

# Timothy Sulser

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## PROFESSIONAL EXPERIENCE

**Senior Scientist and Scientist**, IFPRI, Washington, DC, March 2015 – current  
**Economist**, FAO of the UN, Rome, Italy, March 2013 – March 2015  
**Scientist and Research Analyst**, IFPRI, Washington, DC, February 2004 – February 2013

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## EDUCATION

**M.S. Agricultural and Resource Economics**; 2003; University of California; Davis, CA  
*USDA National Needs Fellow*  
**M.A. Tropical Conservation and Development**; 2001; University of Florida; Gainesville, FL  
*US EPA Science to Achieve Results Fellow, Tropical Conservation and Development Fellow*  
**B.S. Fisheries and Wildlife Biology**; 1994; Iowa State University; Ames, IA  
*with Honors and Distinction*

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## PUBLICATIONS (recent highlights) [ORCID record at <https://orcid.org/0000-0001-7128-5283>]

- Beach, RH; TB **Sulser**; A Crimmins; N Cenacchi; J Cole; NK Fukagawa; D Mason-D'Croz; S Myers; MC Sarofim; M Smith; LH Ziska. 2019. Combining the effects of increased atmospheric carbon dioxide on protein, iron, and zinc availability and projected climate change on global diets: a modelling study. *The Lancet Planetary Health* 3: e307-e317. [https://doi.org/10.1016/S2542-5196\(19\)30094-4](https://doi.org/10.1016/S2542-5196(19)30094-4)
- Chan CY; N Tran; KC Cheong; TB **Sulser**; PJ Cohen; KD Wiebe; AM Nasr-Allah. 2021. The future of fish in Africa: Employment and investment opportunities. *PLoS ONE* 16: e0261615. <https://doi.org/10.1371/journal.pone.0261615>
- Chan, CY; N Tran; S Pethiyagoda; CC Crissman; TB **Sulser**; MJ Phillips. 2019. Prospects and challenges of fish for food security in Africa. *Global Food Security* 20: 17-25. <https://doi.org/10.1016/j.gfs.2018.12.002>
- Delzeit, R; R Beach; R Bibas; W Britz; J Chateau; F Freund; J Lefevre; F Schuenemann; TB **Sulser**; H Valin; B van Ruijven; M Weitzel; D Willenbockel; K Wojtowicz. 2020. Linking global CGE models with sectoral models to generate baseline scenarios: approaches, challenges, and opportunities. *Journal of Global Economic Analysis* 5: 162-195. <https://doi.org/10.21642/JGEA.050105AF>
- Enahoro, D; M Kozicka; C Pfeifer; SK Jones; N Tran; CY Chan; TB **Sulser**; E Gotor; KM Rich. 2023. Linking ecosystem services provisioning with demand for animal-sourced food: an integrated modeling study for Tanzania. *Regional Environmental Change* 23: 48. <https://doi.org/10.1007/s10113-023-02038-x>
- Fuglie, KO; KD Wiebe; TB **Sulser**; N Cenacchi; D Willenbockel. 2022. Multidimensional impacts from international agricultural research: Implications for research priorities. *Frontiers in Sustainable Food Systems* 6: 1031562. <https://doi.org/10.3389/fsufs.2022.1031562>
- Gustafson, D; S Asseng; J Kruse; G Thoma; K Guan; G Hoogenboom; M Matlock; M Mclean; R Parajuli; K Rajagopalan; C Stöckle; TB **Sulser**; L Tarar; KD Wiebe; C Zhao; C Fraisse; C Gimenez; W Intarapong; T Karimi; C Kruger; Y Li; E Marshall; R Nelson; A Pronk; R Raymundo; AA Riddle; M Rosenbohm; D Sonke; F van Evert; G Wu; L Xiao. 2021. Supply chains for processed potato and tomato products in the United States will have enhanced resilience with planting adaptation strategies. *Nature Food* 2: 862-872. <https://doi.org/10.1038/s43016-021-00383-w>
- Hasegawa, T; S Fujimori; P Havlík; H Valin; B Leon Bodirsky; JC Doelman; T Fellmann; P Kyle; JFL Koopman; H Lotze-Campen; D Mason-D'Croz; Y Ochi; I Pérez Domínguez; E Stehfest; TB **Sulser**; A Tabeau; K Takahashi; J Takakura; H van Meijl; W-J van Zeist; KD Wiebe; P Witzke. 2018. Risk of increased food insecurity under stringent global climate change mitigation policy. *Nature Climate Change* 8: 699-703. <https://doi.org/10.1038/s41558-018-0230-x>
- Hinz, R; TB **Sulser**; R Huefner; D Mason-D'Croz; S Dunston; S Nautiyal; C Ringler; J Schuengel; P Tikhile; F Wimmer; R Schaldach. 2020. Agricultural development and land use change in India: A scenario analysis of trade-offs between UN Sustainable Development Goals (SDGs). *Earth's Future* 8: e2019EF001287. <https://doi.org/10.1029/2019EF001287>
- Chan CY; N Tran; KC Cheong; TB **Sulser**; PJ Cohen; KD Wiebe; AM Nasr-Allah. 2021. The future of fish in Africa: Employment and investment opportunities. *PLoS ONE* 16: e0261615. <https://doi.org/10.1371/journal.pone.0261615>
- Komarek, AM; S Dunston; D Enahoro; HCJ Godfray; M Herrero; D Mason-D'Croz; KM Rich; P Scarborough; M

- Springmann; TB **Sulser**; KD Wiebe; D Willenbockel. 2021. Income, consumer preferences, and the future of livestock-derived food demand. *Global Environmental Change* 70: 102343. <https://doi.org/10.1016/j.gloenvcha.2021.102343>
- Mason-D'Croz, D; JR Bogard; M Herrero; S Robinson; TB **Sulser**; KD Wiebe; D Willenbockel; HCJ Godfray. 2020. Modelling the global economic consequences of a major African swine fever outbreak in China. *Nature Food* 1: 221–228. <https://doi.org/10.1038/s43016-020-0057-2>
- Mason-D'Croz, D; JR Bogard; TB **Sulser**; N Cenacchi; S Dunston; M Herrero; KD Wiebe. 2019. Gaps between fruit and vegetable production, demand, and recommended consumption at global and national levels: an integrated modelling study. *The Lancet Planetary Health* 3: e318–e329. [https://doi.org/10.1016/S2542-5196\(19\)30095-6](https://doi.org/10.1016/S2542-5196(19)30095-6)
- Mason-D'Croz, D; TB **Sulser**; KD Wiebe; MW Rosegrant; SK Lowder; A Nin-Pratt; D Willenbockel; S Robinson; T Zhu; N Cenacchi; S Dunston; RD Robertson. 2019. Agricultural investments and hunger in Africa modeling potential contributions to SDG2 – Zero Hunger. *World Development* 116: 38-53. <https://doi.org/10.1016/j.worlddev.2018.12.006>
- Nelson, G; J Bogard; K Lividini; J Arsenault; M Riley; TB **Sulser**; D Mason-D'Croz; B Power; D Gustafson; M Herrero; KD Wiebe; K Cooper; R Remans; MW Rosegrant. 2018. Income growth and climate change effects on global nutrition security to mid-century. *Nature Sustainability* 1: 773–781. <https://doi.org/10.1038/s41893-018-0192-z>
- Petsakos, A; G Hareau; U Kleinwechter; KD Wiebe; TB **Sulser**. 2018. Comparing modeling approaches for assessing priorities in international agricultural research. *Research Evaluation* 27: 145-156. <https://doi.org/10.1093/reseval/rvx044>
- Petsakos, A; SD Prager; CE Gonzalez; AC Gama; TB **Sulser**; S Gbegbelegbe; EM Kikulwe; G Hareau. 2019. Understanding the consequences of changes in the production frontiers for roots, tubers and bananas. *Global Food Security* 20: 180-188. <https://doi.org/10.1016/j.gfs.2018.12.005>
- Rosegrant, MW; TB **Sulser**; S Dunston; N Cenacchi; KD Wiebe; D Willenbockel. 2021. *Estimating the global investment gap in research and innovation for sustainable agriculture intensification in the Global South*. Commission on Sustainable Agriculture Intensification (CoSAI), Colombo, Sri Lanka. <https://hdl.handle.net/10568/114761>
- Rosegrant, MW; TB **Sulser**; KD Wiebe. 2022. Global investment gap in agricultural research and innovation to meet Sustainable Development Goals for hunger and Paris Agreement climate change mitigation. *Frontiers in Sustainable Food Systems* 6: 965767. <https://doi.org/10.3389/fsufs.2022.965767>
- Smith, MR; ND Mueller; M Springmann; TB **Sulser**; LA Garibaldi; J Gerber; KD Wiebe; SS Myers. 2022. Pollinator deficits, food consumption, and consequences for human health: a modeling study. *Environmental Health Perspectives* 130: 127003. <https://doi.org/10.1289/EHP10947>
- Springmann, M; KD Wiebe; D Mason-D'Croz; TB **Sulser**; M Rayner; P Scarborough. 2018. Health and nutritional aspects of sustainable diet strategies and their association with environmental impacts: A global modelling analysis with country-level detail. *The Lancet Planetary Health* 10: e451-e461. [https://doi.org/10.1016/S2542-5196\(18\)30206-7](https://doi.org/10.1016/S2542-5196(18)30206-7)
- Stads, G-J; KD Wiebe; A Nin-Pratt; TB **Sulser**; R Benfica; F Reda; R Khetarpal. 2022. Research for the future: Investments for efficiency, sustainability, and equity. Chapter 4 IN *2022 Global Food Policy Report: Climate Change and Food Systems*. International Food Policy Research Institute, Washington, DC. [https://doi.org/10.2499/9780896294257\\_04](https://doi.org/10.2499/9780896294257_04)
- Sulser**, TB; RH Beach; KD Wiebe; S Dunston; NK Fukagawa. 2021. Disability-adjusted life years due to chronic and hidden hunger under food system evolution with climate change and adaptation to 2050. *The American Journal of Clinical Nutrition* 114: 550-563. <https://doi.org/10.1093/ajcn/ngab101>
- Sulser**, TB; KD Wiebe; S Dunston; N Cenacchi; A Nin-Pratt; D Mason-D'Croz; RD Robertson; D Willenbockel; MW Rosegrant. 2021. *Climate change and hunger: Estimating costs of adaptation in the agrifood system*. Food Policy Report. International Food Policy Research Institute, Washington, DC. <https://doi.org/10.2499/9780896294165>
- van Zeist, W-J; E Stehfest; JC Doelman; H Valin; K Calvin; S Fujimori; T Hasegawa; P Havlik; F Humpenöder; P Kyle; H Lotze-Campen; D Mason-D'Croz; H van Meijl; A Popp; TB **Sulser**; A Tabeau; W Verhagen; KD Wiebe. 2020. Are scenario projections overly optimistic about future yield progress? *Global Environmental Change* 64: 102120. <https://doi.org/10.1016/j.gloenvcha.2020.102120>
- Wiebe KD; TB **Sulser**; S Dunston; MW Rosegrant; K Fuglie; D Willenbockel; GC Nelson. 2021. Modeling impacts of faster productivity growth to inform the CGIAR initiative on Crops to End Hunger. *PLoS ONE* 16: e0249994. <https://doi.org/10.1371/journal.pone.0249994>