

# Evidence Synthesis in Biology, Ecology, and Agriculture

## Guidelines for Writing Evidence Syntheses:

- [Campbell Collaboration](#) - a multidisciplinary guide to knowledge synthesis methodology
- [Systematic Reviews for Animals & Food](#) - A collection of resources to support the steps of the review process
- [The Collaboration for Environmental Evidence](#) - guidelines for knowledge synthesis methodologies in environmental management
- [Guidelines for systematic review in conservation and environmental management](#) – paper published in *Conservation Biology* by A. Pullin (2006).

## Evidence Synthesis Reporting Standards:

- [PRISMA - Preferred Reporting Items for Systematic Reviews and Meta-analysis](#) - The most popular reporting standards used in systematic reviews. PRISMA also provides reporting standards for various other types of knowledge synthesis (including protocols).
  - [PRISMA for Ecology and Evolutionary Biology \(PRISMA-EcoEvo\)](#)
- [Systematic Review Checklist: A Standardized Technique for Assessing and Reporting Reviews of Life Cycle Assessment Data](#) – based on the 2009 PRISMA guidelines, but specialized for LCA.

## Where to Find & Register Protocols:

- [Open Science Framework Registries](#) – a multidisciplinary registry for knowledge synthesis protocols

## Potential Places to Search:

Databases	Grey Literature
Scopus	ProQuest Dissertations and Theses
Biosis Citation Index	Site searching – Major organizations & associations
Earth, Atmospheric, & Aquatic Sciences	Site searching – Government websites
Aquatic Sciences and Fisheries Abstracts	science.gov
Wildlife & Ecology Studies Worldwide	worldwidescience.org
Academic Search Premier	Scopus – Conference papers

## Examples of Evidence Syntheses:

[The Effects of Training, Innovation and New Technology on African Smallholder Farmers' Economic Outcomes and Food Security: A Systematic Review](#)

[Experimental Studies of Front-of-Package Nutrient Warning Labels on Sugar-Sweetened Beverages and Ultra-Processed Foods: A Scoping Review](#)

\*\* Article: [Critical appraisal in ecology: What tools are available, and what is being used in systematic reviews?](#) \*\*