HISTORY OF STATISTICS IN ECOLOGY: SEARCH ENGINE PROTOCOL

- 1. Go to Web of Science via the University of Chicago Library.
- 2. Click on **Advanced Search** > Copy and Paste the following Search Criteria in the search box: ((TS=("ecolog*") AND SU=Environmental Sciences & Ecology AND WC=Ecology))
 - a. Under "Restrict results by languages and document types:" select **English** and **Article**.
 - b. Under "Timespan" select Custom year range from years 1900 to 1999.
 - c. Under "Web of Science Core Collection: Citation Indexes" **keep all indexes selected** (SCI-EXPANDED, SSCI, A\$HCI, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC.)
- 3. Press **Search**. You will see 13,613 results. Scroll down to "**Source Titles**" at the bottom of the left hand side handle. Click on the drop down and select **ECOLOGY**. Click **Refine**. You will see 1,100 results.
- 4. Here is a summary of your **search criteria that you can copy** in the top right corner of the page under the "Results" number. Be sure to copy this each time you search in a **new way**.

You searched for: (((TS=("ecolog*") AND SU=Environmental Sciences &

Ecology AND WC=Ecology))) AND LANGUAGE:(English) AND DOCUMENT TYPES:(Article)

Refined by: SOURCE TITLES: (ECOLOGY)

Timespan: 1900-1999. Indexes: SCI-EXPANDED, SSCI, A&HCI, BKCI-S, BKCI-SSH, ESCI, CCR-

EXPANDED, IC.

- 5. Scroll to the very bottom of the first page. Set "**Show**" to **50 per page**, which means 22 pages to flip through.
- 6. At the top of each page, click on **Export > Excel >** select "**All records on page**" (e.g. 1-50) > under "Record Content" click on "**Full Record**" > **Export**
- 7. Now apply Manual Filtering Criteria.

FILTERING CRITERIA

- 1. Remove articles that are <u>not</u> studies. An article needs to contain a topic on natural research in the title. Ask yourself, *is it a direct study rather than a scientific review, meta-analysis, or opinion?*
 - a. What is 'research'? Research is observations, conclusions, experiments, and/or methods.
 - b. What is 'natural'? Natural is biotic and abiotic factors decentralized from humans. For example, we are not interested in 'human ecology', but the ecology of non-human life forms.
- 2. Remove studies that are duplicated in the search.
 - a. In the exported Excel sheet(s), select the "Article Title" column > Home tab > Conditional Formatting > Highlight Cell Rules > Duplicate Values... > OK
- 3. Remove papers with citation counts of <= 0.
 - a. Compute a new column called CiteX. CiteX = "Times Cited, All Databases" "Since 2013 Usage Count"
 - Sort the data based on citation count. Press Ctr + a to select the data then > Data tab > Sort > Sort by CiteX > Order Largest to Smallest > OK

STOP