

Sustainability Research at our Land Grant University: An Intro to the Institute for a Sustainable Future

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August 7, 2023



Institute for a Sustainable Future

Institute for a Sustainable Future

Our goal is to fulfill Purdue's land-grant mission while supporting research and partnerships to accelerate the transition to a sustainable, resilient, prosperous future by envisioning and developing solutions to global challenges in sustainability including environment, climate, food-energy-water security, human and biosphere health.





Types of Events We Host





ANEL DISCUSSION

SERGES MARKET

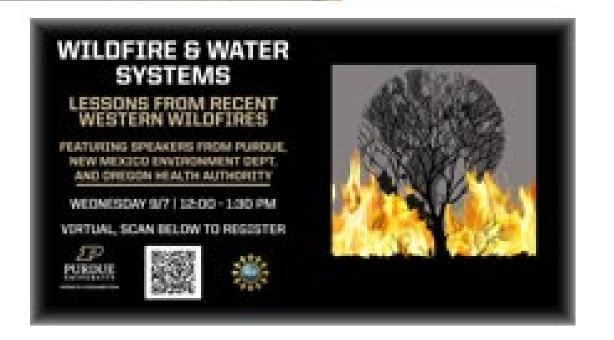
CALL-BUT AND COLLABORATION SESSIONS ON CLIMATE-SMART AGRICULTURE

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3:30 - 4:35 pm









F PURDUE

Water Challenges RC

The Water Challenges research community facilitates interdisciplinary research that helps communities solve their water challenges at various scales and in several areas.

Sub-areas of interest include:

- Water management;
- Human dimensions of water;
- Urban water systems;
- Great Lakes water;
- Ecological restoration;
- Water and energy

2022-2023 Events

- Water New Year ISF kickoff
- Water and the Indiana Climate Impacts
 Assessment panel discussion (state wide)
- Water Withdrawals virtual forum (state wide)
- End-of-year social
- IN Climate Impacts forum (state-wide)





Environmental Justice Special Initiative

The Institute has long-term interest in supporting research in, and programming on, aspects of environmental and social justice with particular emphasis on how research on topics ranging from systems of governance over environmental resources, to the right to live in safe and healthy communities to promotion of healthy ecosystems, and how these issues overlap and intersect

Where we are active...

- Access to & Quality of Open Space
- Brownfields
- Rural Communities
- Exposure to Pollution
- Health Impacts from Pollution
- Transportation Equity
- Policy/Planning

- Climate Adaptation
- Legacy Infrastructure/Industry
- Health Promotion/Harm Prevention
- Risk Communication
- Social Justice
- Education/Awareness
- Connect with Students





Great Lakes Research Special Initiative

Researchers on this team address a suite of global challenges by targeting research, teaching and extension programming on southern Lake Michigan, the Chicagoland region and the entire Great Lakes ecosystem.

Areas of research include:

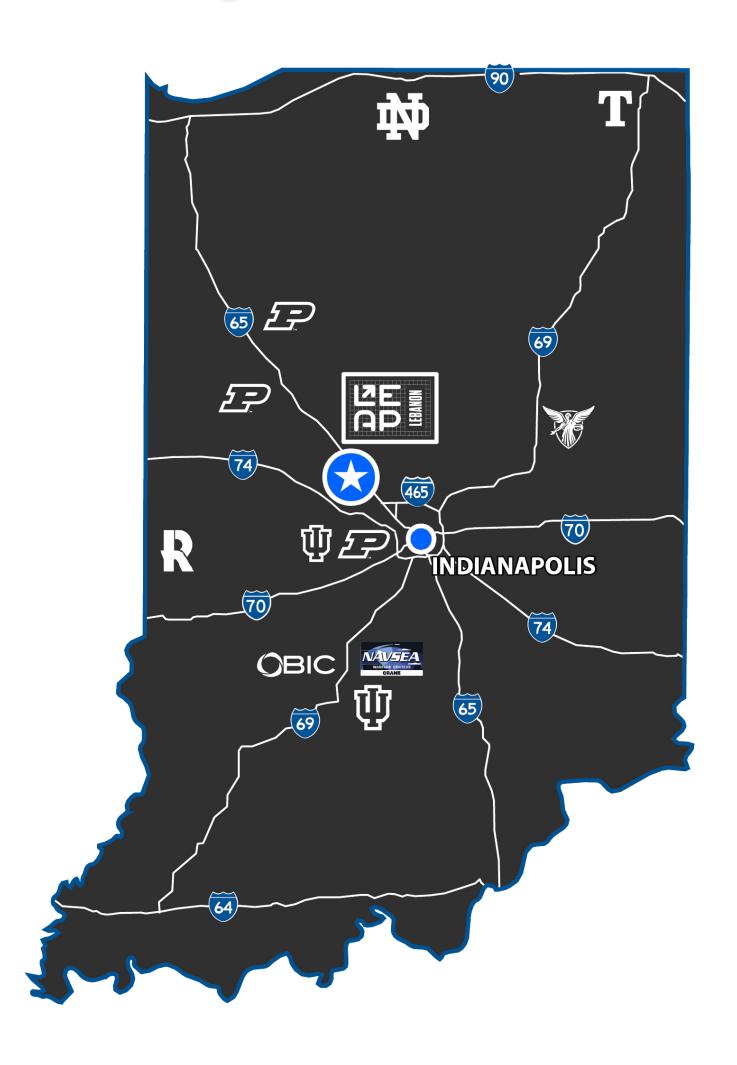
- Water quality and quantity
- Community development and environmental justice
- Sustainable development
- Water management
- Aquacultures
- Healthy food webs
- Climate impacts on economic and environmental ecosystems





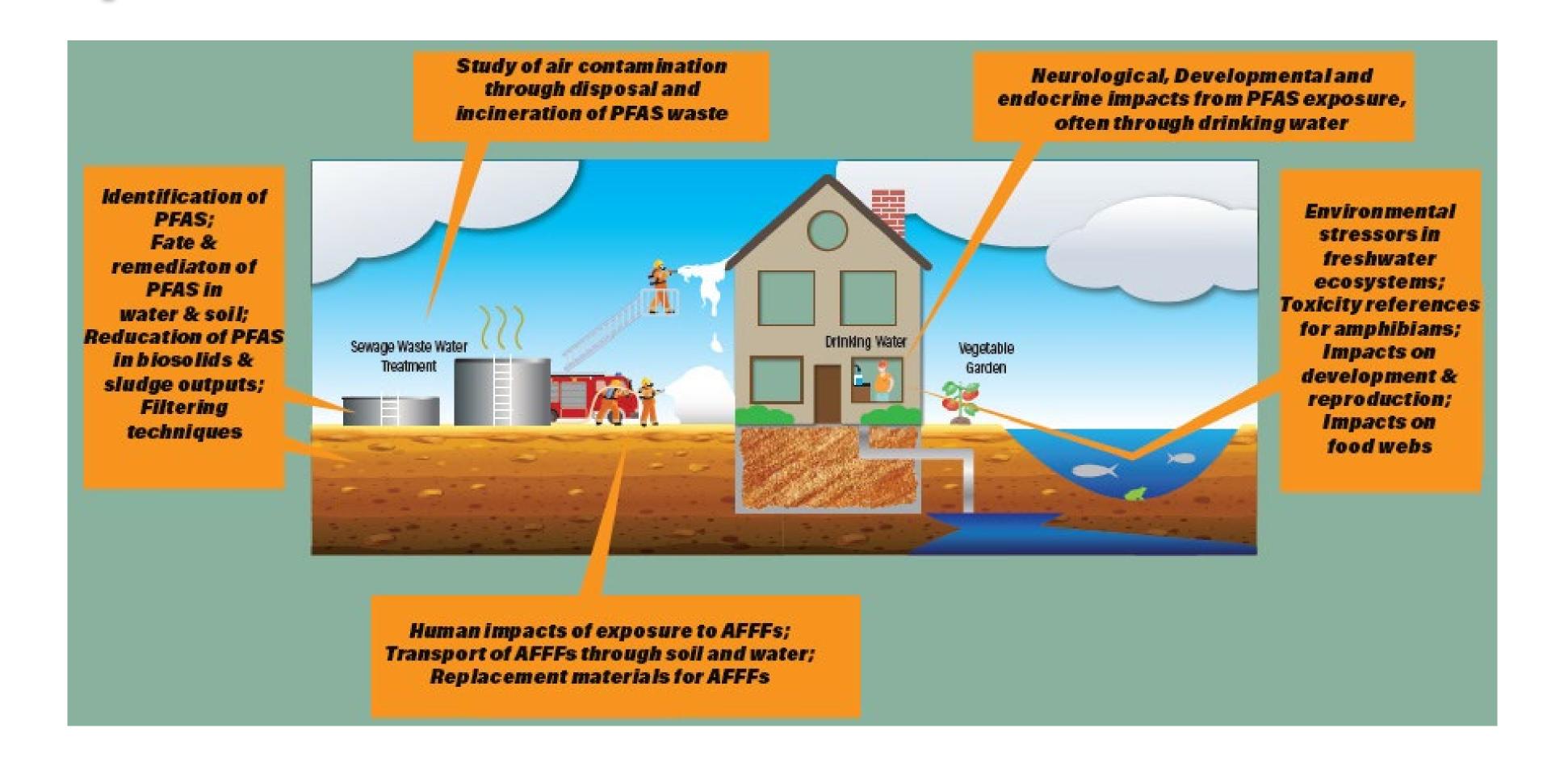


Key Project 1: Water Withdrawals in IN



- Providing input to local government,
- Hosting webinar with White River
 Alliance, Indiana Water Resource Center,
 - Identifying scientific concerns
 - Attending public forums
 - Creating information for public use

Key Initiative 2: PFAS and Public Health

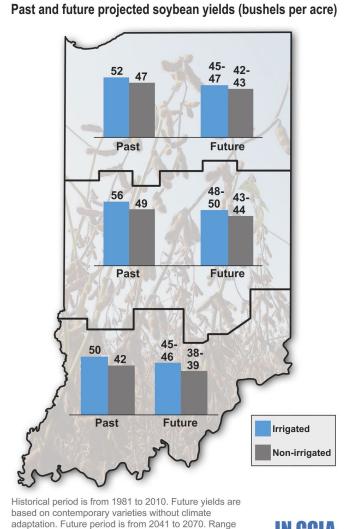


Helping to identify sources of PFAS in Indiana and the Great Lakes in water, soil, air and fish

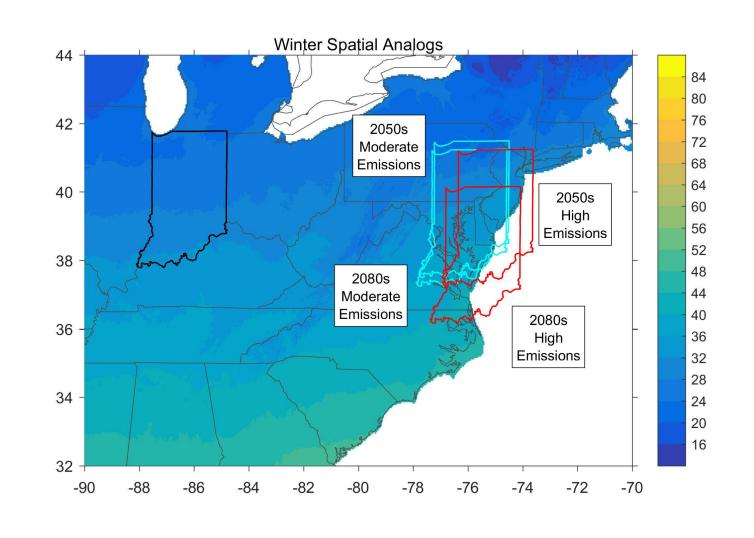


Key Initiative 3: IN Climate Impacts Assessment



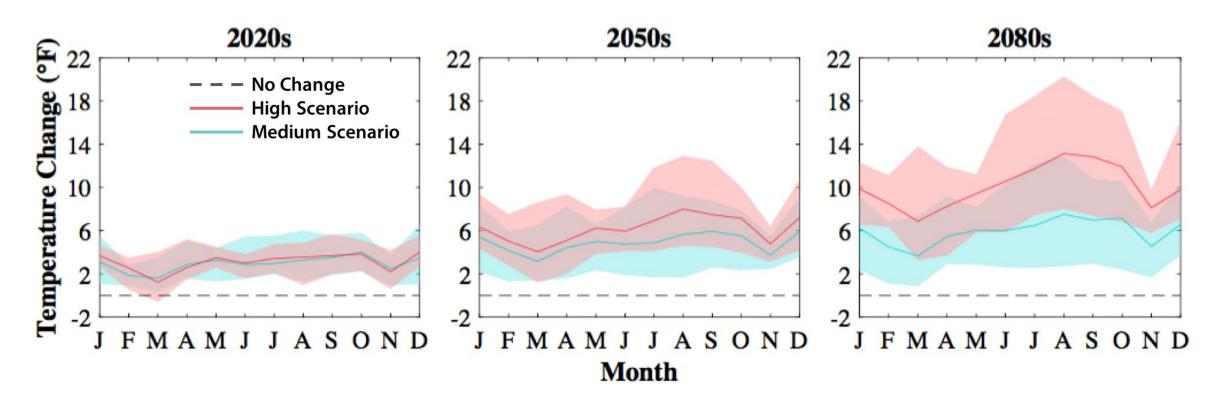


Mid-Century Yields: SOYBEAN



Scientists and decision makers from across the state have worked together to develop a series of easily understandable reports that show how a changing climate will affect state and local interests. INCCIA reports provide the scientific research to help Hoosiers understand and prepare for the impacts of a changing climate.

Projected seasonal changes in temperature for Indiana





Key IN Partners & Funding Sources

Organizations
IDEM
Environmental Research Institute (IU)
Hoosier Environmental Council
White River Alliance
IN DNR
Earth Justice IN
New Carbon Economy Consortium
Midwest Regional Climate Consortium
Purdue University –NW
University of Notre Dame
Butler University
Sandia National Laboratories
JPL
IL-IN Sea Grant

Key Funders
NSF
NIH
USDA
Dept. of Defense
Dept. of Energy
SERD-P
NASA
NOAA
Dept. of the Interior
USGS
USAID
EPA



Questions?

Thank you for attending!

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