I. Find Books

A) Reference Materials: Encyclopedias, Dictionaries, etc.
Reference materials offer background information and broad overviews of subjects. This information is often helpful in narrowing your topic and in selecting a specific area to explore further. Reference materials such as almanacs and yearbooks also provide quick access to statistical data.

1) Suggested Titles:


B) Library Catalog: Print and E-book Collections

The online catalog offers convenient access to titles housed at all VC library locations. At the catalog screen, select “Search the Catalog” to locate titles or subjects that match your terms such as “rangeland management.”
C) **Browse the Collection**

Physically browse the agricultural titles shelved by call number in the following Library of Congress Classification ranges:

- S: Agriculture (General)
- SF: Animal Culture
- SB: Plant Culture
- SH: Fish Culture and Fisheries
- SD: Forestry
- SK: Hunting

II. **Find Articles**

A) **Article Databases**

1. **Academic Search Complete**: This database searches numerous journals to offer full text articles on nearly all subjects including agriculture. Coverage includes the following journals:

   - *Advances in Agriculture and Botanics*
   - *American Journal of Experimental Agriculture*
   - *Journal of Agronomy and Crop Science*
   - *International Journal of Agriculture, Environment & Biotechnology*
   - *Precision Agriculture*
   - *Crops*
   - *Journal of Farm Economics*
   - *Energy in Agriculture*

   and over one hundred others. Select from a number of different limiters to customize your search, including cover stories, publication dates, page numbers, etc.

   **Citing the articles**: The database offers formatting rules with examples for citing the articles selected. For assistance in citing the articles, select the “Help” link in the upper right corner of the screen, scroll to view “Citation Styles” in the left menu bar, and then choose the documentation style of your choice.
2. **Agricola**: U.S. Department of Agriculture’s National Agricultural Library, which contains hundreds of links to both books and articles in the field of agricultural literature.

   While these books and articles are not available electronically, an Interlibrary Loan (ILL) request can be submitted to the Vernon College Library for desired materials.

**In-house Magazines and Journals**: *The Cattleman*, *Progressive Farmer*, and *Western Horseman* are all available in the reference section of the Wright Library, located on the Vernon campus.

### III. Suggested Websites

**American Society of Agronomy**: Examining how soil and crops interact, agronomy is a science and a practice that looks at agriculture from an integrated, holistic perspective.

**Agricultural Marketing Service @ USDA Portal**: Administers programs that facilitate the efficient, fair marketing of U.S. agricultural products, including food, fiber, and specialty crops.

**ATTRA-National Sustainable Agriculture Information Service**: An agency committed to providing high value information and technical assistance to farmers, ranchers, Extension agents, educators, and others involved in sustainable agriculture in the United States.

**Agricultural Statistics**: Published annually to provide a reliable reference for agricultural production, supplies, consumption, facilities, costs, and returns. Annual editions from 1994 to present are available in PDF format.
The Research Process

1) Select a topic that you find interesting and appropriate for the assignment.

2) Review reference sources such as subject encyclopedias for background information to help focus or narrow the search.

For example, students interested in integrated pest management may consult the Encyclopedia of Plant and Crop Science for ideas in narrowing the focus to a particular type of IPM program such as host plant resistance.

3) Restate the topic as a question. Inquiry is at the heart of the research process, a quest to locate information which answers questions and leads researchers to a greater understanding of the topic.

Restating the topic as a question will help in:
- Locating information that is useful and relevant to the primary focus or thesis of your research.
- Identifying the keywords or phrases to use in the search statement.

Example: How has host plant resistance been used to improve pest management?

4) Develop a search statement by combining keywords or concepts from the research question. For example, “host plant resistance” and “pest management” were identified as keywords in the question above. By connecting one or more terms with the Boolean operator “and”, the researcher will retrieve only those articles that discuss both concepts, thus improving the relevancy of the search.

Enter in search field: host plant resistance and pest management

5) Develop alternate search statements to improve the search results. Authors may use various terms to describe the same concept.

For example, pest control is often used in the same context as pest management.

By identifying and connecting alternate terms, researchers may expand the search results. As indicated below, consider brainstorming and listing synonyms or word variations to identify alternate keywords.

<table>
<thead>
<tr>
<th>Concept 1</th>
<th>Concept 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>host plant resistance</td>
<td>AND</td>
</tr>
<tr>
<td>genetic engineering</td>
<td>AND</td>
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<tr>
<td>crop breeding</td>
<td>AND</td>
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<tr>
<td>insect resistance</td>
<td>AND</td>
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<tr>
<td>pest management</td>
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<td>disease control</td>
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<tr>
<td>weed control</td>
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<tr>
<td>pest control</td>
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</tbody>
</table>
6) Evaluate information for objectivity and reliability.

7) Cite the information borrowed from other authors or informational sources. Careful documentation will ensure that credit is given with no intention to plagiarize or claim ownership of information belonging to other researchers. For explanations and examples, visit the Duke University Library’s Citation page.

Questions?

Email: librarian@vernoncollege.edu

Chat: “Ask the Librarian” link on the Library homepage.

Phone: 940-552-6291 ext: 2222