

The Critical Thinker's Guide to Personal Ecological Footprints & Resource Budgets
Organized By: Hal Knowles, Research Associate, UF PREC

Carbon Footprint Calculators

- <http://coolclimate.berkeley.edu/>
- <http://www.myfootprint.org/>
- http://www.footprintnetwork.org/en/index.php/GFN/page/footprint_basics_overview/
- http://www.bestfootforward.com/tools_development/
- <http://carbonfootprintofnations.com/>
- http://www.epa.gov/climatechange/emissions/ind_calculator2.html

Quantified Self: Complete Guide to Self-Tracking

- <http://quantifiedself.com/guide/>

Monkey Business Illusion & Other Related Research Videos

- <http://www.theinvisiblegorilla.com/videos.html>

Critical Thinking

- Foundation for Critical Thinking: The Elements of Thought
 - <http://www.criticalthinking.org/ctmodel/logic-model1.htm#>
- See 16-page handbook available as a free E-Book through the UF Library at the following link:
 - <http://uf.catalog.fcla.edu/uf.jsp?st=critical+thinking&ix=kw&fl=bo&V=D&S=0611314269830672&l=2#top>

Research Guidance

- Remote UF Library Access
 - VPN (Preferred) - <http://www.uflib.ufl.edu/login/vpn.html>
 - Proxy (Alternative) - <http://www.uflib.ufl.edu/ufproxy.html>
- UFL Subject Guides - <http://apps.uflib.ufl.edu/staffdir/SubjectSpecialist.aspx>
 - Examples:
 - <http://guides.uflib.ufl.edu/sustainability>
 - <http://guides.uflib.ufl.edu/agriculture>
 - <http://guides.uflib.ufl.edu/LandscapeArchitecture>
- Databases
 - Project Starters – http://uflib.ufl.edu/ps_db.html
 - Some student favorites:
 - Science Direct – <http://www.sciencedirect.com/>
 - Web of Science – http://wokinfo.com/products_tools/multidisciplinary/webofscience/
 - JSTOR – <http://www.jstor.org/>
 - Lexis-Nexis – <http://www.lexisnexis.com/hottopics/lnacademic>
 - Academic Search Premier – <http://search.ebscohost.com/login.aspx?authtype=ip,uid&profile=ehost&defaultdb=aph>
 - CQ Researcher – <http://library.cqpress.com/cqresearcher/>
- Alternative research options
 - Documentaries (many streaming options available online)

- <http://www.netflix.com>
 - <http://www.amazon.com/Instant-Video/b?ie=UTF8&node=2858778011>
- TED Talks – <http://www.ted.com/talks>
 - TED^xUF – <http://www.tedxuf.com/>
- Twitter – www.twitter.com
- Blogs, Alternative News, & News Aggregators
 - Sampling of Hal’s favorites:
 - <http://www.marksdailyapple.com/>
 - <http://www.theoil drum.com/>
 - <http://energybulletin.net/>
 - <http://thinkprogress.org/romm/issue/>
 - <http://www.greencarcongress.com/>
 - <http://www.good.is/>
 - <http://www.grist.org/>
 - <http://www.foodandtechconnect.com/site/>
 - <http://www.streetsblog.org/>
 - <http://www.streetfilms.org/>
 - <http://sustainablecitiescollective.com/>
 - <http://www.physorg.com/>
- Stumble Upon – <http://www.stumbleupon.com/>
- Wikimedia – <http://www.wikimedia.org/>
 - Wikipedia – <http://www.wikipedia.org/>
- Local ways to research information
 - Newspaper
 - Flyers at business establishments

Citation Management (3 free options for UF students, staff, & faculty)

- End Note Web – <http://guides.uflib.ufl.edu/EndNote>
- Zotero – <http://www.zotero.org/>
- RefWorks – <http://www.uflib.ufl.edu/refworksufpage.html>

A Sampling of Questions to Consider in Carbon Footprinting (with some example resources providing one or more from the multitude of potential perspectives)¹

- How are carbon footprints calculated and what activities are the most carbon intensive?
 - Florida GHG Emissions Data Source: Final Florida Greenhouse Gas Inventory and Reference Case Projections 1990-2025 (Center for Climate Strategies, October 2008).
 - <http://www.flclimatechange.us/ewebeditpro/items/O12F20490.pdf>
 - US EPA Greenhouse Gas Equivalencies Calculator
 - <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

¹ Please note that while I synthesized these links and note as metaphorical “food for thought,” I also fully realize and admit that for better and/or for worse I have a bias and preference toward a minimally processed, fresh food diet of predominantly animal, vegetable, fruit, and nut origin (i.e., “paleo” or “primal” diet) which I perceive as both optimal for human and planetary health. Though I try to think critically about food and sustainability issues, I accept that I probably actively search for information that seems to support this bias. What are your biases and assumptions? What are those of your local government, your citizens, the major employers in your County, the key experts at UF in this field, etc.?

- Environmental Science and Technology – Quantifying Carbon Footprint Reduction Opportunities for U.S. Households and Communities
 - <http://dx.doi.org/10.1021/es102221h>
- How accurate are carbon footprints and the calculations behind them?
 - Science Daily – Large Uncertainty in Carbon Footprint Calculating
 - <http://www.sciencedaily.com/releases/2010/12/101213121741.htm>
- What confounding factors and other stages of GHG emissions generation may be unaccounted for or misunderstood?
 - Example: What aspects of the transportation network affect GHG emissions and to what degree?
 - Environmental Research Letters – Environmental Assessment of Passenger Transportation Should Include Infrastructure and Supply Chains
 - <http://dx.doi.org/10.1088/1748-9326/4/2/024008>
- What are the triple bottom line (ecological, social, and economic) costs of lifestyle choices and their consequential human health outcomes?
 - World Economic Forum – The Global economic Burden of Non-Communicable Diseases
 - <http://www.weforum.org/reports/global-economic-burden-non-communicable-diseases>
 - JAMA – Estimate of the Carbon Footprint of the US Health Care Sector
 - <http://dx.doi.org/10.1001/jama.2009.1610>
- What assumptions are being made and who is making them?
 - Example: Is meat an environmental and climatic disaster?...a nutritional necessity?...or something in between?
 - Food and Agriculture Organization (FAO) of the United Nations – Livestock’s Long Shadow: Environmental Issues and Options
 - <http://www.fao.org/docrep/010/a0701e/a0701e00.HTM>
 - The Telegraph – UN Admits Flaw in Report on Meat and Climate Change
 - <http://www.telegraph.co.uk/earth/environment/climatechange/7509978/UN-admits-flaw-in-report-on-meat-and-climate-change.html>
 - Science Daily – Eating Less Meat and Dairy Products Won’t Have Major Impact on Global Warming, Expert Argues
 - <http://www.sciencedaily.com/releases/2010/03/100322121103.htm>
 - Time – Simon Fairlie: How Eating Meat Can Save the Planet
 - <http://www.time.com/time/health/article/0,8599,2024133,00.html>
 - Energy Bulletin – A Meditation on Meat: A Benign Extravagance
 - <http://www.energybulletin.net/stories/2010-09-09/meditation-meat-benign-extravagance-sept-9>
 - Example: What about food miles...?
 - Environmental Science and Technology – Food-Miles and the Relative Climate Impacts of Food Choices in the United States
 - <http://dx.doi.org/10.1021/es702969f>

- What influence may be involved in any one study, hypothesis, policy, etc.?
 - Example 1: the USDA “My Plate” (as well as the old food pyramid and all previous iterations) are deeply tied into USDA agricultural policy. As such, how might nutritional recommendations and health research be affected (for better and/or for worse) by agricultural policy and the various public, private, and personal influences behind those policies? Here are but two example peer reviewed resources that run somewhat counter to the current conventional wisdom and USDA position on human health and nutrition:
 - Nutrition – In the Face of Contradictory Evidence: Report of the *Dietary Guidelines for Americans* Committee
 - <http://dx.doi.org/10.1016/j.nut.2010.08.012>
 - Research Reports in Clinical Cardiology – The Western Diet and Lifestyle and Diseases of Civilization
 - <http://dx.doi.org/10.2147/RRCC.S16919>
- How has the changing jobs and industry landscape in the United States affected energy use and GHG emissions within the food system?
 - A History of American Agriculture
 - From 4 million Americans with 90% of the labor force in agriculture in 1790 to 76 million Americans with between 38-41% of the labor force in agriculture in 1900 to 275 million Americans with approximately 2% of the labor force in agriculture in 2000.
 - http://www.agclassroom.org/gan/timeline/farmers_land.htm
 - <http://www.ers.usda.gov/publications/eib3/eib3.htm>
 - USDA – Energy Use in the U.S. Food System
 - <http://www.ers.usda.gov/publications/err94/>
 - University of Michigan Center for Sustainable Systems – U.S. Food System
 - http://css.snre.umich.edu/css_doc/CSS01-06.pdf