

Introducing SPA



**Sustainable
Phosphorus
Alliance**



@sustainP

- Dr James Elser (Director)
- Research Professor, School of Life Sciences, Arizona State University

What are we?

- The **Sustainable P Alliance** is a **members organization** that exists to catalyze the implementation of technical, organizational, and institutional **innovations to advance phosphorus sustainability** in North America.

Current Members / Founders

 blinc.com	 feeco.com	 nacwa.org
 ostara.com	 ocpgroup.ma	 werf.org
 renewablenutrients.com	 sustainabilityconsortium.org	 mcgillcompost.com
 green-edge.com	Strategic Alliances	
	 www.epa.gov/agstar	 www.wef.org



Who are we?

Leadership



Jim Elser
Director, Sustainable Phosphorus Alliance

Jim Elser is a limnologist with research focused on the effect of key limiting nutrients such as nitrogen and phosphorus in lake ecosystems. He is a Research Professor and Distinguished Sustainability Scientist in ASU's School of Life Sciences and School of Sustainability and serves as the Director for the Sustainable Phosphorus Alliance. He is also director of the Flathead Lake Biological Station of the University of Montana.



Matt Scholz
Program Manager, Sustainable Phosphorus Alliance

Matt Scholz is the Program Manager for the Sustainable Phosphorus Alliance. He worked for 3 years as a Senior Research Scientist for The Sustainability Consortium after completing a postdoc in the Department of Chemistry at Colorado School of Mines and a PhD at the University of Arizona, where his research focused on algal biofuels. He has worked in maize molecular genetics and holds an MS in environmental engineering from the University of Arizona.



Rebecca Muenich
Research Scientist, Sustainable Phosphorus Alliance

Rebecca Muenich is an environmental engineer with expertise in environmental modeling, especially in evaluating the impact of land management decisions on nutrient inputs into the environment. She recently completed a postdoctoral position at the University of Michigan where she focused on finding win-win solutions to address excess phosphorus inputs into Lake Erie. She is currently an Assistant Professor in ASU's School of Sustainable Engineering and the Built Environment and serves as a Research Scientist with the Sustainable Phosphorus Alliance. She holds a BS in biological engineering from the University of Arkansas, and MS and PhD degrees in agricultural and biological engineering from Purdue University.

Board of Directors



Kerry McNamara
Executive Director, OCP Research LLC.



Matt Kuzma
Vice President, Ostara



Michael Schmid
Chief Marketing and Operations Officer, Renewable Nutrients



Amit Pramanik
Chief Innovation and Development Officer, The Water Research Foundation



Chris Hornback
Chief Technical Officer, National Association of Clean Water Agencies (NACWA)



Brian Madigan
Director of Business Development, FEECO International



Our mission

Our Mission

Our mission is to be North America's central forum and advocate for the sustainable use, recovery, and recycling of phosphorus in the food system.

Our Vision

We envision a food system that manages phosphorus more sustainably to provide abundant, nutritious food while protecting the health of rivers, lakes, and oceans.

Objectivity

Our decisions and actions are based in the best available science.

Stewardship

We support the implementation of technologies and practices that benefit ecosystems and not ones that facilitate their deterioration.

Inclusivity

We seek buy-in from diverse stakeholders about best policies and practices.



What we do

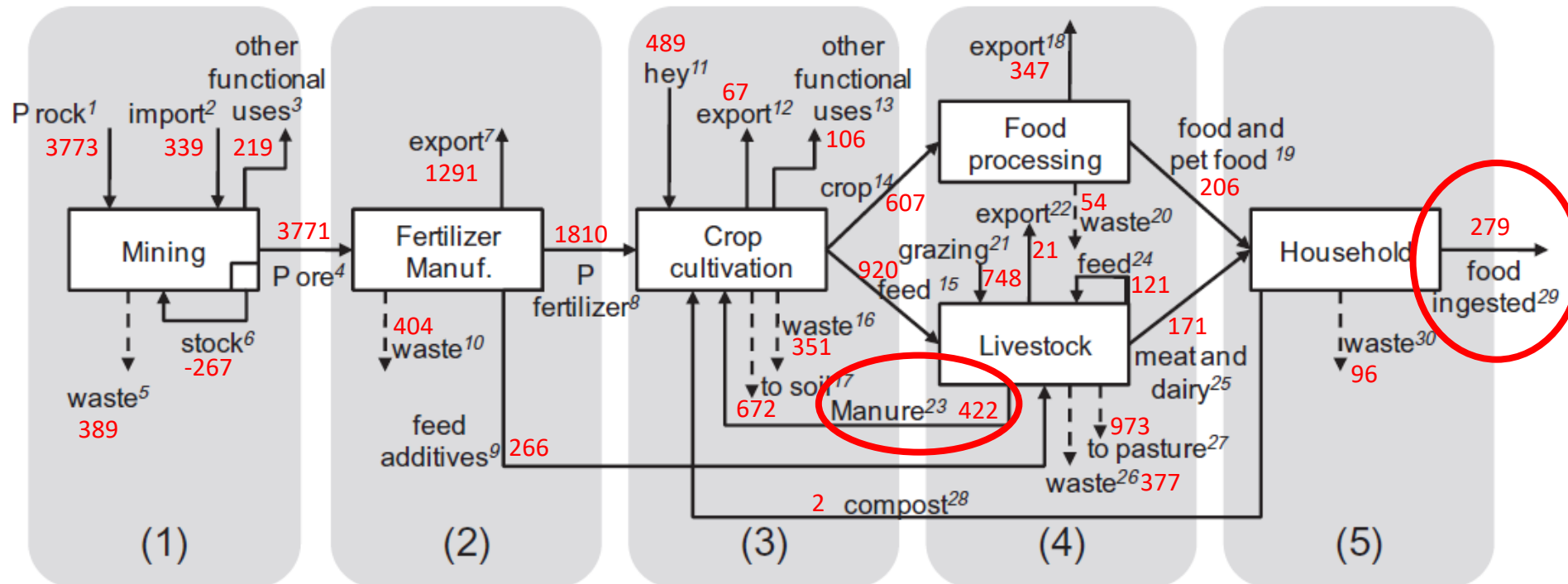
- **Facilitate networking** among diverse players from across the phosphorus value chain via knowledge sharing events.
 - Annual conference on phosphorus sustainability (Phosphorus Forum)
 - Technical webinar series on current issues in P sustainability
 - Quarterly newsletter, blog, and social media (twitter: @SustainP)
- **Orchestrate working groups**, including our just-launched Biosolids and Manure Task Force.
- **Provide technical input** on metrics development (e.g. TSC, WEF) and research prioritization (e.g. TWRF)
- **Represent the North American P-sustainability community** both within other N. American organizations and within the global collective of P-sustainability platforms (e.g. ESPP)
- **Offer a branding opportunity** to organizations working in the vanguard of phosphorus sustainability.



The Phosphorus Challenge / The Phosphorus Opportunity



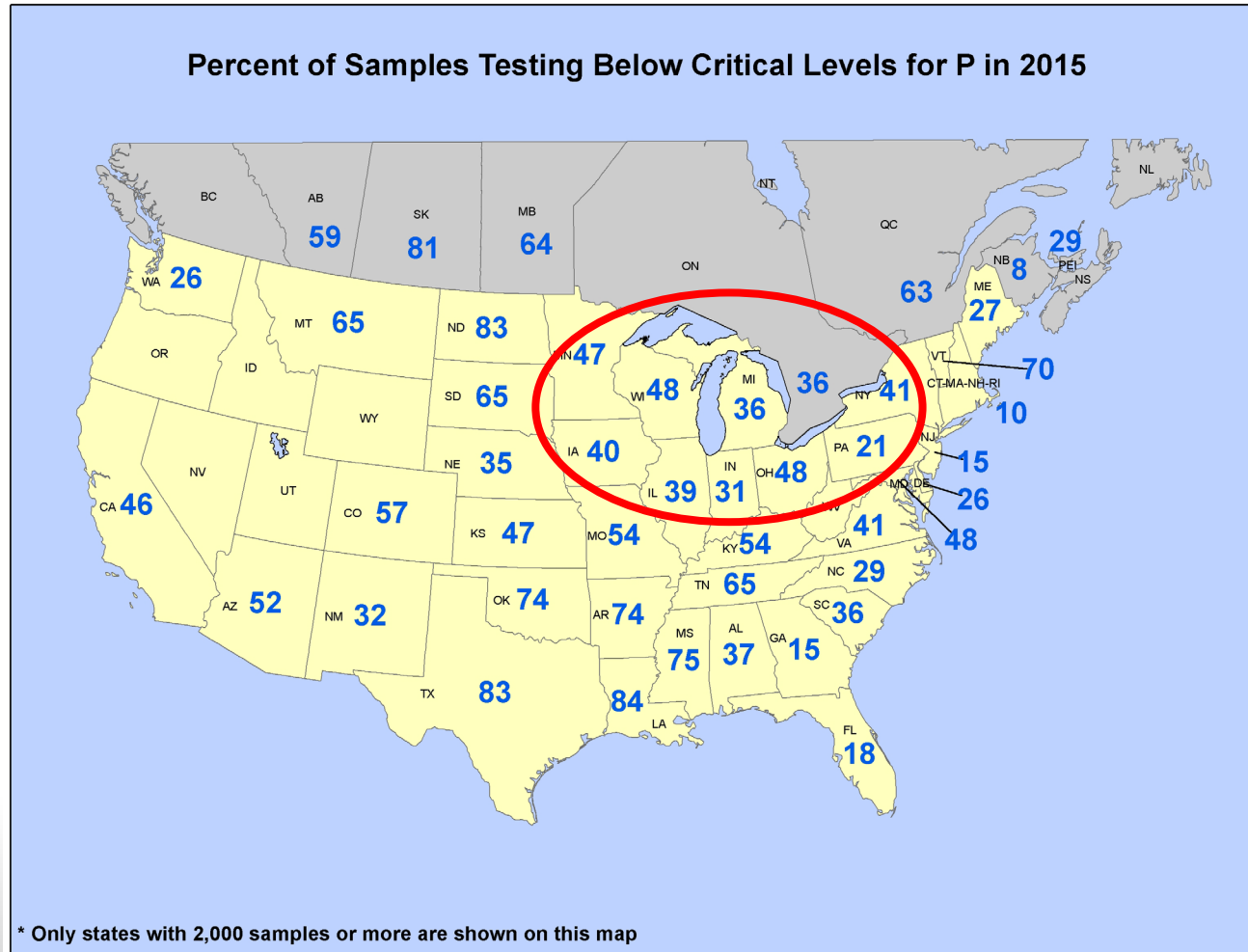
Suh-Yee SFA for the Food System in the USA



Food ingested =
13.4% of
 Mining + Imported PR
 - All exports
 - Non-food uses

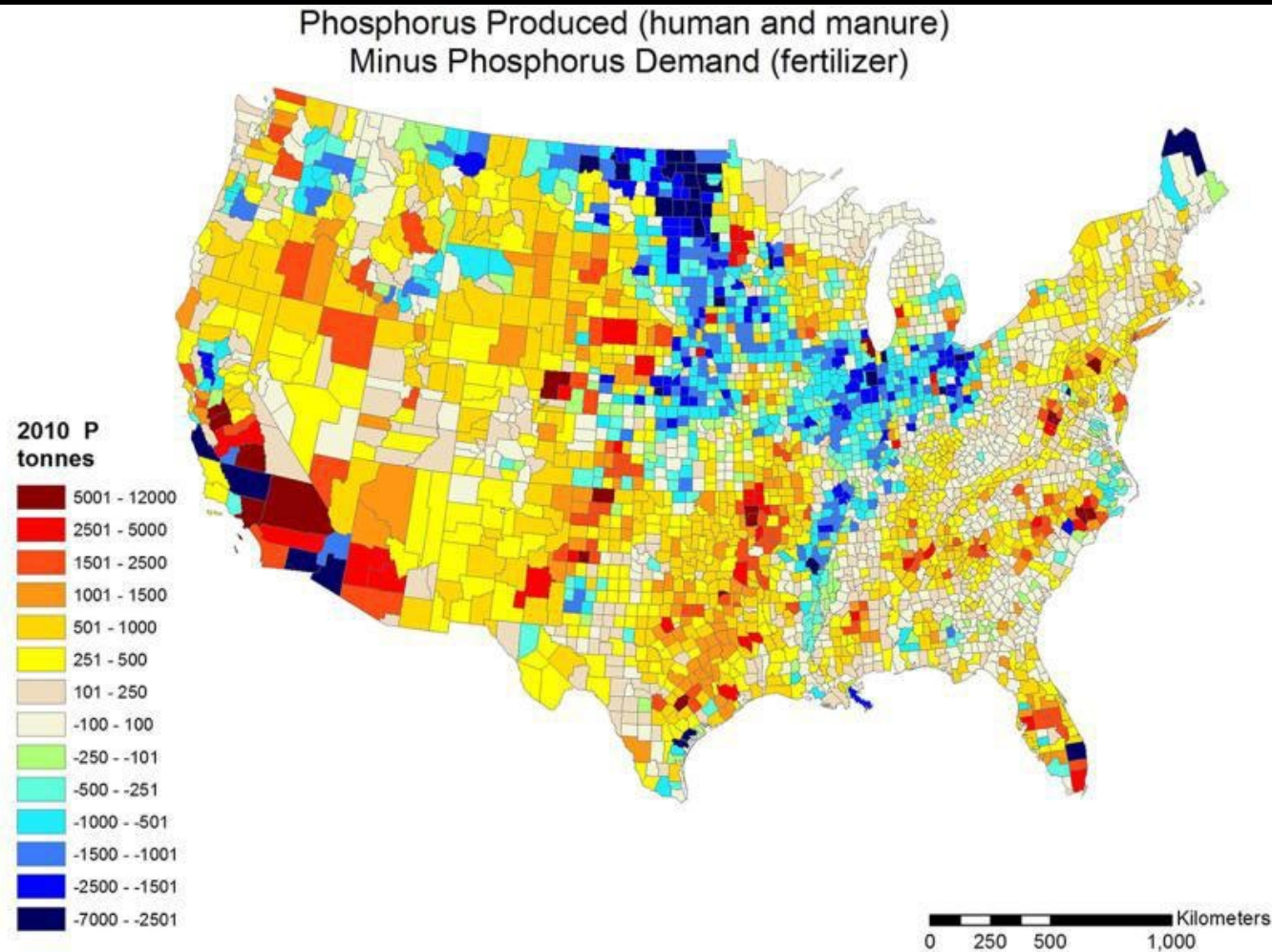
Manure =
20.3% of
 Mining + Imported PR
 - All exports
 - Non-food uses

Soil P tests in USA/Canada



In Great Lakes states (+ Ontario), the majority of soil P tests are **ABOVE** critical levels.

Imbalanced production and use of P



Want to help with this cause? Join us!

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PhosphorusAlliance.org