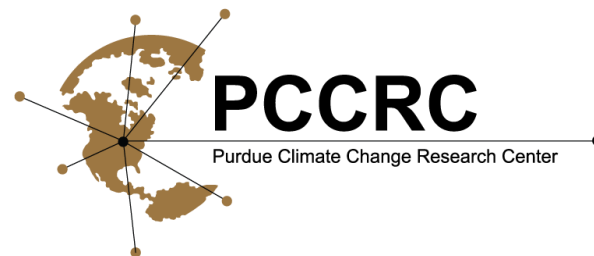


Starting The Conversation At Home

The Indiana Climate Change Impacts Assessment (IN CCIA)

August 15, 2018
Exploring California and Other
Subnational Climate Assessments

#INCCIA
@PurdueCCRC
@DukesJeff



PURDUE CLIMATE CHANGE RESEARCH CENTER

Exploring the causes and impacts of climate change, improving predictive models to project future climate conditions, and pursuing novel ideas for mitigation and adaptation.



ESTABLISHED IN 2004

Broad-based support from academic and administrative units at Purdue

INTERDISCIPLINARY

90+ faculty representing 27 departments

NON-PARTISAN

Objective, science-based information

COLLABORATIVE

Partnerships with schools, NGOs, businesses, government agencies, farmers

Climate change and Indiana

Indiana is 9th in energy use per capita (7th residential, 8th industrial) – EIA, 2016 data

No state-level climate policy; IN actively works against federal climate regulations

#INCCIA

31% Discuss global warming at least occasionally (5% below national average)

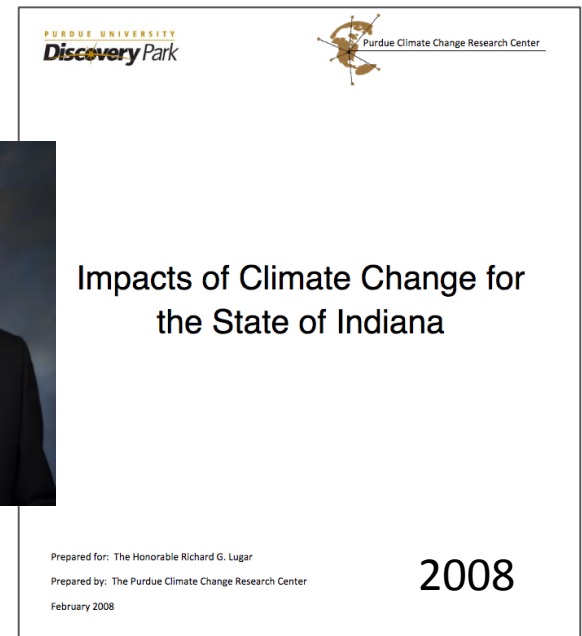
43% agree “Most scientists think global warming is happening” (6% below national average)

Yale Climate Opinion Maps 2018

What led to the IN CCIA?

Assessment conducted to meet stakeholder requests for updated state-level information

Growing interest in climate change issues among local communities, professional organizations and the public



What makes the IN CCIA Unique?



No mandate, no funding

100% bottom-up effort

**Technical contributions,
provided in-kind, from
about 100 experts
across Indiana**

**Paired technical and
public reports**

#INCCIA



What does climate change mean for
INDIANA?



#INCCIA



IN CCIA

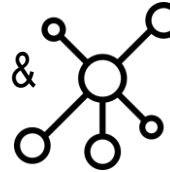
Indiana Climate Change
Impacts Assessment

Short-term goals

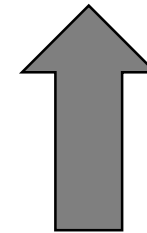
Useable
information



Build an expert &
stakeholder



Network



Dialogue
about climate change

Longer-term goal

Help communities and stakeholders implement **solutions**
based on the information in the assessment



Engagement Goals & Process

We broadly define stakeholders as anyone who is interested in, or likely affected by, the information included in the INCCIA.

ENGAGEMENT GOALS

- ✓ Increase awareness about the IN CCIA
- ✓ Increase buy-in and support of the IN CCIA
- ✓ Help Hoosiers identify ways climate change is affecting them & their communities

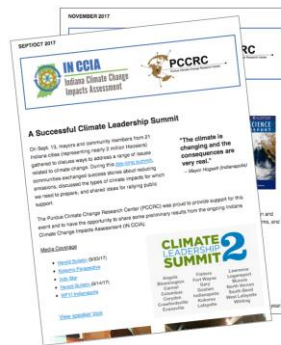
PROCESS

Duration: Maintain regular communication—monthly newsletters, social media, website.

Pre-assessment: Formal and informal feedback

During development: Recruit stakeholder reviewers, hold community events, media resources.

After release: Community events, media events, pursue new partnerships



Find newsletter archive, co-author list, participating organizations, resources & more at

www.IndianaClimate.org



#INCCIA

IN CCIA Reports

Putting global change into local perspective

Available Online



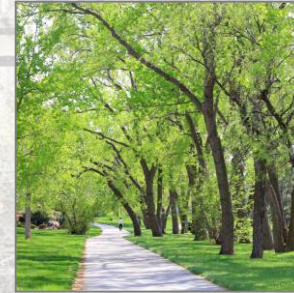
Climate



Health



Forest
Ecosystems



Urban Green
Infrastructure



Agriculture



Aquatic
Ecosystems



Tourism &
Recreation



Water
Resources



Energy



Infrastructure

www.IndianaClimate.org

Easily accessible information

Public-facing reports online and in PDF format

Lots of graphics

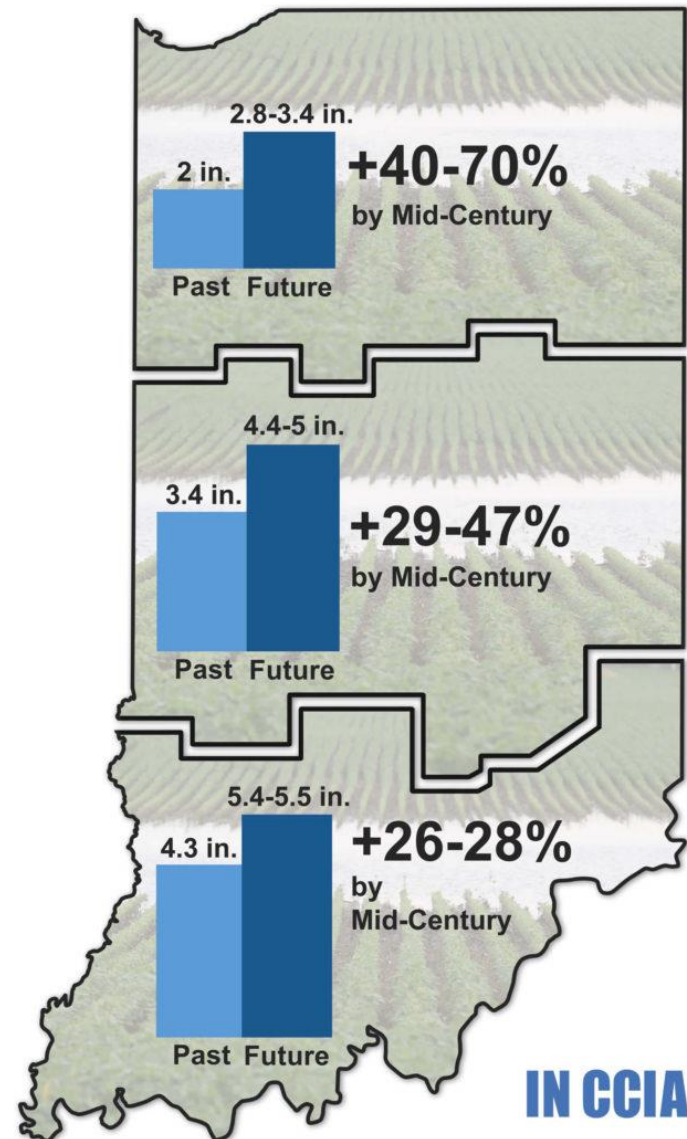
Minimum of technical detail

Moderately referenced

Technical reports as backup

Increasing Spring Drainage

Amount of water flowing from subsurface tile drains from March to May



Historical period is from 1981 to 2010. Mid-century represents the period from 2041 to 2070. Range of results based on medium and high emissions scenarios.

Spreading the Word



Tactics

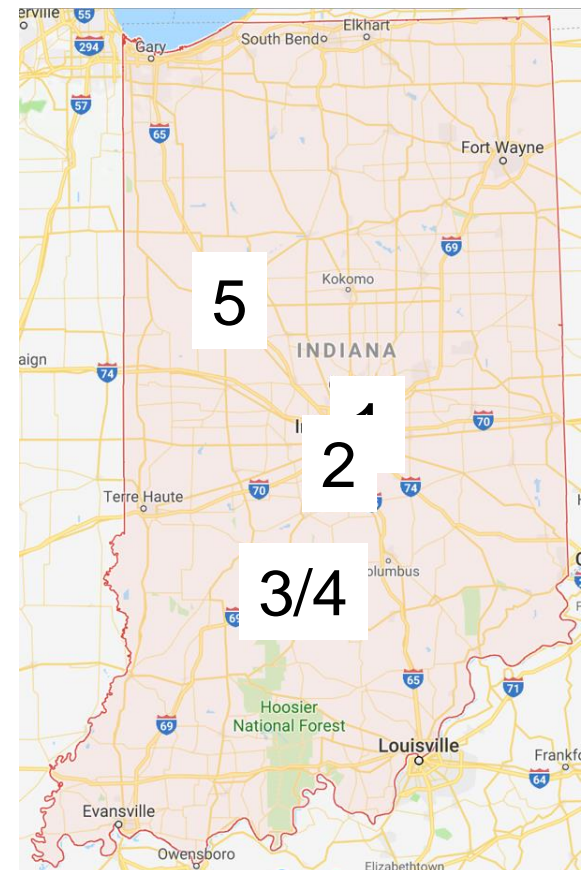
Newsletter

Speaking events

Social media

Community briefings

Op-Eds



IN CCIA Impact

shows zip on deep throws

SPORTS, PAGE 1B

Irish offense full of talent and questions



SPORTS, PAGE 1B

Mr. Major, Koepka, goes for PGA



Evansville COURIER

WEDNESDAY, AUGUST 1, 2018 • COURIERPRESS.COM

EPD investigation

Suspect reportedly called police and said he did it

Tim Feltner

EVANSVILLE — One man is dead and another in police custody after a fatal shooting Tuesday in an Evansville neighborhood. City police found a man — who Vanderburgh County Coroner Steve Lock-year identified as 49-year-old Christopher Vison — lying in the middle of East Gun Street with fatal gunshot wounds. Witnesses reported hearing three to five shots and seeing a man lying in the road. The man accused of shooting Vison reportedly called police to say he did Evansville Police arrested the alleged shooter near the crime scene, according to department spokesman Sgt. Joe Calkins. The suspect had not been previously named as of 5 p.m. It's not clear yet what the shooter's motive might have been. "Right now our investigators are speaking with the suspect(s) to try to determine what happened today," Calkins said. "At this point, we don't have a



Tim and Kristi Schultz have owned Engelbrecht's Orchard off Old Petersburg Road since 1998. The orchard has struggled with warming temperatures and extreme weather conditions, including drought and heavy rain.

Climate change hurt Indiana farmers

Warmer temperatures, abnormal rainfall, drought, and more affect crops, livestock, fruits and vegetables

Mark Wilson

EVANSVILLE — Indiana farmers can expect more of the heavy rains, water springs, and hotter summers that have plagued farms with crops if climate change continues, according to a new report. But a report released Tuesday from Purdue University's Climate Change Research Center, points to ways farmers can adapt. "Hoosier farmers can, and will, adapt to Indiana's changing climate," according to the report. "The types of crops, timing and frequency of planting, need for irrigation and drainage, effects on weeds and pests and effects on labor will all have to be taken into account." Climate change will directly and indirectly impact agriculture, a \$38 billion-a-year industry for Indiana, affecting everything from row crops and livestock to fruits and vegetables. In the years that Tim and Kristi Schultz have owned Engelbrecht's Orchard in Evansville, they have already struggled with the effects of warming temperatures and extreme weather conditions. "It's something I've thought about. The first few summers we saw much earlier spring dates than published for different varieties," Tim

See CLIMATE, Page 3A

"Hoosier farmers can, and will, adapt to Indiana's changing climate. The types of crops, timing and frequency of plantings, need for irrigation and drainage, effects on weeds and pests and effects on labor will all have to be taken into account."

Excerpt from report published by Purdue University's Climate Change Research Center

RAIDERS The business has thrived in this mostly residential area of town, drawing from the university and surrounding neighborhoods and offering top-quality coffee from local roasters in both classic and unique preparations, baked goods, light food and ice cream. "Since we opened, we've grown in

See HONEYMOON, Page 2A

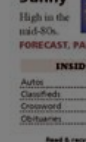


Owner's Jessica and Zac Parsons man the helm at Honey-Moon Coffee near the University of Evansville.

AMBER LAMAR/COURIER PRESS

personal Kuning group creates products for women who have undergone mastectomies

Page 1D



FORECAST, Page 2A

INSIDE

Autism \$6
Classifieds 10
Crossword 25
Debates 6.8A

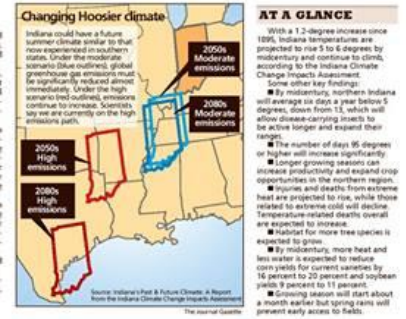
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Study: Climate change to alter state's landscape

RON SHAWGO

The Journal Gazette

In 30 years, northern Indiana summers could feel like those of southern Kentucky today, and the southern half of the Hoosier State could taste the Deep South. A new dramatic study and the one we're on, could place Indiana in a climate similar to that of southeastern Texas by the 2050s if global greenhouse gas emissions continue to rise, according to reports from Purdue University's Climate Change Research Center. Titled the "Indiana Climate Change Impacts Assessment," the reports use the latest scientific research about the impact of global warming on areas including climate, health and agriculture. The goal is to better understand "climate change related risks and build more effective plans for a more productive future," according to the report's release. While warning the climate shift, the reports note a range of climates in possible depending on future greenhouse gas emissions and how the climate system responds. At minimum, the reports point to a shift from the past and urge Hoosiers to prepare for various climate conditions. The fifth of a planned 11 reports was released last July. By mid-century, climate change is expected to bring longer days for Hoosiers, less snow,



150-500 PDF downloads, depending on report

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Climate, Page 3A

Stay informed, stay connected

<http://IndianaClimate.org>



@PurdueCCRC

Jeffrey Dukes

PCCRC Director

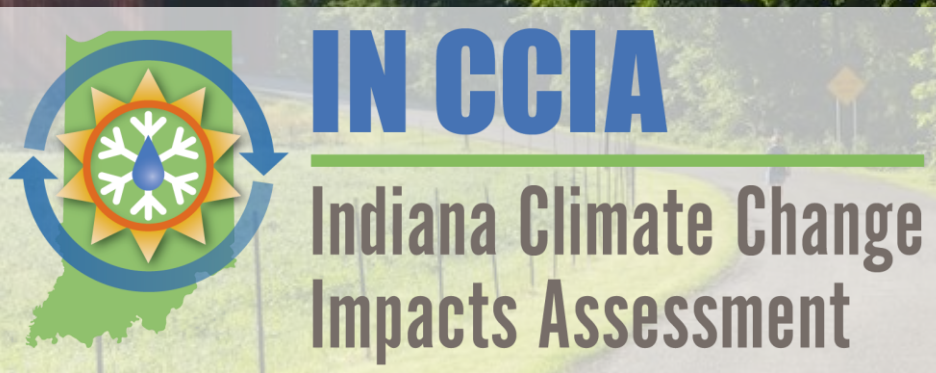
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PURDUE
UNIVERSITY®

#INCCIA

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Purdue Climate Change Research Center
University of Notre Dame
IUPUI
Indiana University
Indiana University Northwest
Ball State University
Indiana State University

Purdue University Northwest
Midwest Regional Climate Center
U.S. Forest Service
Northern Institute of Applied Climate Science
Indiana Department of Natural Resources
Marion County Public Health Department
Mesh Coalition
U.S. Geological Survey