

Krishikosh: Digital Repository of National Agricultural Research and Education System (NARES): An Analytical Study

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INTRODUCTION

- The advancement of agricultural research and education is vital for sustainable food production, rural development, and global food security.
- In the digital age, the efficient management and dissemination of agricultural knowledge and research outputs are essential.
- Krishikosh is a comprehensive digital archive that stores and shares a wide range of agricultural research, academic papers, theses, and educational materials.
- It plays a crucial role in promoting collaboration, speeding up research results, and raising agricultural education to new levels.
- It breaks down geographical barriers by integrating research papers and knowledge assets, allowing stakeholders from all facets of agriculture to contribute and collaborate.
- It supports the development of a resilient, productive, and sustainable agricultural sector, showcasing the potential of digital technology in agriculture.

- It provides a user-friendly platform for researchers to present their work globally and offers educational tools to empower students and future agricultural leaders.
- The repository comprises over 266000 documents, including theses, books, journals, and project reports, with contributions from 106 libraries affiliated with SAU and ICAR institutes.
- It explores the objectives, significance, methodology and key features of Krishikosh, shedding light on its impact on agricultural research and education. Additionally, the article discusses the challenges faced by Krishikosh and NARES, along with potential future directions.
- This analytical study provides a comprehensive perspective on the repository's diverse resources, offering multidimensional benefits for agricultural studies and research.

OBJECTIVES:

1. To be aware of the variety of resources offered by the Krishikosh repository.
2. To determine how many Agricultural Universities have made contributions to the Krishikosh repository.
3. To identify the primary contributors of content and documents within the Krishikosh repository.
4. To identify the top contributors to the Krishikosh repository's collection of electronic theses and dissertations (ETDs).
5. To examine how information and documents are distributed within the Krishikosh repository according to subject areas.
6. To investigate new patterns and advancements within particular sub-themes of the Krishikosh repository.

METHODOLOGY

- The main source for this investigation was the Krishikosh digital repository.
- In June 2023, data was extracted from the Krishikosh digital repository's database.
- Approximately 2.60 lakh content/documents were accessible on the repository's website (<https://krishikosh.egranth.ac.in/>), of which 1.93 lakh were theses.
- These documents found their place in the repository courtesy of 106 State Agricultural Universities/ICAR institutes registered with Krishikosh.
- By visiting the corresponding websites, information relevant to each participating Central/Deemed/State Agricultural University/ICAR institute was painstakingly gathered.
- The gathered data were tabulated using MS Excel, and the data analysis that followed involved percentage-based calculations.

RESULTS

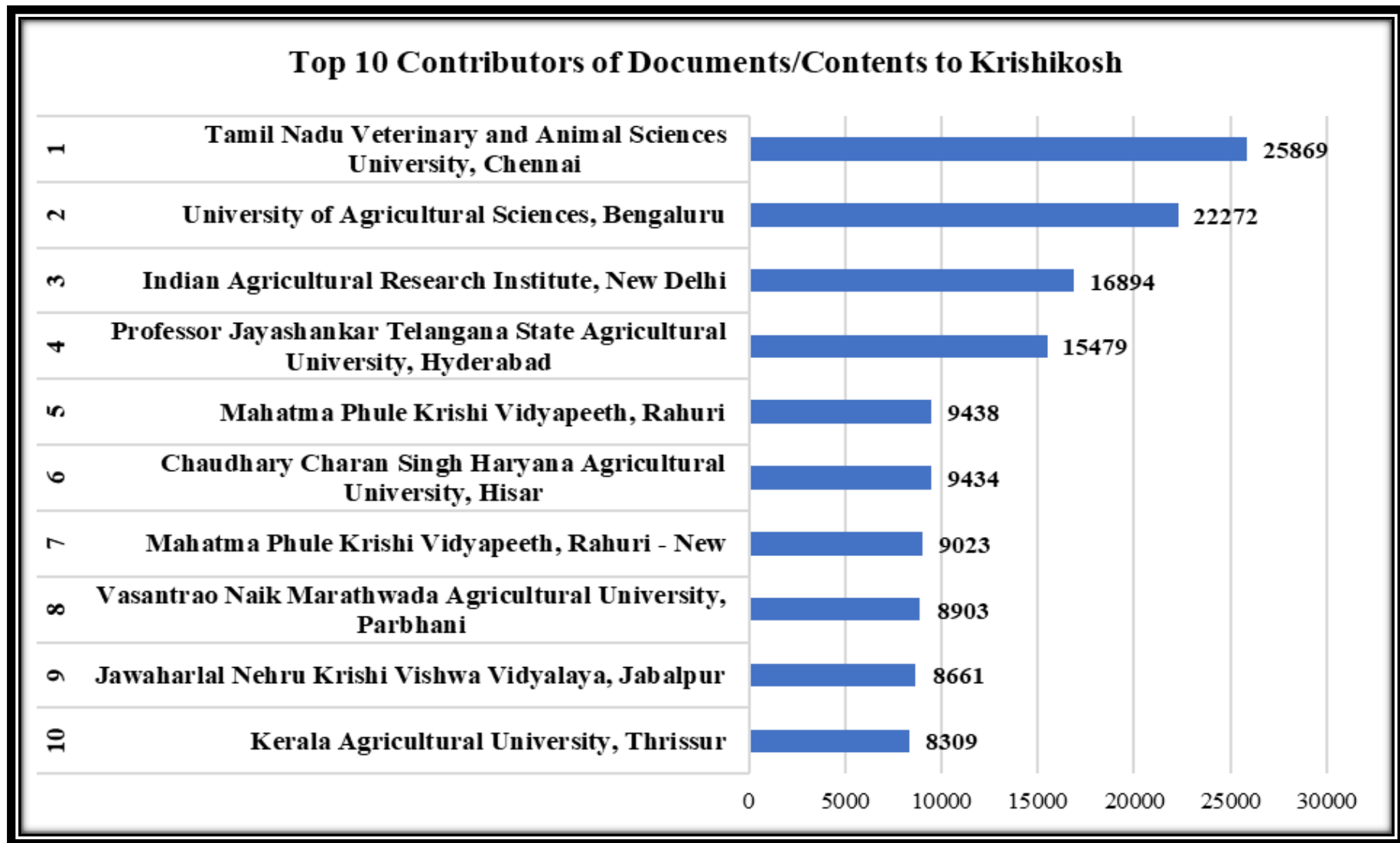


Figure 1: Top 10 Contributors of Documents/Contents to Krishikosh

Table 1: Top 10 Resources/documents available in the Krishikosh repository

Sl. No.	Type of Content/Document	Total	%
1	Theses	193089	77.79
2	Journals	17715	7.14
3	Articles	17280	6.96
4	Others	10818	4.36
5	Reports	2450	0.99
6	Institutional Publications	1615	0.65
7	Book Chapter	1271	0.51
8	Technical Reports	1074	0.43
9	Books	937	0.38
10	Reprints	694	0.28

Types of resources/documents

- Theses and dissertations are the most common resources/documents uploaded to the Krishikosh repository, accounting for 1,93,089 (77.79%), followed by journals (17715, 7.14%), articles (17280, 6.96%), others (10818, 4.36%), reports (2450, 0.99%), institutional publications (1615, 0.65%), book chapters (0.51%), technical reports (1271, 0.51%), books (937, 0.38%), and reprints (694, 0.28%).
- With 246943 counts, the top ten resources/documents account for 99.48% of all resources uploaded to the Krishikosh repository. The remaining 1275 documents (0.52%) are made up of presentations, training manuals, research highlights, images, historical records, newsletters, magazines, working papers, and other materials.

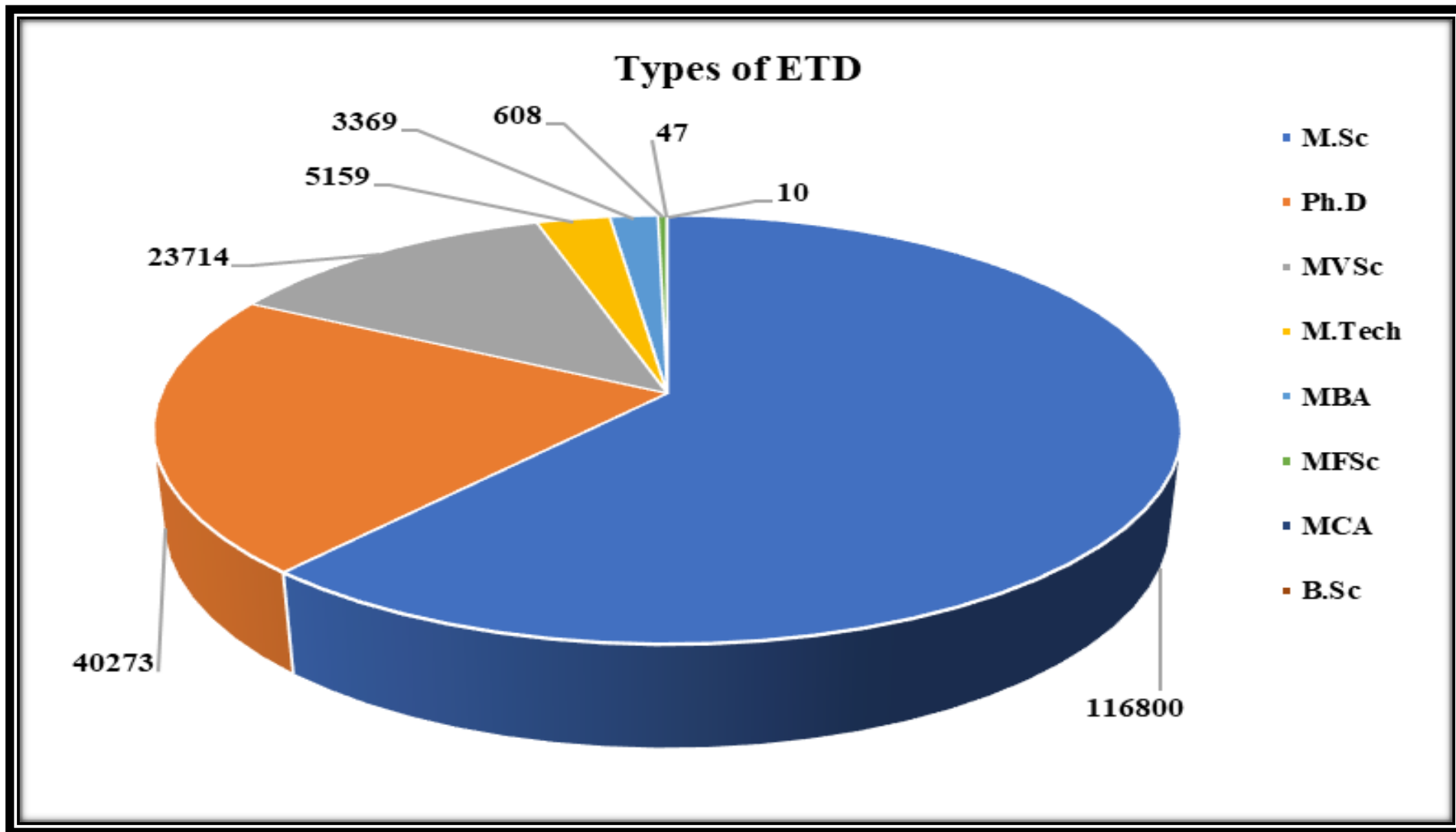


Figure 2: Types of Theses and Dissertations uploaded in Krishikosh

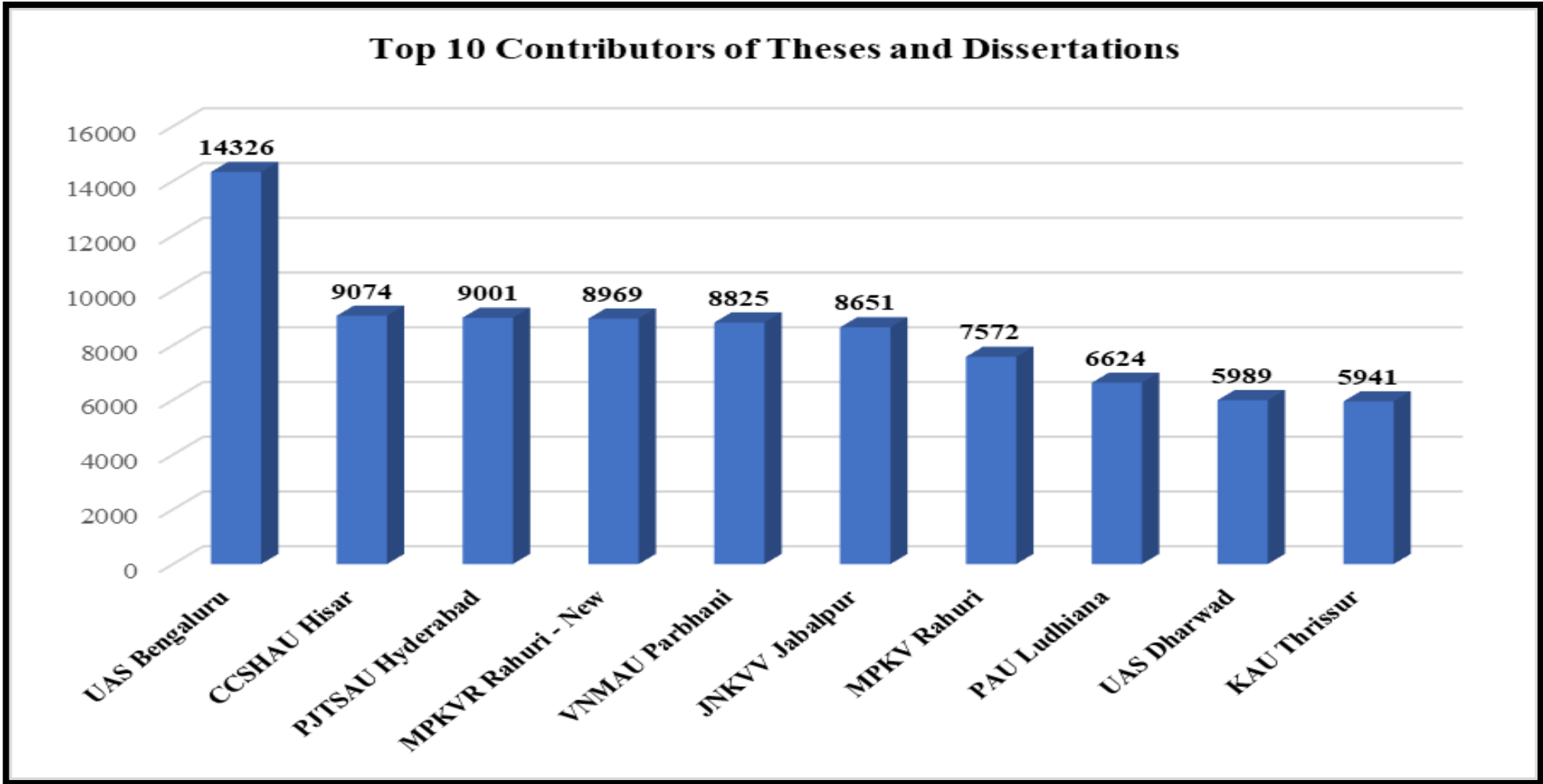


Figure 3: Top 10 Contributors of Theses and Dissertations

Table 2 : Major subject wise contribution in Krishikosh repository

Sl. No.	Subject	Sources	%
1	Agronomy	15812	10.4465
2	Horticulture	12797	8.45457
3	Agricultural Economics	9149	6.04445
4	Plant Pathology	9109	6.01802
5	Genetics and Plant Breeding	8901	5.8806
6	Soil Science and Agriculture Chem	7329	4.84203
7	Agricultural Entomology	6560	4.33398
8	Entomology	5670	3.74599
9	Extension Education	4484	2.96243
10	Agricultural Extension	3825	2.52705

Table 3: Top 10 Trending Geolocation Country

Sl. No	Countries	Views	Percentage
1	India	6958679	69.35
2	United States	1533301	15.28
3	Netherlands	648305	6.46
4	Singapore	386712	3.85
5	Russia	218255	2.18
6	France	136029	1.36
7	Ireland	88685	0.88
8	Germany	10980	0.11
9	China	10601	0.11
10	Nepal	5355	0.05

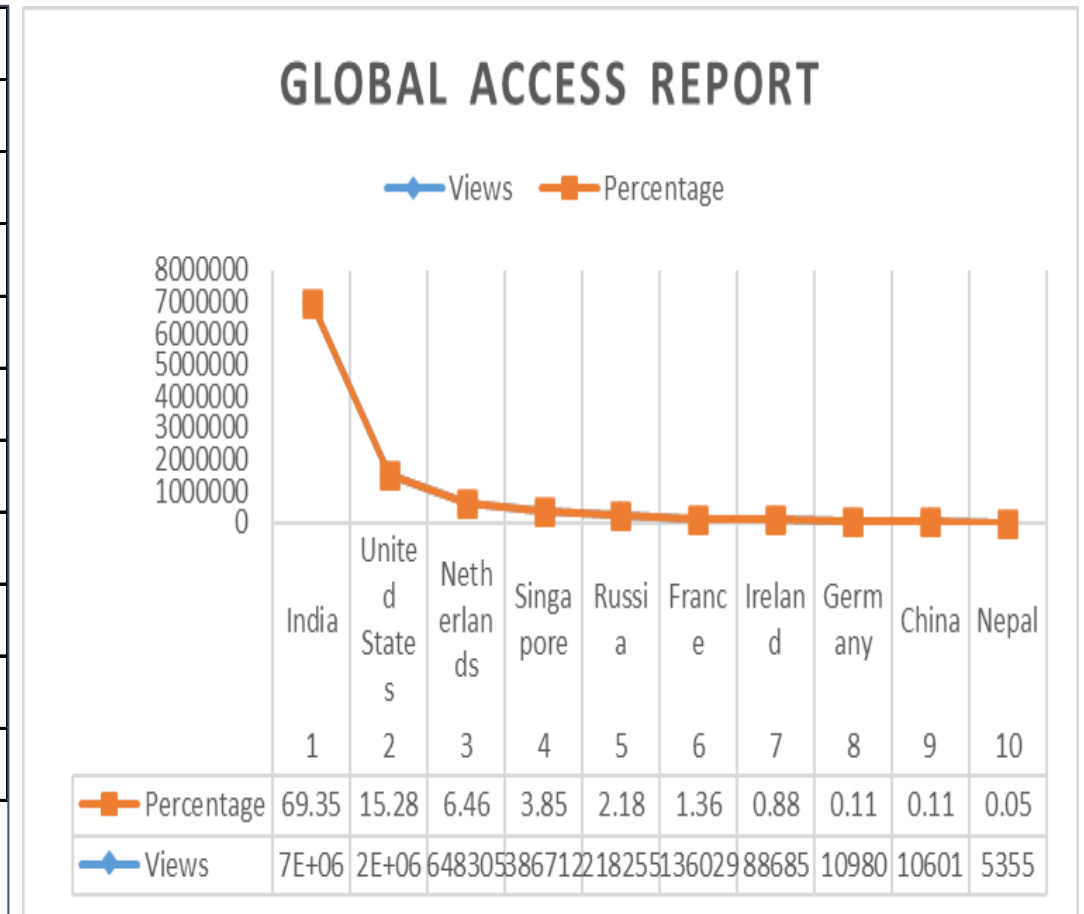


Table 4: Trending Hits

Sl No.	Types	Hits	%
1	Thesis	282225	84.11
2	Other	19382	5.78
3	Journal	14637	4.36
4	Article	13568	4.04
5	Technical Report	1536	0.46
6	Book chapter	848	0.25
7	Book	823	0.25
8	Proceedings	766	0.23
9	Reprint	699	0.21
10	Presentation	357	0.11
11	Training Manual	331	0.10
12	Reports	205	0.06
13	Learning Object	69	0.02
14	Miscellaneous	34	0.01
15	Working Paper	27	0.01
16	Historical Record	26	0.01
17	Research Highlight	19	0.01
Total		335552	100

CONCLUSION

- Krishikosh is a home for a comprehensive digital collection with over 2,66,288 materials in agriculture and related fields, including theses, books, journals, and technical bulletins.
- The top contributors to Krishikosh are TANUVAS Chennai, UAS Bengaluru, IARI New Delhi, and, PJTSAU Hyderabad, with UAS Bengaluru leading in theses and dissertations.
- Krishikosh is globally recognized, with high user views from **India and the United States**, and **focuses on agronomy**, making it a valuable resource for agricultural researchers, students, and professionals.



Thank you