

asabe.org



Metrics Report

2023
volume 5
presented April 2024

E-09 Performance Metrics committee

Keith G. Tinsey, chair
Dana O. Porter, vice chair
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Paul H. Heinemann (2024)
Douglas R. Otto (2024)
Ernest (Bill) W. Tollner (2026)
Lalit R. Verma (2024)
Jerry L. Wille (2024)
Chad Yagow (2026)

Our Vision

is a world where all have the food, water, energy, fiber, and safe environment needed to thrive



Goals and Strategies



Cultivate

a diverse, thriving, and engaged membership.



Raise the Prominence

of the agricultural and biological engineering profession.



Position ASABE

as the preferred engineering society for technical professionals in agriculture, food, and biological systems.



Advance

ASABE as the leading source of expertise in agricultural, food, and biological systems engineering.

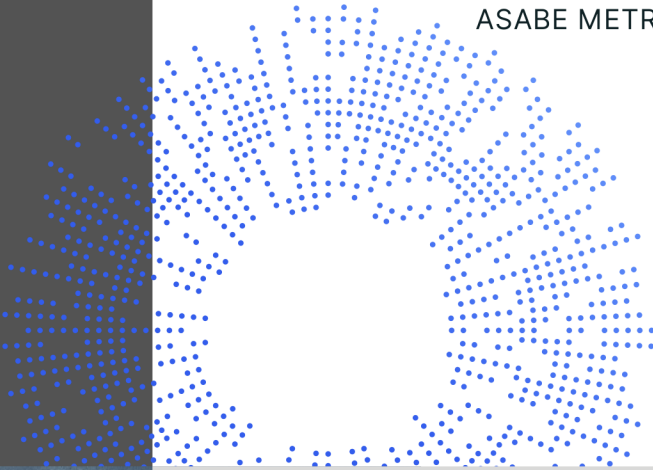


Lead

development and maintenance of relevant technical standards.

- Provide an inclusive culture that values diversity.
- Provide a range of opportunities for engagement during all career stages across academia, industry, and government.
- Enhance visibility of the profession.
- Partner with agricultural and biological engineering societies globally to promote the profession.
- Facilitate interaction of professionals across cultural, geographical, and disciplinary boundaries.
- Demonstrate value of membership to members and potential members.
- Strengthen ASABE's leadership in global issues to broaden opportunities and relationships among those who work in the agricultural and biological engineering profession.
- Provide high quality, relevant information via refereed journals, issue statements, webinars, and other media.
- Implement an agile and comprehensive program to market the knowledge base of ASABE to members, non-members, and other technical communities.
- Leverage our accreditation with ANSI / ISO to expand inter-connectivity with other organizations globally.
- Maintain robust technical committees to develop standards.
- Market standards to different target audiences (through bundles, packages, site licenses, search engines, inclusion in model codes).

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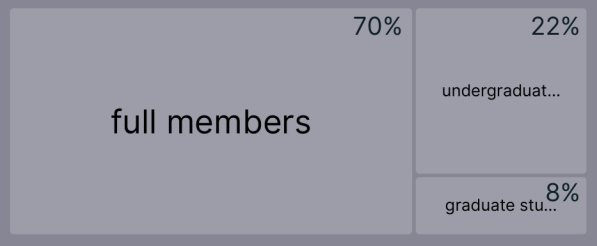
Demographics

Membership Trends

7,542

Total membership, compared to a total membership of 5,878 in 2020

membership distribution



77%

2023 membership retention rate. Average retention is 82% over four years

2022

Implementation of free student membership

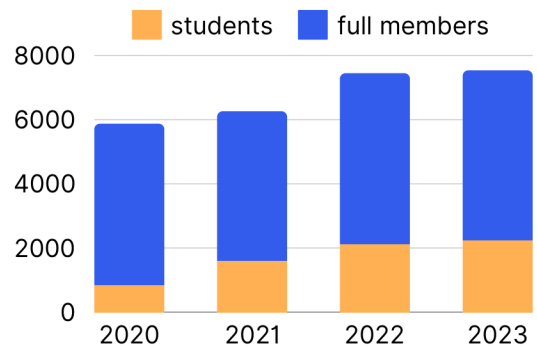
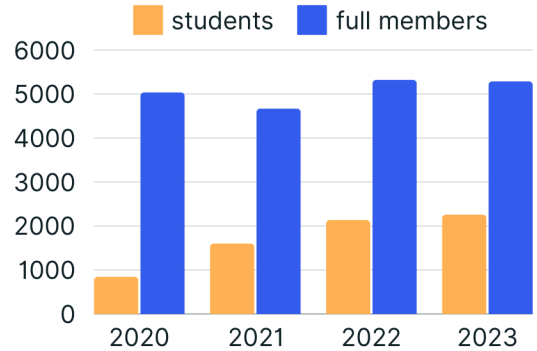
267%

Student membership increase since 2020

291

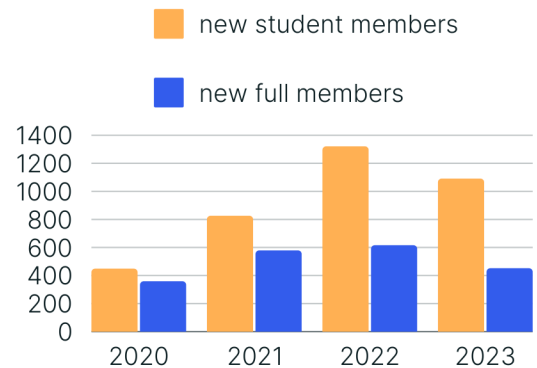
Institutions represented by student membership, an increase of 245% since 2020

Total Membership



Includes undergraduate and graduate students

New Members

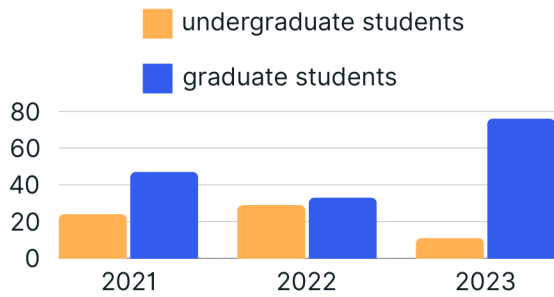


Emeritus Membership

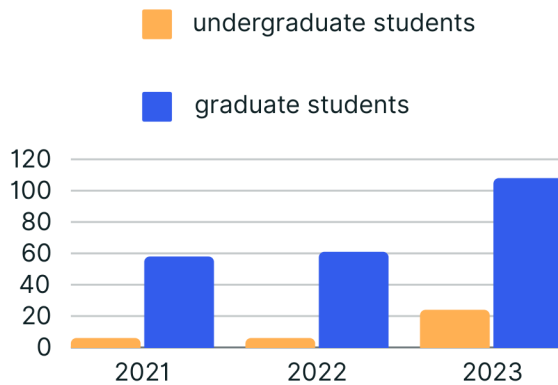
Instituted in 2018 by board directive, a no-cost membership is available to current members aged 65 and above when age + years of membership is equal to or above 100. At the close of 2023, there were 851 emeritus members.

Membership Trends

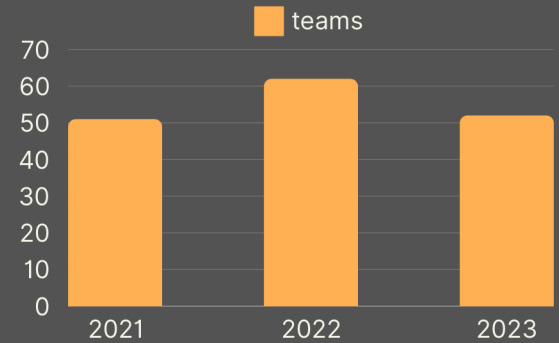
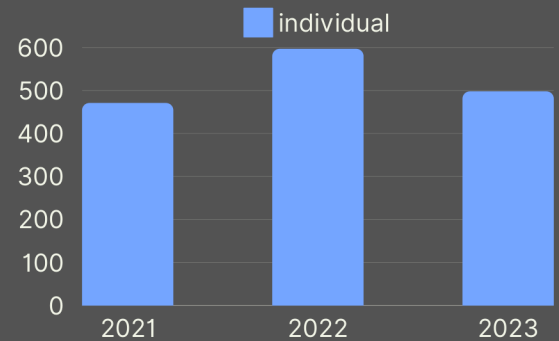
Students Transitioned to Paying Members



Students in Committee Work



Competitions Program

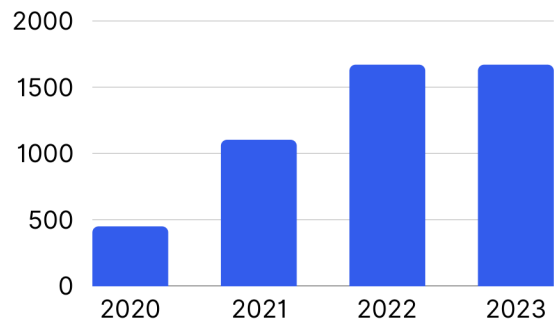


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Competition events are held at AETC, Quarter Scale, and AIM

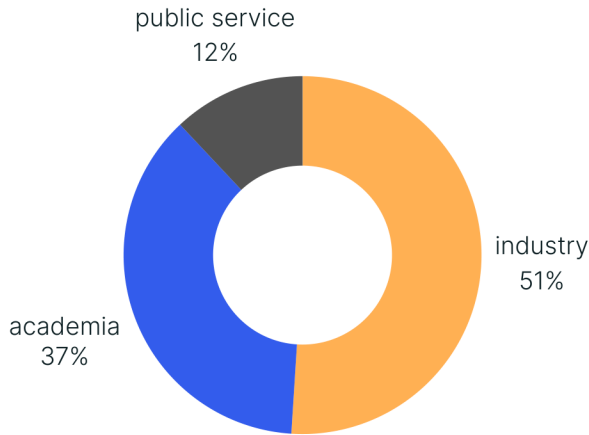
ISB Community

International Student Branch is comprised of all undergraduate student members

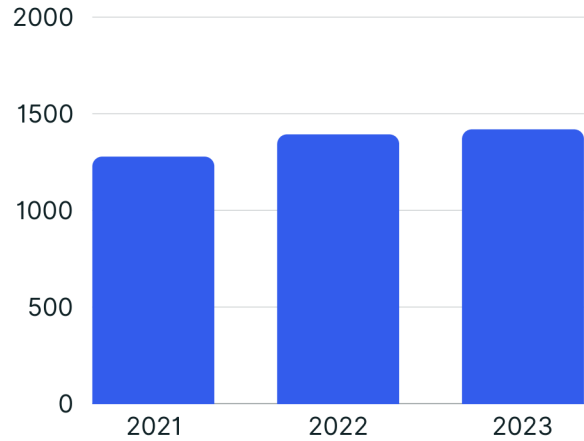


The ASABE Professional

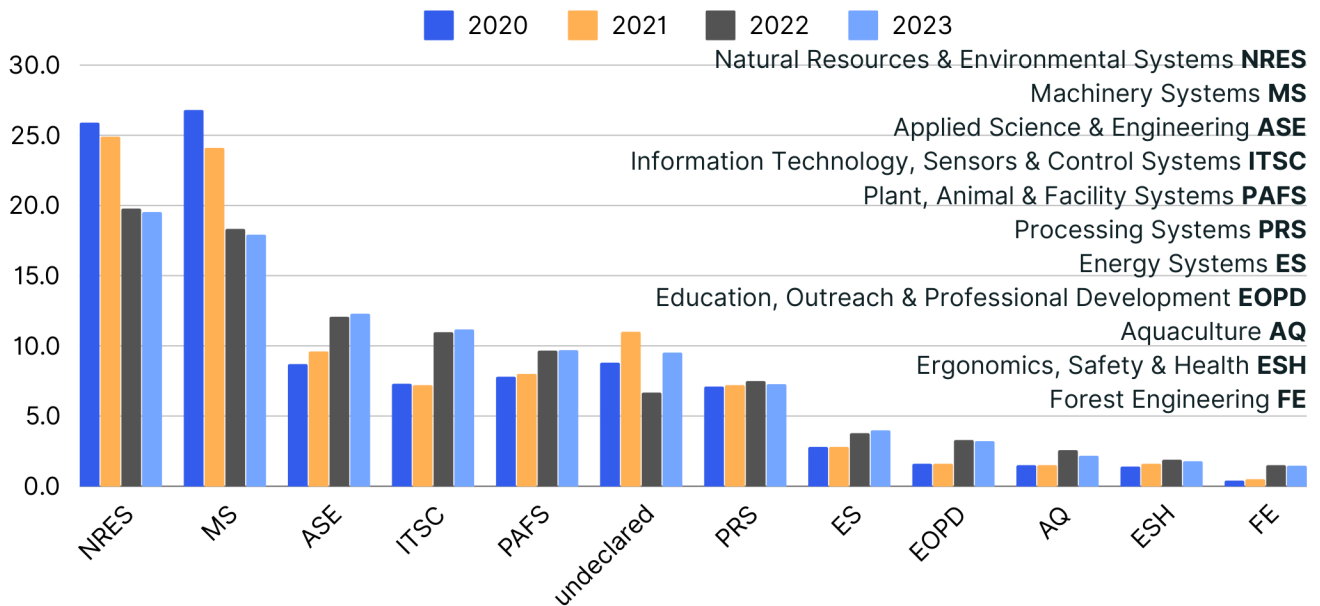
Employment Type



Members in Committee Work



Percent of Primary Technical Interest Area



**top 6
2020**

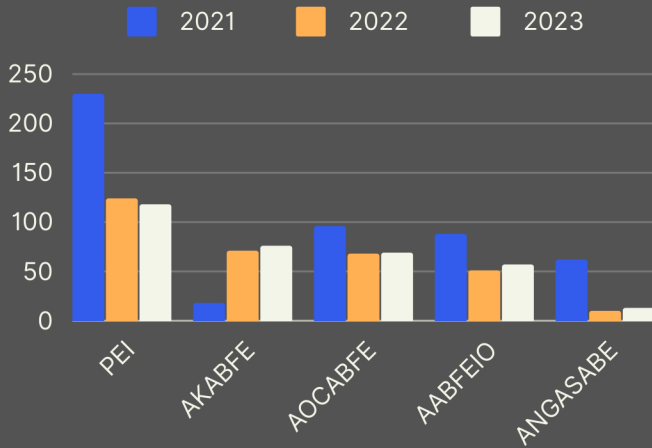
- MS
- NRES
- undecided
- ASE
- PAFS
- ITSC

**top 6
2023**

- NRES
- MS
- ASE
- ITSC
- PAFS
- undecided

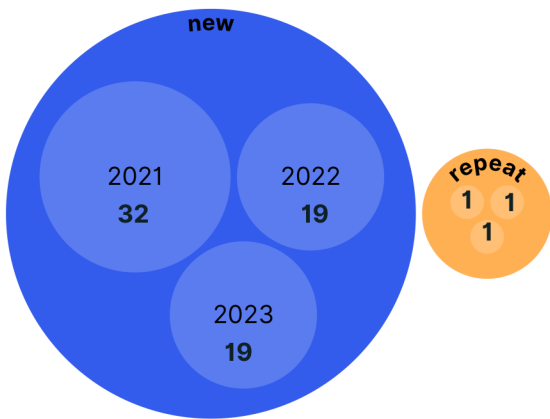
The ASABE Professional

Membership by Community



PEI Professional Engineers Institute
AKABFE Association of Korean Agricultural, Biological, and Food Engineers
AOCABFE Association of Overseas Chinese Agricultural, Biological, and Food Engineers
AABFEIO Association of Agricultural, Biological, and Food Engineers of Indian Origin
ANGASABE African Network Group of ASABE

ABE PE Test Takers



Members in YPC

2112 community with the highest membership
 YPC Young Professionals Community

Professional Licensure

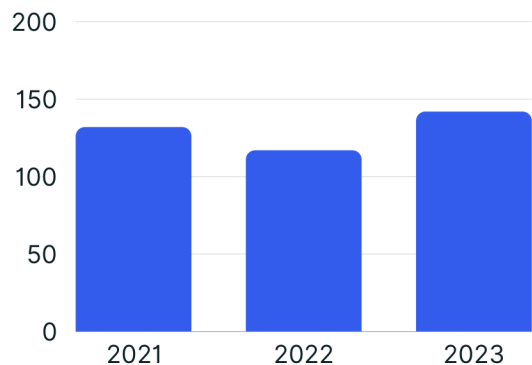
31% Globally, 1661 or 31% of full members hold PE licensure or their country's equivalent

Active Mentors

89 over the past 4 years, averaged 82

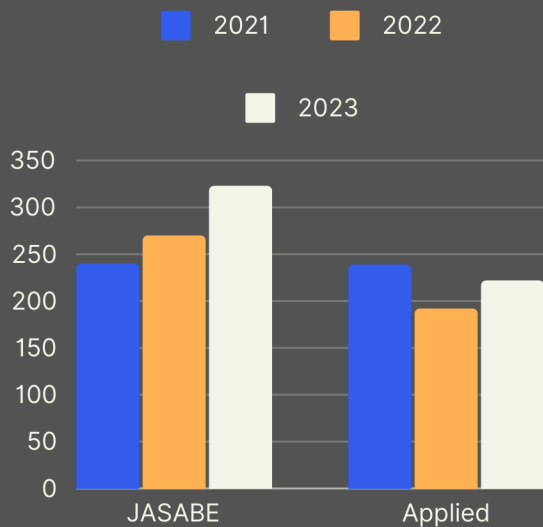
Major Award Nominations

128 four year average

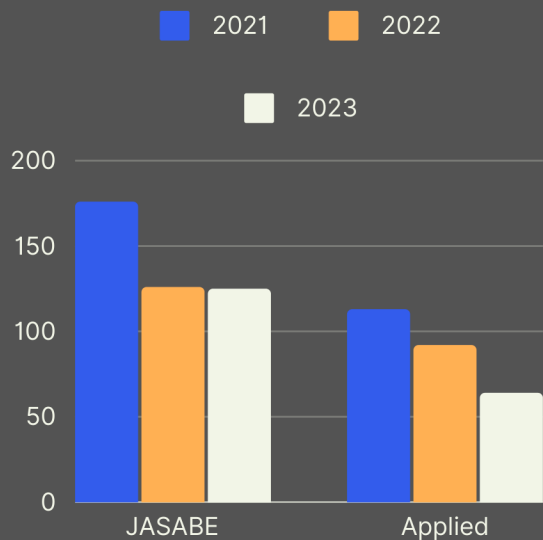


Journals and Publications

Manuscripts Submitted



Manuscripts Published



ASABE publishes four journals: *Journal of the ASABE (JASABE)*, formerly *Transactions of the ASABE*, *Applied Engineering in Agriculture (Applied)*, *Journal of Agricultural Safety and Health (JASH)*, and *Journal of Natural Resources and Agricultural Ecosystems (JNRAE)*.

Created in 1995 and published four times per year, **JASH** received its first impact factor of 1.0 in 2023.

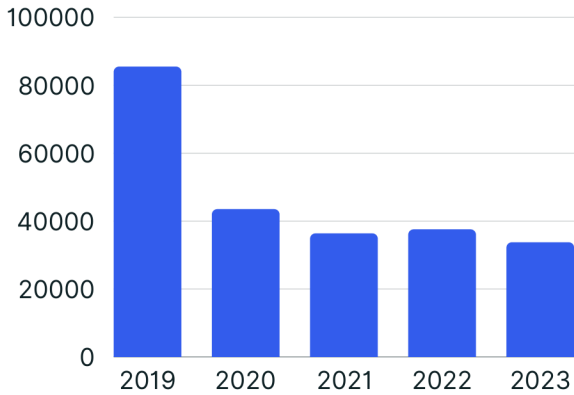
The **JNRAE** debuted in 2023. By year's end, 24 manuscripts were submitted, 12 were accepted, four were rejected, and eight are in process.



Journals and Publications

PDF Downloads

all journals

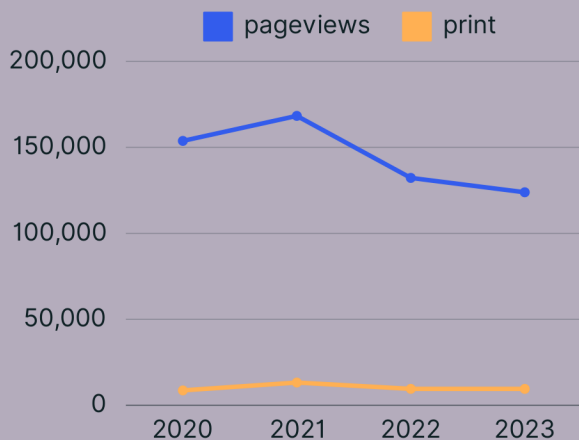


PDF downloads decreased by 60% since 2019.

BioSystems Book PDF Downloads

... were first made available in 2020, and stands at **56,744** downloads. This is a cumulative total.

RESOURCE Magazine



Cited Half Life

...is the median age of the articles that were cited in that year.

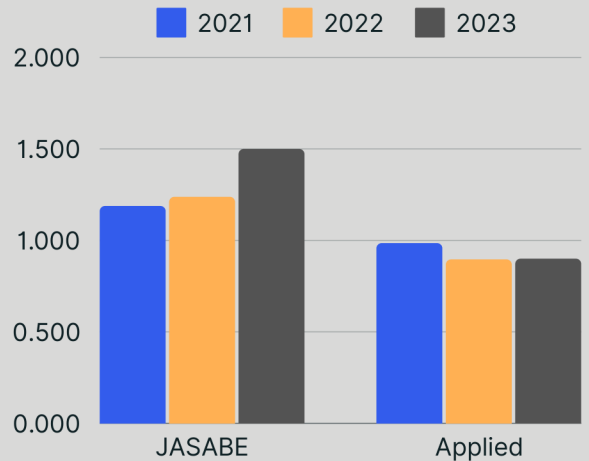
- *JASABE* has a cited half life of **15.8**, up from 15 in 2020.
- *Applied* has a cited half life of **13.1**, an increase from 12.5 in 2020.

Total Cites

...is the total number of times that a journal has been cited by all journals included in the Web of Science database.

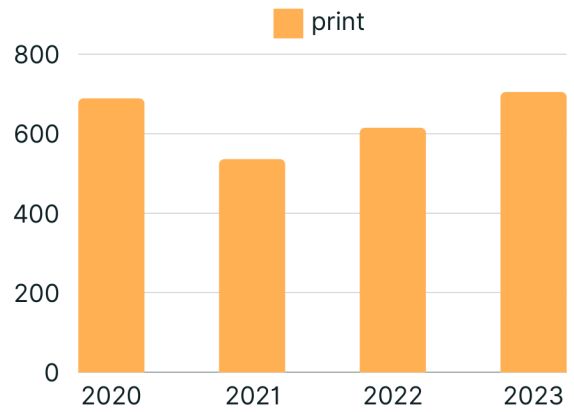
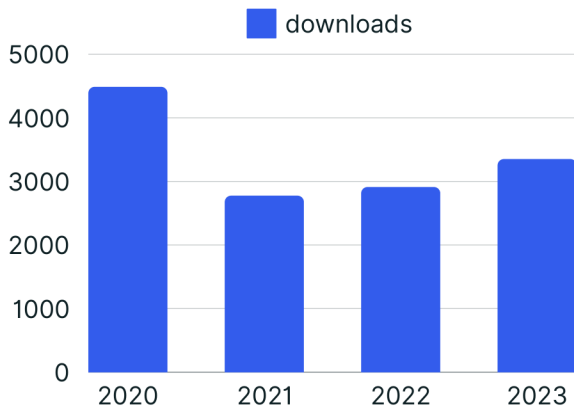
- *JASABE* had **11,208** cites in 2023, with an average of 11,154 cites over 5 years.
- *Applied* had **2,561** cites in 2023, with an average of 2,419 cites over 5 years.

Journal Impact Factor

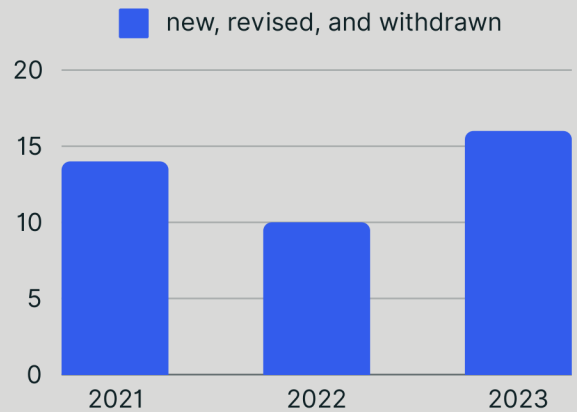


Journals and Publications

Textbook and Module Distribution



Standards



The **2023 collection of ASABE standards** contains 286 current standards, engineering practices, and data applicable to agricultural equipment and systems, irrigation and drainage, structures, turf and landscape equipment, food engineering, and electric power applications.

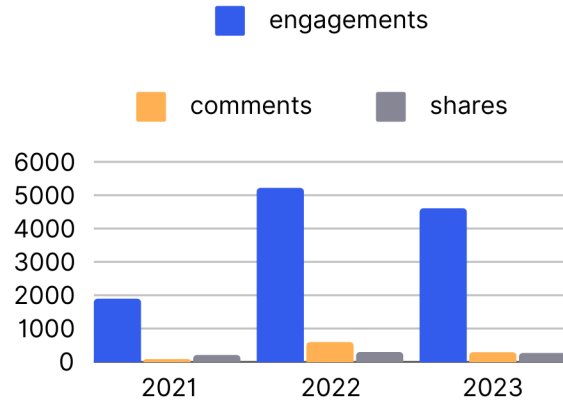
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ASABE administered TAGs

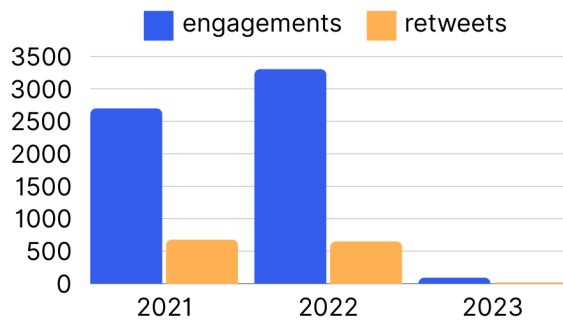
Communications

Activity - Select Channels

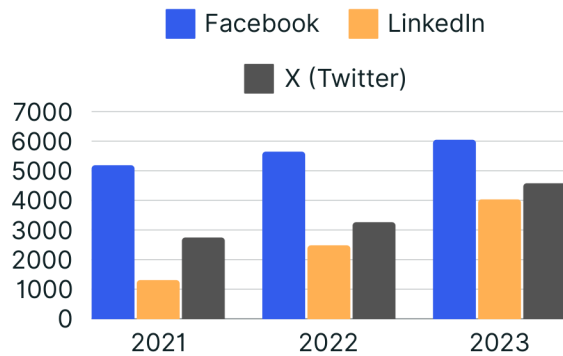
Facebook



X (formerly known as Twitter)

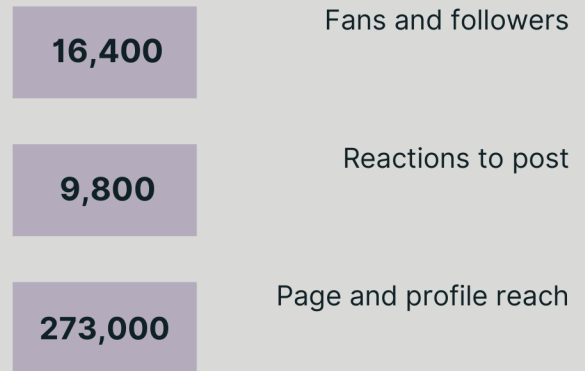


Audience Growth



Activity - All Channels

aggregates for all accounts

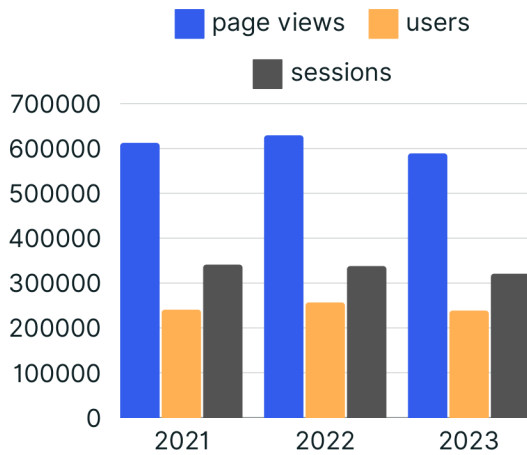


engagement - reactions of any kind
audience - fans and followers



Communications

Website Usage



Pageviews

...refer to each individual time a page on the website is loaded by a user.

Users

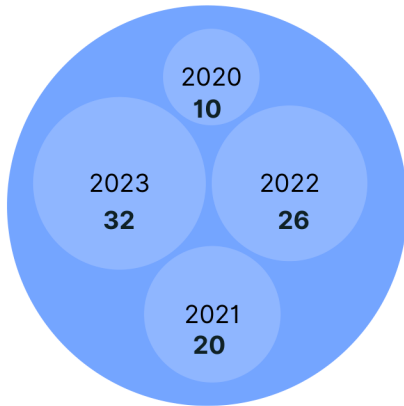
...are the individuals that visit the website.

Sessions

...can include many pageviews, if a user navigates to any other page(s) on the website without leaving.

In 2022 and 2023 the highest month of usage across all three measures was January.

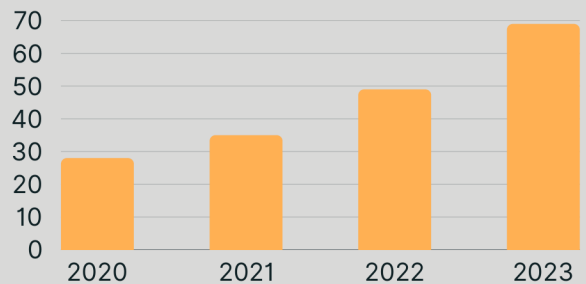
Media Mentions



Partnerships

...are a count of active collaborations outside of ASABE within the last three years on technical programming such as conferences, standards, and publications.

The four year average totals 45 partnerships.



Meeting Participation

Meeting Registration

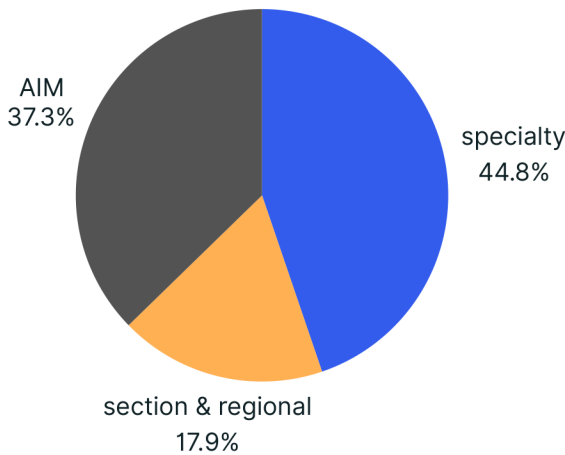


Meeting participation includes all meetings, conferences, and events administered by ASABE through the registration platform. This does not include endorsed conferences. Participation in virtual meetings is counted during the event and is included in the specialty events count. Specialty events include Member Hours, standards trainings, AETC, rallies, and section outings, as well as specialty conferences.

AIM registration has averaged 1,541 over the previous five years.

2022 marked the return to in-person meetings.

Participation across Event Types



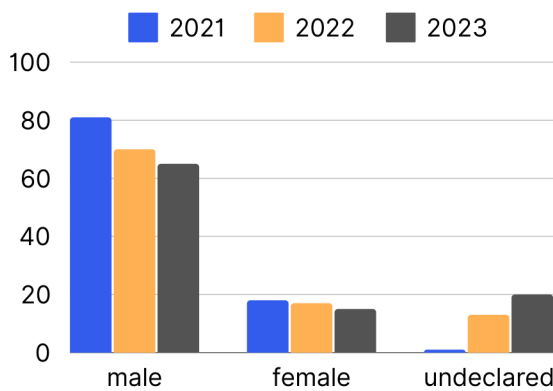
Meetings Held in 2023



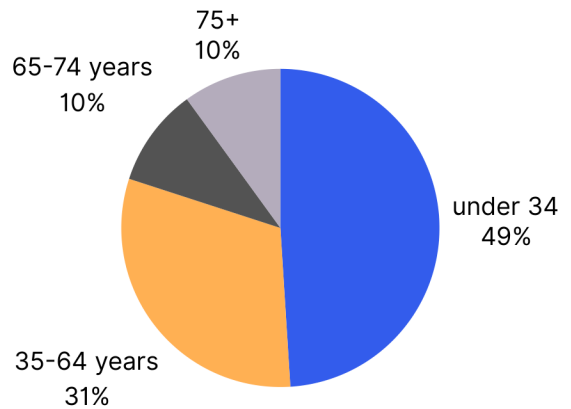
During 2023, 54% of the meetings were held in person, compared to 71% in 2022.

Demographics

Gender*

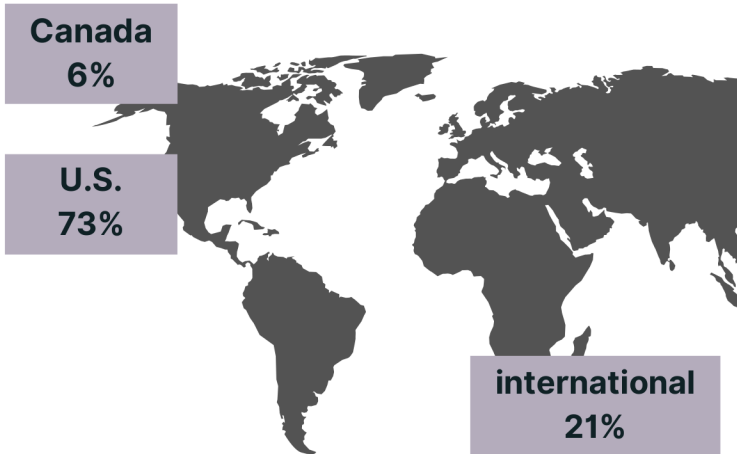


Age



Country

85 countries represented



Race / Ethnicity*

1507 respondents

33.4%	Asian
29.2%	White
22.3%	Black / African-American / African
8.1%	Hispanic / Latinx/ Spanish origin
3.2%	Middle Eastern / North African
1.5%	no response
1.2%	American Indian / Alaska Native
1.1%	other
.1%	Native Hawaiian / other Pacific Islander

Access Challenges*

249 respondents

79.4%	prefer not to say
8.8%	mental disorder
5.5%	not applicable
5.1%	difficulty hearing / deaf
2%	difficulty / unable to walk / climb stairs
1.6%	other

Orientation and Identity*

68.0%	straight
22.0%	LGBTQIA+
9.6%	prefer not to say

*self-identified