

Economic Outlook for the State of Iowa

May Lin, *Economic Analyst*

Julia Wacker, Associate I

Julian Brubaker, Associate I



Welcome and Introductions

- REMI models
- Big Picture: REMI Regional Growth Matrix
- Economic outlook
 - Short-term forecast
 - Long-term forecast
- Model demonstration
- Q & A



Model

Regional Economic Models, Inc. (REMI) was founded in 1980 on a transformative idea: government decision-makers should test the economic effects of their policies before they're implemented. We are the nation's leader in dynamic local, state and national policy modeling. Our clients use REMI models to perform rigorous economic analysis that critically influences local, state and national policies.

OUR CLIENTS:

Business Roundtable • Sandia National Laboratories • Ernst & Young • Texas Comptroller
University of Michigan • Tennessee Valley Authority • National Education Association
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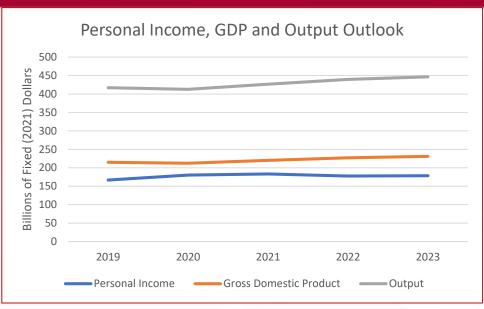
Iowa State Economy

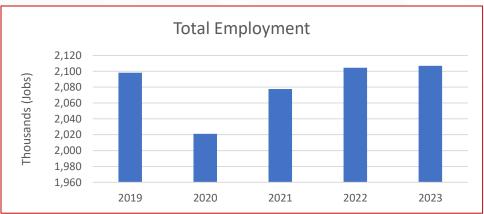
- Iowa is the 32nd most populous and the 26th most expansive of the 50 United States.¹
- Population of 3.167 million; median age of 38.2; and a median household income of \$60,523.¹
- Largest contributors to GSP by sector include manufacturing, finance and insurance, real estate, rental and leasing, and health care and social assistance.²
- Iowa has a high rank in beef, pork, corn, soybean, and cereal production. The state has more than 85,000 farms and the average farm size in Iowa in 2017 was 351 acres.³
- Iowa leads the nation in per-capita wind power capacity with 2,324 MW/million people.³

Short-Term Outlook: lowa



- Years 2019-2023
- Growth 2020-2021
 - Personal income: 1.7%
 - GDP: 3.6%
 - Output: 3.3%
 - Employment: 56 thousand jobs
- Uncertainty





REMI Regional Growth Matrix: Economic & Demographic Factors



Economic Factors

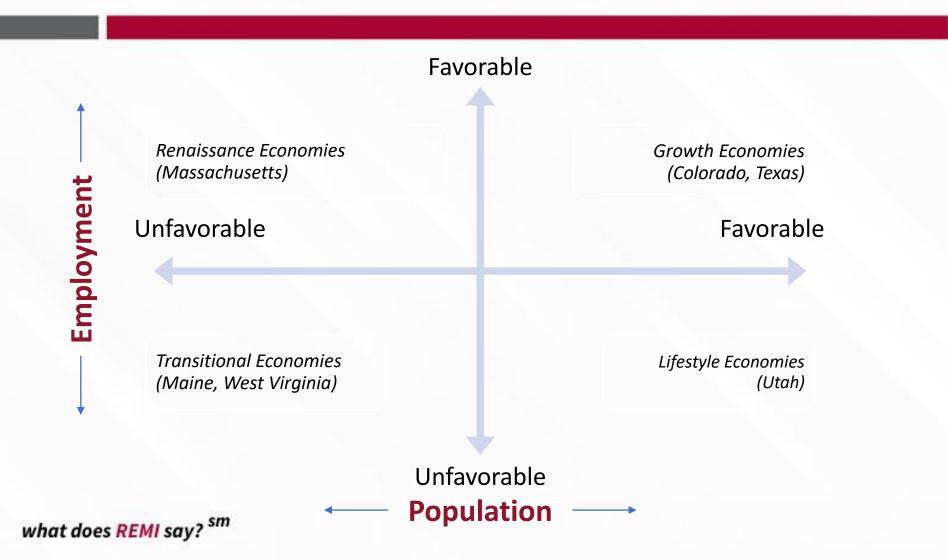
	Industry Growth	Industry Clusters	Pay	Productivity	Business Cost
Favorable	Growing	Strong	High-paid industries	High	Low
Unfavorable	Declining	Weak	Low-paid industries	Low	High

Demographic Factors

	Population Age	Retirees	Immigration	Amenities	Housing Cost
Favorable	Younger	Gains retirees	Immigration gateway	High	Low
Unfavorable	Older	Loses retirees	Low internat'l immigration	Low	High



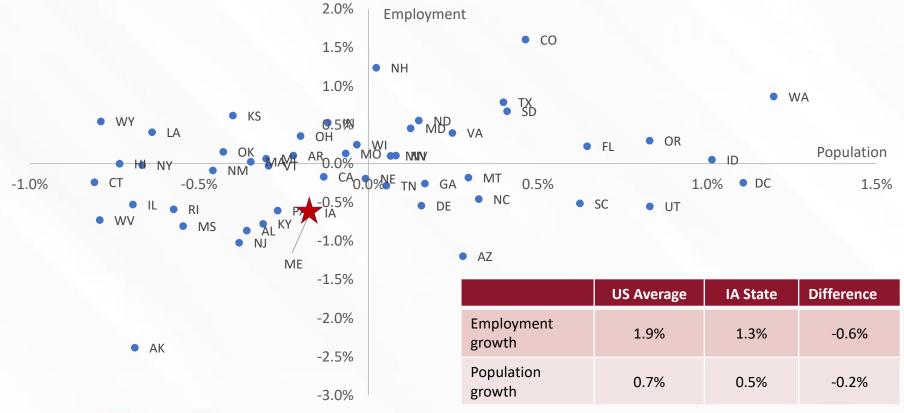
Regional Growth Matrix





Growth Matrix

Difference in Growth from US Average (2021-2022)





Data Sources

- Baseline (Standard National Control)
 - BLS Forecast Data
- Economic Forecast Update March 2021
 - 2019-2020 historical data from BEA
 - The U.S. Economic Outlook for 2020-2022 from the University of Michigan's Research Seminar in Quantitative Economics (RSQE)
 - An update to the Economics Outlook from CBO
 - Includes \$1.6 trillion stimulus, additional vaccination, and additional consumer spending¹

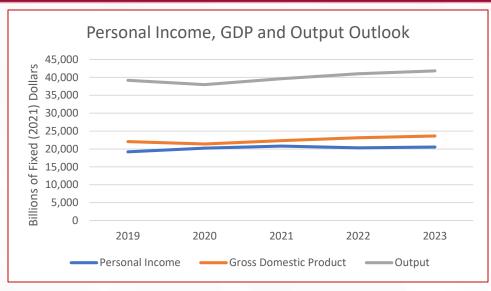


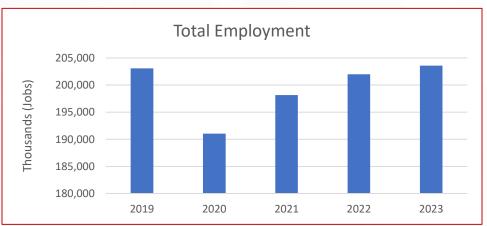
National Outlook



Short-Term Outlook: the U.S.

- Years 2019-2023
- Growth 2020-2021
 - Personal income: 2.9%
 - GDP: 4.4%
 - Output: 4.4%
 - Employment: +7 million jobs

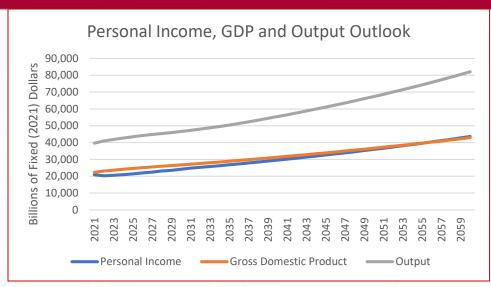


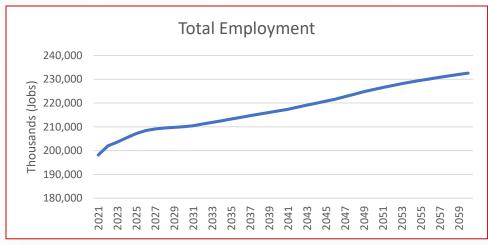




Long-Term Outlook: The U.S.

- Years 2021-2060
- Average growth / year
 - Personal income: 1.9%
 - GDP: 1.8%
 - Output: 1.9%
 - Total employment:
 +1,038 thousand jobs





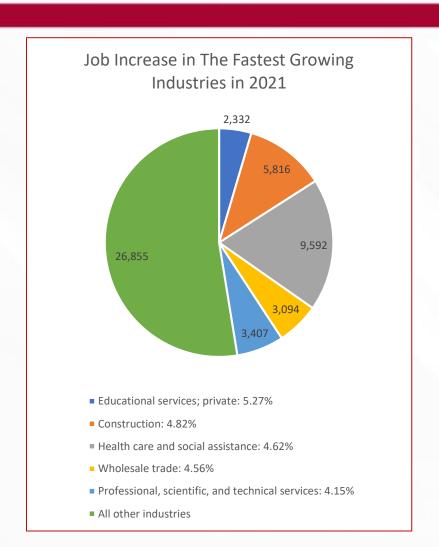


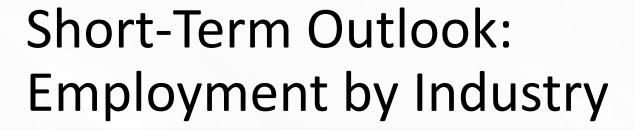
Regional Outlook: lowa

Short-Term Outlook: Employment by Industry



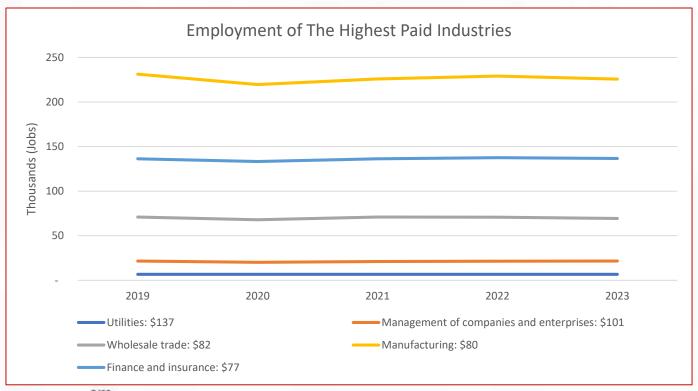
- Industries with largest employment growth rates in 2021
- 2020 2021: 24,241
 jobs increasing in the
 top 5 fast growing
 industries







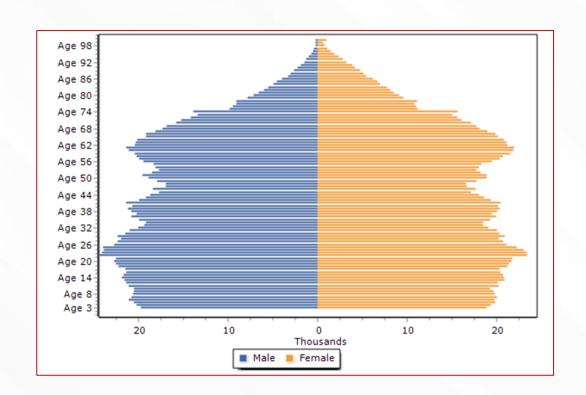
 Industries with highest average annual compensation rates in 2021





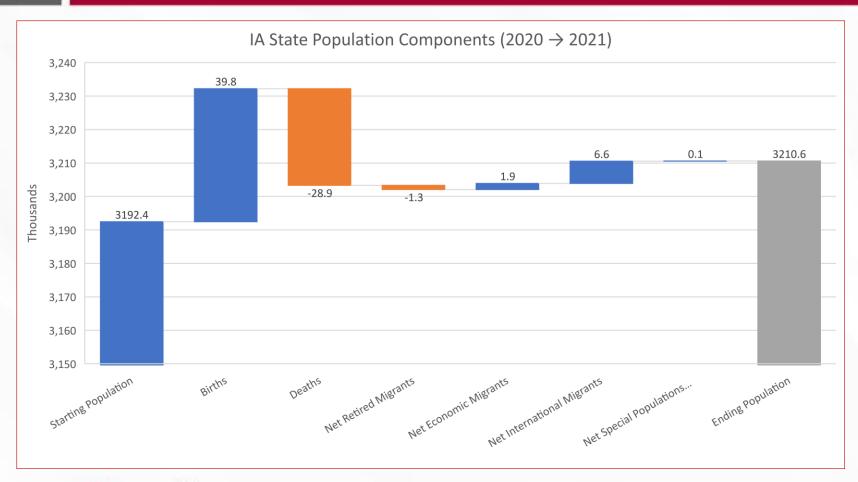


- Year 2021
- Near stationary





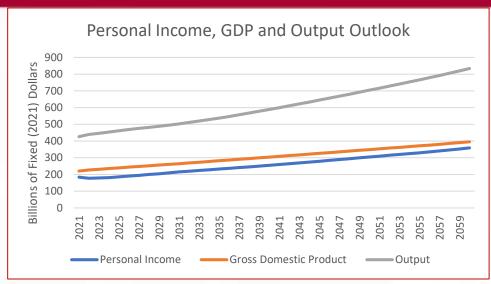






Long-Term Outlook: Iowa

- Years 2021-2060
- Average growth / year
 - Personal income: 1.7%
 - GDP: 1.6%
 - Output: 1.8%
 - Total employment: 6 thousand jobs

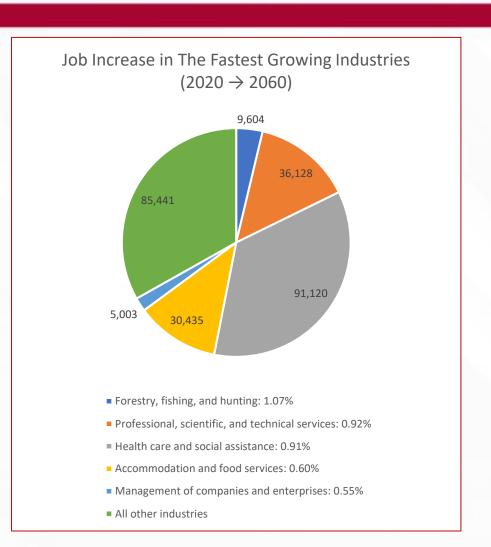


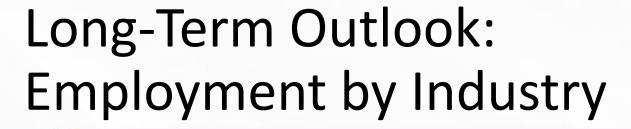






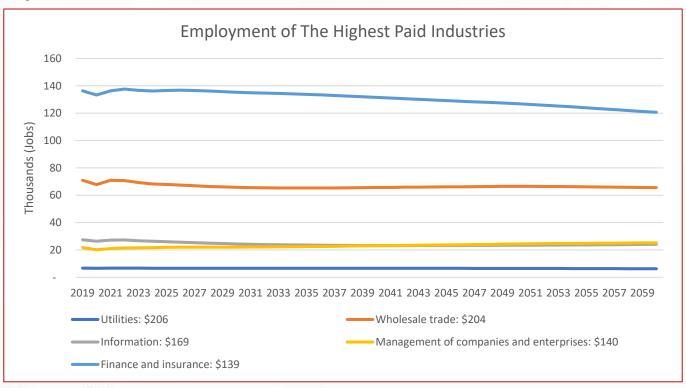
- Industries with fastest employment increasing
- 2020 2060: 172,290 jobs increasing in the top 5 fast growing industries

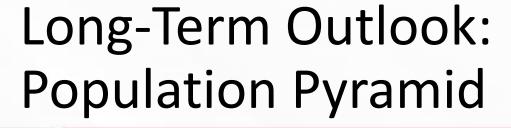






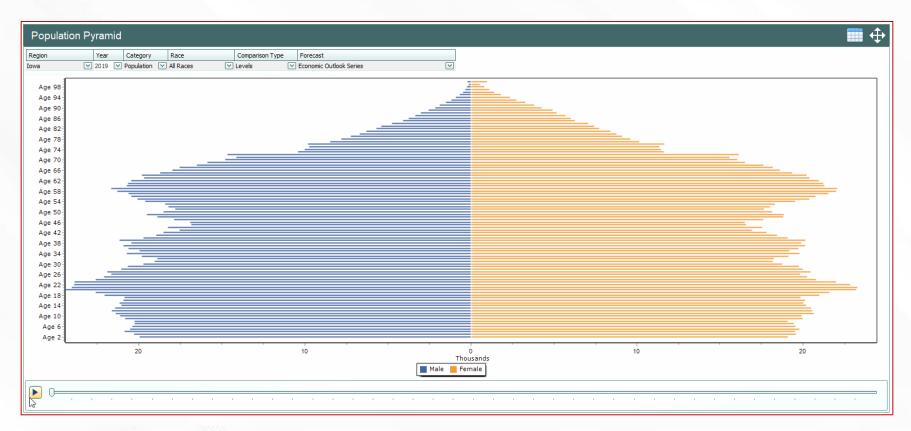
Employment of industries with highest average annual compensation rates in 2060







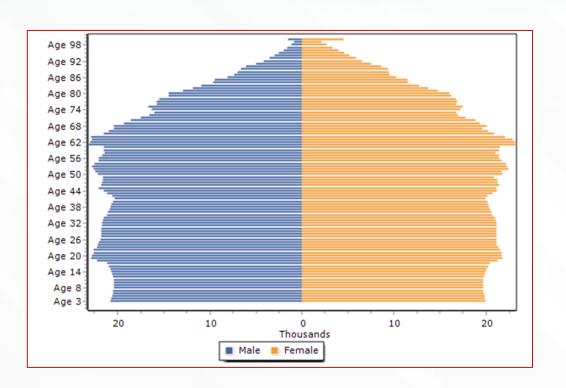
Year 2060





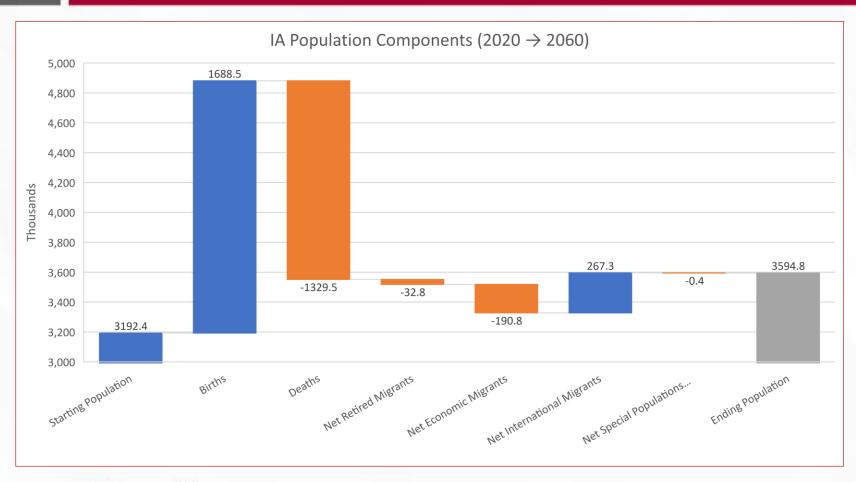


- Year 2060
- Near stationary, more constrictive





Population Components





Model Demonstration



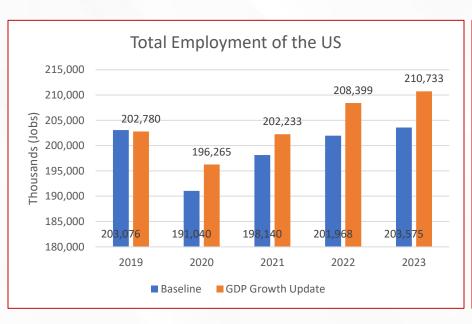
The Scenario

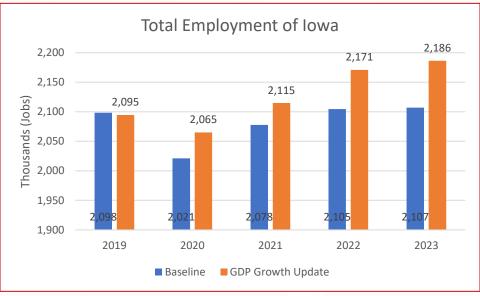
- Optimistic Outlook
 - Baseline Total employment slowly comes back accompanied by steady growth
 - Uncertainty
 - large pent-up consumer demand
 - supports of vaccine
 - stimulus checks
- Macroeconomic update
 - Increase GDP growth rate by 2%
- Total Employment
 - The US vs Iowa



Optimistic Outlook

Year 2019-2023







Conclusion

- Economic forecasts can be difficult
 - The outbreak of COVID-19
 - The election of a new president
 - General uncertainty about the economy
- REMI can help
 - Forecasts: Macro modeling used to clarify, calculate, and communicate
 - Simulations: What-if scenarios
 - Dynamic results



Q&A

May Lin, Economic Analyst May.Lin@remi.com

Julia Wacker, Associate I <u>Julia.Wacker@remi.com</u>

Julian Brubaker, Associate I Julian.Brubaker@remi.com



Citations

1. Ehrlich, Gabriel M. "The U.S. Economic Outlook for 2021-2022 -- Executive Summary: February 2021." *College of Literature, Science, and the Arts, University of Michigan*, Research Seminar of Quantitative Economics, University of Michigan, 19 Feb. 2021, Isa.umich.edu/content/dam/econ-assets/Econdocs/RSQE%20PDFs/Exec Sum Feb 2021.pdf.