	38 22	04.45 17.60
		II. American J. Veterinary	USA	1975	22	16.00
02	Medicine	Research	USA	1940	20	10.00
	Wiedlenie	III. Veterinary Record	UK	1888	17	13.60
		IV. Infectious Immunology	USA	1970	16	12.80
		V. J. American Veterinary	USA	1877	14	11.20
		Medical Association				
		Total citation (J), 125	1		89	71.20
		I. Avian Diseases	USA	1957	210	46.67
		II. Avian Pathology	USA	1972	35	7.78
	Microbiolo	III. American J. Veterinary	USA	1940	24	5.33
03	gy &	Research				
•	Hygiene	IV. Vaccine	UK		23	5.11
		V. Arch. Virology	USA	1939	20	4.44
		Total citation (J), 450			312	69.33
		I. Avian Diseases	USA	1957	16	12.80
0.4	D 1.1	II. Infection Immunity	USA	1970	14	11.20
04	Parasitolog	III. Journal of Clinical	USA	1975	13	10.40
	У	Microbiology		1077	10	0.60
		IV. J. American Veterinary Medical Association	USA	1877	12	9.60
		V. Journal of Protozoa	USA	1954	07	5.60
		Total citation (J), 125	USA	1954	62	49.60
		I. Indian Veterinary Journal	India	1924	84	33.20
		II. Helminthology Abstract	UK	1932	40	15.81
05	Pathology	III. Indian Journal of Animal	India	1931	26	10.28
	0.	Science				
		IV. Indian Journal of Animal	India	1960	23	9.09
		Health				
		V. Indian J. Veterinary Science	India	1924	10	3.95
		Total citation (J), 253			183	72.33
		I. Journal of Animal Science	USA	1968	90	19.82
		II. Journal of Dairy Science	USA	1917	65	14.32
06	Physiology	III. Theriogenology	USA	1974	50	11.01
		IV. Veterinary Record	UK	1888	44	9.69
		V. Indian Veterinary Journal	India	1924	38	8.37
		Total citation (J), 454		1000	287	63.22
		I. Veterinary Record	UK	1888	115	37.34
07	Summary 0-	II. Journal of Dairy Science	USA Natharland	1917	63	20.45
07	Surgery & Obstetrics	III. Preventive Veterinary	Netherland	1982	30	9.74
	Obstenies	Medicine	s USA	1877	29	9.42
		IV. J. American Veterinary Medical Association	USA	10//	29	9.42
		V. Australian Veterinary Journal	Australia	1925	17	5.52

Appendix Table -5 Top Five most important journals in each branch of Agricultural Science

		I. Environmental Health	UK	1991	42	11.54
		Perspective				
		II. J. Ethnopharmacology	USA	1983	34	9.34
08	Pharmacolo	III. Diabetes Care	USA	1978	28	7.69
00	gy	IV. Indian J. Pharmacology	India	1981	25	6.87
		V. Toxicology Science	Ireland	1973	22	6.04
		Total citation (J) 364	neiulia	1775	151	41.48
Fac	ulty of	I. Journal of Agricultural	UK	1905	33	34.38
	iculture	Science	OIX	1705	55	51.50
		II. Journal of Soil Science	Iran	1950	15	15.63
		III. Journal of Agronomy	UK	1907	09	9.38
01	Agricultural	IV. Journal of American Society	USA	1968	05	4.17
	Chemistry	V. Nature	UK	1869	05	4.17
	2	Total citation (J), 96		1007	65	67.71
		I. Indian J. Extension Education.	India	1965	180	36.36
		II. Journal of Applied	USA	1951	45	9.09
02	Agricultural	Psychology	0.571	1751	15	5.05
	Extension	III. Bangladesh J. Extension	Banglades	1995	36	7.27
	&	Education	h	1775	50	//
	Education	IV. Rural Sociology	USA	1936	18	3.64
		V. Indian J. Public	India	1979	12	2.42
		Administration		1717		
		Total citation (J), 495			291	58.78
		I Indian Journal of Agronomy	India	1956	339	12.89
		II. Field Crop Abstract	UK	1948	152	5.78
03	Agronomy	III. Indian. Journal of Agricultural	India	1931	147	5.59
	2,	Science		1701		0103
		IV. Agronomy Journal	USA	1907	135	5.14
		V. Journal of Agricultural	Iran	1905	113	4.30
		Science				
		Total citation (J), 2629			886	33.70
		I. Plant Physiology	USA	1926	210	16.56
		II. Soil Science	UK	1950	92	7.26
04	Biochemistr	III. Plant & Soil	Netherland	1949	51	4.02
	у		s			
	-	IV. Biochemistry	USA	1964	47	3.71
		V. Soil Science Society of	USA	1989	45	3.55
		American Proc.				
		Total citation (J), 1268			445	35.09
		I. Crop Science	USA	1961	48	7.62
		II. Annals of Botany	UK	1987	42	6.67
05	Crop	III. Agronomy Journal	USA	1907	41	6.51
	Botany	IV. Australian J. Plant Physiology	Australia	1974	36	5.71
		V. Australian J. Agricultural	Australia		33	5.24
		Research				
		Total citation (J), 630			200	31.75
		I. International. Rice Research	Philippine	1974	65	25.00
		Newsletter				
06	Entomolog	II. Japanese J. of Applied	Japan	1957	43	16.54
	У	zoology				
		III. Journal of Economic.	USA	1908	21	8.08
		Entomology				
		IV. Rice Comm. Newsletter	Philippine	1897	17	6.54
		V. Pakistan J. Agricultural	Pakistan	1949	09	3.46
		Research			ļ	
		Total citation (J), 260			155	59.62
		I. Crop Science	USA	1961	205	16.21
		II. Indian J. Genetics	India	1941	149	11.78
07	Genetics &	III. Heridity	Great	1947	74	5.85
	Plant		Britain			
	Breeding					

Image:							
Science Science Science 08 Horticulture I. Indian Journal of Horticulture India 1943 99 6.89 08 Horticulture I. Indian Journal of Agricultural Iran 1905 76 5.29 09 Pint Science USA 1955 6.1 4.24 10 Science Iran 1905 76 5.29 10 Potato Journal USA 1955 6.1 4.24 11 Indian Phyto-pathology USA 1911 126 11.6 11 Phyto-pathology USA 1911 126 11.6 11 Phyto-pathology USA 1917 74 6.82 11 No andian J. Phath pathology Canada 1979 30 2.76 10 Soil I. J. of Soil Science UKA 1936 72 14.49 10 Soil Science Soil Science Canada 1976 24 4.83			IV. Genetics	USA	1916	69	5.45
Science Science Science 08 Horticulture I. Indian Journal of Horticulture India 1943 99 6.89 08 Horticulture I. Indian Journal of Agricultural Iran 1905 76 5.29 09 Pint Science USA 1955 6.1 4.24 10 Science Iran 1905 76 5.29 10 Potato Journal USA 1955 6.1 4.24 11 Indian Phyto-pathology USA 1911 126 11.6 11 Phyto-pathology USA 1911 126 11.6 11 Phyto-pathology USA 1917 74 6.82 11 No andian J. Phath pathology Canada 1979 30 2.76 10 Soil I. J. of Soil Science UKA 1936 72 14.49 10 Soil Science Soil Science Canada 1976 24 4.83			V. Indian Journal of Agricultural	India	1931	61	4.82
Total citation (J), 1265 558 44.11 08 Horticulture Indian Journal of Horticulture Indian Journal of Horticulture Indian Journal of Horticulture Indian Journal of Agricultural Indian Journal Indian Journ							
Indian Journal of Horticulture India 1943 99 6.89 08 Horticulture Fill Horticulture Science USA 1966 87 6.05 101 Journal of Agricultural Iran 1905 76 5.29 11 Journal USA 1955 61 4.24 V. Bangladesh Horticulture Banglades 1973 54 3.76 1 Total citation (J), 1437 101 377 26.24 1 Indra Phyto-pathology USA 1911 126 11.61 10 Pathology V. Canadian J. Plant pathology Canada 1979 30 2.76 10 Soil Science USA 1936 72 14.49 11 Biotechnolo II. Soil Science Coitay of USA 1936 72 14.49 11 Biotechnolo II. American Journal USA 1989 33 6.64 11 Biotechnolo II. American Journal USA 1949 59 <						558	44 11
08 Horticulture II. Horticulture Science USA 1966 87 6.05 08 Horticulture Iran 1905 76 5.29 Science IV. Potato Journal USA 1955 61 4.24 V. Bangladesh Horticulture Banglades 1973 54 3.76 09 Plant I. Indian Phyto-pathology India 1948 149 13.73 10 Plant II. Phyto-pathology USA 1917 74 6.82 11. Bryto-pathology USA 1917 74 6.0 5.53 Pathology V. Canadian J. Plant pathology Canada 1977 30 2.76 Toral citation (J), 1085 439 40.46 15.29 11. Soil Science UK 1950 76 15.29 10 Soil I. J. of Soil Science UK 1950 72 14.49 11. Biotechnolo II. Plant coll Science Canada 1949 59 11.87 <				India	10/3		
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Science Science No. No. No. No. V. Potato Journal USA 1955 61 4.24 V. Bangladesh Horiculture h 1973 54 3.76 O Plant I. Indian Phyto-pathology India 1948 149 13.73 II. Phyto-pathology USA 1911 126 11.61 Pathology V. Bangladesh J. Plant Bang 1974 60 5.53 Pathology V. Canadian J. Plant pathology Canada 1979 30 2.76 Total citation (1), 1085 H 439 40.46 1.1 503 Science UK 1950 76 15.29 11.803 Science UK 1930 72 14.49 10 Soil Science UK 1950 76 15.29 11.803 Science UK 1930 72 14.49 10 Soil Science Canada 1956 24 4.83 17 17 <td>00</td> <td>II. at and and</td> <td></td> <td></td> <td></td> <td></td> <td></td>	00	II. at and and					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	08	Horticulture		Iran	1905	/6	5.29
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h h							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			V. Bangladesh Horticulture	Banglades	1973	54	3.76
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				h			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			Total citation (J), 1437			377	26.24
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			I. Indian Phyto-pathology	India	1948	149	13.73
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				USA	1911	126	11.61
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	09	Plant					
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Canada	1070	20	2.76
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Callaua	19/9		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				1.117	1050		
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10	a 11	2	USA	1936	72	14.49
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Science		Netherland	1949	59	11.87
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			IV. Soil Sc. Society of American	USA	1989	33	6.64
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			Proceedings				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			V. Canadian J. Soil Science	Canada	1956	24	4.83
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						264	53.12
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Ianan	1960		
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					1964	228	21.51
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			II. Compost Science & Utilization	USA	1993	72	6.79
.ntal ScienceIV. Bangladesh Rice Journal hBanglades h1995514.81V. Global Change BiologyUSA1972242.26Total citation (J) 106043340.85Fac. of Animal HusbandryI. GeneticsUSA19163201Animal Breeding & GeneticsII. Indian J. Animal ScienceIndia1924169.7001Animal Breeding & GeneticsIII. Indian Veterinary JournalIndia1924169.7002Animal NutritionII. Poultry ScienceUSA190855058.7602Animal NutritionII. British Poultry ScienceUK196011011.7502Animal NutritionII. Indian J. Poultry ScienceUK196011011.7501II. Indian J. Poultry ScienceIndia404.2702Animal NutritionII. Indian J. Poultry ScienceIndia404.2703Animal ScienceII. Ane. Leather Chemical 			III. Soil Sc. Soc. of American	USA	1989	58	5.47
.ntal ScienceIV. Bangladesh Rice Journal hBanglades h1995514.81V. Global Change BiologyUSA1972242.26Total citation (J) 106043340.85Fac. of Animal HusbandryI. GeneticsUSA19163219.3901Animal Breeding & GeneticsII. Indian J. Animal ScienceIndia1924169.7001Animal Breeding & GeneticsIII. Indian Veterinary JournalIndia1924169.701V. Animal ProductionUK1954148.487.27V. Small Rumminant ResearchNetherland1988127.27Total citation (J), 16510060.601. Poultry ScienceUSA190855058.7611. Indian J. Poultry ScienceIndia404.27IV. Poultry AbstractsUK1975161.71V. Bangladesh Journal of Animal ScienceNamila1978141.5003AnimalII. Leather ScienceIndia1954378.5103Animal ScienceII. Indian Journal of Animal ScienceIndia1954378.5103Animal ScienceII. Leather ScienceIndia1931327.36	12	Environme	Journal				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			IV. Bangladesh Rice Journal	Banglades	1995	51	4.81
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			1. Genetics	USA	1910	32	19.39
	nus	boallul y	II Indian I Animal Science	India	1021	26	1576
Breeding & GeneticsIV. Animal ProductionUK1954148.48V. Small Rumminant ResearchNetherland1988127.27Total citation (J), 16510060.60I. Poultry ScienceUSA190855058.76II. British Poultry ScienceUK196011011.75III. Indian J. Poultry ScienceIndia404.27IV. Poultry AbstractsUK1975161.71V. Bangladesh Journal of Animal ScienceBanglades1978141.50Total citation (J), 93673077.99II. J. Ame. Leather Chemical ScienceUSA19528519.54O3Animal ScienceII. Leather ScienceIndia1931327.36	01	Animal					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	01		¥				
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02Animal NutritionIII. Indian J. Poultry ScienceIndia404.27IV. Poultry AbstractsUK1975161.71V. Bangladesh Journal of Animal ScienceBanglades1978141.50Total citation (J), 93673077.99II. Leather Chemical ScienceUSA19528519.54II. Leather ScienceIndia1954378.51III. Indian Journal of Animal ScienceIndia1931327.36			II. British Poultry Science	UK	1960	110	11.75
NutritionIV. Poultry AbstractsUK1975161.71V. Bangladesh Journal of Animal ScienceBanglades h1978141.50Total citation (J), 93673077.99I. J. Ame. Leather Chemical Assoc.USA19528519.54II. Leather ScienceIndia1954378.51III. Indian Journal of Animal ScienceIndia1931327.36	02	Animal		India			
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03Animal ScienceII. Leather ScienceIndia1954378.51III. Indian Journal of Animal ScienceIndia1931327.36				USA	1952	65	19.54
ScienceIII. Indian Journal of Animal ScienceIndia1931327.36				x 1	1071		
Science	03						
		Science		India	1931	32	7.36
IV. Leather Technology Japan 1960 29 6.67						ļ	
			IV. Leather Technology	Japan	1960	29	6.67

		V. Journal of Agricultural	UK	1905	23	5.29
		Science			• • • •	1= 24
		Total citation (J), 435			206	47.36
		I. J. Animal Science	Banglades h	1968	105	34.54
04	Dairy	II. J. Dairy Science	USA	1917	48	15.79
	Science	III. Animal Production	UK	1954	39	12.83
	berenee	IV. Indian J. Dairy Science	India	1948	31	10.20
				1940		
		V. Newzealand J. Agricultural	Newzealan		14	4.61
		Resarch	d			
		Total citation (J), 304			237	77.96
		I. Poultry Science	USA	1908	92	19.37
		II. British Poultry Science	UK	1960	35	7.37
05	Poultry	III. Indian Journal of Animal	India	1931	30	6.32
	Science	Science				
		IV. Poultry Abstracts	UK	1975	26	5.47
		V. World Poultry Science Journal	UK	1975	16	3.37
			UK	1930		
		Total citation (J), 475		10.10	199	41.89
Agri Rur	il Econ. & al	I. Indian J. Agricultural Economics	India	1940	205	39.88
		II.Bangladesh J. of Agril.	Banglades	1980	38	7.39
		Economics	h			
01	Agricultural	III. American J. Agricultural	USA	1969	31	6.03
01	Economics	Economics	CON	1707	51	0.05
	Leononics	IV. Journal of of Economitrics	USA	1022	27	5.25
				1933		
		V. Bangladesh Development	Banglades	1973	23	4.47
		Studies	h			
		Total citation (J), 514			324	63.04
		I. Indian J. of Agricultural	India	1940	105	67.30
		Economics				
02	Agricultural	II. Bangladesh J. of Agricultural	Banglades	1987	18	11.54
	Finance	Economics	h			
		III. Bangladesh Development	Banglades	1973	12	7.69
		Studies	h	1775	12	1.09
		IV. J. of Farm Economics	USA	1897	09	5.77
		V. Economic & Political Weekly	India	1966	06	3.85
		Total citation (J), 156			150	96.15
		I. Indian J. of Agril . Economics	India	1940	45	11.19
		II. Bangladesh Dev. studies	Banglades	1973	23	5.72
			h			
		III. American J. of Agril	USA	1969	15	3.73
03	Agri	Economics			_	
05	Business	IV. Bangladesh J. of Agril.	Banglades	1980	12	2.99
		Economics	h	1700	12	2.77
		V. Econometrica	USA	1933	08	1.99
			USA	1955		
		Total citations (J), 402			103	25.62
0	il Eng. &	I. J. of Agricultural Engi.			63	29.30
Tech	n.	Research				
		II. J. of Food Engineering	USA	1928	39	18.14
		III. Drying Technology	USA	1983	33	15.35
01	Farm power	IV. J. Food Technology	India	1966	30	13.95
.	&	V. Energy	USA	1956	28	13.02
	Machinery	Total citation (J), 215			193	89.76
\vdash	5	I. Potato Abstracts	UK	1976	55	15.90
02	Ini antin 0	II. J. of Indian Potato Assoc.	India	1974	42	12.14
02	Irrigation &	III. Agronomy Journal	USA	1907	35	10.12
	Water	IV. Field Crop Abstracts	UK	1948	30	8.67
	Manageme	V. American Potato Journal	USA	1973	21	6.07
	nt	Total citation (J), 346			183	52.89
0.2	Food	I. Journal of Food Sc. &	UK	1994	25	17.01
03	Technology	Technology				
L	1.000069		1	1	1	L

		II. Journal of Food Science	Canada	1956	13	8.84
		III. Journal of Food Engineering	USA	1928	12	8.16
		IV. Indian Food Packers	India	1986	08	5.44
		V. Chemical Engineering Science	UK	1951	06	4.08
		Total citations (J). 147			64	43.54
Fac	ulty of	I. Hydrobiology	Netherland	1985	88	6.46
Fish	eries					
		II. American Fish Society	USA	1870	86	6.31
		III. Aquaculture	UK	1972	85	6.24
01	Aquacultur	IV. J. of Fish Research	Netherland	1982	68	4.99
	e	V. J. of Fish Biology	UK	1956	48	3.52
		Total citation (J), 1363			375	27.51
		I. Aquaculture	UK	1972	72	10.54
		II. Indian J. Fisheries	India	1954	24	3.51
02	Fisheries	III. Canadian J. of Zoology	Canada	1929	18	2.64
	Biology &	IV. Bangladesh J. of Zoology	Banglades	1973	12	1.76
	Genetics		h			
		V. Bangladesh J of Fisheries	Banglades	1986	08	1.17
		C C	h			
		Total citation (J), 683			134	19.62
		I. Bangladesh J. of Zoology	Banglades	1973	180	18.89
			h			
03	Fisheries	II. J. Inland Fisheries Society of	India	1965	105	11.02
	Manageme	India				
	nt	III. Bangladesh J. of Fisheries	Banglades	1986	72	7.56
		_	h			
		IV. Bangladesh J. Agricultural	Banglades	1974	47	4.93
		Science	h			
		V. Indian Journal of Fisheries	India	1954	19	1.99
		Total citation (J), 953			423	44.39
		I. Aquaculture	UK	1972	54	23.89
		II. J. of Marine Biology	Germany	1967	21	9.29
04	Fisheries	III. Aqua Engineering	UK	1982	18	7.96
	Technology	IV. J. Expert Biology.	UK	1923	15	6.64
		V. J. Indian Aquaculture Society	India	1986	15	6.64
		Total citation (J), 226			123	54.42

Table-6

SI.	Ran	commonly cited journals in A Name of the journals	Year	Country	No. of	Cumul	Percenta	Cumul
Ν	k	U U	of	of origin	citation		ge (%)	•
0.	No.		found.		S	no. of citatio ns		%
1	1	Poultry Science	1908	USA	642	-	7.13	-
2	2	Indian J. of Agronomy	1956	India	373	1015	4.14	11.27
3	5	J. of Agricultural Sc.	1905	Iran	253	1268	2.81	14.08
4	6	Crop Science	1961	USA	253	1521	2.81	16.89
5		Agril. & Forest Meterology	1964	Netherlan d	228	1749	2.53	19.42
6	3	Avian Diseases	1957	USA	226	1975	2.51	21.93
7	20	Agronomy Journal	1907	USA	220	2195	2.44	24.37
8	9	Aquaculture	1972	UK	211	2406	2.34	26.71
9	15	Plant Physiology	1926	India	210	2616	2.33	29.04
10	11	Indian J. of Agricultural Science	1931	India	208	2824	2.31	31.35
11	23	J. Animal Science	1942	USA	195	3019	2.17	33.52
12	41	Bangladesh J. of Zoology	1973	Banglade sh	192	3211	2.13	35.65
13	14	Journal of Soil Science	1950	UK	183	3394	2.03	37.68
14	21	Field Crops Abstracts	1948	UK	182	3576	2.02	39.70

		5						
15	16	Indian J. Extension Education	1965	India	180	3757	2.00	41.70
16	10	Veterinary Record	1888	UK	176	3932	1.95	43.65
17	12	Journal of Dairy Science	1917	USA	176	4108	1.95	45.60
18	4	Indian J. Agril. Economics	1940	India	149	4257	1.65	47.25
19	22	Indian J. of Genetics	1941	India	149	4406	1.65	48.90
20	24	Indian Phytopathology	1948	India	149	4555	1.65	50.55
21	13	British Poultry Science	1960	UK	145	4700	1.61	52.16
22	17	Indian Veterinary Journal	1924	India	144	4844	1.60	53.76
23	8	Indian J. of Animal Science	1931	India	140	4984	1.55	55.31
24	28	Phytopathology	1911	USA	126	5110	1.40	56.71
25	29	Plant & Soil	1949	Netherlan d	110	5220	1.22	57.93
26		Plant Cell Tissue Cult.	1960	Japan	108	5328	1.20	59.13
27	52	J. Inland Fish. Soc.of India	1965	India	105	5433	1.17	60.30
28	26	Genetics	1916	USA	101	5534	1.12	61.42
29	33	Indian Journal of Horticulture	1943	India	099	5633	1.10	62.52
30		Plant Cell Report	1981	German	096	5729	1.07	63.59
31	18	Hydrobiology.	1985	India	088	5817	0.98	64.57
32	34	Horticulture Science	1966	USA	087	5904	0.97	65.54
33	19	American Fisheries Society	1870	USA	086	5990	0.96	66.50
34	25	J. Am. Leather & Chem. Assoc.	1952	USA	085	6075	0.94	67.44
35	50	Bangladesh J. of Fisheries	1986	Banglade sh	080	6155	0.89	68.33
36	73	Soil Sc. Soc. of Ame. Proc.	1989	USA	078	6233	0.87	79.20
37	39	Heredity	1947	UK	074	6307	0.82	70.02
38	40	Plant Disease	1917	USA	074	6381	0.82	70.84
39		Compost Science & Uti.	1993	USA	072	6453	0.80	71.64
40	31	Soil Sc. of American Journal	1936	USA	072	6525	0.80	72.44
41	27	J. of Fisheries Research	1982	Netherlan d	068	6593	0.76	73.20
42	7	Int. Rice Research Newsletter	1974	Philippin e	065	6658	0.72	73.92
43	45	J. of Agril. Eng. Research	1920	UK	063	6721	0.70	74.62
44	42	Potato Journal	1955	USA	061	6782	0.68	75.30
45	49	Bangladesh J. of Plant Pathology	1974	Banglad esh	060	6842	0.67	75.97
46	38	Bangladesh J. Agril. Econ.	1987	Banglad esh	056	6898	0.62	76.59
47	65	Potato Abstracts	1976	UK	055	6953	0.61	77.20
48	35	J. Am Vet. Medical Association	1877	USA	055	7008	0.61	77.81
49	47	Bangladesh Horticulture	1973	Banglad esh	054	7062	0.60	78.41
50	36	American J. Veterinary Research	1940	USA	052	7114	0.58	78.99
51		Bangladesh Rice J.	1995	Banglade sh	051	7165	0.57	79.56
52	37	Theriogenology	1974	USA	050	7215	0.56	80.12
53	32	J. of Fish Biology	1956	UK	048	7263	0.53	80.65
54		Potato Research	1955	USA	047	7310	0.52	81.17
55	57	Biochemistry	1964	USA	047	7357	0.52	81.69
56	70	Bangladesh J. of Agril. Sc.	1974	Banglade	047	7404	0.52	82.21
57	61	J. Applied Psychology	1951	USA	045	7449	0.50	82.71

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3		58	J. of Agricultural Science	1905	UK	016	8792	0.18	97.63
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10	84	World Poultry Science	1936	UK	016	8808	0.18	97.81
4 10	98	Journal J. of Experimental Biology	1923	UK	015	8823	0.17	97.98
5	70	J. Of Experimental Diology	1723	OK	015	0025	0.17	71.70
10	99	J. of Inland Aqua. Society	1986	India	015	8838	0.17	98.15
6 10	30	Journal of Animal Science	1968	Banglade	014	8852	0.16	98.31
7	50	Journal of Annual Science	1908	sh	014	0052	0.10	90.51
10	89	Animal Production	1954	UK	014	8866	0.16	98.47
8 10	97	NZ J. of Agricultural	1936	Newzela	014	8880	0.16	98.63
9	91	Research	1930	nd	014	0000	0.10	98.05
11		J. of Food Science	1956	Canada	013	8893	0.14	98.77
0	101		1070	To 1's	012	9005	0.12	00.00
11 1	101	Indian J. of Public Admn	1979	India	012	8905	0.13	98.90
11	90	Small Ruminant Research	1988	Netherlan	012	8917	0.13	99.03
2			10.10	d				
11 3		Bang. J. Animal Sc.	1968	Banglade sh	012	8929	0.13	99.16
11	95	Acta Anatomy	1945	Swizerlan	010	8939	0.11	99.27
4				d				
11 5	96	Indian J. of Veterinary Science	1924	India	010	8949	0.11	99.38
11	102	Pakistan J. of Agril	1949	Pakistan	009	8958	0.10	99.48
6		Research						
11 7	103	J. of Farm Economics	1897	USA	009	8967	0.10	99.58
/ 11		Indian Food Packers	1986	India	008	8975	0.09	99.67
8								
11	100	Journal of Protozoology	1954	USA	007	8983	0.09	99.76
9 12		Chemical Engineering Sc.	1951	UK	007	8990	0.08	99.84
0		Chemical Engineering De.			007	0770	0.00	JJ.07
12	106	Economic & Political	1966	India	007	8997	0.08	99.92
1 12	104	Weekly J. of American Society	1910	USA	007	9004	0.08	100
$\frac{12}{2}$	104	J. Of American Society	1910	USA	007	9004	0.00	100
		Total						

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