



Mapping world Pearl Millet research published during 2001-2010

**Databases used: *Web of Science – SCIE and
CAB Abstracts (WoS platform)***

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Databases used: *Web of Science – SCIE* and *CAB Abstracts (WoS platform)*

Keywords used: "Pearl Millet" OR "Pennisetum Glaucum" OR "Pennisetum Americanum" OR "Pennisetum Typhoides" OR "Bajra" OR "Bajrix" OR "Bulrush Millet"

Search field(s): Title

Date of data collection: 19 October, 2013

Web of Science – SCIE : 489 are journal papers
CAB Abstracts : 1337 are journal papers

In this study only the 489 and 1337 journal papers gathered respectively from WoS-SCIE and CAB Abstracts are considered for analysis.

18 tables and one Venn diagram

The report was prepared by M Madhan (Library) and K Siva Shankar (Library)

Table 1. Pearl millet research papers published in journals during 2001-2010 – Data as seen from *WoS-SCIE* and *CAB Abstracts*

Year	Web of Science - SCIE			CAB Abstracts	
	No. of journals	No. of papers	Sum of citations	No. of journals	No. of papers
2001	35	47	394	71	126
2002	31	49	351	59	115
2003	28	43	390	67	130
2004	34	45	378	73	121
2005	37	52	383	82	146
2006	38	50	302	83	139
2007	37	47	289	98	162
2008	36	57	195	74	124
2009	34	43	193	87	125
2010	40	56	177	88	149
		489	3052		1337

Fig 1. Coverage of world pearl millet research published in journals in two databases during 2001-2010

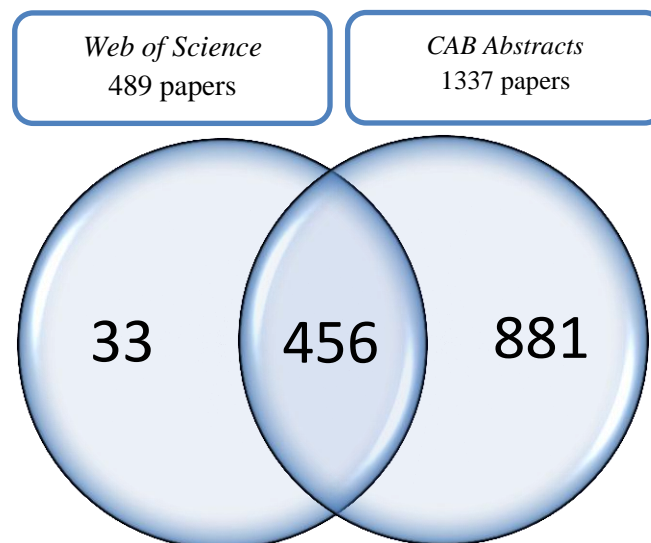


Table 2. Pearl millet research papers published during 2001-2010 classified by journals (with at least 10 papers) – Data as seen from WoS – SCIE

Journal	Publishing country	Impact factor	No. of papers	No. of cited papers	Sum of citations	Cites per paper
Indian Journal of Agricultural Sciences	India	0.156	35	22	46	1.31
Crop Science	USA	2.020	21	16	130	6.19
Research on Crops	India	0.036	18	1	1	0.06
Field Crops Research	Netherlands	2.232	17	17	181	10.65
Euphytica	Netherlands	1.597	14	13	96	6.86
Indian Journal of Agronomy	India	0.000	13	7	19	1.46
Theoretical and Applied Genetics	USA	3.264	13	13	294	22.62
Crop Protection	England	1.517	10	10	115	11.50
Experimental Agriculture	USA	0.857	10	10	44	4.40
Journal of Food Science and Technology-Mysore	India	0.477	10	8	13	1.30
African Journal of Biotechnology	Kenya	0.573	8	4	20	2.50
Food Chemistry	England	3.458	8	8	105	13.13
Indian Journal of Genetics and Plant Breeding	India	0.141	8	3	6	0.75
Plant Disease	USA	2.387	8	6	43	5.38
Plant Science	Ireland	2.481	8	8	115	14.38
Genetic Resources and Crop Evolution	Netherlands	1.538	6	5	31	5.17
Indian Journal of Animal Sciences	India	0.147	6	1	2	0.33
Journal of Agrometeorology	India	0.142	6	1	1	0.17
Journal of Plant Biochemistry and Biotechnology	India	0.412	6	4	8	1.33
Plant Breeding	Germany	1.391	6	6	49	8.17
Plant Cell Reports	USA	2.279	6	6	106	17.67
Plant Production Science	Japan	0.925	6	6	68	11.33
Animal Nutrition and Feed Technology	India	0.188	5	3	4	0.80
Canadian Journal of Animal Science	Canada	0.927	5	4	41	8.20
Pest Management Science	England	2.313	5	5	56	11.20
53 journals with 4-2 papers			141	117	906	6.43
90 journals with 1 paper each			90	68	552	6.13
Total = 168			489	372	3052	6.24

Table 3. Pearl millet research papers published during 2001-2010 classified by impact factor from *Journal Citation Reports 2010*

IF range of journals	No. of journals (WoS)	No. of papers (WoS)	No. of cited papers	Sum of times cited	Cites per paper
0	12	34	17	55	1.62
0.001-0.499	33	126	61	124	0.98
0.500-0.999	34	83	64	399	4.81
1.000-1.499	20	37	35	197	5.32
1.500-1.999	19	60	57	458	7.63
2.000-2.499	22	91	81	879	9.66
2.500-2.999	10	16	16	137	8.56
3.000-3.499	7	28	28	502	17.93
3.500-3.999	2	2	2	53	26.50
4.000-4.999	5	6	5	78	13.00
4.500-6.499	2	4	4	111	27.75
6.500-9.999	2	2	2	59	29.50
Total	168	489	372	3052	6.24

Table 4. Country of publication of journals used by world pearl millet researchers during 2001-2010 - Data as seen from WoS-SCIE

Country	No. of journals	No. of papers	No. of cited papers	Sum of citations	Cites per paper
India	22	126	58	158	1.25
USA	45	121	107	1133	9.36
Netherlands	25	81	77	611	7.54
England	27	62	58	624	10.06
Germany	13	20	15	109	5.45
Canada	4	9	7	50	5.56
Brazil	5	8	3	12	1.50
Ireland	1	8	8	115	14.38
Kenya	1	8	4	20	2.50
France	4	7	7	56	8.00
Japan	2	7	6	68	9.71
Australia	3	6	5	45	7.50
Israel	2	4	2	5	1.25
Nigeria	1	4	3	6	1.50
South Korea	2	4	3	19	4.75
Hungary	2	3	2	3	1.00
Finland	1	2	1	1	0.50
Italy	2	2	1	1	0.50
Switzerland	1	2	2	3	1.50
Belgium	1	1	1	6	6.00
Bulgaria	1	1	0	0	0.00
Chile	1	1	0	0	0.00
Outh Africa	1	1	1	5	5.00
Venezuela	1	1	1	2	2.00
	168	489	372	3052	6.24

Table 5. Pearl millet research papers published during 2001-2010 classified by institutions (with at least 5 papers) in the byline- Data as seen from WoS-SCIE

Institution	Country	No. of journals	No. of papers	No. of cited papers	Sum of citations	Cites per paper
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru	India	33	79	74	705	8.92
Chaudhary Charan Singh Haryana Agricultural University, Hisar	India	24	48	27	125	2.60
University of Mysore, Mysore	India	20	48	44	413	8.60
Swami Keshwanand Rajasthan Agricultural University, Bikaner	India	12	24	14	41	1.71
Central Arid Zone Research Institute, Jodhpur	India	11	22	17	94	4.27
University of Georgia, Athens	USA	12	21	19	205	9.76
Indian Agricultural Research Institute, New Delhi	India	9	19	14	29	1.53
Institut de Recherche pour le Développement, Montpellier	France	11	17	17	302	17.76
United States Department of Agriculture, Washington, DC	USA	11	17	14	124	7.29
University of Nebraska, Lincoln	USA	7	16	12	128	8.00
University of Maiduguri, Maiduguri	Nigeria	8	12	11	45	3.75
International Centre for Genetic Engineering and Biotechnology, New Delhi	India	9	11	11	148	13.45
Junagadh Agricultural University, Junagadh	India	4	9	3	11	1.22
Tamil Nadu Agricultural University, Coimbatore	India	9	9	5	36	4.00
University of Hohenheim, Stuttgart	Germany	8	9	9	62	6.89
Anand Agricultural University, Anand	India	6	8	1	2	0.25
Central Food Technological Research Institute, Mysore	India	8	8	7	80	10.00
Council for Scientific and Industrial Research, Pretoria	South Africa	6	8	8	107	13.38
Ahmadu Bello University, Zaria	Nigeria	6	7	2	5	0.71
EmbrapaGadoLeite, Juiz De Fora	Brazil	5	7	3	24	3.43
Institute of Grassland and Environmental Research, Aberystwyth	Wales	6	7	7	144	20.57
McGill University, Montreal	Canada	3	7	5	23	3.29
Texas A&M University, Texas	USA	6	7	6	23	3.29
University of Agriculture Faisalabad, Faisalabad	Pakistan	5	7	7	68	9.71
Agriculture and Agri-Food Canada, Ottawa	Canada	6	6	6	56	9.33
Federal University of Lavras, Lavras	Brazil	4	6	3	24	4.00
John Innes Centre, Norwich	England	3	6	6	179	29.83
Mahatma PhuleKrishiVidyapeeth, Rahuri	India	5	6	2	7	1.17
University of Khartoum, Shambat	Sudan	3	6	6	45	7.50
University of Pretoria, Pretoria	South Africa	5	6	6	37	6.17
AbubakarTafawaBalewa University, Bauchi	Nigeria	5	5	5	26	5.20
Agriculture Environmental Renewal Canada, Ottawa	Canada	5	5	5	35	7.00
All India Coordinated Pearl Millet Improvement Project, Jodhpur	India	4	5	5	50	10.00
Commonwealth Scientific and Industrial Research Organisation (CSIRO), Clayton South VIC	Australia	2	5	5	70	14.00
International Livestock Research Institute, Patancheru	India	1	5	5	48	9.60
L'Institut de Recherche en Sciences Appliquées et Technologies, Ouagadougou	Burkina Faso	4	5	5	36	7.20
Max-Planck-Institute for Chemical Ecology, Jena	Germany	5	5	5	46	9.20
Nagoya University, Nagoya	Japan	1	5	5	48	9.60
University of Wageningen, Wageningen	Netherlands	5	5	5	48	9.60
231 other institutions						
Total 270 institutions						

Institution	Country	A	B	C	D	E	F	G	H	I	J	K	L	No. of papers
University of Khartoum, Shambat	Sudan	0	1	2	0	0	0	3	0	0	0	0	0	6
University of Pretoria, Pretoria	South Africa	0	2	3	0	0	0	0	1	0	0	0	0	6
AbubakarTafawaBalewa University, Bauchi	Nigeria	1	2	1	0	0	0	1	0	0	0	0	0	5
Agriculture Environmental Renewal Canada, Ottawa	Canada	1	3	0	0	1	0	0	0	0	0	0	0	5
All India Coordinated Pearl Millet Improvement Project, Jodhpur	India	2	0	0	1	1	0	1	0	0	0	0	0	5
Commonwealth Scientific and Industrial Research Organisation (CSIRO), Clayton South VIC	Australia	0	0	0	0	5	0	0	0	0	0	0	0	5
International Livestock Research Institute, Patancheru	India	0	0	0	0	5	0	0	0	0	0	0	0	5
L'Institut de Recherche en Sciences Appliquées et Technologies, Ouagadougou	Burkina Faso	1	1	0	1	0	0	2	0	0	0	0	0	5
Max-Planck-Institute for Chemical Ecology, Jena	Germany	0	0	1	1	0	0	2	0	1	0	0	0	5
Nagoya University, Nagoya	Japan	0	5	0	0	0	0	0	0	0	0	0	0	5
University of Wageningen, Wageningen	Netherlands	0	0	1	1	1	1	0	0	0	1	0	0	5
231 other institutions														
A= 0.001- 0.499; B=0.500 - 0.999; C=1.000 - 1.499; D=1.500 - 1.999; E=2.000 - 2.499; F=2.500 - 2.999; G=3.000 - 3.499; H= 3.500 - 3.999; I= 4.000 - 4.499 J=4.400 - 6.499; K=6.500 - 8.999; L=0.000														

Table 7. Pearl millet research papers published during 2001-2010 classified by countries (top 21 countries) in the byline- Data as seen from WoS-SCIE

Country	No. of institutions	No. of journals	No. of papers	No. of cited papers	Sum of citations	Cites per paper
India	69	102	304	217	1606	5.28
USA	22	35	67	54	487	7.27
Nigeria	10	19	25	19	99	3.96
France	9	13	22	22	343	15.59
Germany	10	20	22	22	212	9.64
Japan	15	14	19	16	124	6.53
Brazil	13	11	15	8	53	3.53
Canada	8	9	15	12	102	6.80
England	8	7	15	14	284	18.93
Niger	8	10	12	12	135	11.25
Pakistan	12	8	11	9	70	6.36
Wales	3	9	11	11	217	19.73
South Africa	6	8	10	10	112	11.20
Burkina Faso	3	7	9	9	87	9.67
Australia	5	4	8	7	98	12.25
Belgium	5	6	8	7	34	4.25
Sudan	5	5	8	8	50	6.25
Netherlands	3	6	6	6	51	8.50
Senegal	5	6	6	5	11	1.83
Ghana	3	5	5	3	40	8.00
Tunisia	5	3	5	4	38	7.60
31 more countries						

Table 8. Pearl millet research papers published by Indian researchers during 2001-2010 classified by states- Data as seen from WoS-SCIE

State	No. of Institutes	No. of journals	No. of papers	No. of cited papers	Sum of citations
Andhra Pradesh		42	93	84	775
Karnataka		31	61	51	474
Rajasthan		23	53	36	172
Haryana		24	48	27	125
Delhi		20	34	29	188
Gujarat		9	18	5	23
Uttar Pradesh		10	15	9	18
Tamil Nadu		11	11	4	14
Maharashtra		9	10	5	15
TamilNadu		3	3	3	44
Puducherry		2	2	0	0
Punjab		2	2	1	2
Uttarakhand		2	2	2	7
Himachal Pradesh		1	1	1	10
Madhya Pradesh		1	1	1	5
Odisha		1	1	1	1
West Bengal		1	1	0	0

Table 9. Pearl millet research papers published during 2001-2010 classified by countries classified by WoSSubfields

Subfield	No. of journals	No. of papers	No. of cited papers	Sum of citations	Cites per paper
Agronomy	32	181	142	1262	6.97
Plant Sciences	53	152	128	1351	8.89
Agriculture, Multidisciplinary	17	63	40	180	2.86
Food Science & Technology	22	56	50	337	6.02
Genetics & Heredity	12	36	29	434	12.06
Agriculture, Dairy & Animal Science	12	34	18	98	2.88
Horticulture	6	34	33	437	12.85
Biochemistry & Molecular Biology	15	31	28	303	9.77
Biotechnology & Applied Microbiology	11	23	15	148	6.43
Chemistry, Applied	5	19	19	193	10.16
Entomology	6	14	14	98	7.00
Nutrition & Dietetics	4	13	12	125	9.62
Soil Science	9	13	13	56	4.31
Meteorology & Atmospheric Sciences	2	7	1	1	0.14
Microbiology	5	7	6	103	14.71
Multidisciplinary Sciences	2	6	3	7	1.17
Veterinary Sciences	4	5	1	1	0.20
23 more subfields					

Table 10. Matrix of top 6 pearl millet research producing countries and the countries that they collaborate with
(No. of papers, Sum of citations, Cites/Paper)

Collaborating countries	France	Germany	India	Japan	Nigeria	USA
Algeria	(1, 2, 2.00)					
Australia		(1, 15, 15.00)	(6, 83, 13.83)			
Austria			(1, 20, 20.00)			(1, 20, 20.00)
Bangladesh			(1, 1, 1.00)			
Belgium	(1, 2, 2.00)	(1, 10, 10.00)	(5, 26, 5.20)			
Benin			(1, 5, 5.00)			
Bolivia	(1, 3, 3.00)					
Brazil			(1, 2, 2.00)	(1, 0, 0.00)		
Burkina Faso	(5, 61, 12.20)	(1, 13, 13.00)	(3, 25, 8.33)		(1, 1, 1.00)	(2, 7, 3.50)
Canada						(1, 5, 5.00)
Czech Republic			(2, 74, 37.00)		(1, 36, 36.00)	
Denmark			(4, 18, 4.50)			
England	(1, 23, 23.00)		(6, 138, 23.00)	(2, 1, 0.50)		(3, 70, 23.33)
Eritrea			(1, 2, 2.00)			
France	(22, 343, 15.59)		(2, 47, 23.50)			(1, 21, 21.00)
Germany		(22, 212, 9.64)	(12, 97, 8.08)			(2, 4, 2.00)
Ghana			(2, 38, 19.00)		(2, 2, 1.00)	(2, 39, 19.50)
Hungary			(1, 1, 1.00)			
India	(2, 47, 23.50)	(12, 97, 8.08)	(304, 1606, 5.28)	(4, 16, 4.00)	(2, 36, 18.00)	(19, 169, 8.89)
Ireland	(1, 4, 4.00)					
Italy			(3, 43, 14.33)			
Japan			(4, 16, 4.00)	(19, 124, 6.53)		
Jordan	(1, 1, 1.00)					
Kenya		(1, 10, 10.00)	(2, 16, 8.00)			
Laos	(1, 10, 10.00)		(1, 1, 1.00)			
Mali			(1, 6, 6.00)		(2, 2, 1.00)	(1, 1, 1.00)
Mexico			(1, 6, 6.00)			(1, 6, 6.00))
Namibia				(2, 13, 6.50)		(1, 2, 2.00)
Netherlands			(1, 3, 3.00)			
Niger	(5, 103, 20.60)		(4, 55, 13.75)		(2, 2, 1.00)	(3, 21, 7.00)
Nigeria			(2, 36, 18.00)		(25, 99, 3.96)	(1, 1, 1.00)
Pakistan				(2, 1, 0.50)		

Collaborating countries	France	Germany	India	Japan	Nigeria	USA
Peoples R China						(1, 9, 9.00)
Philippines			(1, 6, 6.00)			
Scotland			(1, 38, 38.00)			(1, 38, 38.00)
Senegal				(2, 2, 1.00)	(2, 2, 1.00)	(1, 1, 1.00)
South Africa		(2, 27, 13.50)				(2, 5, 2.50)
South Korea			(1, 9, 9.00)			
Sudan			(2, 5, 2.50)	(1, 3, 3.00)		
Trinidad & Tobago					(2, 5, 2.50)	
Tunisia	(2, 24, 12.00)					
U Arab Emirates			(1, 6, 6.00)			
USA	(1, 21, 21.00)	(2, 4, 2.00)	(19, 169, 8.89)		(1, 1, 1.00)	(67, 487, 7.27)
Wales		(1, 15, 15.00)	(9, 195, 21.67)		(1, 36, 36.00)	(2, 46, 23.00)
XXX					(1, 0, 0.00)	
Zambia					(1, 1, 1.00)	(1, 1, 1.00)

Table 11.1 International Crops Research Institute for the Semi-Arid Tropics, Patancheru, India

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	33	79	705	8.92
Central Arid Zone Research Institute, Jodhpur	6	7	46	6.57
Chaudhary Charan Singh Haryana Agricultural University, Hisar	5	7	77	11.00
Institute of Grassland and Environmental Research, Aberystwyth	6	7	144	20.57
University of Hohenheim, Stuttgart	5	6	42	7.00
Commonwealth Scientific and Industrial Research Organisation (CSIRO), Clayton South VIC	2	5	70	14.00
International Livestock Research Institute, Patancheru	1	5	48	9.60
CIRAD, Montpellier	3	3	60	20.00
Cargill Animal Nutrition European Laboratory, Spessa	1	3	43	14.33
Catholic University, Louvain	2	3	14	4.67
John Innes Centre, Norwich	3	3	80	26.67
Tamil Nadu Agricultural University, Coimbatore	3	3	13	4.33
University of Georgia, Athens	2	3	70	23.33
University of Queensland, Brisbane	1	3	40	13.33
Agricultural Research Corporation, Wad Madani	2	2	5	2.50
All India Coordinated Pearl Millet Improvement Project, Jodhpur	2	2	23	11.50
Charles University, Prague	1	2	74	37.00
Institut de Recherche pour le Développement, Montpellier	2	2	47	23.50
Istituto Nazionale di Ricerca per gli Alimenti e la Nutrizione, Niamey	2	2	47	23.50
Junagadh Agricultural University, Junagadh	2	2	10	5.00
L'Institut de recherche pour le développement, Niamey	2	2	47	23.50
University of Mysore, Mysore	2	2	6	3.00
11 Albany Rd, Old Windsor SL4 2QD, Berks, England	1	1	43	43.00
Aberystwyth University, Aberystwyth	1	1	36	36.00
Acharya N G Ranga Agricultural University, Rajendranagar	1	1	2	2.00
African Agricultural Technology Foundation, Nairobi	1	1	6	6.00
Andhra University, Visakhapatnam	1	1	0	0.00
Antwerp Institute of Tropical Medicinem, Antwerp	1	1	2	2.00
Brigham Young University, Provo	1	1	1	1.00
Central Food Technological Research Institute, Mysore	1	1	0	0.00
Chaudhary Sarwan Kumar Himachal Pradesh Agricultural University, Palampur	1	1	10	10.00
Clemson University, Clemson	1	1	6	6.00
College of Agriculture, Pune	1	1	6	6.00
Department of Agricultural Research and Human Resource Development, Asmera	1	1	2	2.00
Fordham University, Bronx	1	1	1	1.00
Indian Grassland and Fodder Research Institute, Dharwad	1	1	1	1.00
Indian Institute of Science, Bangalore	1	1	0	0.00
Institut National de Recherches Agronomiques du Niger, Niamey	1	1	6	6.00
Institute of Rural Economy, Bamako	1	1	6	6.00

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
International Atomic Energy Agency, Vienna	1	1	20	20.00
International Center for Biosaline Agriculture, Dubai	1	1	6	6.00
International Institute of Tropical Agriculture, Ibadan	1	1	36	36.00
International Livestock Research Institute, Niamey	1	1	2	2.00
International Maize and Wheat Improvement Center, Mexico City	1	1	6	6.00
International Rice Research Institute, Manila	1	1	6	6.00
Japan International Research Center for Agricultural Sciences, Tsukuba	1	1	0	0.00
Kansas State University, Manhattan	1	1	0	0.00
Katholieke Universiteit Leuven, Leuven	1	1	10	10.00
La Trobe University, Victoria	1	1	15	15.00
Lao-IRRI Project, Vientiane	1	1	1	1.00
L'Institut de Recherche en Sciences Appliquées et Technologies, Ouagadougou	1	1	6	6.00
Maharashtra Hybrid Seed Co, Jalna	1	1	6	6.00
Mahatma Phule Krishi Vidyapeeth, Rahuri	1	1	6	6.00
Marathwada Agricultural University, Parbhani	1	1	6	6.00
Max-Planck-Institute for Chemical Ecology, Jena	1	1	3	3.00
National Chemical Laboratory, Pune	1	1	4	4.00
National Institute of Agrobiological Sciences, Tsukuba	1	1	1	1.00
National Institute of Nutrition, Hyderabad	1	1	6	6.00
Oak Ridge Biotech, Tennessee	1	1	0	0.00
Osmania University, Hyderabad	1	1	22	22.00
Pennsylvania State University, Philadelphia	1	1	20	20.00
Savanna Agricultural Research Institute, Nyankpala Tamale	1	1	38	38.00
Scottish Crop Research Institute, Dundee	1	1	38	38.00
Swami Keshwanand Rajasthan Agricultural University, Bikaner	1	1	6	6.00
University of Bonn, Bonn	1	1	10	10.00
University of California, Davis	1	1	6	6.00
University of Gezira, Wad Madani	1	1	3	3.00
University of Hyderabad, Hyderabad	1	1	6	6.00
University of Kassel, Witzenhausen	1	1	2	2.00
University of Maiduguri, Maiduguri	1	1	0	0.00
University of Nebraska, Lincoln	1	1	7	7.00
University of Nottingham, Nottingham	1	1	6	6.00
University of Reading, Berkshire	1	1	9	9.00
University of Tokyo, Tokyo	1	1	0	0.00
University of Wales, Wales	1	1	15	15.00
Université d'Abomey-Calavi, Cotonou	1	1	5	5.00
Winrock International, Bamako	1	1	6	6.00
World Agroforestry Centre, Kenya	1	1	10	10.00
l'institut de l'environnement et de recherches agricoles, Ouagadougou	1	1	6	6.00
Total = 79				

Table 11.2 University of Mysore, Mysore

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
University of Mysore, Mysore	20	48	413	8.60
Max-Planck-Institute for Chemical Ecology, Jena	4	4	43	10.75
The Royal Veterinary and Agricultural University, Copenhagen	3	3	10	3.33
Arkansas State University, Jonesboro	2	2	5	2.50
Central Food Technological Research Institute, Mysore	2	2	26	13.00
Indian Institute of Science, Bangalore	2	2	1	0.50
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	2	2	6	3.00
Acharya N G Ranga Agricultural University, Rajendranagar	1	1	10	10.00
Auburn University, Auburn	1	1	18	18.00
Chaudhary Charan Singh Haryana Agricultural University, Hisar	1	1	6	6.00
College of Agriculture, Pune	1	1	6	6.00
Hungarian Academy of Sciences, Budapest	1	1	1	1.00
Ishihara Sangyo Kaisha Ltd, Shiga	1	1	2	2.00
Junagadh Agricultural University, Junagadh	1	1	6	6.00
Leibniz Institute of Plant Biochemistry, Halle	1	1	23	23.00
Maharashtra Hybrid Seed Co, Jalna	1	1	6	6.00
Mahatma PhuleKrishiVidyapeeth, Rahuri	1	1	6	6.00
Marathwada Agricultural University, Parabhani	1	1	6	6.00
Meiji Seika Kaisha Ltd, Saitama	1	1	13	13.00
Swami Keshwanand Rajasthan Agricultural University, Bikaner	1	1	6	6.00
Tamil Nadu Agricultural University, Coimbatore	1	1	6	6.00
University of California, Davis	1	1	6	6.00
University of Copenhagen, Copenhagen	1	1	8	8.00
University of Groningen, Groningen	1	1	3	3.00
l'institut de l'environnement et de recherches agricoles, Ouagadougou	1	1	6	6.00
Total = 25				

Table 11.3 Chaudhary Charan Singh Haryana Agricultural University, Hisar

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
Chaudhary Charan Singh Haryana Agricultural University, Hisar	24	48	125	2.60
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	5	7	77	11.00
All India Coordinated Pearl Millet Improvement Project, Jodhpur	1	1	19	19.00
Anand Agricultural University, Anand	1	1	0	0.00
Cargill Animal Nutrition European Laboratory, Spessa	1	1	16	16.00
Central Arid Zone Research Institute, Jodhpur	1	1	9	9.00
College of Agriculture, Pune	1	1	6	6.00
EmbrapaCenargen, Brasilia	1	1	2	2.00
Indian Agricultural Research Institute, New Delhi	1	1	0	0.00
Institute of Grassland and Environmental Research, Aberystwyth	1	1	19	19.00
International Livestock Research Institute, Patancheru	1	1	16	16.00
John Innes Centre, Norwich	1	1	16	16.00
Junagadh Agricultural University, Junagadh	1	1	6	6.00
Maharashtra Hybrid Seed Co, Jalna	1	1	6	6.00
Mahatma PhuleKrishiVidyapeeth, Rahuri	1	1	6	6.00
Marathwada Agricultural University, Parabhani	1	1	6	6.00
Narendra Deva University of Agriculture and Technology, Kumarganj	1	1	1	1.00
Swami Keshwanand Rajasthan Agricultural University, Bikaner	1	1	6	6.00
Tamil Nadu Agricultural University, Coimbatore	1	1	6	6.00
Texas A&M University, Texas	1	1	1	1.00
University of California, Davis	1	1	6	6.00
University of Mysore, Mysore	1	1	6	6.00
l'institut de l'environnement et de recherchesagricoles, Ouagadougou	1	1	6	6.00
Total = 23				

Table 11.4 University of Georgia, Athens

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
University of Georgia, Athens	12	21	205	9.76
United States Department of Agriculture, Washington, DC	7	10	64	6.40
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	2	3	70	23.33
John Innes Centre, Norwich	2	2	64	32.00
Chinese Academy of Sciences, Hunan	1	1	9	9.00
Clemson University, Clemson	1	1	6	6.00
GovindBallabh Pant University of Agriculture and Technology, Pantnagar	1	1	6	6.00
Institut National de Recherches Agronomiques du Niger, Niamey	1	1	9	9.00
Institute of Grassland and Environmental Research, Aberystwyth	1	1	26	26.00
International Maize and Wheat Improvement Center, Mexico City	1	1	6	6.00
Kansas State University, Manhattan	1	1	3	3.00
North Dakota State University, North Dakota	1	1	4	4.00
Pennsylvania State University, Philadelphia	1	1	11	11.00
Purdue University, West Lafayette	1	1	6	6.00
Savanna Agricultural Research Institute, Nyankpala Tamale	1	1	38	38.00
Scottish Crop Research Institute, Dundee	1	1	38	38.00
University of Hyderabad, Hyderabad	1	1	6	6.00
University of Nebraska, Lincoln	1	1	9	9.00
University of Nottingham, Nottingham	1	1	6	6.00
Total = 19				

Table 11.5 Swami Keshwanand Rajasthan Agricultural University, Bikaner

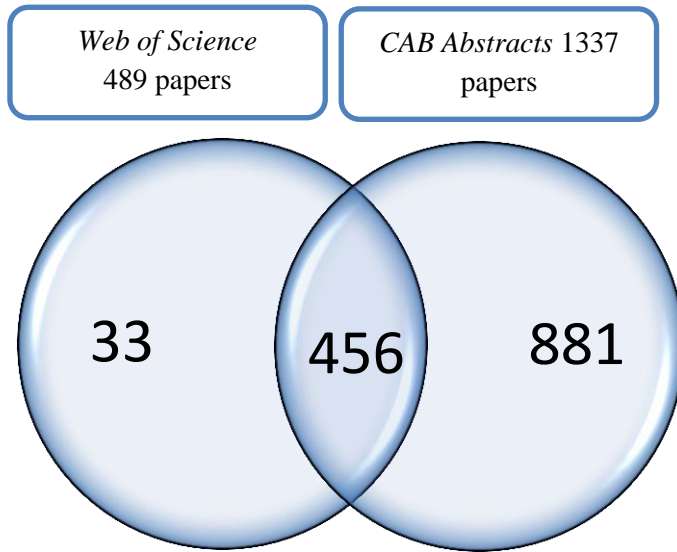
Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
Swami Keshwanand Rajasthan Agricultural University, Bikaner	12	24	41	1.71
MaharanaPratap University of Agriculture and Technology, Udaipur	1	3	5	1.67
Bhabha Atomic Research Centre, Bombay	1	1	1	1.00
Central Arid Zone Research Institute, Jodhpur	1	1	5	5.00
Chaudhary Charan Singh Haryana Agricultural University, Hisar	1	1	6	6.00
College of Agriculture, Pune	1	1	6	6.00
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	1	1	6	6.00
Junagadh Agricultural University, Junagadh	1	1	6	6.00
Maharashtra Hybrid Seed Co, Jalna	1	1	6	6.00
Mahatma PhuleKrishiVidyapeeth, Rahuri	1	1	6	6.00
Marathwada Agricultural University, Parabhani	1	1	6	6.00
National Institute of Science Technology and Development Studies, New Delhi	1	1	3	3.00
Project Directorate for Farming Systems Research, Meerut	1	1	1	1.00
Tamil Nadu Agricultural University, Coimbatore	1	1	6	6.00
University of California, Davis	1	1	6	6.00
University of Mysore, Mysore	1	1	6	6.00
l'institut de l'environnement et de recherchesagricoles, Ouagadougou	1	1	6	6.00
Total = 17				

Table 11.6 Central Arid Zone Research Institute, Jodhpur

Institute	No. of journals	No. of papers	Sum of citations	Cites per paper
Central Arid Zone Research Institute, Jodhpur	11	22	94	4.27
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	6	7	46	6.57
All India Coordinated Pearl Millet Improvement Project, Jodhpur	2	2	17	8.50
Chaudhary Charan Singh Haryana Agricultural University, Hisar	1	1	9	9.00
Chaudhary Sarwan Kumar Himachal Pradesh Agricultural University, Palampur	1	1	10	10.00
Institute of Grassland and Environmental Research, Aberystwyth	1	1	10	10.00
Swami Keshwanand Rajasthan Agricultural University, Bikaner	1	1	5	5.00
University of Queensland, Brisbane	1	1	13	13.00
Total = 08				

Table 12. Authors of pearl millet research papers published during 2001-2010 – Data as seen from WoS-SCIE

Authors	Institute	No. of journals	No. of papers	Sum of citations
Shetty, HS	University of Mysore, Mysore	15	29	390
Hash, CT	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	8	17	345
Bidinger, FR	Institute of Grassland and Environmental Research, Aberystwyth	6	11	201
Deepak, S	University of Mysore, Mysore	9	10	123
Raj, SN	University of Mysore, Mysore	9	10	140
Yadav, RS	Institute of Grassland and Environmental Research, Aberystwyth	8	9	185
Amruthesh, KN	University of Mysore, Mysore	6	8	98
Reddy, MK	ICGEB, New Delhi	7	8	140
Sopory, SK	ICGEB, New Delhi	7	8	140
Yadav, OP	Institute of Grassland and Environmental Research, Aberystwyth	5	8	91
Hanna, WW	USDA-ARS, Tifton	6	6	77
Howarth, CJ	Institute of Grassland and Environmental Research, Aberystwyth	5	6	124
Mariac, C	Institut de Recherche pour le Développement (IRD), Montpellier	4	6	126
Pham, JL	Institut de Recherche pour le Développement (IRD), Montpellier	4	6	126
Shetty, NP	University of Copenhagen	4	6	71
van Oosterom, EJ	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	1	6	77
Weltzien, E	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	6	6	72
Ashraf, M	University of Agriculture, Faisalabad	4	5	64
Bezancon, G	Institut de Recherche pour le Développement (IRD), Montpellier	4	5	103
Guyot, JP	Institut de Recherche pour le Développement (IRD), Montpellier	3	5	104
Iijima, M	Nagoya University, Nagoya	1	5	48
Rai, KN	International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)	3	5	35
Shailasree, S	University of Mysore, Mysore	5	5	91
Treche, S	Institut de Recherche pour le Développement (IRD), Montpellier	5	5	78
Vigouroux, Y	Institut de Recherche pour le Développement (IRD), Montpellier	4	5	109
Wilson, JP	USDA-ARS, Tifton	4	5	53
Zegada-Lizarazu, W	Nagoya University, Nagoya	1	5	48
47 authors with 4-3 papers, 81 authors with two papers each 334 authors with one paper each Total 489 authors				



Analysis of 881 journal papers gathered from CAB Abstracts

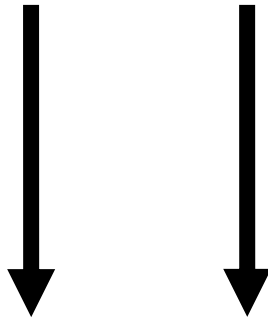


Table 13. Journals used to publish the 881 papers indexed in CAB Abstracts during 2001-2010

Journal title	Publishing country	Impact factor	No. of papers
International Sorghum and Millets Newsletter	USA	0	50
Research on Crops	India	0	40
Journal of Maharashtra Agricultural Universities	India	0	37
Journal of SAT Agricultural Research	India	0	36
Crop Research (Hisar)	India	0	33
Haryana Journal of Agronomy	India	0	32
Annals of Agricultural Research	India	0	29
Indian Journal of Genetics and Plant Breeding	India	0	23
Agricultural Science Digest	India	0	20
Haryana Agricultural University Journal of Research	India	0	17
Forage Research	India	0	14
International Journal of Agricultural Sciences	India	0	14
National Journal of Plant Improvement	India	0	14
Annals of Biology	India	0	12
Archives of Phytopathology and Plant Protection	UK	0	12
Madras Agricultural Journal	India	0	12
Range Management and Agroforestry	India	0	12
Advances in Plant Sciences	India	0	11
Annals of Agri Bio Research	India	0	11
International Journal of Plant Sciences (Muzaffarnagar)	India	0	11
Karnataka Journal of Agricultural Sciences	India	0	11
Journal of Agrometeorology	India	0	10
Indian Journal of Agronomy	India	0	9
Indian Phytopathology	India	0	9
Insect Environment	India	0	9
Annals of Plant Physiology	India	0	8
Asian Journal of Soil Science	India	0	8
Environment and Ecology	India	0	8
Indian Journal of Dryland Agricultural Research and Development	India	0	8
Annals of Arid Zone	India	0	7
Crop Improvement	India	0	7
Indian Journal of Plant Physiology	India	0	7
Indian Journal of Poultry Science	India	0	7
Indian Journal of Weed Science	India	0	7
Journal of Research ANGRAU	India	0	7
Animal Nutrition and Feed Technology	India	0	6
Current Agriculture	India	0	6
International Journal of Agriculture and Biology	Pakistan	0	6
Journal of Entomological Research	India	0	6
Journal of Soils and Crops	India	0	6
Journal of the Indian Society of Soil Science	India	0	6
ActaAgronomicaHungarica	Hungary	0	5
Electronic Journal of Plant Breeding	India	0	5
Indian Journal of Animal Nutrition	India	0	5
Journal of Mycology and Plant Pathology	India	0	5
Journal of Phytological Research	India	0	5
Journal of Plant Science Research	India	0	5
Pakistan Journal of Nutrition	Pakistan	0	5
Seed Research	India	0	5
57 journals with 4-2 papers			151
92 journals with 1 paper each			92
198 journals			881

Table 14. Publishing country of the journals used to publish the 881 papers indexed inCAB Abstracts during 2001-2010

Country	No. of journals	No. of papers
India	134	725
Nigeria	24	36
USA	9	18
Pakistan	12	17
Sudan	10	15
UK	6	10
Zimbabwe	7	9
Egypt	6	7
Mexico	2	5
Ghana	4	4
Niger	4	4
Burkina Faso	3	3
Kenya	2	3
Belgium	2	2
Brazil	2	2
Iran	2	2
Japan	2	2
Mali	2	2
Namibia	2	2
Tunisia	1	2
Australia	1	1
Canada	1	1
China	1	1
Eritrea	1	1
Indonesia	1	1
Malawi	1	1
Oman	1	1
Saudi Arabia	1	1
Senegal	1	1
South Africa	1	1
Zambia	1	1
	247	881

Table 15. 881 pearl millet research papers classified by institution in the byline

Institute	Country	No. of journals	No. of papers
Chaudhary Charan Singh Haryana Agricultural University, Hisar	India	41	159
Swami Keshwanand Rajasthan Agricultural University, Bikaner	India	31	70
Mahatma PhuleKrishiVidyapeeth, Rahuri	India	19	57
International Crops Research Institute for the Semi-Arid Tropics, Patancheru	India	15	54
Junagadh Agricultural University, Junagadh	India	16	41
Tamil Nadu Agricultural University, Coimbatore	India	19	39
Indian Agricultural Research Institute, New Delhi	India	10	31
Central Arid Zone Research Institute, Jodhpur	India	18	30
Anand Agricultural University, Anand	India	14	22
Punjab Agricultural University, Ludhiana	India	13	22
University of Agricultural Sciences, Dharwad	India	11	21
University of Maiduguri, Maiduguri	Nigeria	10	13
Acharya N.G.Ranga Agricultural University, Hyderabad	India	6	11
Marathwada Agricultural University, Parbhani	India	7	11
University of Khartoum, Shambat	Sudan	7	10
Indian Grassland and Fodder Research Institute, Jhansi	India	3	9
University of Mysore, Mysore	India	7	8
Ahmadu Bello University, Zaria	Nigeria	4	6
Chandra Shekhar Azad University of Agriculture & Technology, Kanpur	India	4	6
Osmania University, Hyderabad	India	5	6
University of Zimbabwe, Harare	Zimbabwe	4	6
Central Avian Research Institute, Izatnagar	India	2	5
College of Agriculture, Pune	India	4	5
Jawaharlal Nehru KrishiVishwavidyalaya, Jabalpur	India	4	5
MaharanaPratap University of Agriculture and Technology, Udaipur	India	4	5
Project Directorate on Poultry, Hyderabad	India	3	5
40 institutions with 4-2 papers		77	101
123 institutions with 1 paper each		123	123
		481	881

Table 16. 881 pearl millet research papers classified by countries in the byline

Publishing country	No. of journals	No. of papers
India	106	678
USA	11	63
Pakistan	26	52
UK	10	23
Egypt	6	7
Kenya	5	7
Hungary	2	6
Japan	3	6
Nigeria	4	5
Italy	2	4
Spain	2	4
Croatia	2	3
Czech Republic	2	2
Poland	1	2
South Africa	1	2
Australia	1	1
Bangladesh	1	1
Belgium	1	1
Brazil	1	1
Cameroon	1	1
China	1	1
Colombia	1	1
Cote d'Ivoire	1	1
Finland	1	1
Germany	1	1
Ghana	1	1
Indonesia	1	1
Jordan	1	1
Malawi	1	1
Thailand	1	1
Uganda	1	1
United Arab Emirates	1	1
Total=31		

Table 17. 881 pearl millet research papers classified by subfields (Broad)

CABI code	Subfield (Broad)	No. of journals	No. of papers
FF000	Plant Science	182	835
JJ000	Soil Science	71	241
HH000	Pathogen, Pest, Parasite and Weed Management	59	143
EE000	Economics	38	79
QQ000	Food Science and Food Products	46	71
ZZ000	Other Sciences	40	66
PP000	Natural Resources	38	54
XX000	Wastes	24	53
RR000	Forage and Feed Products	32	48
LL000	Animal Science	19	37
SS000	Non-food/Non-feed Agricultural Products	31	37
KK000	Forestry, Forest Products and Agroforestry	14	17
CC000	Education, Extension, Information and Training	5	6
UU000	Social Sciences	4	5
AA000	Agriculture	3	3
VV000	Human Health and Hygiene	3	3
WW000	Biotechnology	2	2
YY000	Zoology and Wild Animals	2	2
MM000	Aquatic Sciences	1	1
NN000	Engineering and Equipment	1	1

Table 18. 811 pearl millet research papers classified by subfields

CABI code	Subfield	No. of journals	No. of papers
FF005	Field Crops (NEW March 2000)	164	722
FF100	Plant Production	111	424
FF020	Plant Breeding and Genetics	101	401
JJ700	Fertilizers and other Amendments	55	195
FF007	Forage and Fodder Crops (NEW March 2000)	70	174
FF060	Plant Physiology and Biochemistry	72	146
FF610	Viral, Bacterial and Fungal Diseases of Plants (NEW March 2000)	50	120
FF150	Plant Cropping Systems	48	111
FF061	Plant Nutrition	38	74
EE110	Agricultural Economics	36	67
QQ050	Crop Produce	44	66
HH600	Host Resistance and Immunity	30	66
QQ500	Food Composition and Quality	36	57
HH405	Pesticides and Drugs: Control (NEW March 2000)	30	54
FF040	Plant Composition	34	49
XX100	Animal Wastes	22	45
FF900	Environmental Tolerance of Plants	29	45
FF620	Plant Pests (NEW March 2000)	18	38
JJ100	Soil Biology	21	38
RR300	Feed Composition and Quality	26	35
JJ200	Soil Chemistry and Mineralogy	20	35
JJ800	Soil Water Management	23	32
FF030	Plant Morphology and Structure	20	31
FF062	Plant-Water Relations	18	30
PP500	Meteorology and Climate	22	29
SS200	Non-food/Non-feed Plant Products	26	29
JJ600	Soil Fertility	13	28
JJ900	Soil Management	21	27
FF500	Weeds and Noxious Plants	12	26
HH200	Environmental Pest Management	17	25
ZZ360	General Molecular Biology (Discontinued March 2000)	11	24
QQ100	Food Processing (General)	17	23
EE145	Input Utilization (Microeconomics)	15	21
LL520	Animal Nutrition (Production Responses)	10	20
XX200	Plant Wastes	14	19
SS230	Composition and Quality of Non-food/Non-feed Plant Products	15	17
FF170	in vitro Culture of Plant Material	14	17
LL510	Animal Nutrition (Physiology)	8	16
LL500	Animal Nutrition (General)	10	15
HH300	Integrated Pest Management	11	14
FF003	Horticultural Crops (NEW March 2000)	12	13
HH100	Biological Control	11	12
PP720	Biological Resources (Plant)	11	12
RR000	Forage and Feed Products (Non-human)	10	12
ZZ100	Mathematics and Statistics	11	12
LL120	Meat-producing Animals	7	11
KK540	Non-wood Forest Products	7	10
FF160	Plant Propagation	9	10
PP400	Erosion, Soil and Water Conservation	9	9
ZZ900	Techniques and Methodology	8	9
QQ600	No Code	8	8
SS210	Storage Problems and Pests of Non-food/Non-feed Plant Products	6	8

CABI code	Subfield	No. of journals	No. of papers
JJ300	Soil Physics	6	7
KK600	Agroforestry and Multipurpose Trees, Community, Farm and Social Forestry	6	6
ZZ332	Animal Ecology	5	6
CC200	Extension and Advisory Work	5	6
ZZ395	Genetics and Molecular Genetics of Microorganisms (NEW March 2000)	6	6
HH430	Pesticide and Drug Residues and Ecotoxicology (NEW March 2000)	6	6
QQ111	Storage Problems and Pests of Food	5	6
ZZ394	Biochemistry and Physiology of Microorganisms (NEW March 2000)	5	5
QQ200	Food Contamination, Residues and Toxicology	4	5
QQ120	Microbial Technology in Food Processing	4	5
UU485	Social Psychology and Social Anthropology (NEW March 2000)	4	5
In 53 more subfields Pearl millet research papers have been classified in CAB Abstracts			