



# Indiana University Sustainability



# SUSTAIN IU

Sustain IU identifies and promotes sustainable solutions that reduce environmental impacts while supporting an equitable and prosperous IU, now and into the future.



# Resources Climate Change Indiana

## Indiana Climate Change Impacts



Led by the Purdue Climate Change Research Center (PCCRC), the Indiana Climate Change Impacts Assessment (IN CCIA) provides the latest scientific research to help Hoosiers understand and prepare for the impacts of a changing climate.

<https://ag.purdue.edu/indianaclimate/>

**PREPARED  
FOR  
ENVIRONMENTAL  
CHANGE**

Resilient Ecosystems,  
Livable Communities,  
and Healthy Hoosiers





# 6– 8% INCREASED ANNUAL RAINFALL

16 to 20% 13 to 16%



WINTER



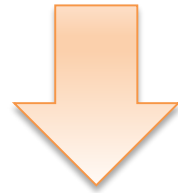
SPRING

-2 to -3%



SUMMER

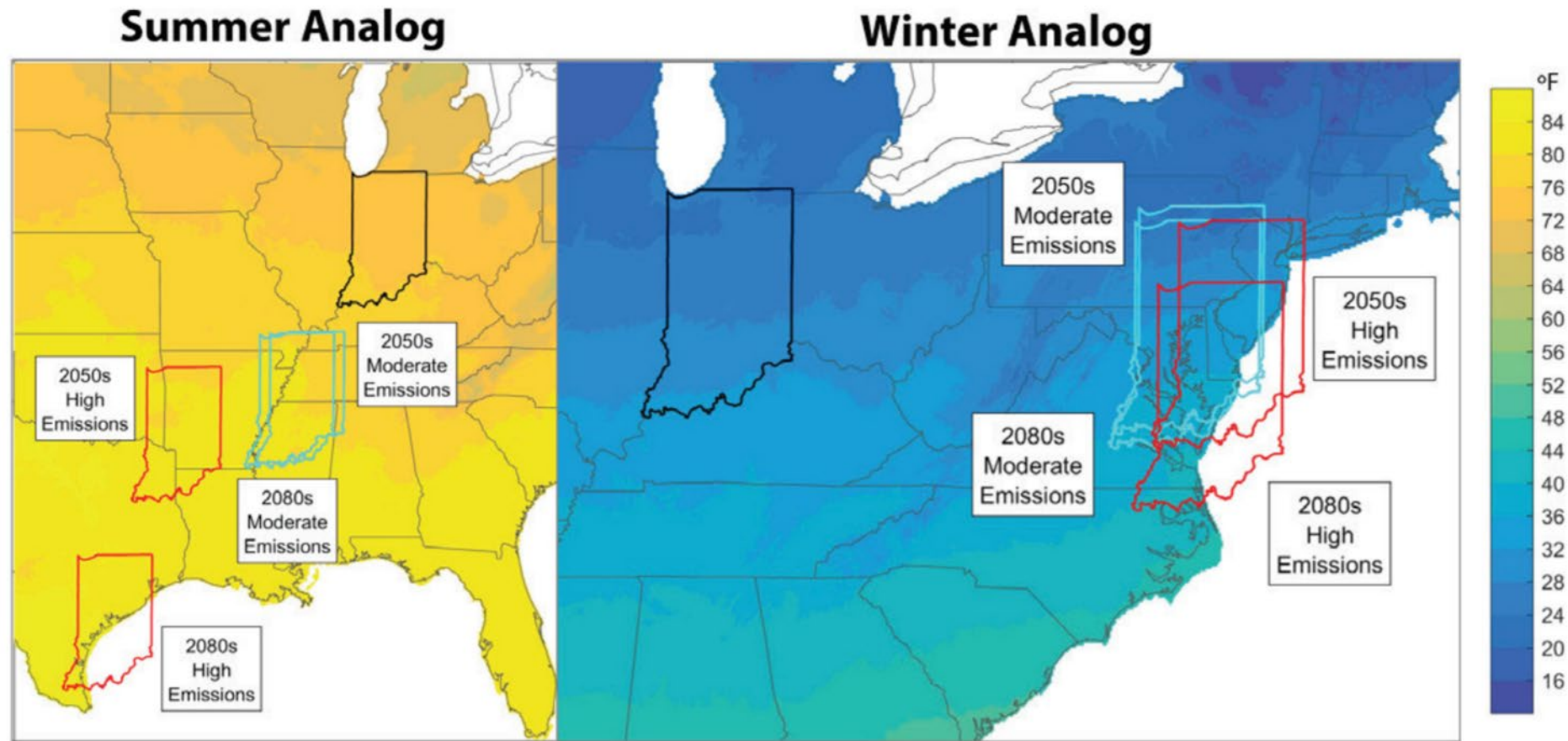
-2%



FALL



# Predicted Climate by 2050 and 2080





# SUSTAIN IU

Scope 1 emissions: direct emissions from sources owned/controlled by IU

Scope 2 emissions: indirect (purchased) from sources owned/controlled by IU

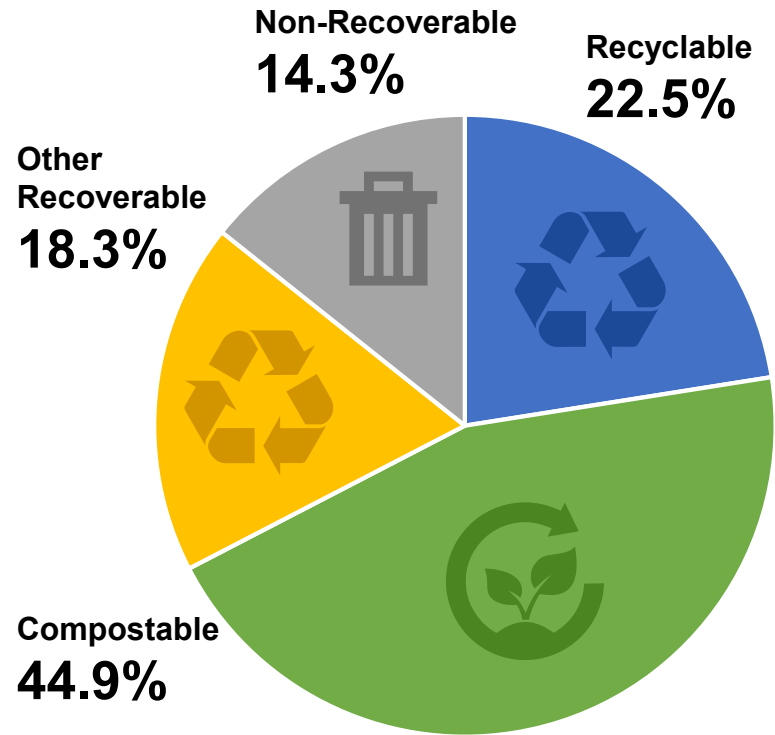
Scope 3 emissions: sources not owned/controlled, but stem from IU activities (e.g. commute, business travel, purchasing, waste)—

*Larger than Scope 1 and 2?*

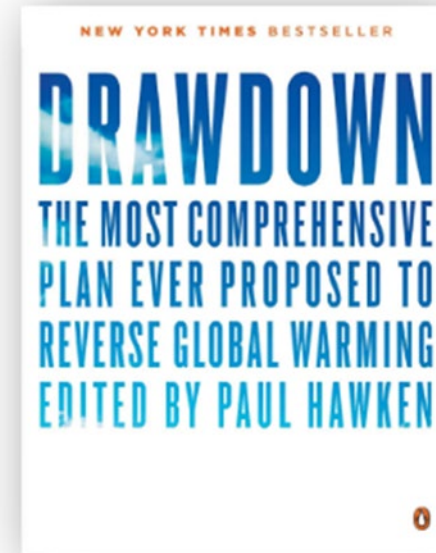


# Scope 3: Sustainable Materials Management

## IUB Landfill Stream

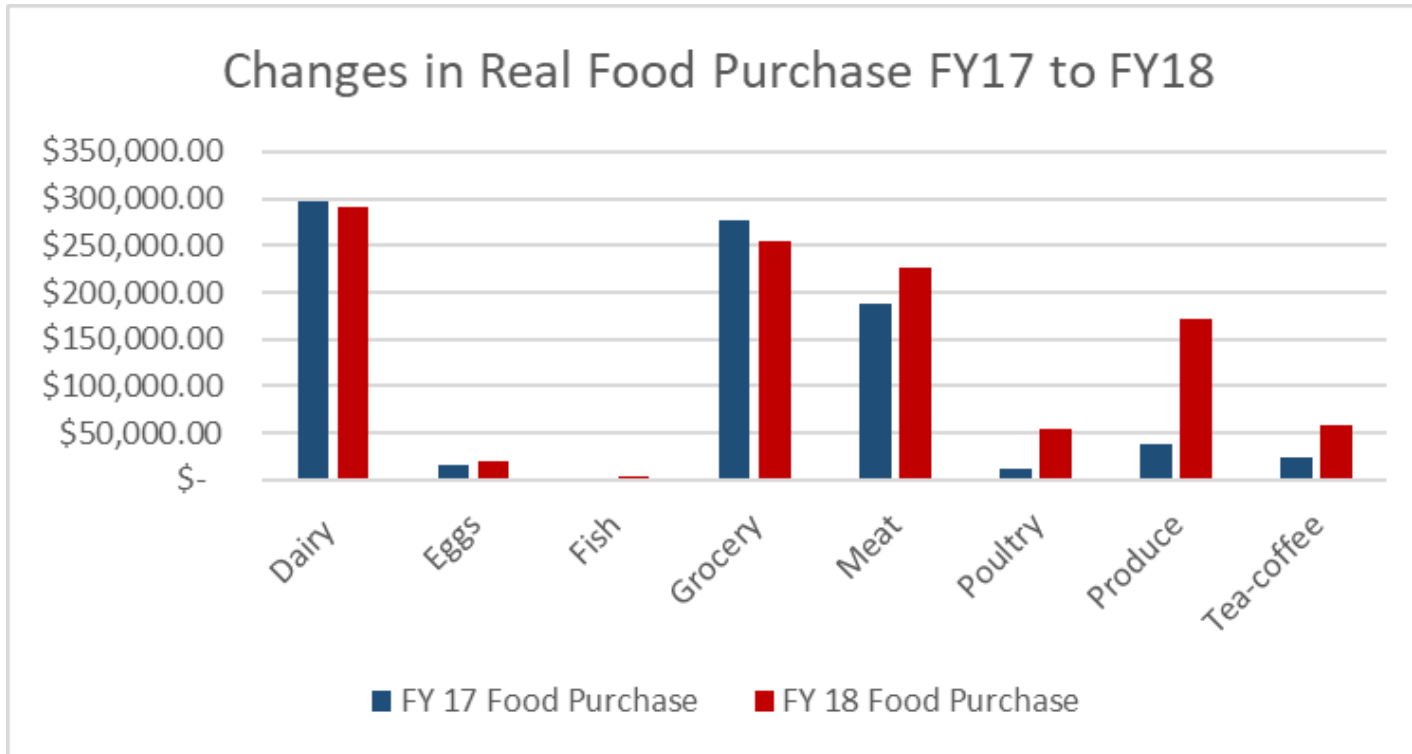


- 39% diversion rate
- Over 85% of the landfill stream could have been recovered





# Scope 3: Sustainable Food Purchasing



- Purchasing plan in progress: RPS dining, Center for Rural Engagement, Purchasing, Sustainability
- FY19 data in progress



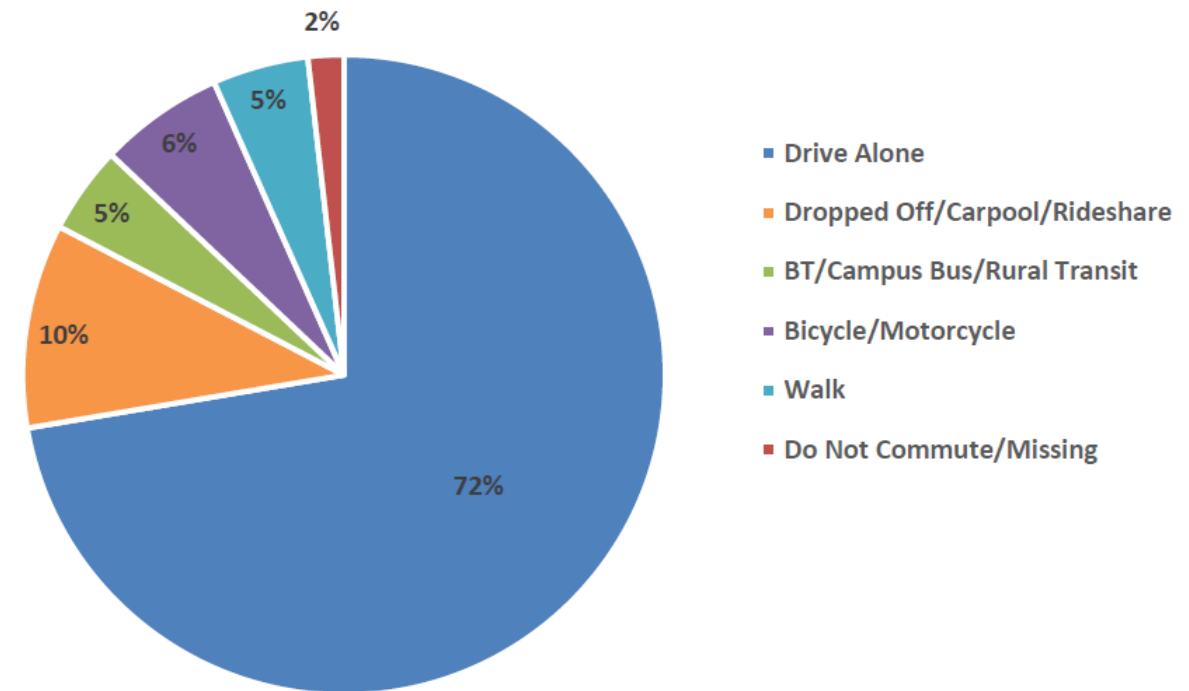
Baked goods, beverage, and bread excluded from figure due to low % qualifying





# Scope 3: Sustainable Transportation

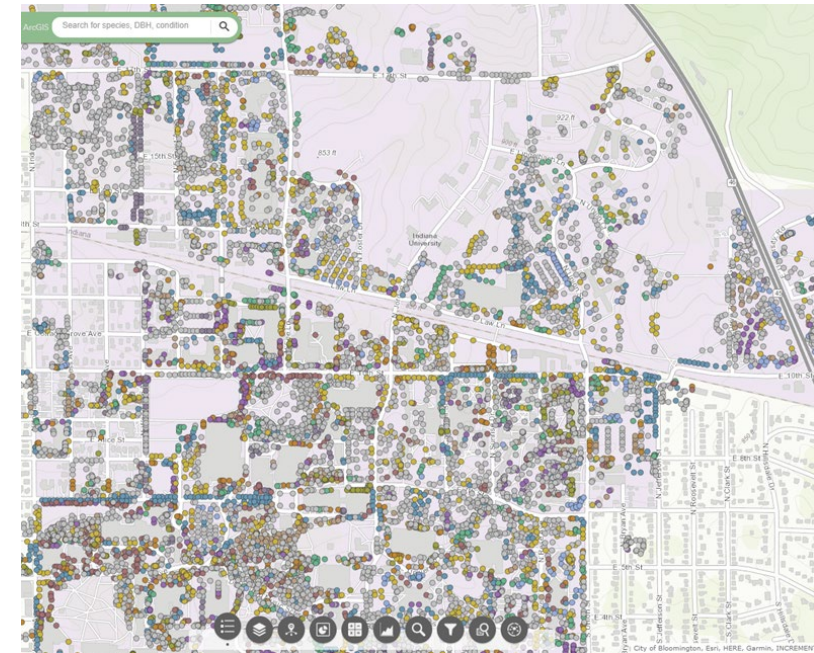
- Increase % of faculty/staff that use sustainable options as their primary commute option
  - ~40% live 4 miles or less from campus
- CALSTART green fleet application
  - Air quality, emission reduction, fuel efficiency
- Business travel: University of Maryland



# Landscape: Woodland Campus, Ecosystem Services

Annual Benefits	Total \$ (USD)	Reduction	\$ (USD)/tree
Energy	63,197.85	3,892 MBTU/339 MWH	5.18
Avoided Carbon Emissions (from energy savings)	35,500.00	208 Tons of Carbon	2.95
Gross Carbon Sequestration	23,161.09	135.8 Tons of Carbon	1.9
Air Pollution Removal	12,135.52	Varied	0.99
Avoided Runoff	22,724.44	2.62 Million Gallons	1.86

- 2016 v. 2019
  - Condition has declined
  - Plant for future
    - Diversity



# Leadership Development

Undergraduate research

Sustain IU internships

Indiana Sustainability  
Development Program

*~750K in private support*



# Sustain.iu.edu



## Commitment Areas and Working Groups

- Food
- Energy and Built Environment
- Resource Use and Recycling
- Transportation
- Environmental Quality and Land use



# Sustainability Tracking Assessment Rating System



85+



65+



45+



25+



Platinum	5
Gold	109
Silver	149
Bronze	41
Reporter	14

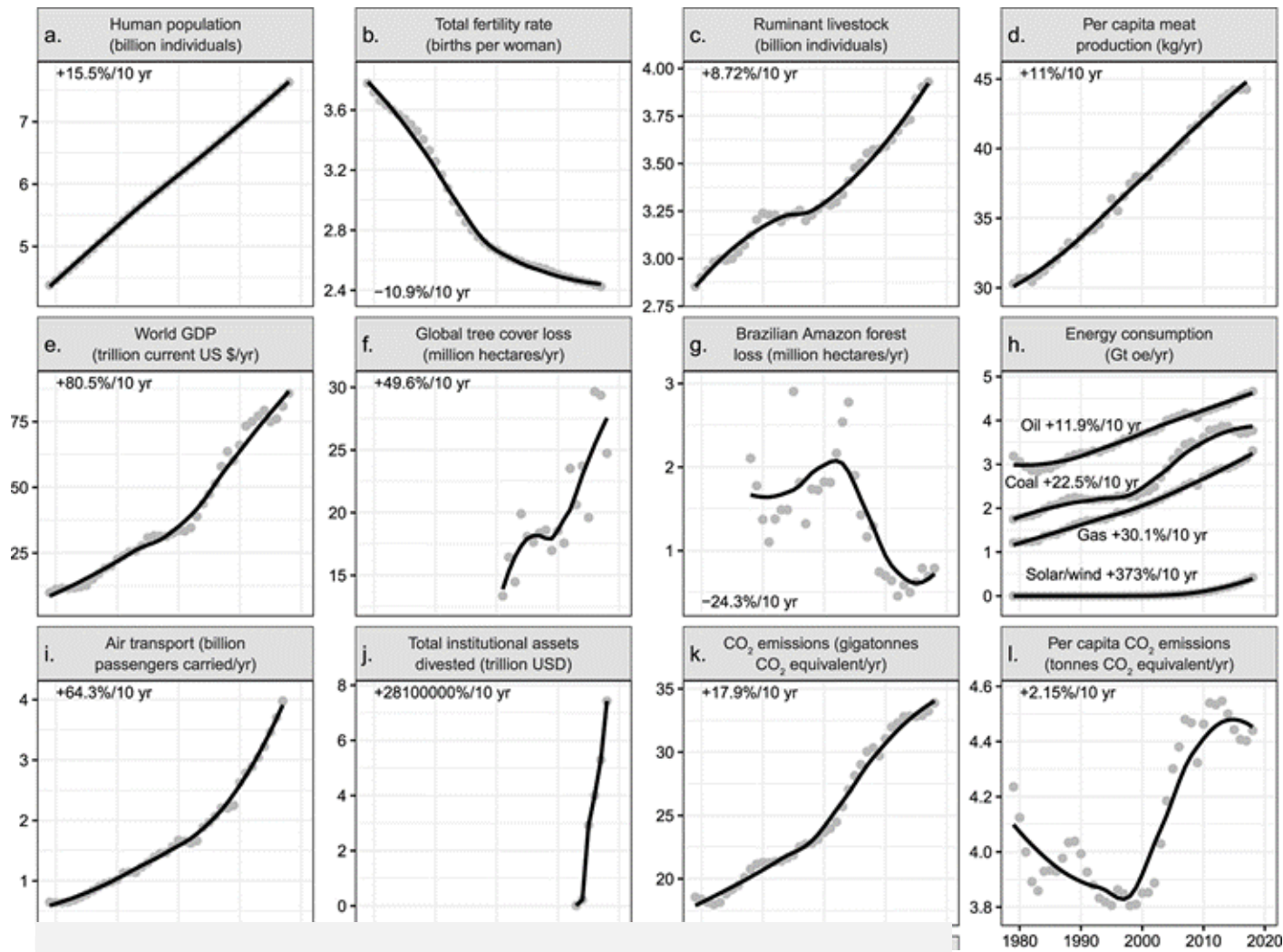


# Scope 3 Waste: Strategy

1. Bin inventory
  - a) Location, co-mingled or single stream, bins per occupant, paired vs. solitary bins
  - b) What needs replaced, repurposed
2. Waste signage brand with IU Studios
3. Waste GHG tracking
4. Move towards internal data assessment and building-level weight racking
5. Best practice rollout in 1-3 buildings
  - a) Quarterly or annual audits to monitor diversion change



# Change in global human activities from 1979 to the present



# Increased Demand, Increased Cost

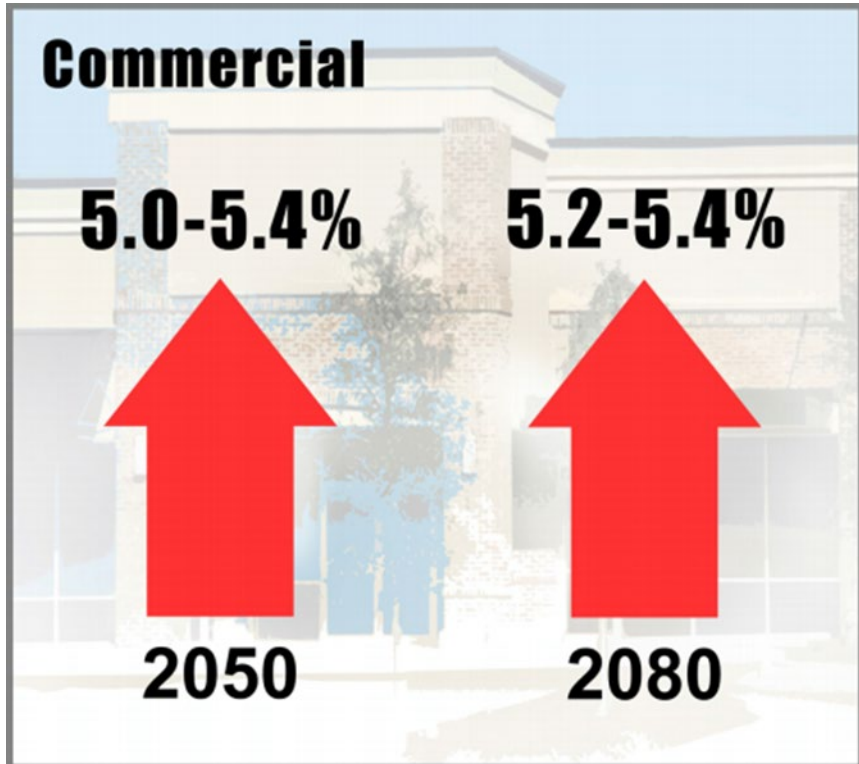


Figure 6-5. Indiana Commercial Base Real Price Projections (in 2015 Dollars)

