# **High-level accessibility review - LAA** (ASABE Platform)

# **Primary Point of Contact**

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# (ASABE Platform)

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## **ASABE Platform**

## **Summary**

#### Top 3 problems for the ASABE Platform

This high-level assessment covers limited portions and functionality of the ASABE Platform. The assessment revealed issues with assistive technology compatibility, resulting in some users missing information required to understand content, states and operate functions. It is important to keep in mind that the findings represent a high-level assessment, and do not reflect the results of a Deque Comprehensive Web Assessment.

- 1. **Name, Role, Value –** Many of the form fields are missing accessible names.
- 2. **Info and Relationships** Tables are missing proper table heading markup, many items that are not headings are marked up as such, headings are out of order in such a way that the hierarchy of some pages is lost.
- 3. Label in Name Many form fields do not contain the visible label within the accessible name.

## **Accessibility findings**

#### **Project wide issues**

The issues presented in this section were identified in multiple pages and are recorded here to avoid repetition. These are applicable to each screen. Due to particularities, similar issues are still reported on a page per page basis, where applicable.

#### **Automated findings using Axe**

Issues found through automated testing come from the Axe plugin, an open source accessibility testing tool that is available for Chrome, Firefox and Edge. Details here: https://www.deque.com/products/axe/.

No automated issues found that are site wide.

#### Additional manual findings using NVDA screen reader

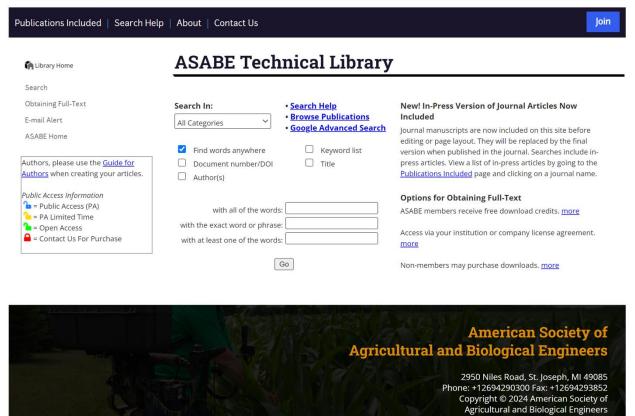
1. **SC 1.1.1 A** – Non-text Content - The ASABE logo does not have appropriate alternative text. The alternative text is set as "ASABE Logo" but should be "ASABE Engineering a Sustainable Future".

#### 1. Landing Page

#### Source:

http://offcampus.lib.washington.edu/login?url=https://elibrary.asabe.org/toc\_landing.asp?conf=t3 **Test case:** Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible. Test Search Help and Browse Publications options.





#### **Automated findings using Axe**

- 1. **SC 4.1.2 A** Name, Role, Value Search in combo box does not have an accessible name.
- 2. **SC 4.1.2 A** Name, Role, Value Checkboxes do not have an accessible name.
- 3. **SC 4.1.2 A** Name, Role, Value Text fields (with all words, with the exact word or phrase, with at least one of the words) are missing accessible names.

#### Additional manual findings using NVDA screen reader

- 1. **SC 1.3.1 A** Info and Relationships The following are marked as headings but should not be: "Search Help, Browse Publications, Google Advanced Search, and Search In".
- 2. **SC 1.3.1 A** Info and Relationships "Search Help, Browse Publications, and Google Advanced Search appear to be a list but are not marked up as such.
- 3. **SC 2.4.4 A** Link Text (In-Context) There are multiple "more" links that all go to different destinations that all have the same programmatic name.

- 4. **SC 2.5.3** A Label in Name Text Fields (With all of the words, with the exact word or phrase, with at least one of the words) have a visible label but no programmatic label so the visible label is not in the accessible name.
- 5. **SC 2.5.3 A** Label in Name Checkboxes (find words anywhere, keyword list, document number, title, Author) have a visible label but no programmatic label so the visible label is not in the accessible name.
- 6. **SC 2.5.3 A** Label in Name Combo box (Search In) has a visible label but no programmatic label so the visible label is not in the accessible name.

### 2. Search Results – Dairy Farming

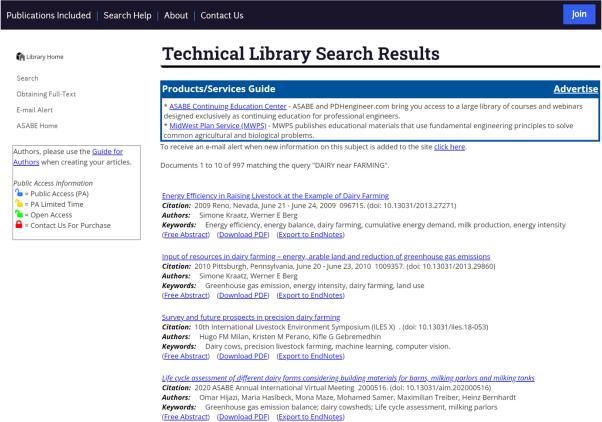
**Source:** https://elibrary-asabe-

org.offcampus.lib.washington.edu/newresults.asp?journals=All&anywhere=on&allwords=DAIRY+FARMING

&exactphrase=&oneword=&Action=Go

Test case: From the initial landing page, conduct a search for: dairy farming





#### **Automated findings using Axe**

No automated issues found.

#### Additional manual findings using NVDA screen reader

- 1. SC 1.4.1 A Color as Information In the public access information key the green (#02FE07) and yellow (#FDD903) locks do not have enough contrast (1:2) between them.
- 2. SC 1.4.11 AA Non-text Contrast In the public access information key the yellow (#FDD903) and green (#02FE07) locks do not have at least 3:1 contrast (1.4:1) with the white background (#ffffff).
- 3. SC 2.4.4 A Link Text (In-Context) There are multiple repeated links "Free Abstract, Download PDF, and Export to EndNotes" each link has a different destination but the same accessible name.

#### 3. Search Results Details

Source: https://elibrary-asabe-

org. of f campus. lib. was hington. edu/az dez. asp? search=1 & JID=5 & AID=29860 & CID=pitt 2010 & T=1 & url Redirect to the control of th

=

Test case: Test individual search result landing page & test actual document (PDF, video, etc.).



#### Input of resources in dairy farming - energy, arable land and reduction of greenhouse gas emissions

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This is not a peer-reviewed article.

Paper No: 1009357 An ASABE Meeting Presentation

Written for presentation at the

2010 ASABE Annual International Meeting Sponsored by ASABE David L. Lawrence Convention Center Pittsburgh, Pennsylvania June 20 – June 23, 2010

Abstract. The sustainable use of natural resources and the impacts of greenhouse gas (GHG) emissions on the global climate have become important concerns world-wide.

This paper discusses the importance of management strategies in livestock keeping and how the intensity of production may influence the energy intensity, the generation of GHG emissions and the requirement of arable land. Therefore different milk performances as well as diet compositions are proofed by using site conditions of Germany.

The cumulative energy demand (CED) of the production of farm-produced forage is calculated on the base of direct and indirect energy inputs. The CED is linked with carbon dioxide (CO2) emissions. Methane emissions of enteric fermentation and of the excrements are determined as well as the soil-borne nitrous dioxide emissions.

The variation of the share of concentrate in a mixed ration shows that higher GHG emissions by the production of concentrate are compensated by its reducing effect on the emissions from digestion.

The GHG emissions for different milk performances vary in a range of 1.01 (4,000 kg ECM cow-1 year-1) to 0.38 kg CO2-equi. kg-1 ECM (12,000 kg ECM cow-1 year-1) as well as the energy intensity varies from 2.14 to 1.83 MJ kg-1 ECM, and the use of arable land from 1.71 m² to 1.09 m² kg-1 ECM, respectively.

The investigations show that improvements in resource use (e.g. fossil energy, land) and the mitigation of GHG emissions are not always in agreement. Therefore a holistic view on the environmental impacts in dairy farming is highly recommended to enhance its sustainability.

#### Automated findings using Axe

No automated issues found on this page.

#### Additional manual findings using NVDA screen reader

- 1. **SC 1.1.1 A** Non-text Content All the graphs and chart images use the filename as alternative text which does not describe the content of the image.
- 2. **SC 1.3.1 A** Info and relationships The headings on page are out of order in such a way that the hierarchy of the page is misrepresented. The headings are used based on visual size rather than the purpose of hierarchy.
- 3. **SC 1.3.1 A** Info and relationships All tables on the page have column header content but they are not setup with the proper semantic table headers.

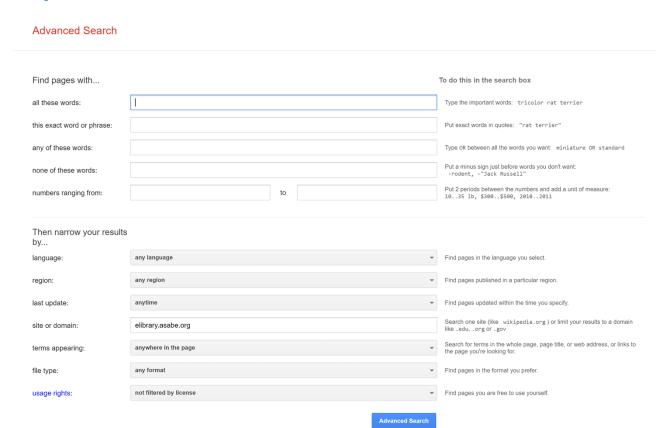
#### 4. Advanced Search

#### Source:

http://www.google.com.offcampus.lib.washington.edu/advanced\_search?as\_sitesearch=elibrary.asabe.org

Test case: Test advanced search page: Google Advanced Search

#### Google



#### **Automated findings using Axe**

- 1. **SC 1.4.3 AA** Contrast Minimum Gray (#777777) "To do this in the search box" text only has a 4.47:1 contrast ratio with the white (#ffffff) background and must have at least 4.5:1 contrast.
- 2. **SC 1.4.3 AA** Contrast Minimum Gray (#777777) footer menu text (help, privacy, terms) only has a 4.15:1 contrast ratio with the light gray background (#f2f2f2) and must have at least 4.5:1 contrast.
- 3. **SC 1.4.3 AA** Contrast Minimum White (#ffffff) "Advanced search" text only has a 3.41:1 contrast ratio with the blue (#4d90fe) button background and must have at least 4.5:1 contrast.
- 4. **SC 4.1.2 A** Name, Role, Value All six select boxes (language, region, last update, terms appearing, file type, usage rights) are missing an accessible name.

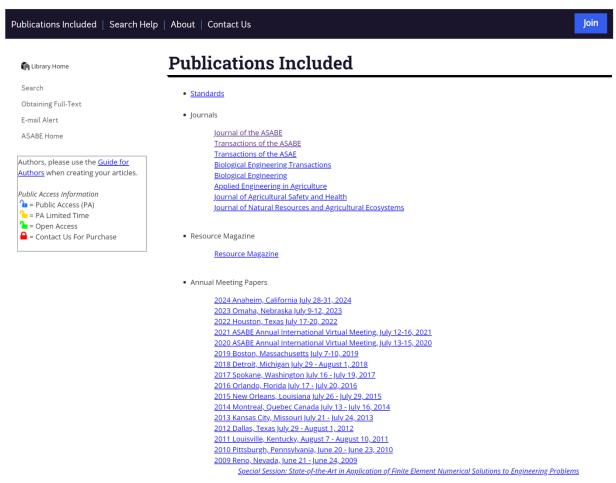
#### Additional manual findings using NVDA screen reader

#### 5. Browse Publications

Source: https://elibrary-asabe-org.offcampus.lib.washington.edu/toc.asp

Test case: Test Browse Publications





#### **Automated findings using Axe**

- SC 1.3.1 A Info and Relationships Definition list under journals, resource magazine, annual
  meeting papers, and section meeting papers are not formatted correctly. They are missing <dt>
  tags.
- 2. **SC 1.3.1 A** Info and Relationships Several lists (ul, ol) have direct children that are not allowed. This occurs on lists that are not nested properly.
- 3. SC 2.4.4 A Link Text (in context) There are two empty links under "section meeting papers".

#### Additional manual findings using NVDA screen reader

#### 6. Search Help

**Source:** https://www.asabe.org/TechnicalLibraryHelp ag

Test case: Test Search Help



# **Technical Library Help**

Return to Search

#### Contact Us

For assistance or for suggestions, please email TechnicalLibraryHelp@asabe.org. See the About page for an overview.

#### Searching the ASABE Technical Library

- Technical Library search engine See tips below. The percent (%) symbol wildcard does not work with the "with all of the words" option.
- Google search add your keywords to the search box. See notes at the end of this page about using Google.
- Google Advanced Search more control over the results with logical operators.
- Google Scholar add your keywords to the search box.
- Discovery Services other indexers like Meta and Scopus.

Site licenses are purchased by many libraries and allow full access to the documents that are available. Contact your library staff and request that they obtain a site license for your location. Without a site license, you have free access to the abstracts and the Endnote RIS reference download for a document.

#### **Technical Library Search Engine Tips**

Results are displayed in order of relevance. Relevance may be determined by how close one keyword is to another in the text.

Results are limited to 1000 listings. If you reach 1000, please change your query to see everything relevant to your search. Searches are not case-sensitive. The search will not fix spelling errors for you, so "ageing" and "aging" are not considered equal. Words with other spelling variations will be handled differently like "flavor" and "flavour", so choose the "with at least one of the words" option and search for both words. You may want to use wildcards for non-English characters. Also, see the Exceptions and Notes section near the end of this page.

#### **Automated findings using Axe**

- 1. **SC 1.4.4 AA** Resize Text In the <meta name="viewport"> Both initial-scale and maximum-scale are set to 1 which can prevent scaling and zooming.
- 2. **SC 2.4.4 A** Link Purpose (in Context) Search Icon and social icons use css graphics and do not have an accessible name.

#### Additional manual findings using NVDA screen reader

#### 7. Search Results Details Actual Document (PDF)

Source: https://elibrary-asabe-

org.offcampus.lib.washington.edu/pdfviewer.asp?param1=s:/8y9u8/q8qu/tq9q/5tv/L/7u34IGGP/GPMNHL. 5tv&param2=O/HL/IGIK&param3=HIO.PL.HGK.HGP&param4=27271

Test case: Test individual search result actual document (PDF, video, etc.).



An ASABE Meeting Presentation

Paper Number: 096715

# Energy Efficiency in Raising Livestock at the Example of Dairy Farming

#### Simone Kraatz and Werner E. Berg

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Written for presentation at the 2009 ASABE Annual International Meeting Sponsored by ASABE Grand Sierra Resort and Casino Reno, Nevada June 21 – June 24, 2009

#### **Automated findings using Axe**

Not completed due to insufficient time.

#### Additional manual findings using NVDA screen reader