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AGRIS, the International System for Agricultural Science and Technology

GL 2020. 22nd International Conference on Grey Literature "Applications of Grey Literature for Science and Society"

November 19, 2020 - Online Conference

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Scholarly communication evolves

- Publicly funded research must be freely available to public
- Open access and open science
- Pre-print and open repositories
- Data sharing frameworks and funder requirements

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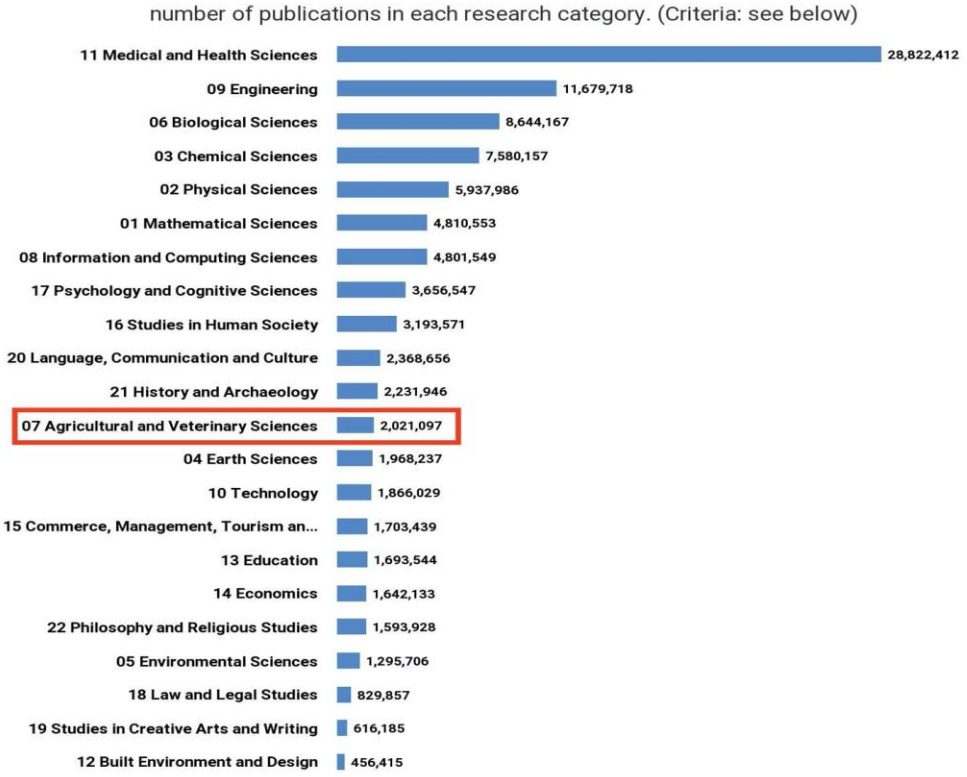
Agriculture in the scientific literature

- Applied science
- A majority of the research output is not in the peer review literature
- A lot of the research is done by private companies and public organizations



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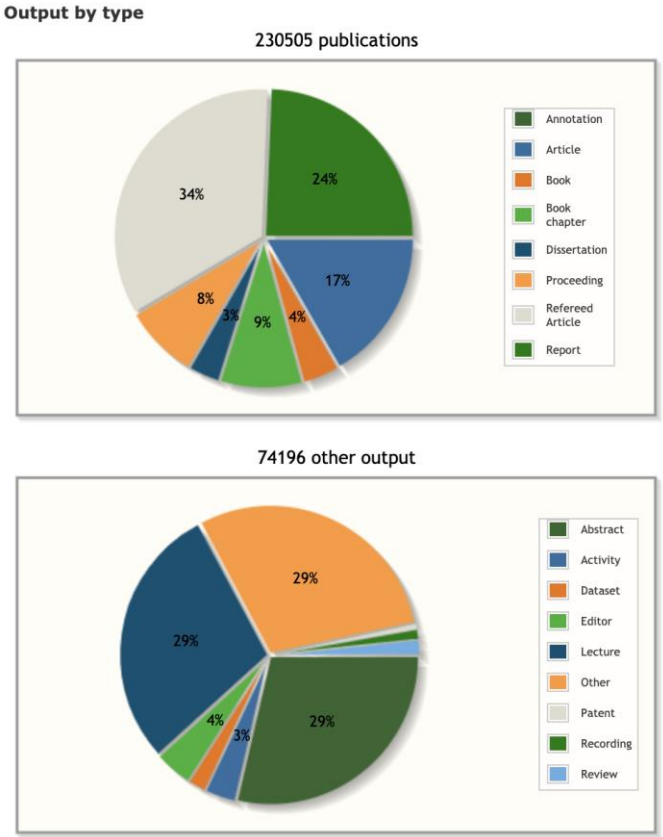
Diverse type of research output

Wageningen University & Research's (WUR) core areas of activity are food, food production, living environment, health, lifestyle and livelihood.

See the diversity in their research output, not only articles and note that PhD thesis are required to be published as article.



Source: Wageningen University & Research Output by document type: 2007 to present. https://library.wur.nl/WebQuery/wurpubs/show Retrieved on 1 July 2020.

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The role of FAO

Providing visibility to food and agricultural reseach

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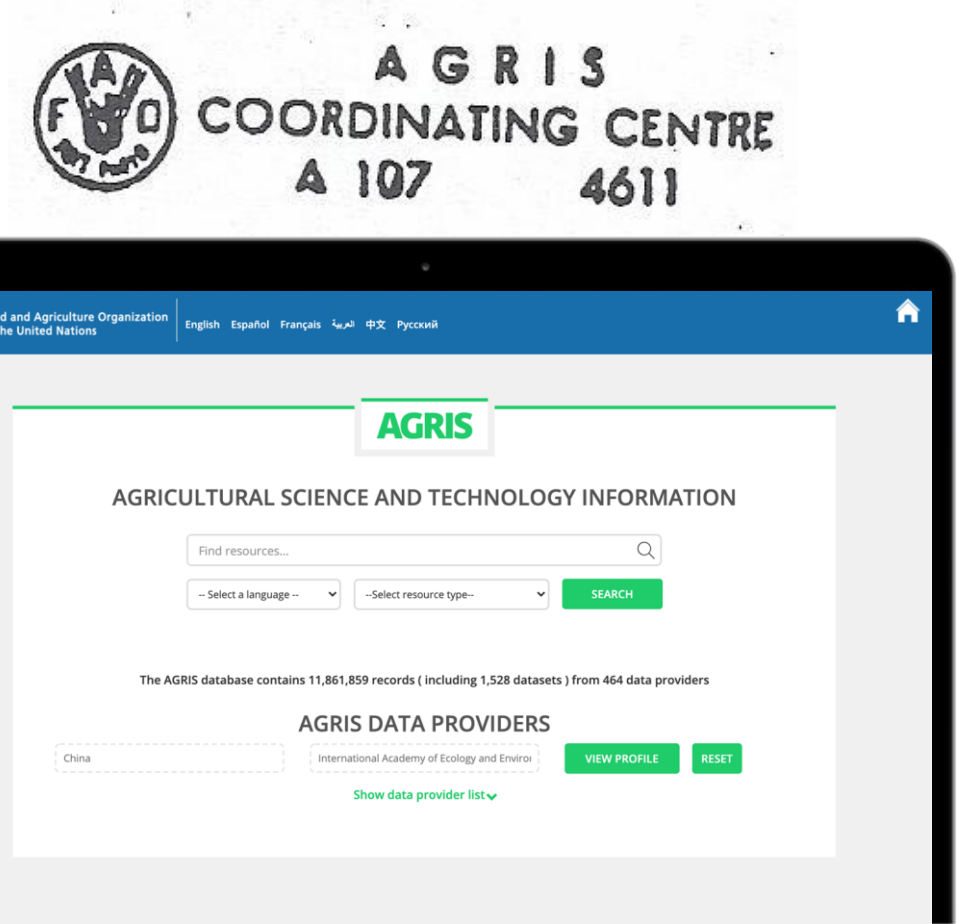
What is AGRIS?

AGRIS consists of three elements:

- **A network**. The AGRIS network refers to the contributing community of up to 450 institutions and 150 countries.
- **A database**. AGRIS is also a database with millions of structured bibliographical records on agricultural science and technology.
- **A web portal**. AGRIS is a web portal that links AGRIS knowledge to related web resources.

Maintained by FAO, AGRIS has been serving users worldwide since 1974.



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What else?

The purpose of AGRIS is to provide comprehensive scholarly research information in the agricultural domain, accepting content related to all FAO's areas of interest from data providers.

Some topics covered by AGRIS

agriculture
animal husbandry
biotechnology
environment
fishing and aquaculture
food
food technology
food toxicology
forestry
plant protection
veterinary medicine

Types of content

books
conference papers
data sets
journal articles
scientific and technical projects
technical reports
theses

AGRIS is used by anyone interested in such literature, including students, scientists, librarians, researchers, publishers and policy-makers, among others.

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The AGRIS Network

Available in up to
90
Languages

12 million
bibliographic records

From about
150
Countries

Records by
430 +
Data providers

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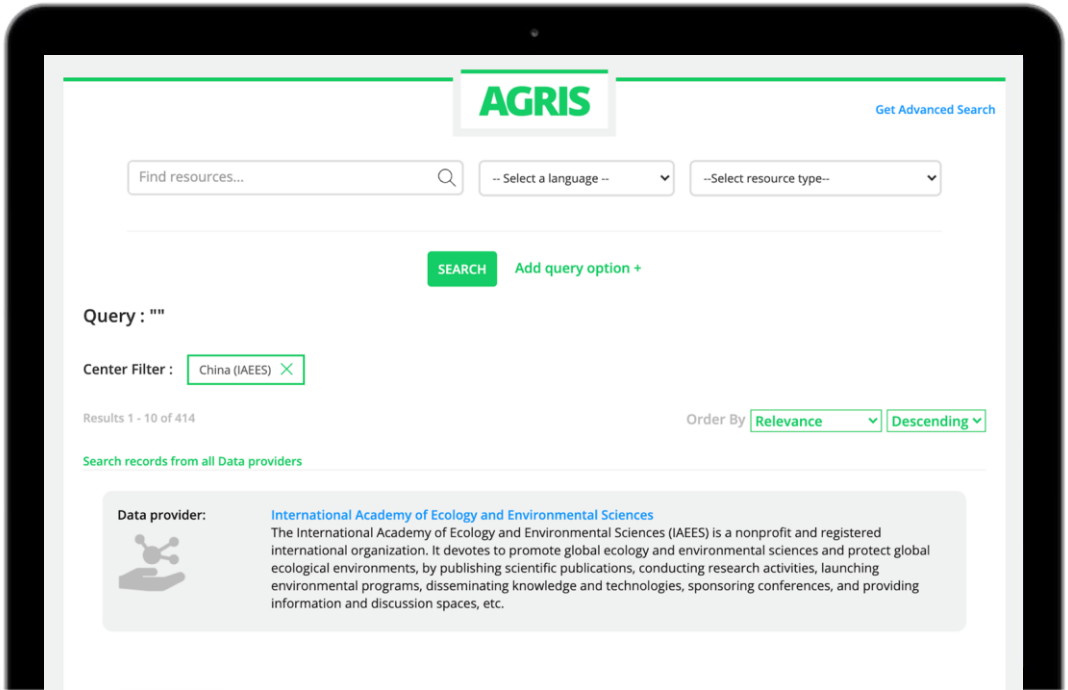
Who Submits Data to AGRIS

- research centers
- academic institutions
- publishers
- governmental bodies
- development programmes
- international organizations
- national organizations



Representation per Country

Countries with 5 or more data providers

Russian Federation	**52**	Mexico	**11**	Slovakia	**6**
Brazil	**40**	Spain	**10**	Argentina	**5**
United States of America	**31**	Colombia	**9**	Costa Rica	**5**
Iran (Islamic Republic of)	**19**	United Kingdom	**9**	France	**5**
Ukraine	**19**	Italy	**8**	Indonesia	**5**
India	**17**	Philippines	**8**	South Africa	**5**
Australia	**14**	Kenya	**6**	Syrian Arab Republic	**5**
Cuba	**12**	Nigeria	**6**		
Turkey	**12**	Peru	**6**		

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October 2020 Release. Data Sources

Brazil	Empresa de pesquisa agropecuária e extensão rural de Santa Catarina
Bulgaria	International Scientific Publications
Colombia	UNAL Colombia - Sede Medellin
France	CIRAD
India	Extension Education Society
India	Acharya N.G. Ranga Agricultural University
India	Indian Council of Agricultural Research
India	Skyfox Publishing Group
Indonesia	Universitas Prof Dr Hazairin SH
Latvia	Fundamental Library of Latvia University of Life Sciences and Technologies
Russian Federation	Alexander Galushkin Publishing House
Russian Federation	Saint Petersburg Forestry Research Institute
Russian Federation	Marina Sokolova Publishings
Turkey	Turkish National AGRIS Center
United Kingdom	Hindawi

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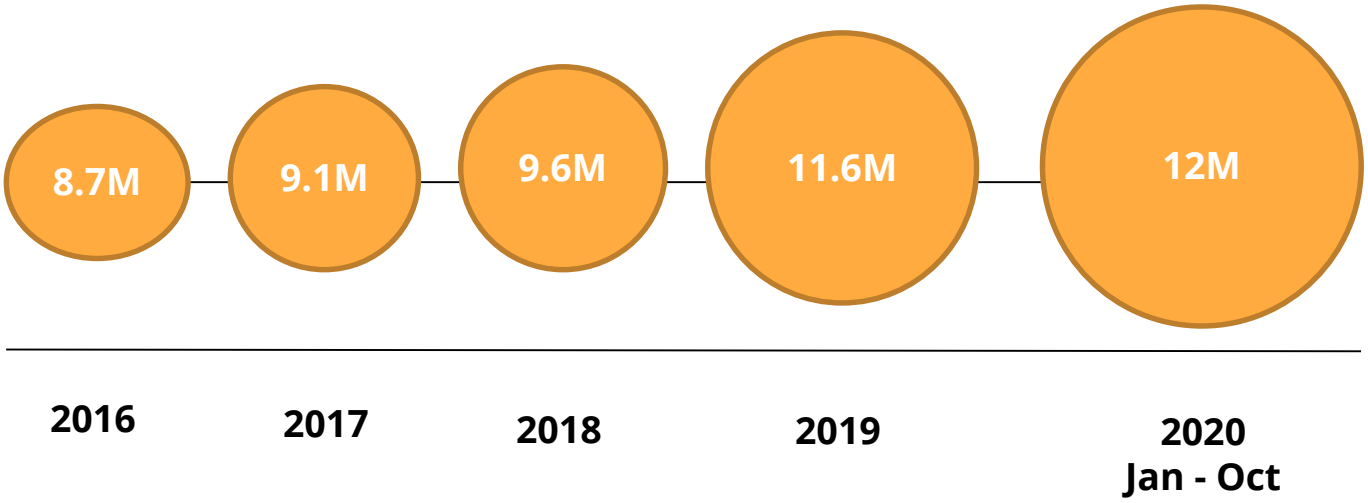
AGRIS Content Evolution 2016-2020



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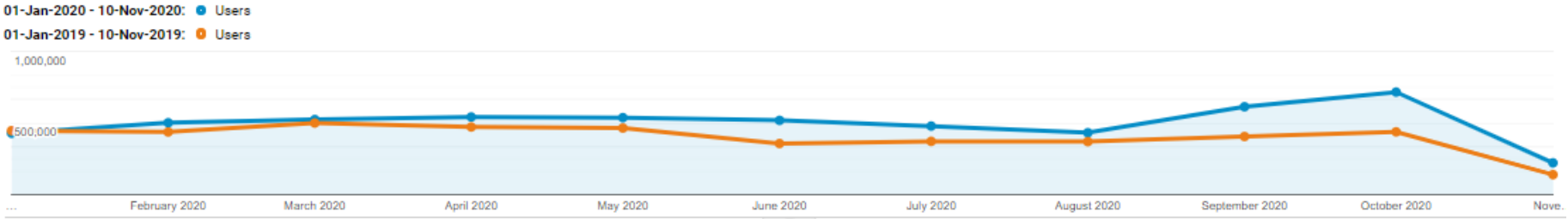
AGRIS usage statistics 2019/2020

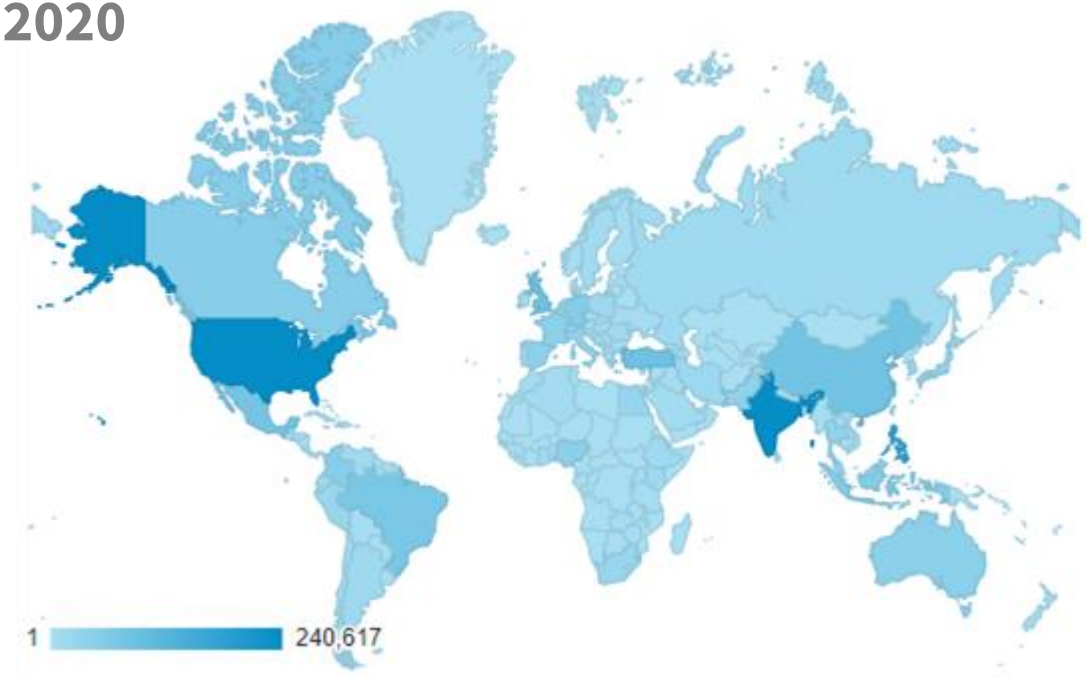


Users	New Users	Sessions	Number of Sessions per User	Page Views
26.66%	26.84%	28.79%	1.68%	28.73%
5,027,296 vs 3,969,058	4,882,482 vs 3,849,315	6,783,293 vs 5,266,761	1.35 vs 1.33	8,321,672 vs 6,464,266

AGRIS Audience 2020

Top 20 visiting countries in 2020

1	United States	**11**	Colombia
2	India	**12**	Canada
3	Philippines	**13**	Australia
4	Turkey	**14**	Nigeria
5	United Kingdom	**15**	France
6	China	**16**	Spain
7	Mexico	**17**	Malaysia
8	Brazil	**18**	Pakistan
9	Indonesia	**19**	Italy
10	Germany	**20**	Japan



How to contribute to AGRIS

Data collected from institutional repositories, journal publishers and harvested from aggregators via OAI-PMH or via APIs. **AGRIS does not accept individual author contributions.**

Before requesting to become an AGRIS data provider, check eligibility specifically in terms of content. The most important keywords that describe a journal or data collection must be related to the FAO Themes.

In addition, check at https://agris.fao.org/ if data is not already indexed in AGRIS from other aggregators.

Should you have doubts on this preliminary step, please write to ***agris@fao.org***

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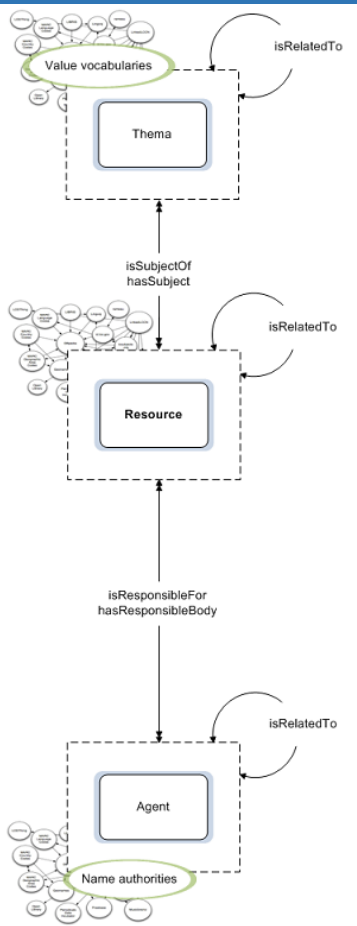
Requirements for AGRIS Metadata

AGRIS provides a list of mandatory and recommended properties to be included in the metadata of records. *Note that the more descriptive the metadata, the easier will be the discovery of the resource in the Internet.*

When cataloging the reference, it is recommended to add, along with titles, authors, abstracts, and AGROVOC keywords, the URLs links to the full text of the PDF of the article or publication, where this is available.

Furthermore, to make the resource more discoverable, it is strongly recommended to add English titles, abstracts and keywords.

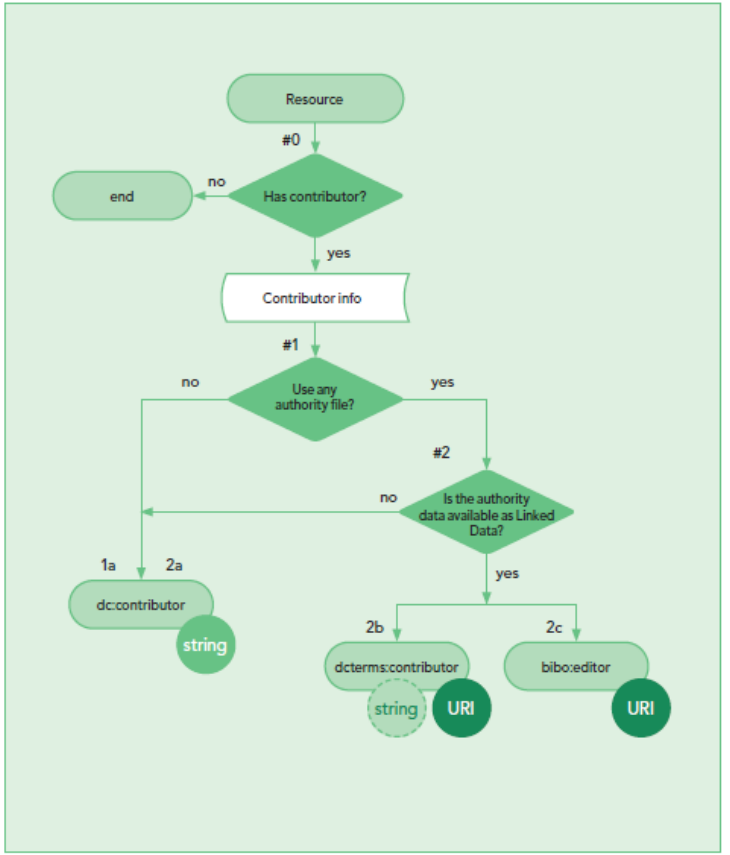


AGRIS Metadata Formats

AGRIS accepts the most common XML metadata formats such as MODS, Crossref, DOAJ, EndNote, MARC21, METS, PubMed and the AGRIS AP.

The data is curated and converted prior to the AGRIS indexing. When joining AGRIS as a data provider, it is important to specify the metadata standard used.

The AGRIS team highly recommends to consider **LODE-BD Recommendations 3.0** in order to learn about different metadata terms that can be used to describe properties included in the record.



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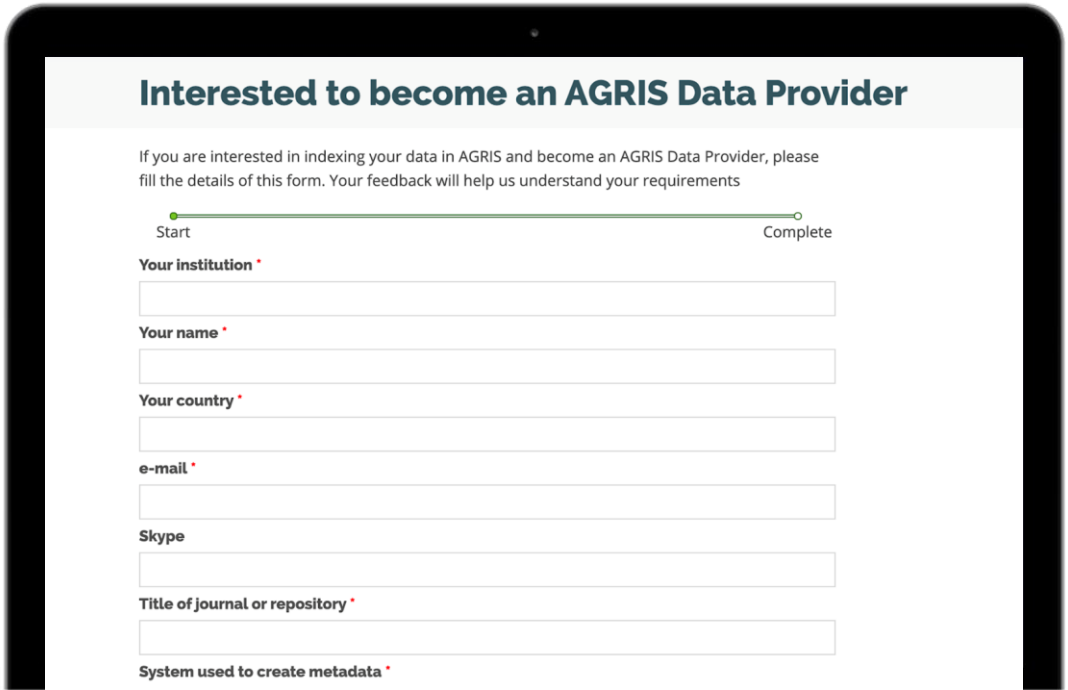
AGRIS Registration

Data provider needs to fill a form with information required by AGRIS.

After registration, it is sent a confirmation and an AGRIS ID (Identity number). *(important to use the ID whenever the data provider contact* ***agris@fao.org*** *to facilitate the processing of any request).*



AGRIS Acceptable Use Policy

AGRIS content is licensed under CC-BY IGO 3.0. license. It is important to read the terms of this licence before confirming submission of any record to AGRIS.
AGRIS collects and index metadata (including links to the URL to the full-text) but does not store the PDF files of the article or publication.

Note also that:

- Data Providers are responsible for the correctness of the data that is submitted to AGRIS
- Use and access of the AGRIS service is subjected to the AGRIS acceptable use policy (to be read together with FAO Copyright Policies)
- By submitting data to AGRIS, data providers accept that bibliographical data describing its information resources will be visible worldwide through the FAO AGRIS platform.

How many data providers?

468 data providers in total (from 1974 to 2020)

2017: **41** active data providers

2018: **77** active data providers

2019: **101** active data providers from 42 countries (+31%)

It’s a mutual relationship

AGRIS gives visibility to data providers: it’s indexed directly by Google and Google Scholar

Data Providers contribute to the growth and importance of AGRIS, providing their metadata

Services for data providers

- **Vision**: data providers should see AGRIS as a unique place where to store their metadata
- They must be able to browse their own metadata
- They must be able to access statistics on the usage of their metadata
  - they can see the results of their work, creating reports and disseminating statistics about their records
  - and the impact of storing their metadata in AGRIS

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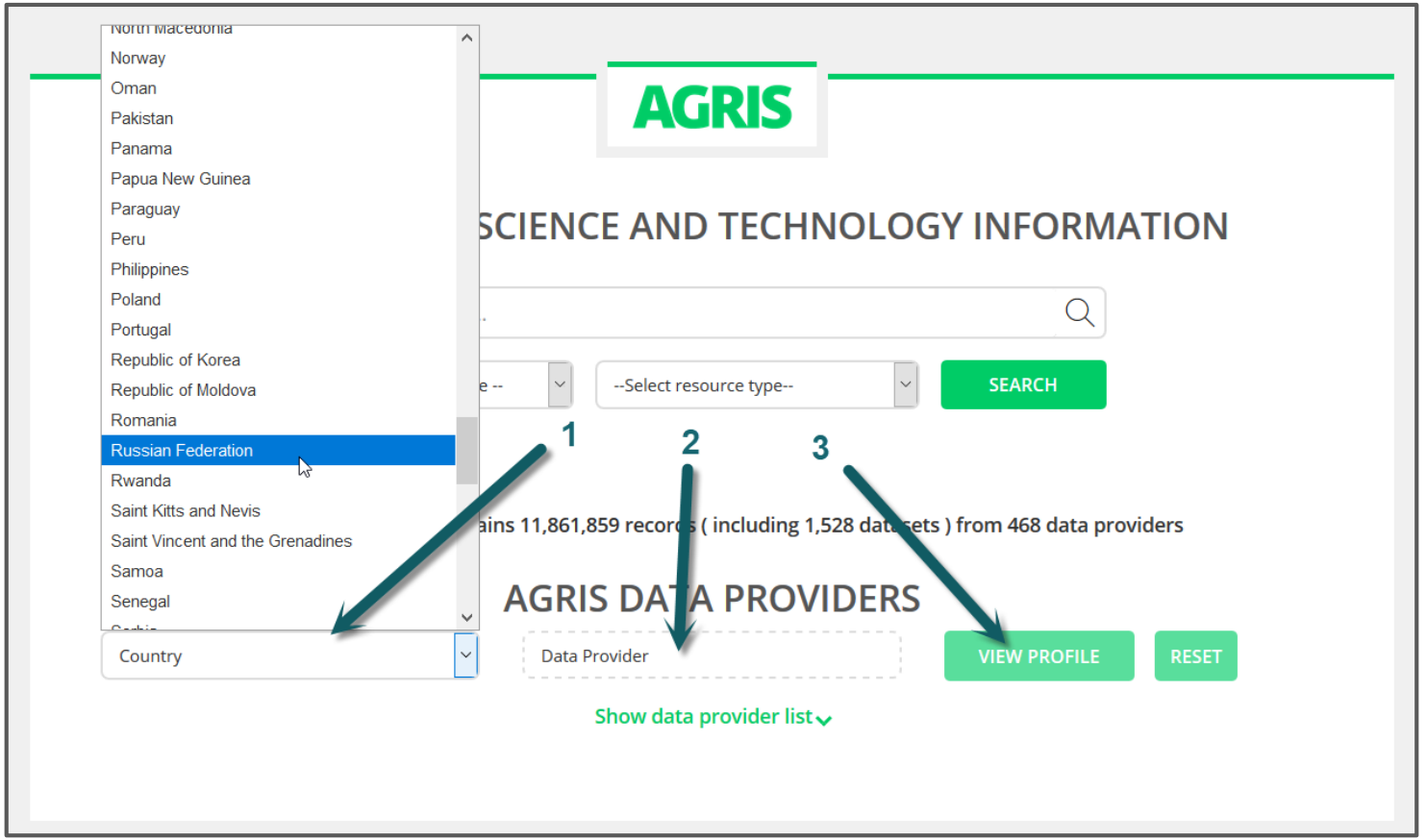
Data providers search pages



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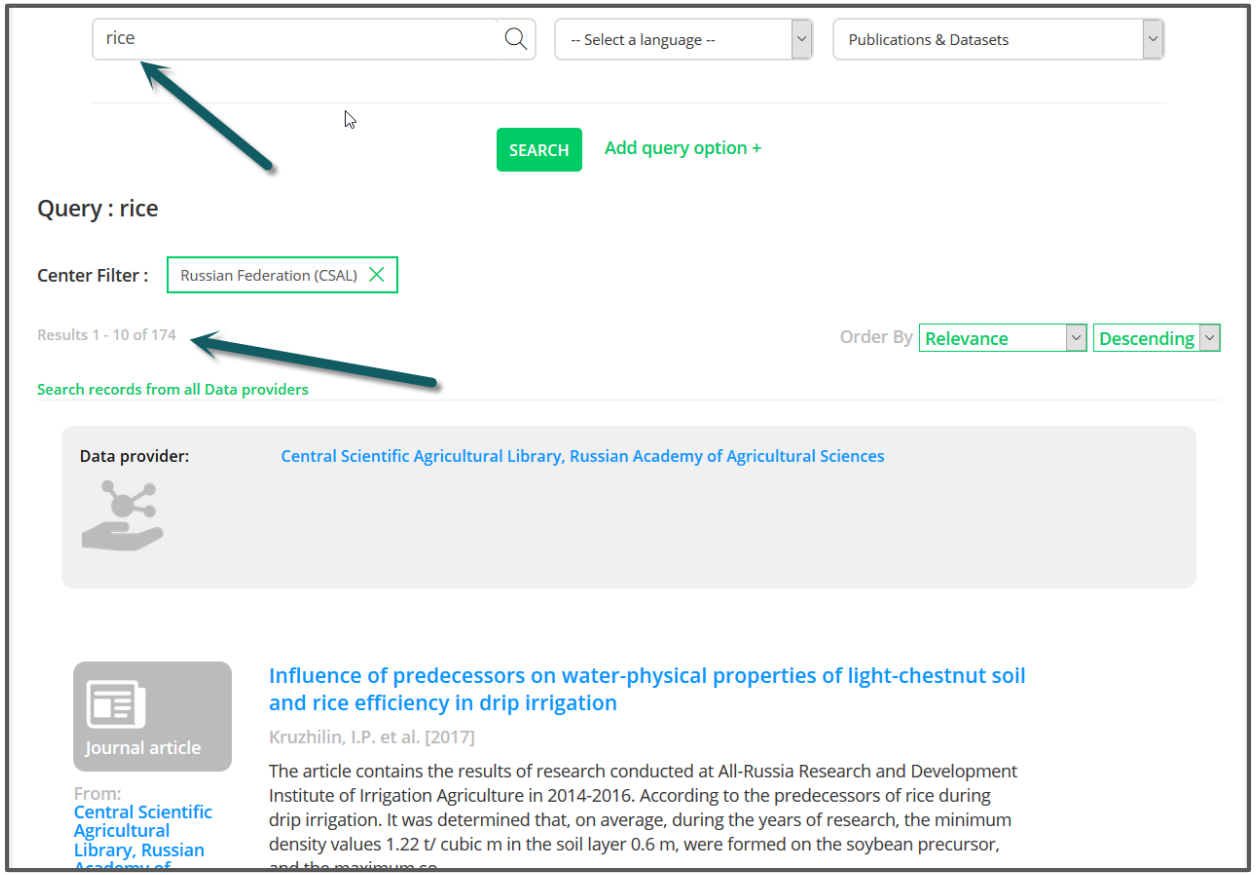
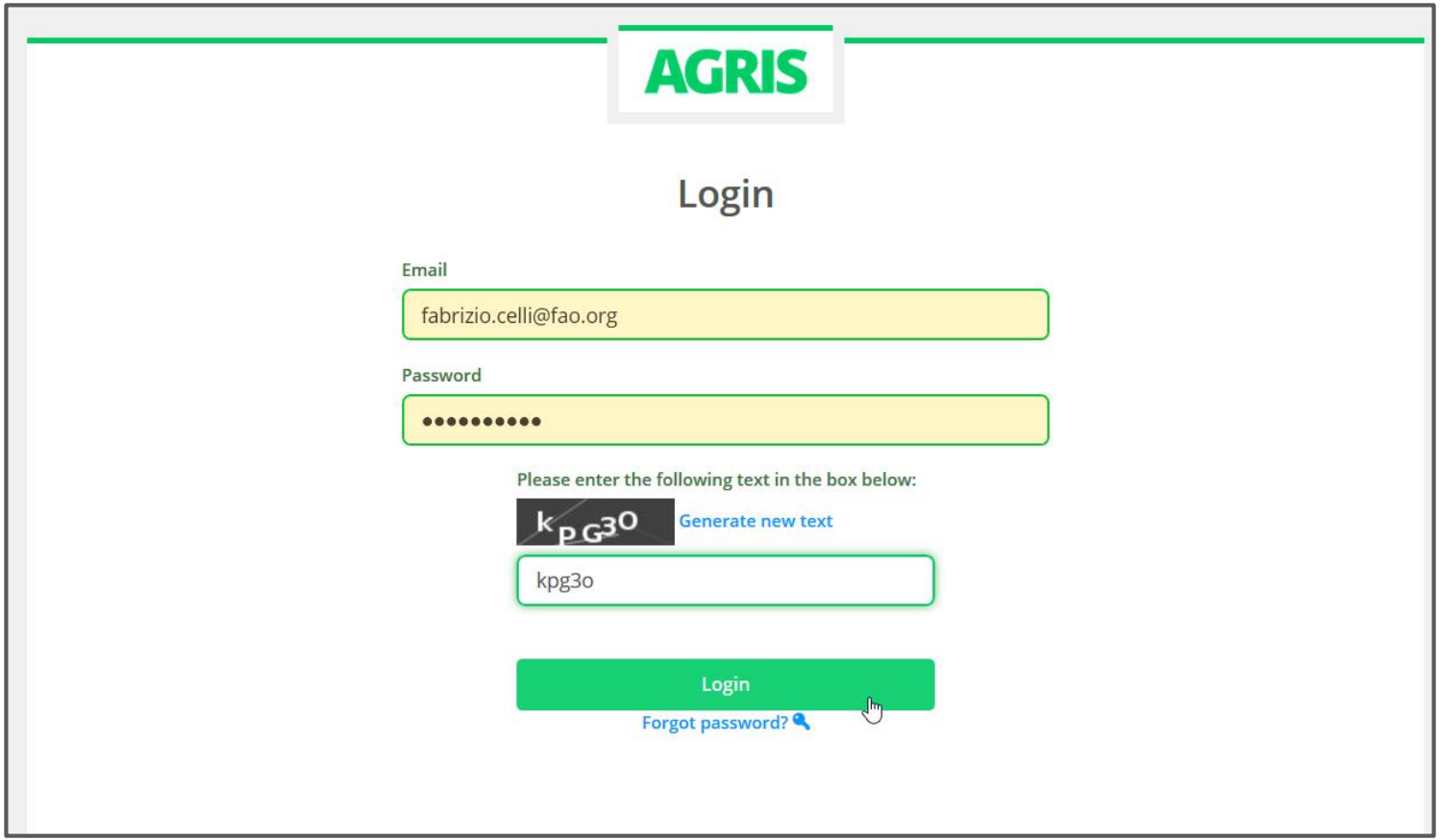
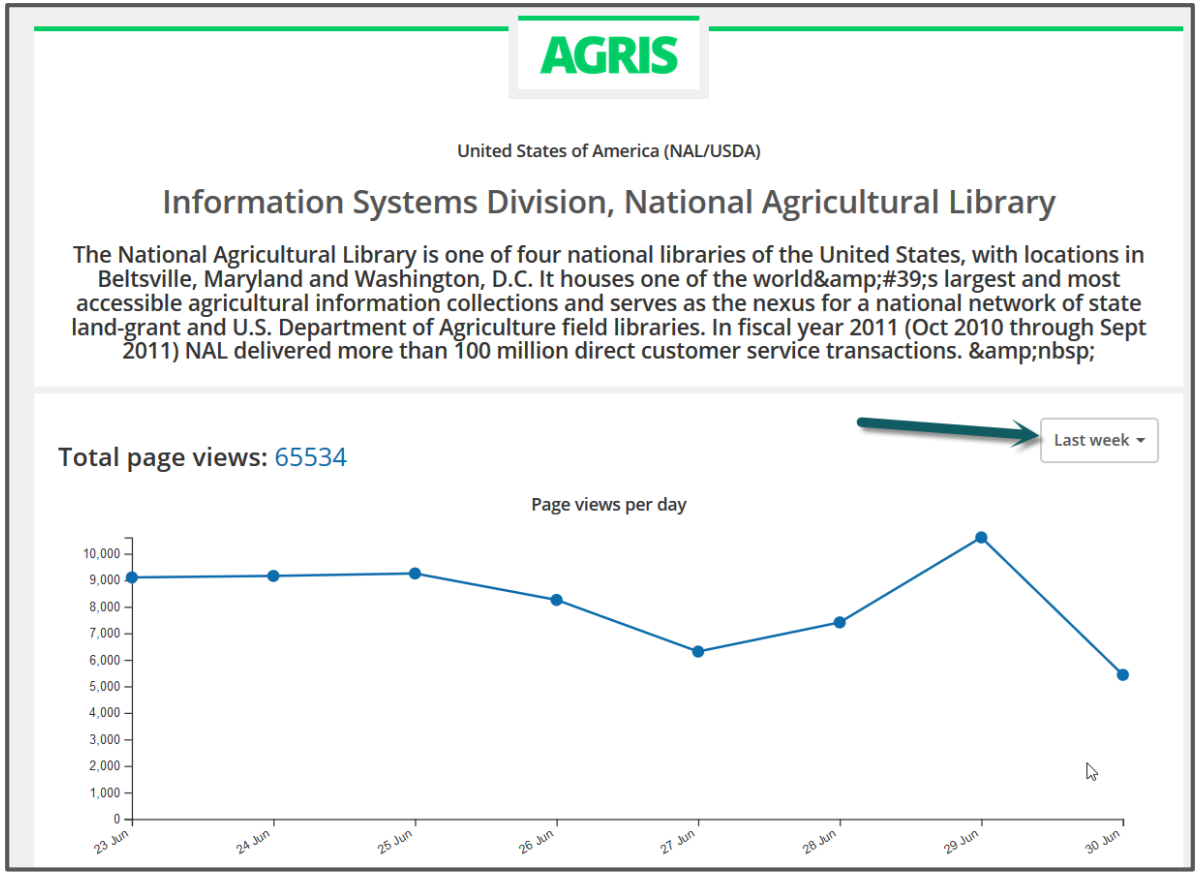
Data providers search pages



Login


AGRIS
Login
Email
fabrizio.celli@fao.org
Password
Please enter the following text in the box below:
kpg3o
Generate new text
kpg3o
Login
Forgot password?

Access statistics



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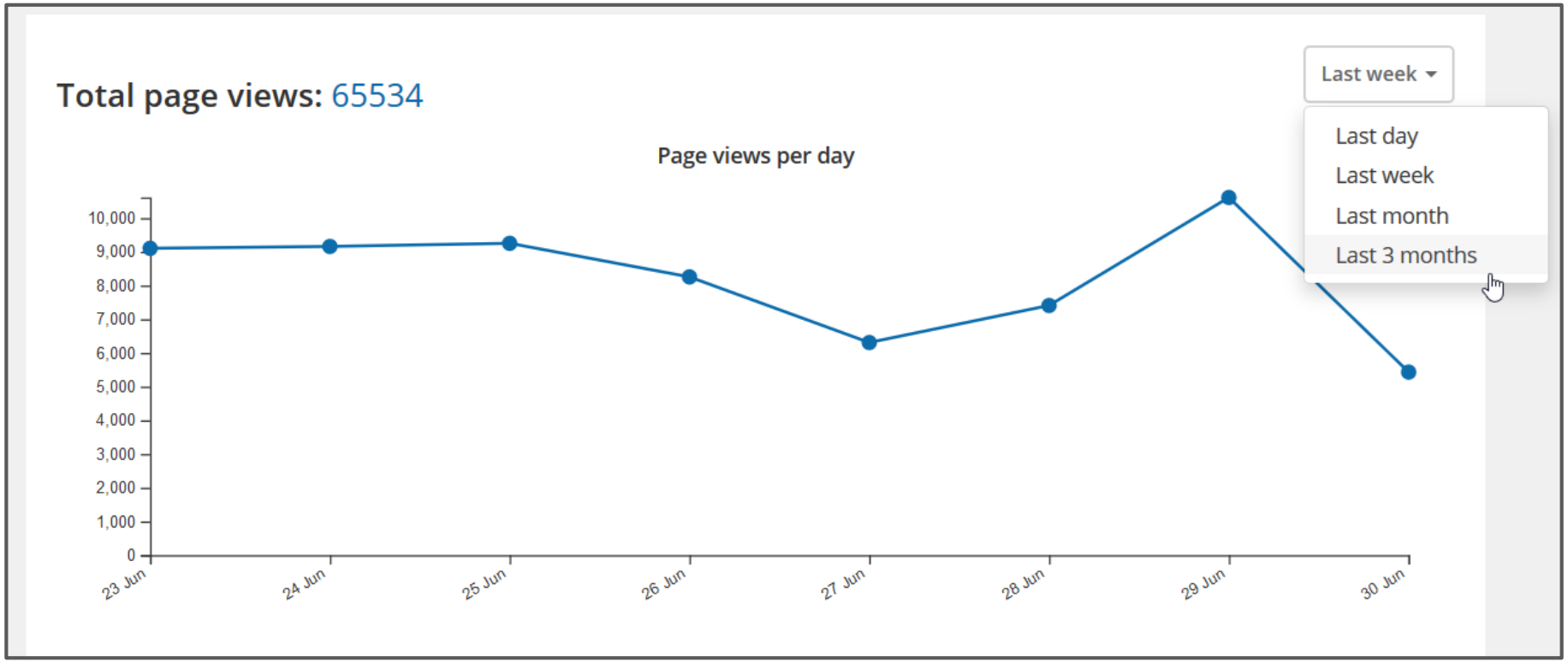
Change the time interval



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Top 15 most visited records

Most visited

	Name	Page views
1	Chemical composition of poultry meat: A comparison between broilers, soup hens, turkeys, ducks and geese	210
2	Antimicrobial activity of limonene	142
3	Evaluation of antiviral activity of fractionated extracts of sage Salvia officinalis L. (Lamiaceae)	132
4	Economic importance, biological properties, cultivars and production practices of sunflower	119
5	The role and importance of some secondary metabolites (terpenes, alkanes and flavonoids) in trees	118
6	The role of Internet in human resource management	118
7	Characteristics of cross-cultural communication	102
8	Business plan in animal husbandry	81
9	Determination of total phosphorus in the meat products	75
10	Determination of anethole in essential oil and extract from fennel fruit (Foeniculi fructus)	71
11	PESTEL analysis of project management in water sector in Bulgaria	60
12	Onion production guide	59
13	Advantages and limitations in bioherbicides use	59
14	Dog poisoning with furadan 35-ST (carbamate insecticide)	56
15	Geographic information systems for rural development planning and management	49

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New AGRIS Open DataSet (ODS)

AGRIS is currently building up an **open data set** which can be shared with third parties and ensure an even wider dissemination of information about metadata records.

As a Data Provider, you can choose to participate in the AGRIS open data set or not.

It is recommended to make your metadata open for the AGRIS open data set to enhance visibility of your information resources.

Please let us know if you would like to join the AGRIS open data set with your open metadata.!

Testimonials

"There are many benefits of participating in AGRIS. First of all, it is an international collaboration and partnership. The participation of the University library in AGRIS helps to increase visibility and accessibility of agricultural contents issued in the Republic of Moldova in the information global space. It also helps to facilitate the information and data exchange in the field of agricultural sciences and provides reliable AGRIS user services."

Viorica Lupu, State Agrarian University of Moldova (Republic of Moldova)

"AGRIS creates a great benefit for the younger Georgian generation, who are interested in the agricultural domain and it opens the door to the rich collection of research documents, which represents the great possibility to find the potential for collaboration, examples for analyzing problems and others' methods of resolutions of problems."

Marina Razmadze, Techinformi (Georgia)

AGRIS enables discoverability

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AGRIS brings discoverability

- Shared infrastructure for research literature and data
- Findable, interoperable and discoverable content
- AGROVOC multilingual thesaurus
- Trusted organisational support
- Enabling scholarly communication for all

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Hybrid structure: data & service provider

- AGRIS metadata guidelines: descriptive, compliant with standards
- Semantic technology for interoperability
- Use policy and adoption of Creative Commons BY IGO 3.0
- AGRIS Open DataSet (ODS) to enhance visibility
- Google Scholar collaboration
- Dashboard for usage statistics

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Takeaways

- Beware of inequalities in scholarly communication landscape
- Ask for bibliodiversity and respond to relevant calls
- Improve the ways in which the outputs of scholarly research are made available by
  - using repositories and aggregators compliant with standards
  - adopting open and interoperable standards
  - making your research available in shared, trusted infrastructure services like AGRIS

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The AGRIS team

IMMA SUBIRATS

Information management officer, AGRIS programme manager

FABRIZIO CELLI

Software engineer, AGRIS technical lead

STEFANO ANIBALDI

Information management specialist, AGRIS data curator

DANIELE OLIVOTTI

Software developer, AGRIS technical support

CHELSEY SCALESE

Information management specialist, communications support

TIZIANO DI CONDINA

Software developer, AGRIS technical support

GIAMPAOLO RUGO

Information management specialist, AGRIS helpdesk

Contact us! AGRIS@fao.org Follow along on Twitter @FAOAIMS