



BREAKFAST
March 29, 2016

• PRESENTED BY •

National Bank
of Commerce



Member FDIC

• WITH THE HELP OF •



ECONOMIC TRENDS IMPACTING THE 15-COUNTY REGION

UMD

UNIVERSITY OF MINNESOTA DULUTH

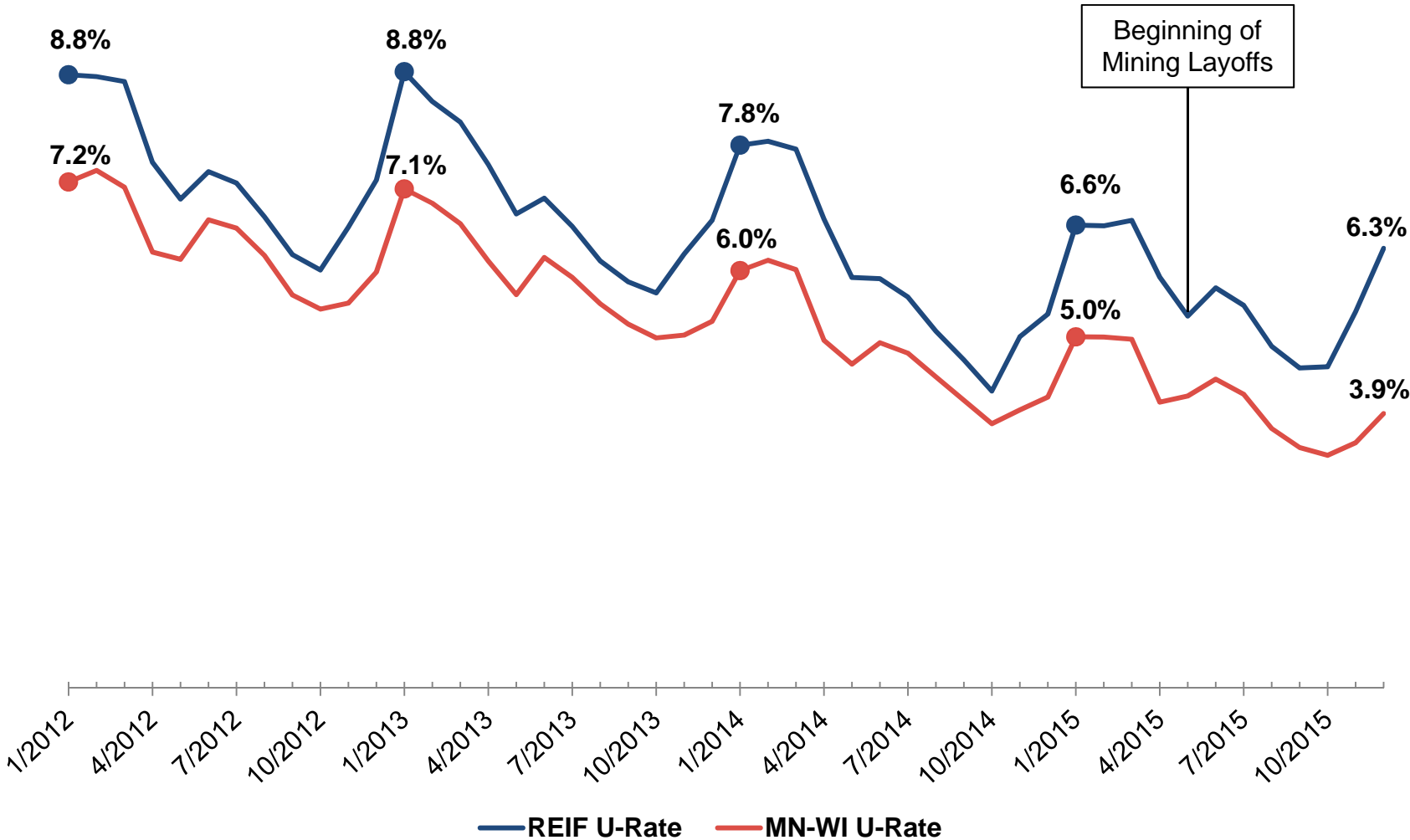
Driven to Discover™

Austin Kuhn

Bureau of Business and Economic Research
Labovitz School of Business and Economics, UMD

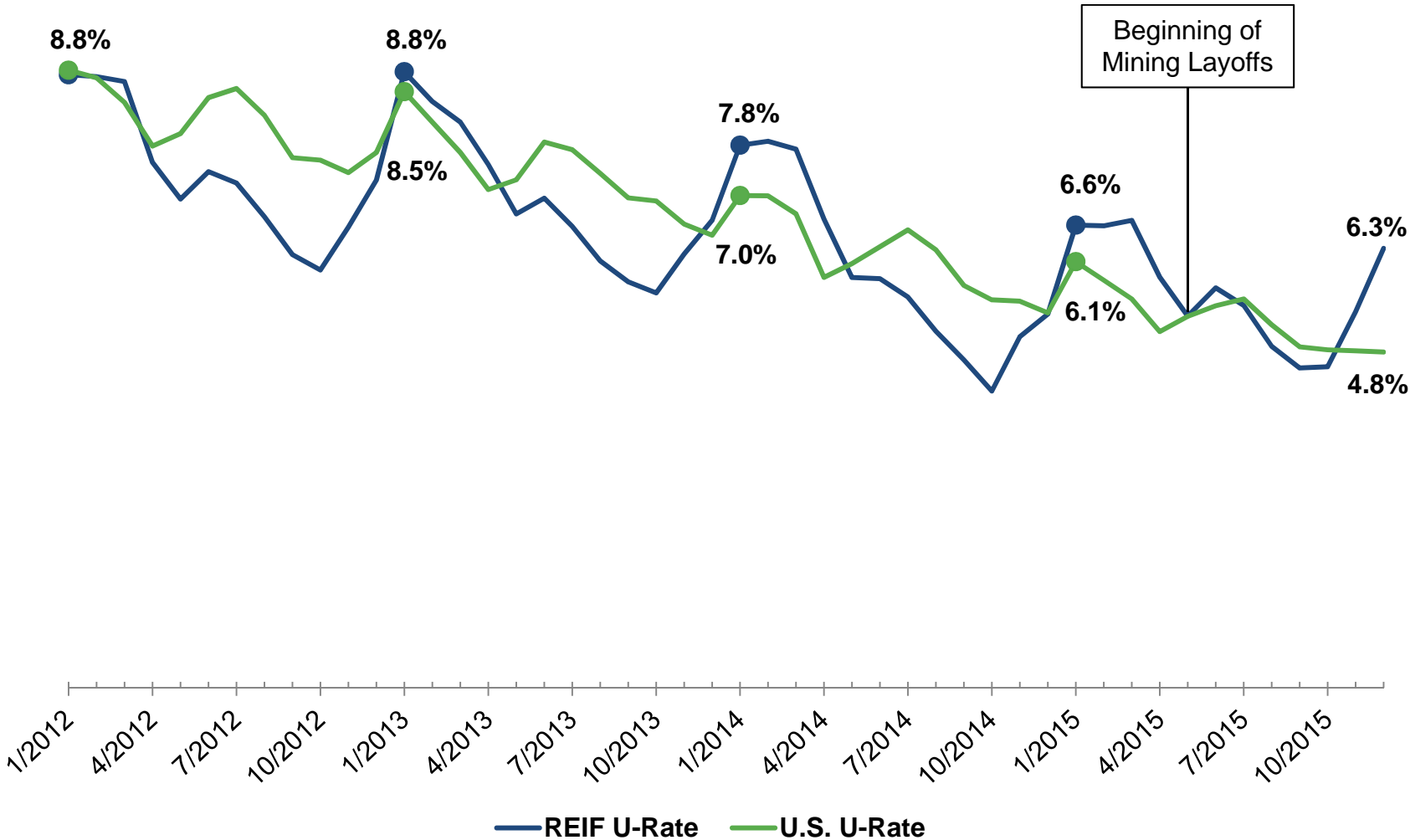


REIF UNEMPLOYMENT RATE



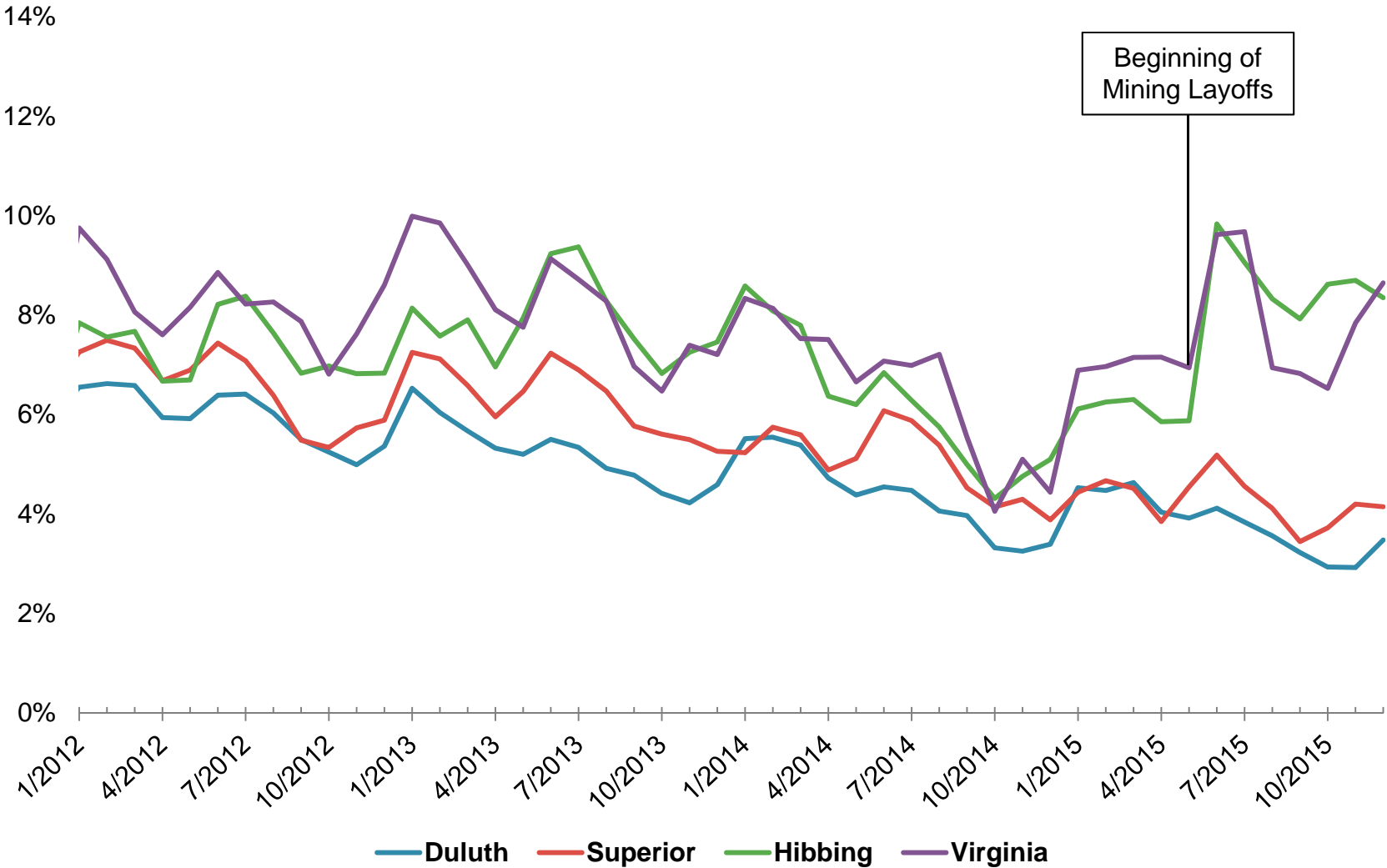
Source: Local Area Unemployment Statistics, 2016

REIF UNEMPLOYMENT RATE



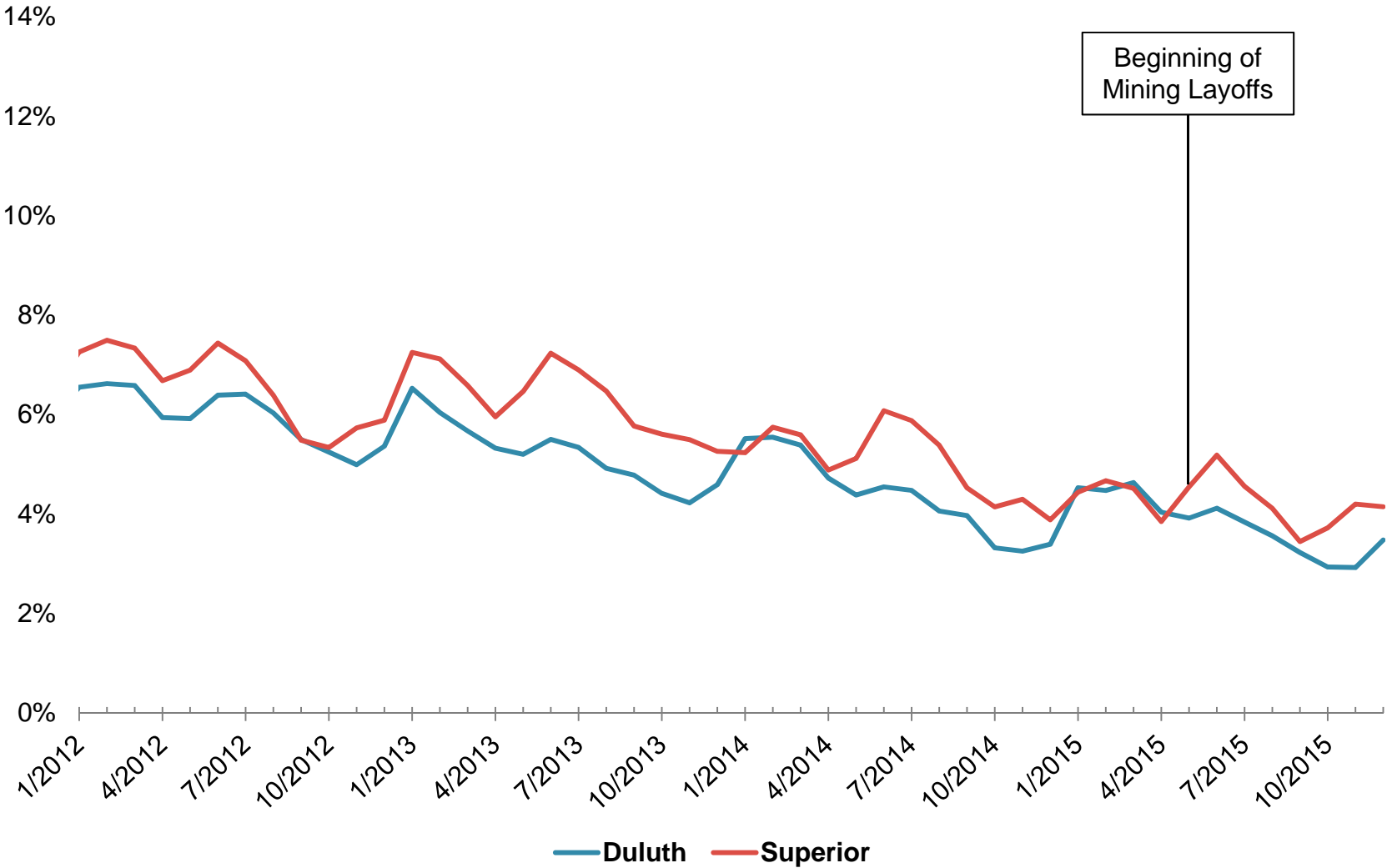
Source: Local Area Unemployment Statistics, 2016

CITY UNEMPLOYMENT RATE



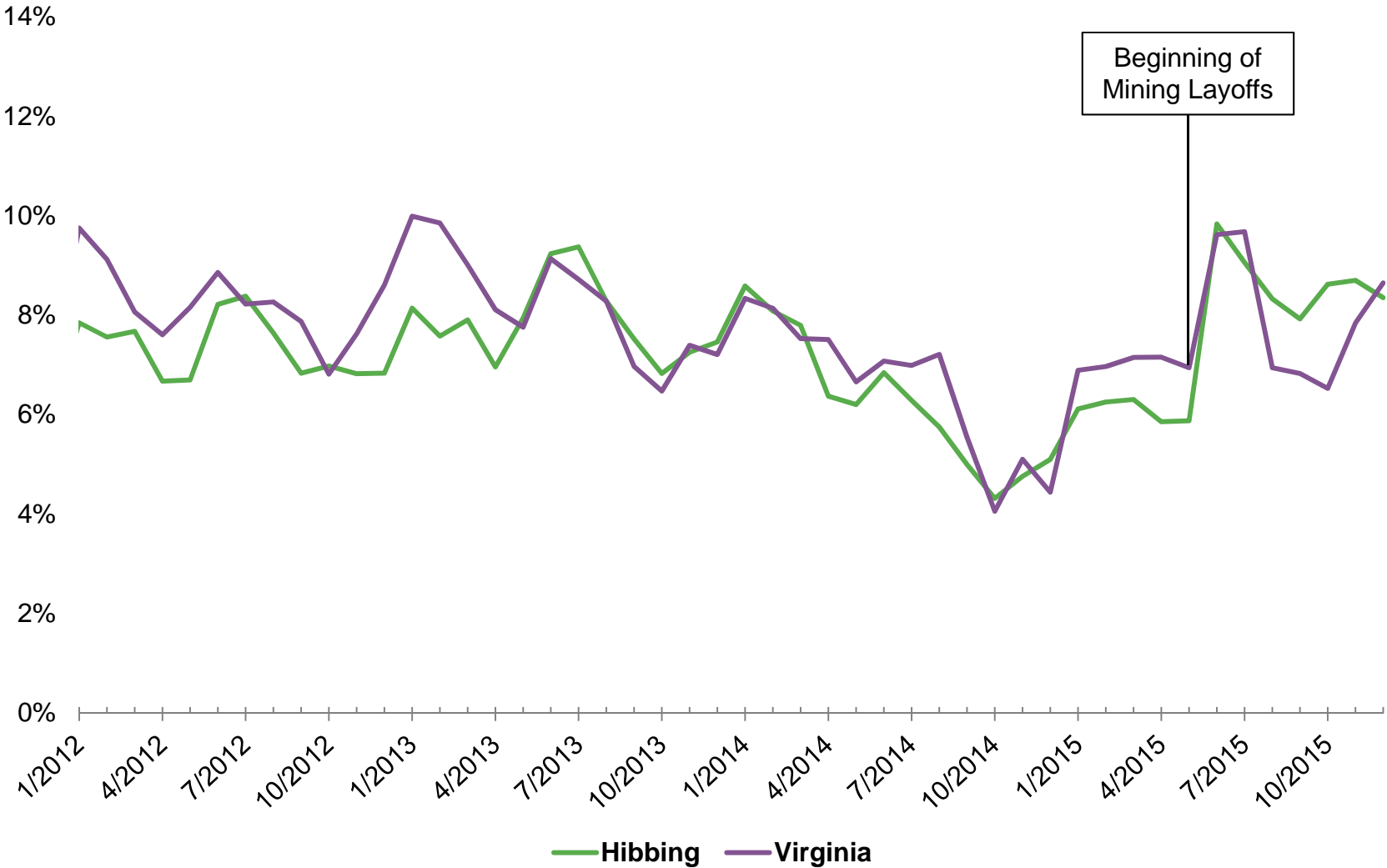
Source: Local Area Unemployment Statistics, 2016

CITY UNEMPLOYMENT RATE



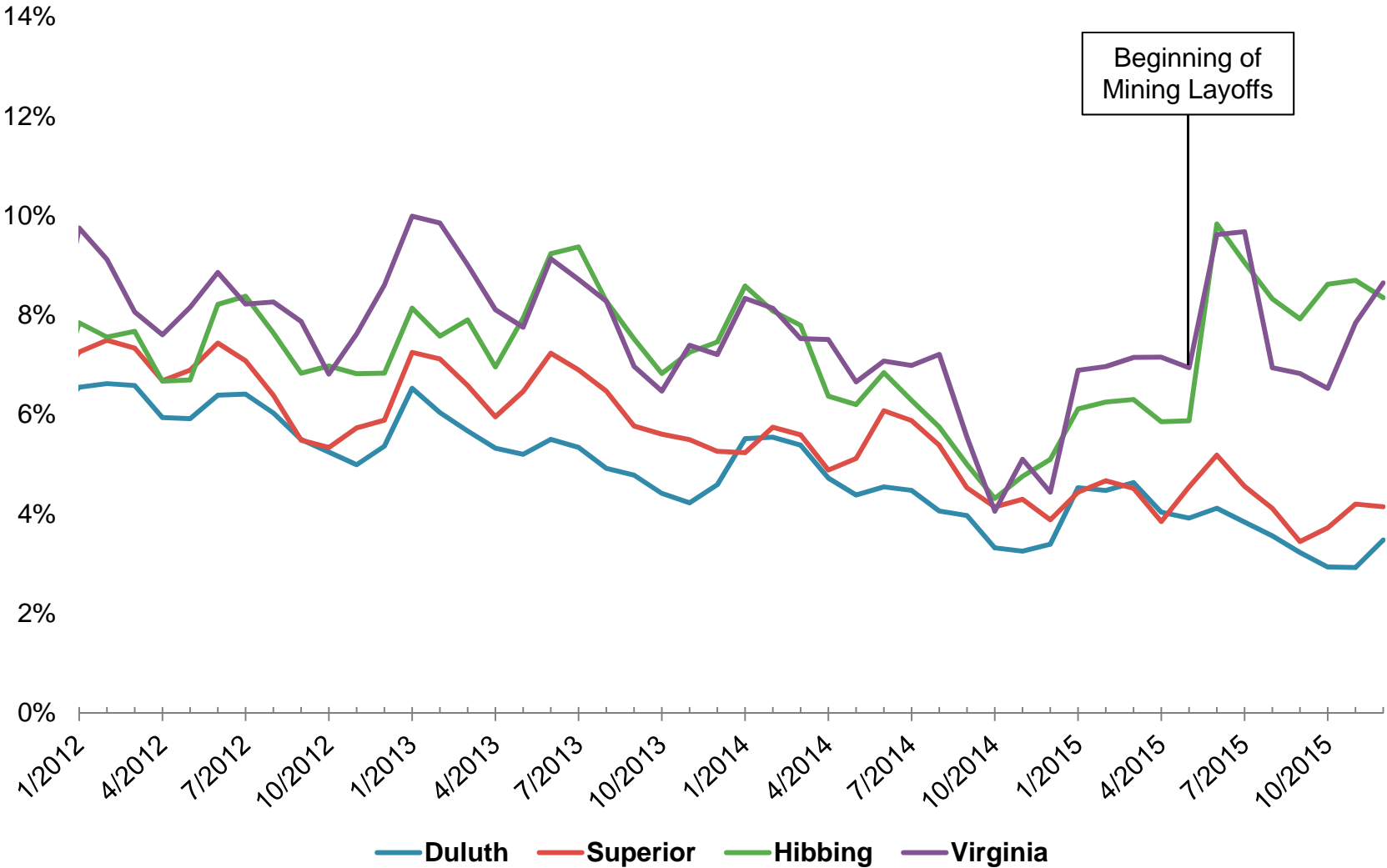
Source: Local Area Unemployment Statistics, 2016

CITY UNEMPLOYMENT RATE



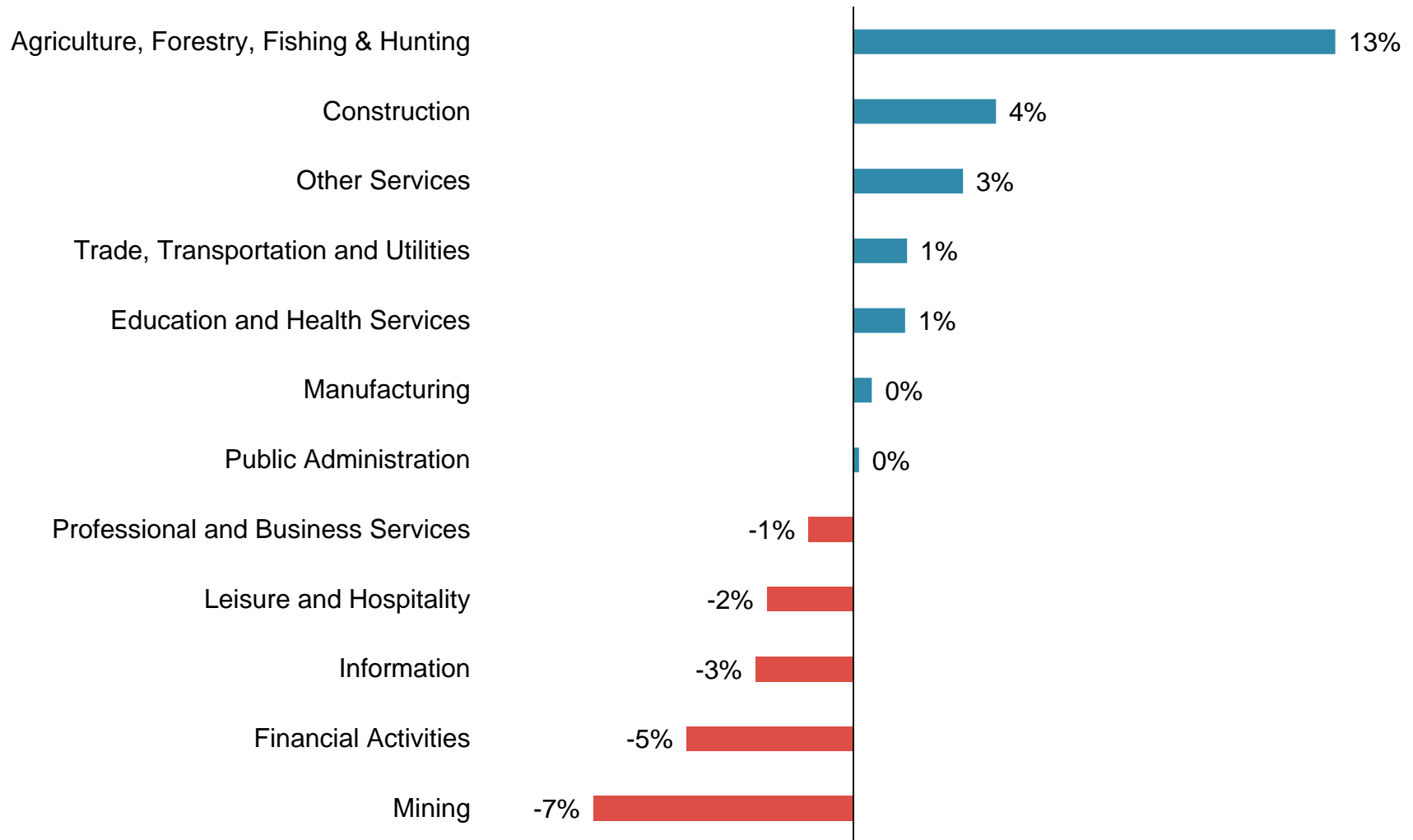
Source: Local Area Unemployment Statistics, 2016

CITY UNEMPLOYMENT RATE



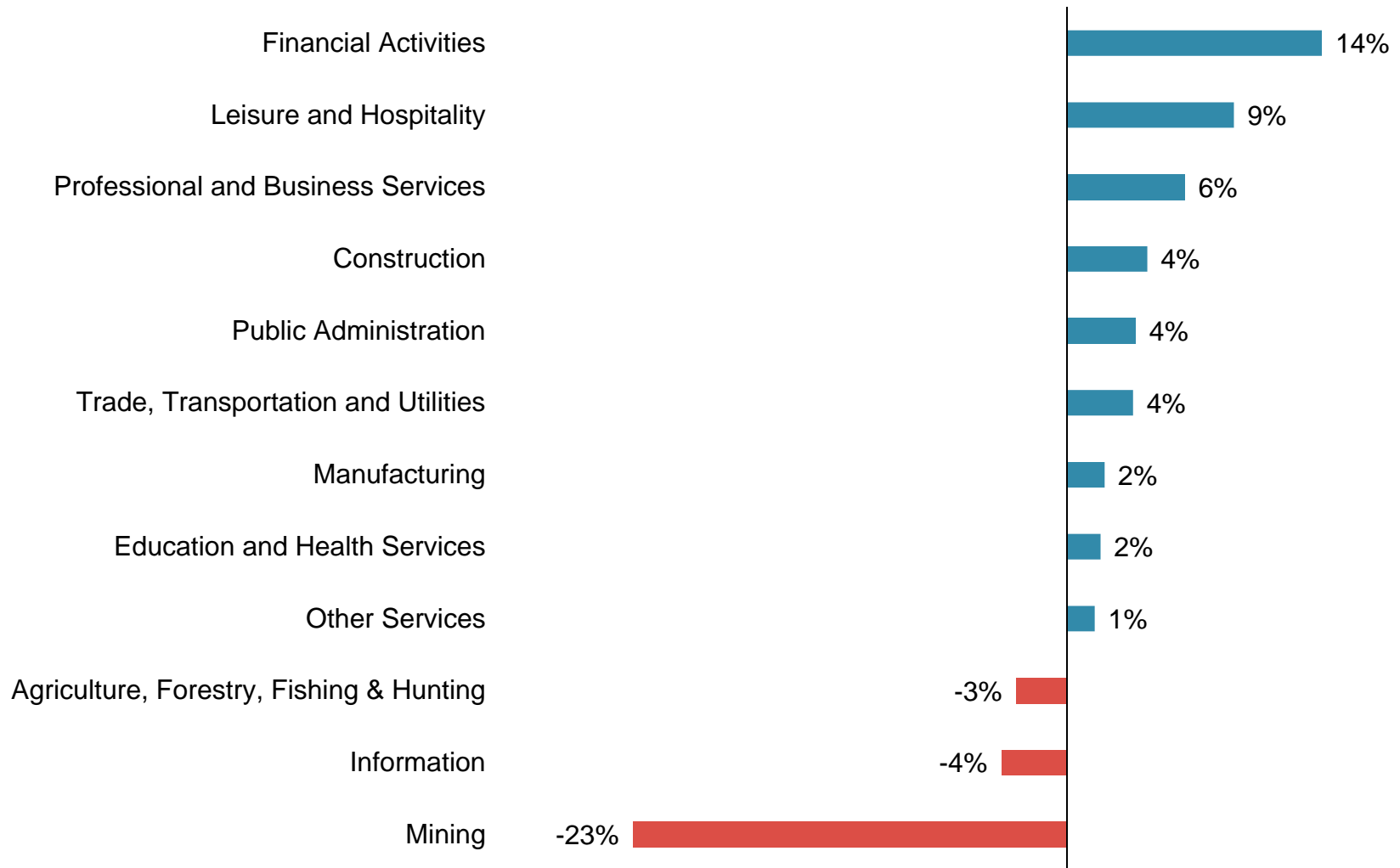
Source: Local Area Unemployment Statistics, 2016

EMPLOYMENT BY INDUSTRY



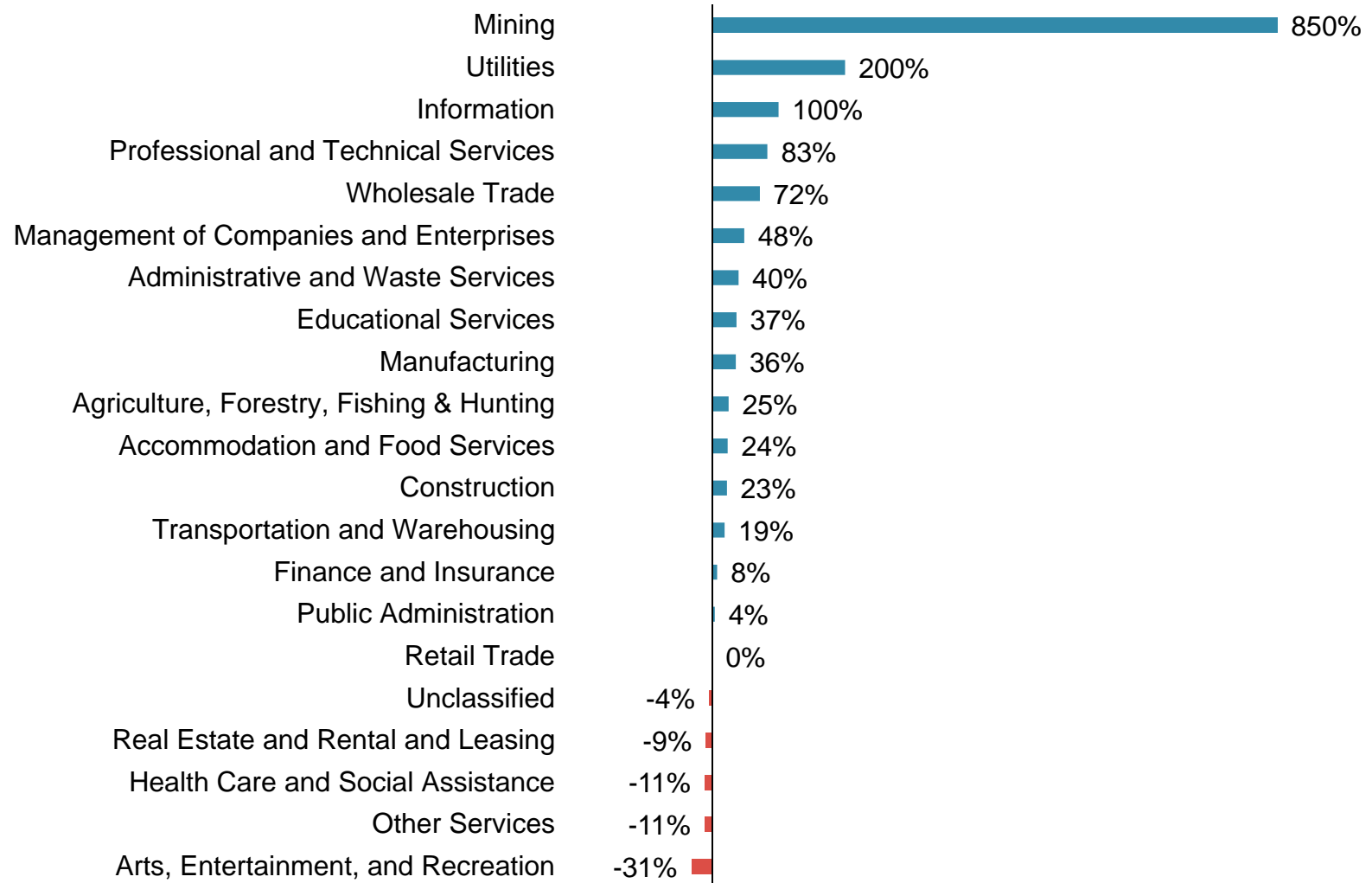
Source: DEED Quarterly Census of Employment & Wages (QCEW), 2016

WEEKLY WAGES BY INDUSTRY



Source: DEED Quarterly Census of Employment & Wages (QCEW), 2016

UNEMPLOYMENT INSURANCE CLAIMS



CONCLUSIONS

- REIF Unemployment Rate
- “Tale of Two Areas”
- Mining Impact
- Recent News

CONSUMER CONFIDENCE INDICATORS



Brian Honness

University of Wisconsin-Superior



CONSUMER CONFIDENCE INDICATORS

- **INDEX OF CONSUMER SENTIMENT (ICS)**

Consumer outlook on personal finances, business conditions and consumption spending

- **INDEX OF CURRENT CONDITIONS (ICC)**

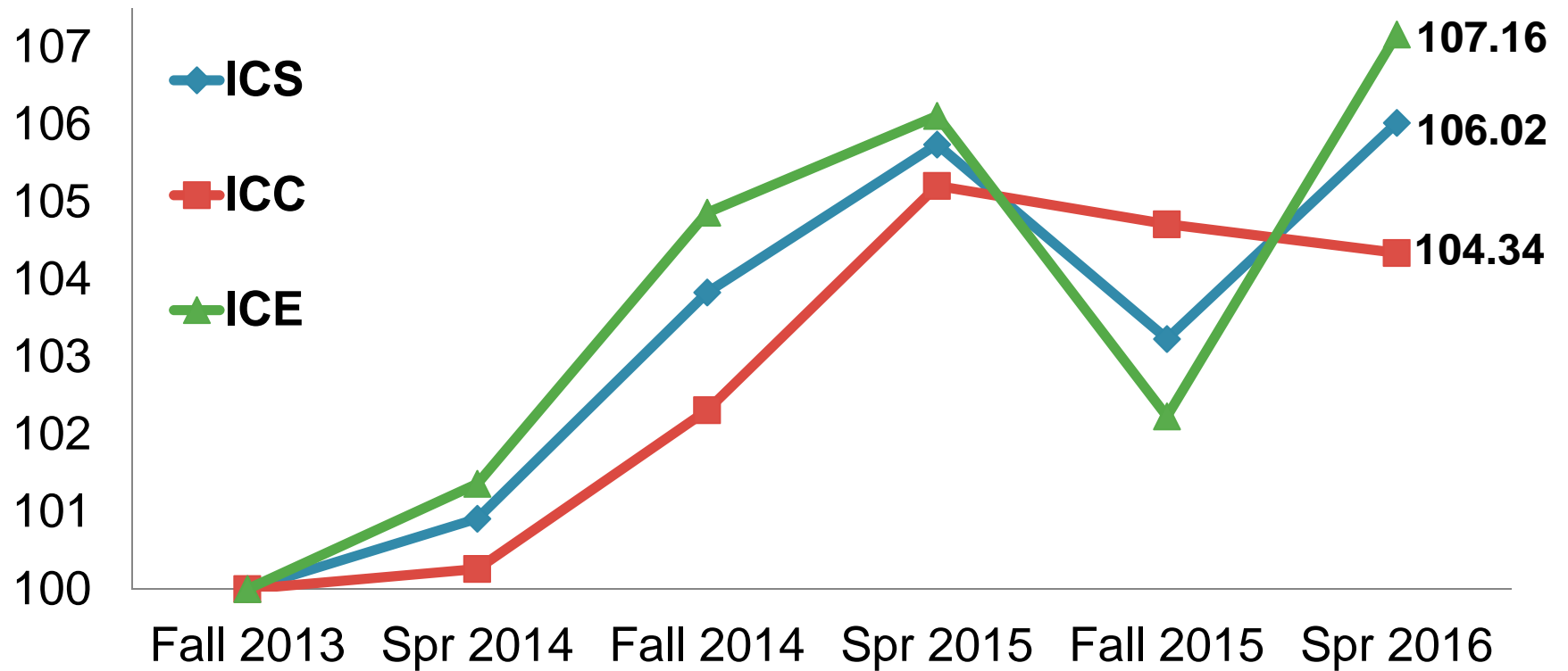
Gauges current state of the economy

- **INDEX OF CONSUMER EXPECTATIONS (ICE)**

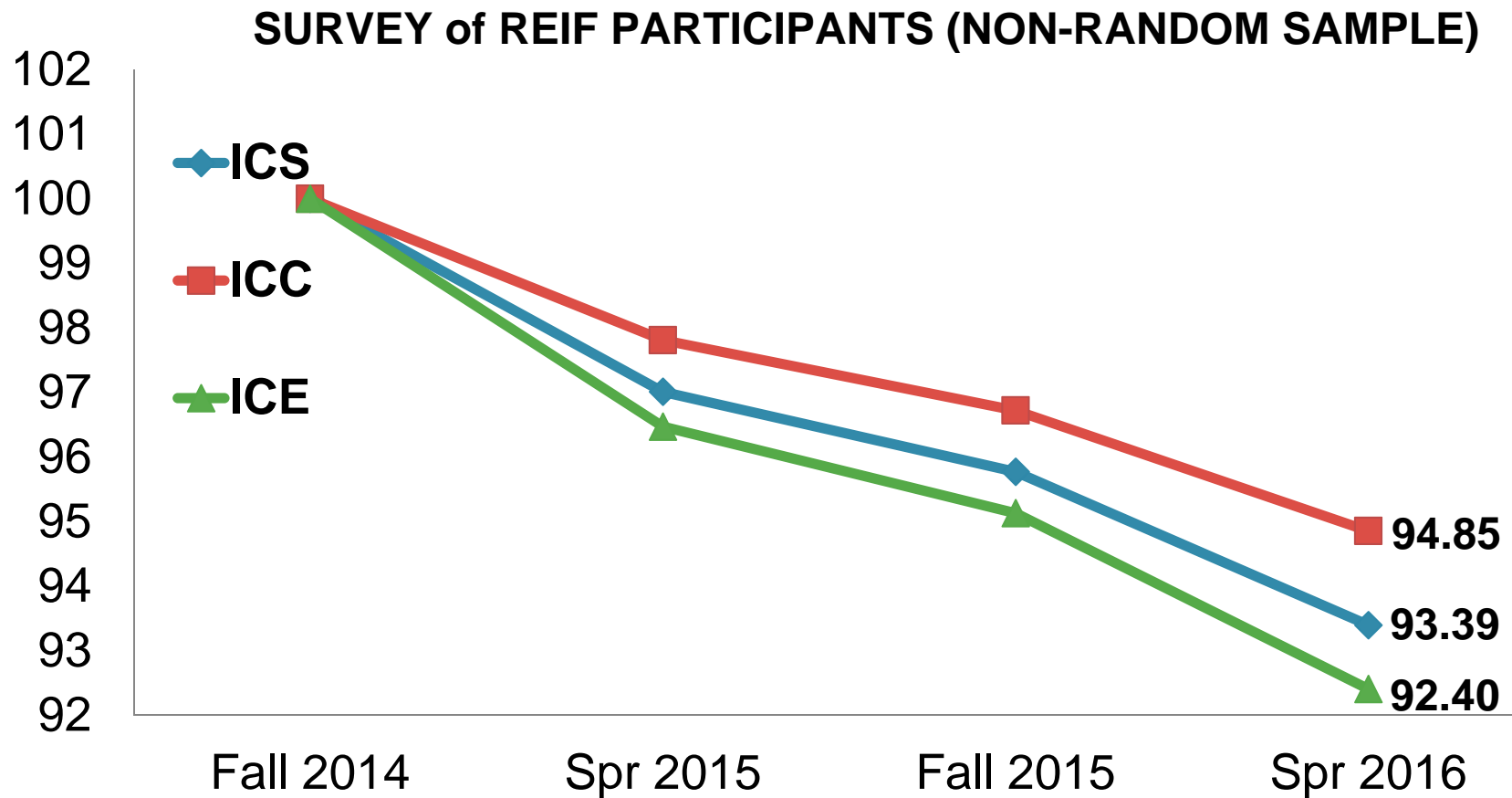
Projects future economic and financial conditions

CONSUMER CONFIDENCE INDICATORS


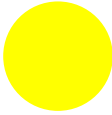

PUBLIC SURVEY (RANDOM SAMPLE)



CONSUMER CONFIDENCE INDICATORS

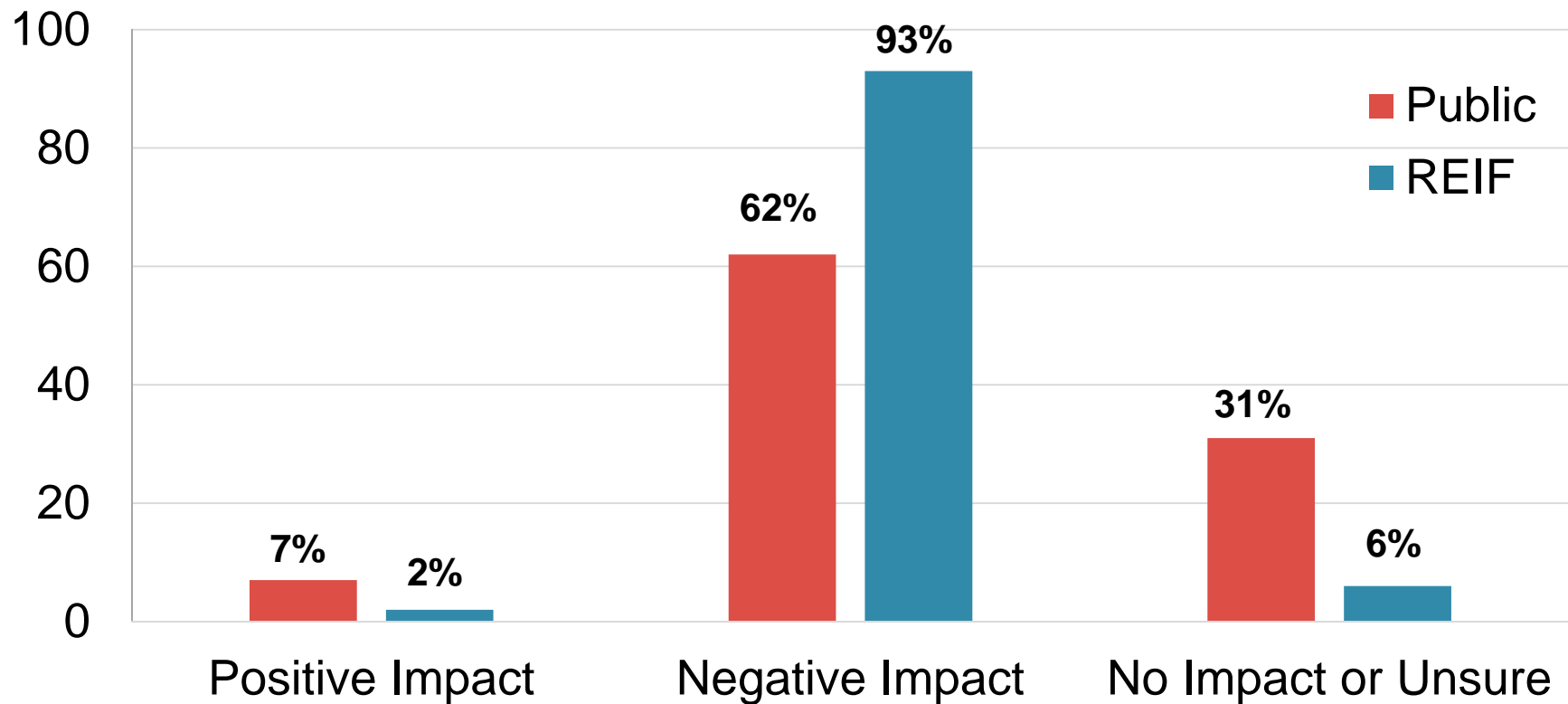


CONSUMER CONFIDENCE INDICATORS

Indicator	Public Survey (Random)	REIF Survey (Non-Random)
ICS 	Rising optimism about short-term economic outlook	Weakening short-term economic outlook
ICC 	Economy is slowing down	Economy is slowing down
ICE 	Expectations of continued economic expansion	Expectations of future economic slowdown

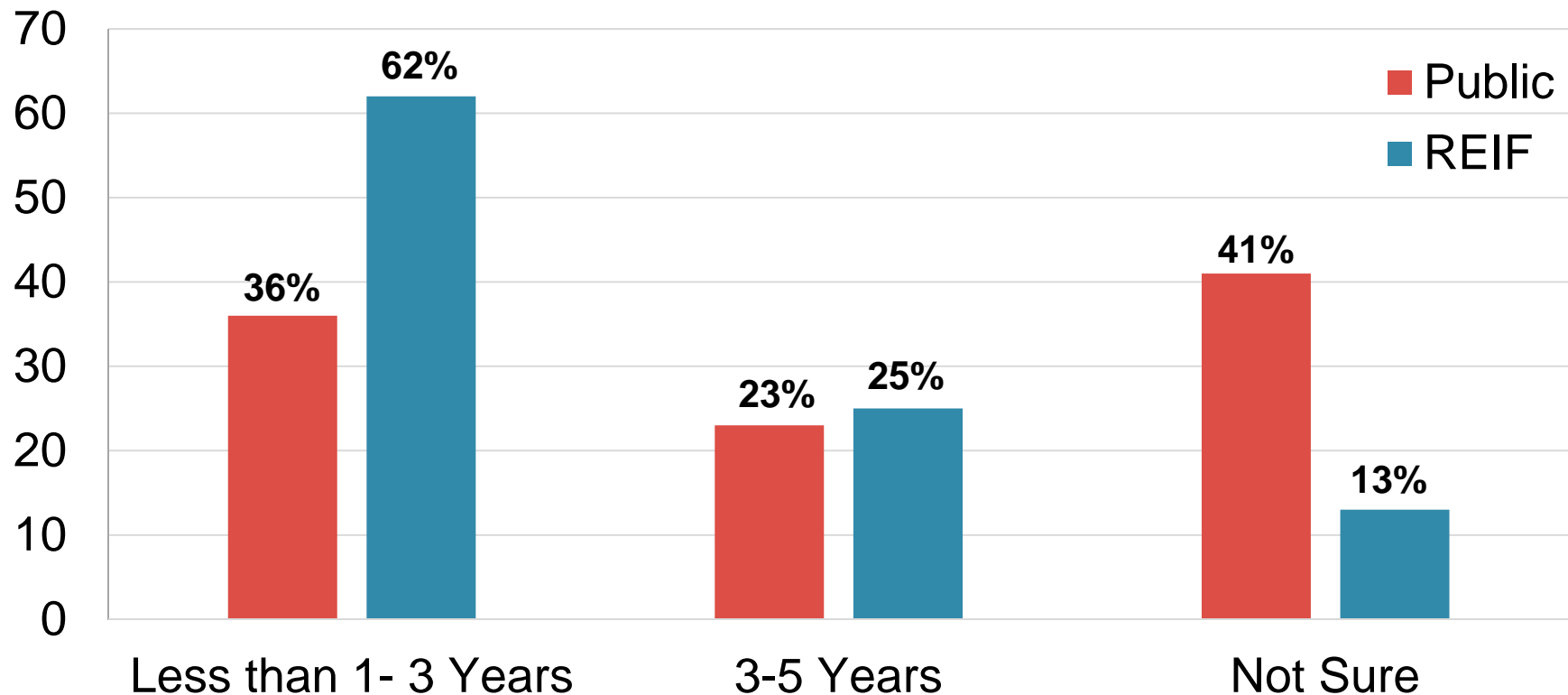
IMPACT OF MINING LAYOFFS ON LOCAL REGION

% of Respondents



LENGTH OF THE IMPACT OF MINING LAYOFFS

% of Respondents



REGIONAL EQUITY INDEX



Donald Simmons

University of Wisconsin-Superior



REGIONAL EQUITY INDEX

Methodology

- Equally weighted index
- 12 companies with significant employment in the region

Allele

Cliffs Natural Resources

Polymet

Ascena Retail Group

Enbridge Energy Partners

Sappi Limited

Calumet

Ikonic

UnitedHealth Group

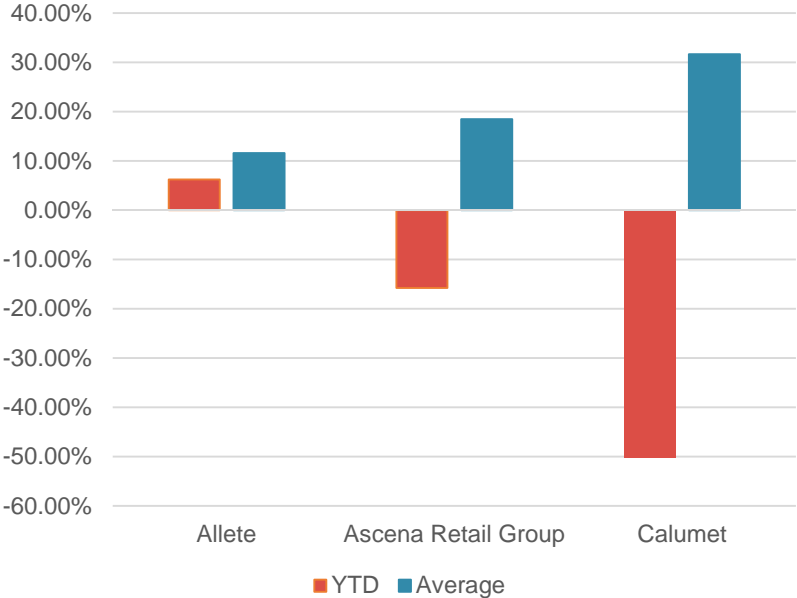
Canadian National
Railway

Louisiana-Pacific

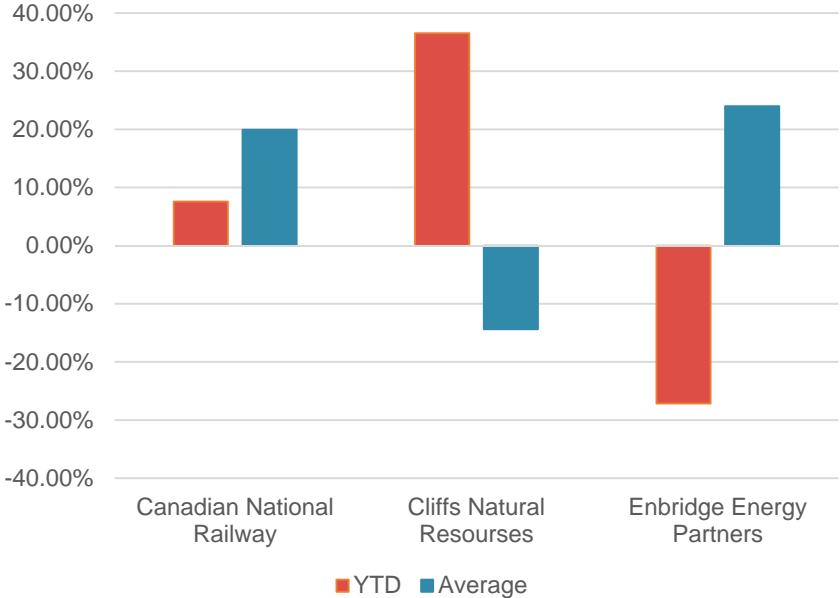
US Steel

REGIONAL EQUITY INDEX

YTD Returns vs. Previous Performance

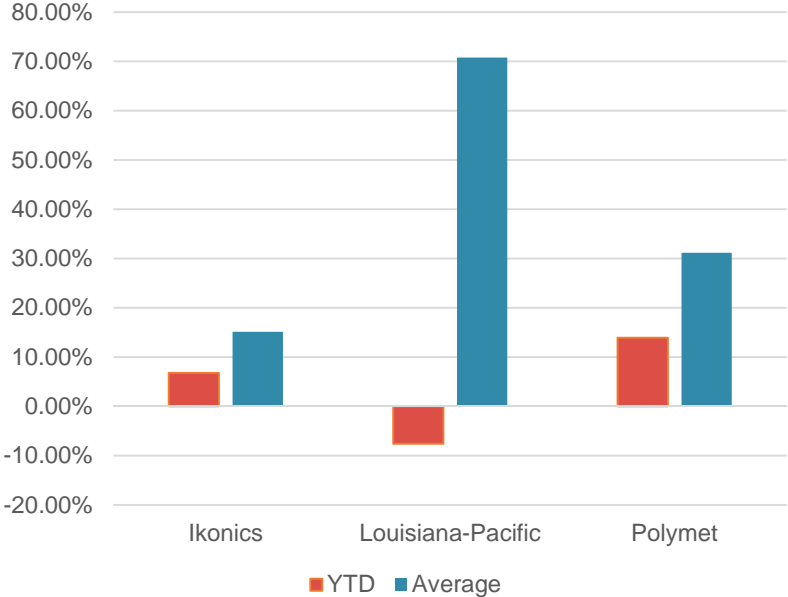


YTD Returns vs. Previous Performance

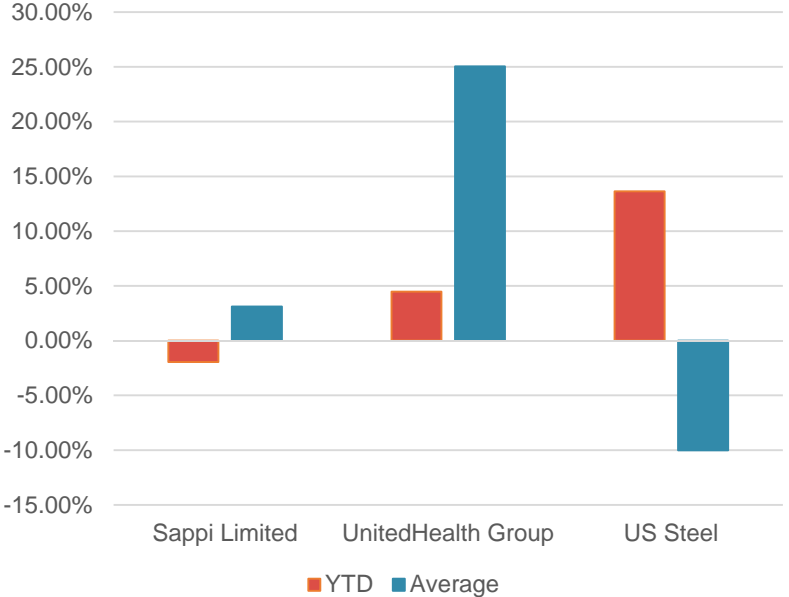


REGIONAL EQUITY INDEX

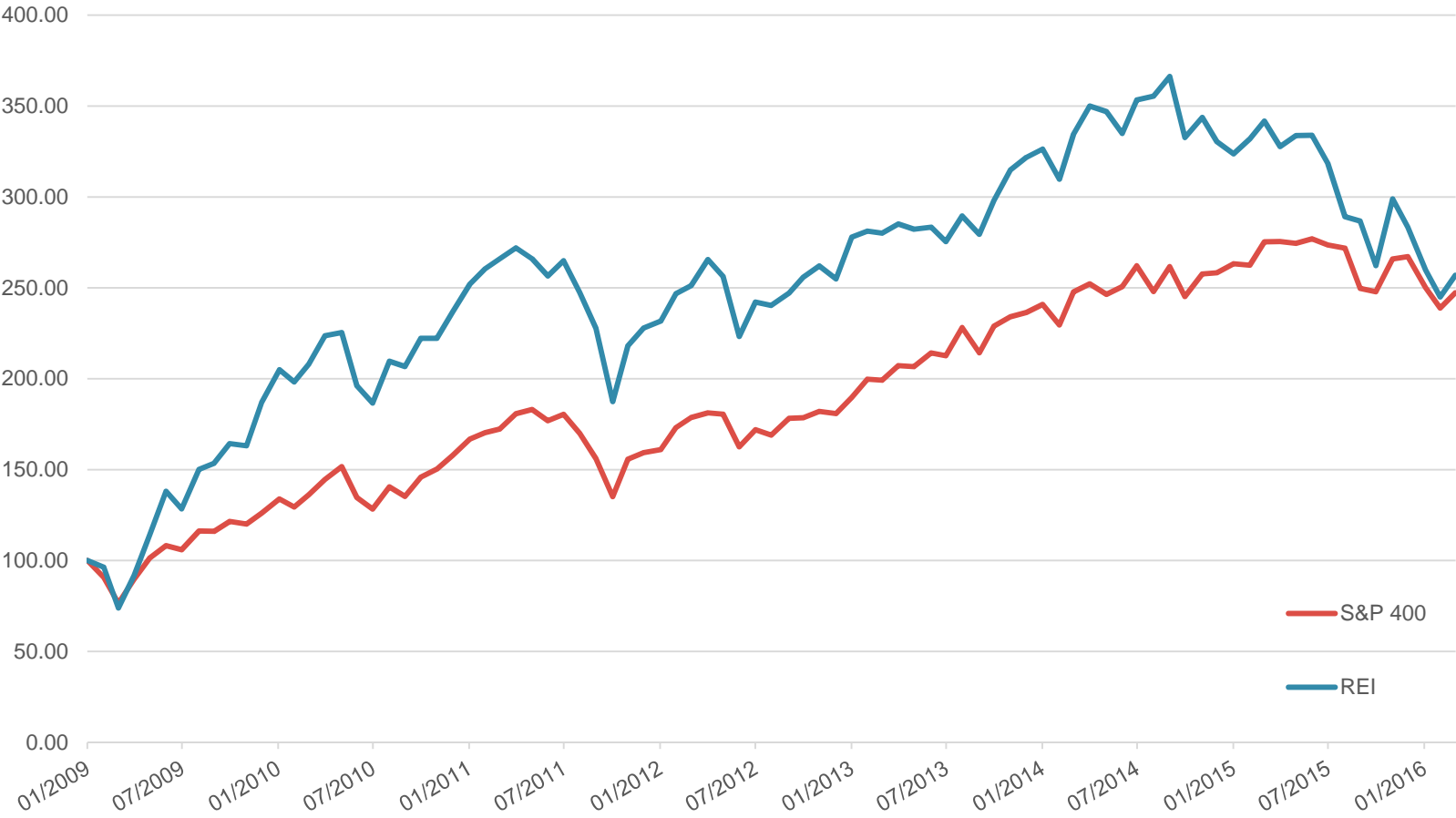
YTD Returns vs. Previous Performance



YTD Returns vs. Previous Performance



REI VS S&P 400 INDEX



SUMMARY OF FINDINGS

Performance Indicator	Major Findings
REI vs S&P 400 Value Line®	REI underperforming compared to the benchmark <ul style="list-style-type: none">• REI: Average to below-average expected price performance over the next 6-12 months• Average to above-average risk• Average to below-average expected price change over the next 3-6 months
Morningstar®	Average short interest ratio is up slightly to 6.89
Overall implications:	Underperformance relative to benchmark expected to continue

BUSINESS CONFIDENCE INDICATORS



The College of
St. Scholastica

James Hinrichs

The School of Business and Technology, Economics
Department
The College of St. Scholastica



CONFIDENCE INDICATOR

Fall 2014	110
Spring 2015	108
Fall 2015	108
Spring 2016	109

GENERAL BUSINESS CONFIDENCE

Last 6 Months

- Company Outlook
 - 35% saw an overall improvement
 - 31% saw their outlook worsen
- General Activity
 - 36% saw an improvement
 - 37% saw a decline

Next 6 Months

- Company Outlook
 - 20% anticipate a decline in the outlook
 - 42% expect an improvement
- General Activity
 - 44% anticipate an improvement
 - 24% expect a decline

SPECIFIC CONFIDENCE INDICATORS

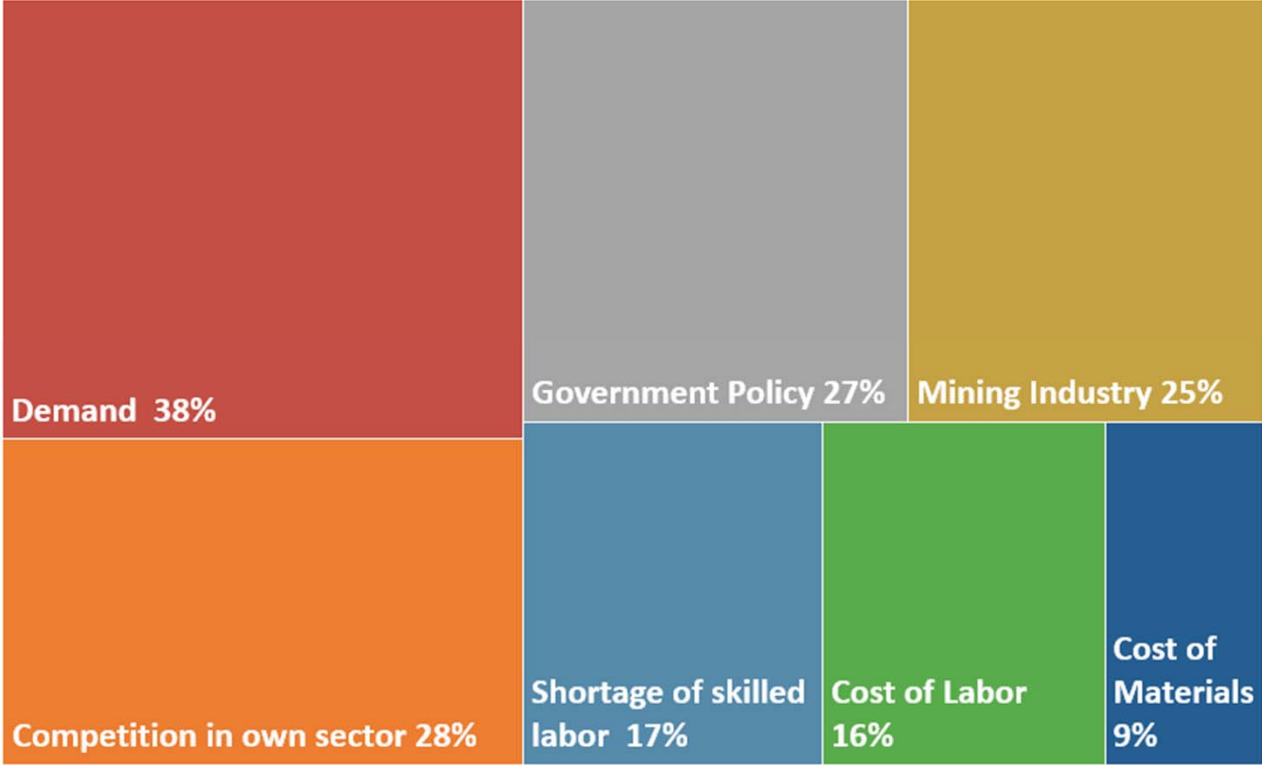
Last 6 Months

- Sales Revenue
 - 36% saw a moderate increase
 - 27% experienced an overall decrease
- Profits
 - 31% experienced a decline
 - 32% saw an overall increase

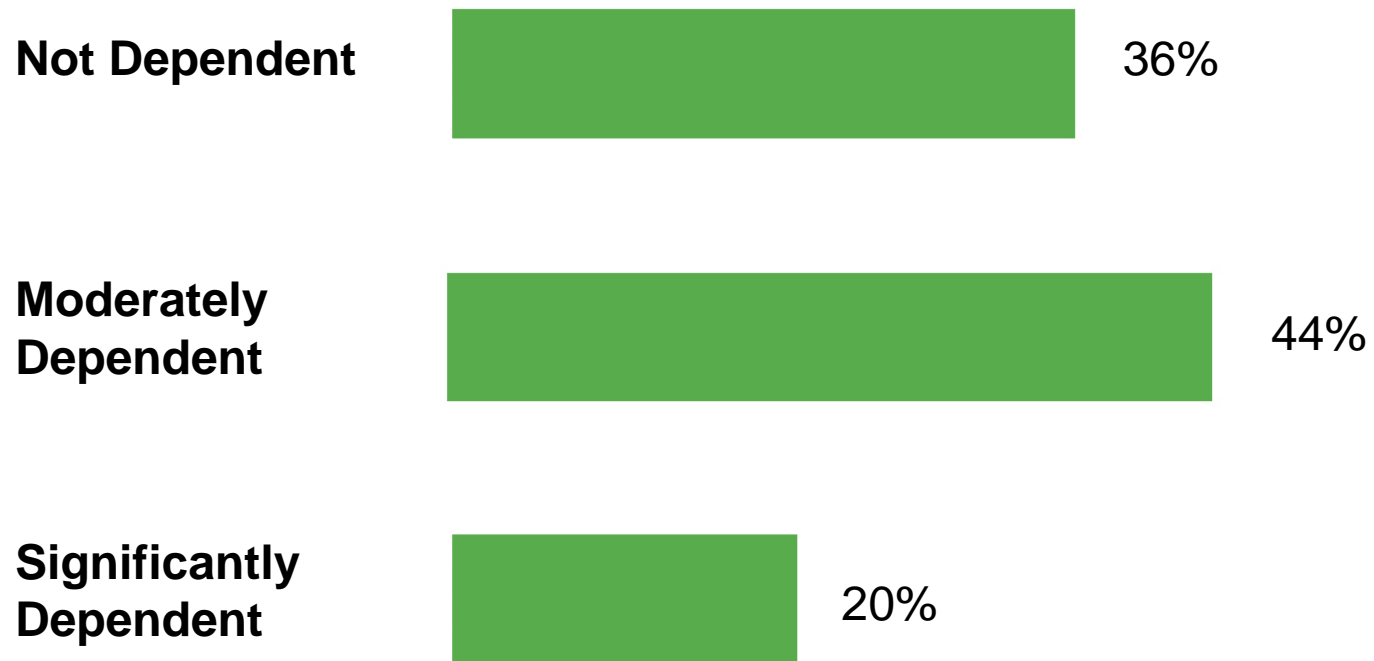
Next 6 Months

- Sales Revenue
 - 47% anticipate an increase
 - 16% expect a decrease
- Profits
 - 41% anticipate an increase
 - 17% expect a decline

FACTORS LIMITING BUSINESS ACTIVITY



BUSINESS DEPENDENCE ON THE MINING SECTOR



SPECIFIC EFFECTS OF THE DECLINE IN THE MINING SECTOR

Last 6 Months

- Sales Revenue
 - 36% experienced a negative impact
- Number of Employees
 - 15% saw a reduction
- Level of General Business Activity
 - 32% reported a moderate decrease
 - 10% experienced a significant decrease

SUMMARY OF STUDENT PRESENTATIONS

- Regional economic health depends greatly on location, industry (Tale of Two Areas)
- Consumer confidence mixed
- Regional stocks are underperforming
- Business confidence remains high

TEXT YOUR QUESTIONS
at any time during this presentation to

218.721.8318

TOBY MADDEN

Economist and Founder of Power Parametrics



Toby is an experienced economist, speaker, author, consultant, and the founder of Power Parametrics LLC, a boutique financial advising firm that uses statistical models and surveys to forecast the economy. With over 20 years of experience at the Federal Reserve Bank of Minneapolis, he recently authored the book *Club Fed*, which takes an inside look at the good, the bad, and the fixable of the Federal Reserve.

TOBY MADDEN

www.tobiasmadden.com

Are you prepared?

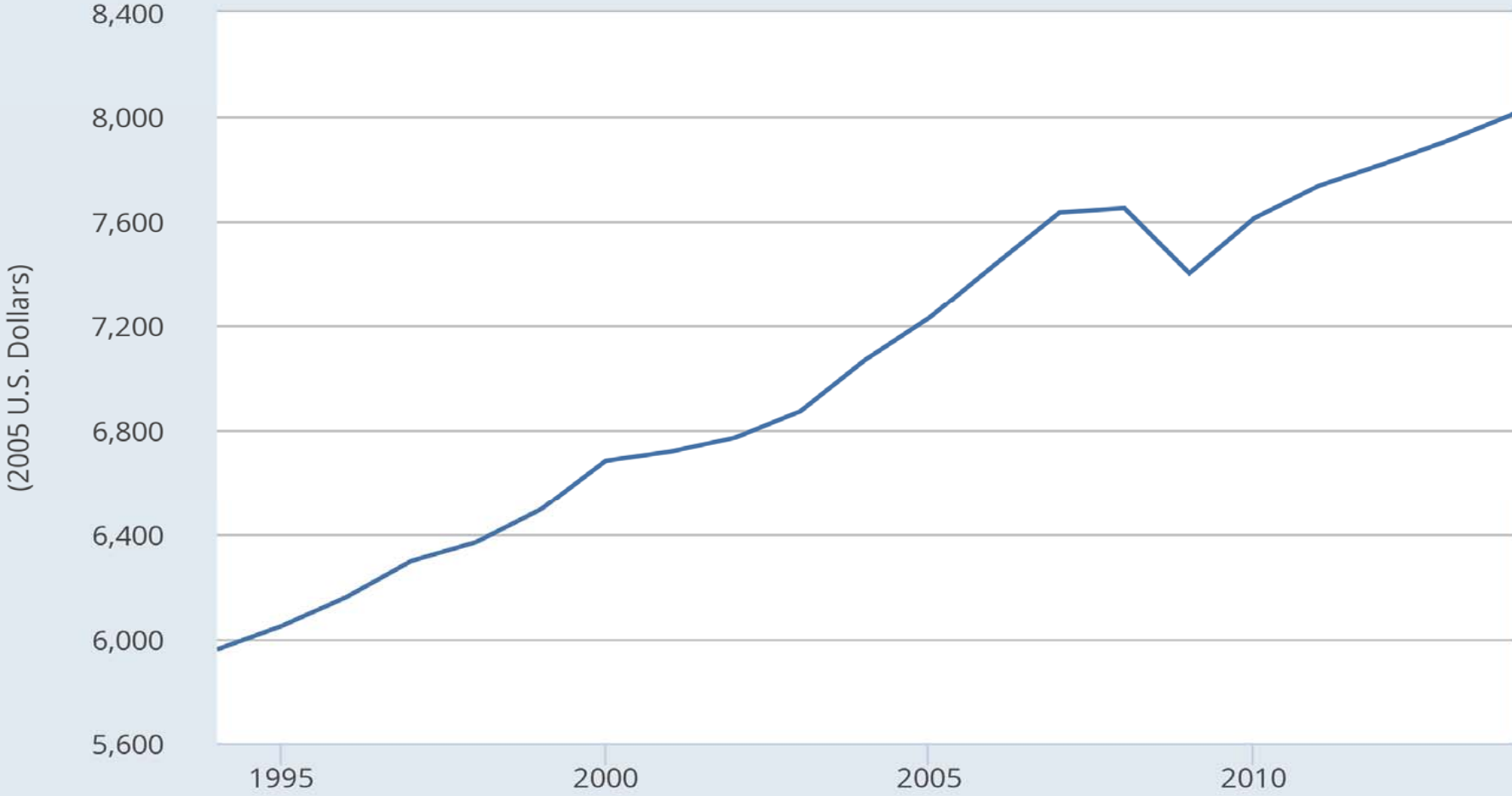
Agenda

- Overall Economy
- Mining
- Are you Prepared?

World Economy Continues to Grow



— Constant GDP per capita for the World



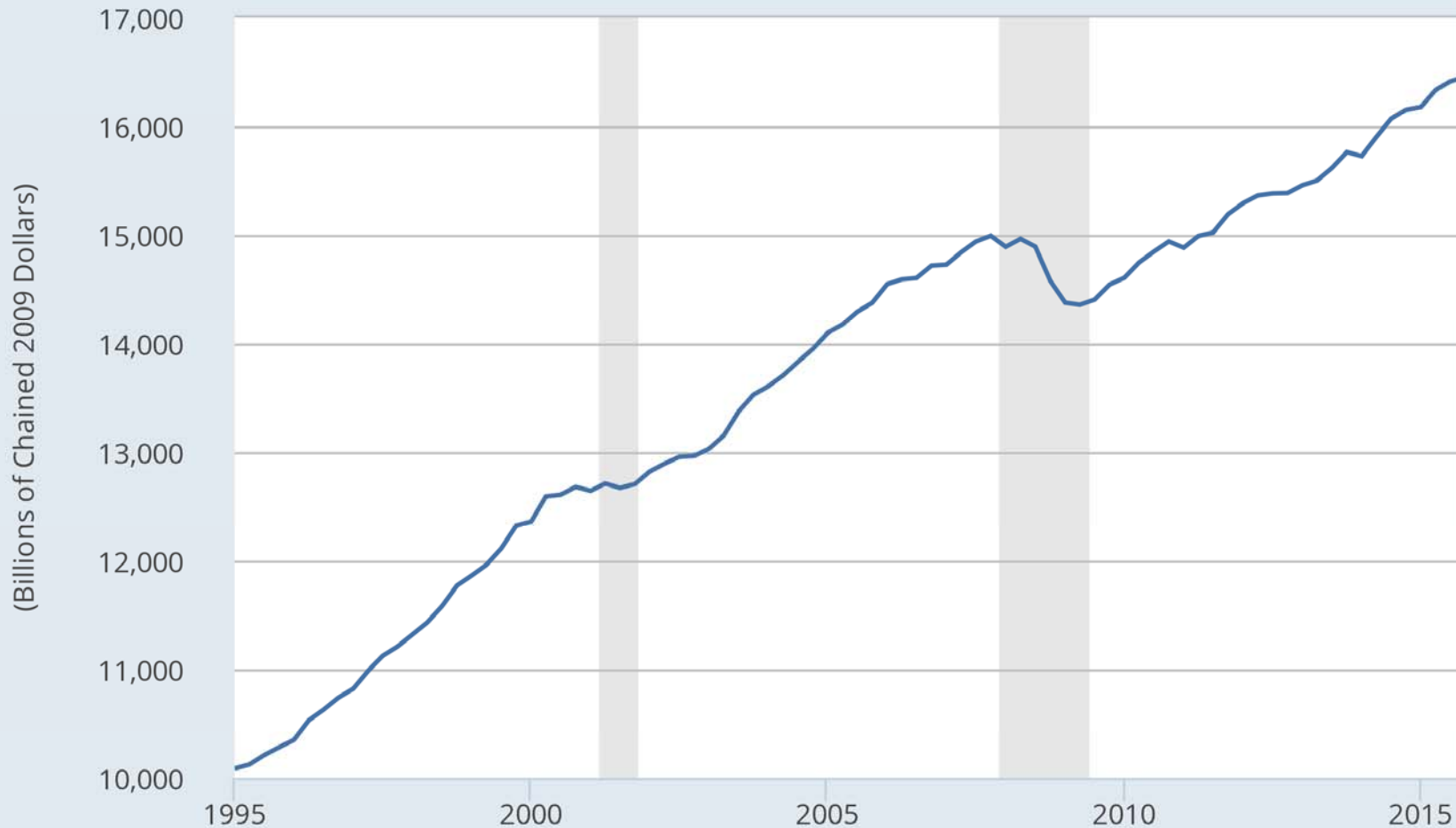
Source: World Bank
research.stlouisfed.org

myf.red/g/3F5t

U.S. economy is in a long expansion

FRED 

— Real Gross Domestic Product

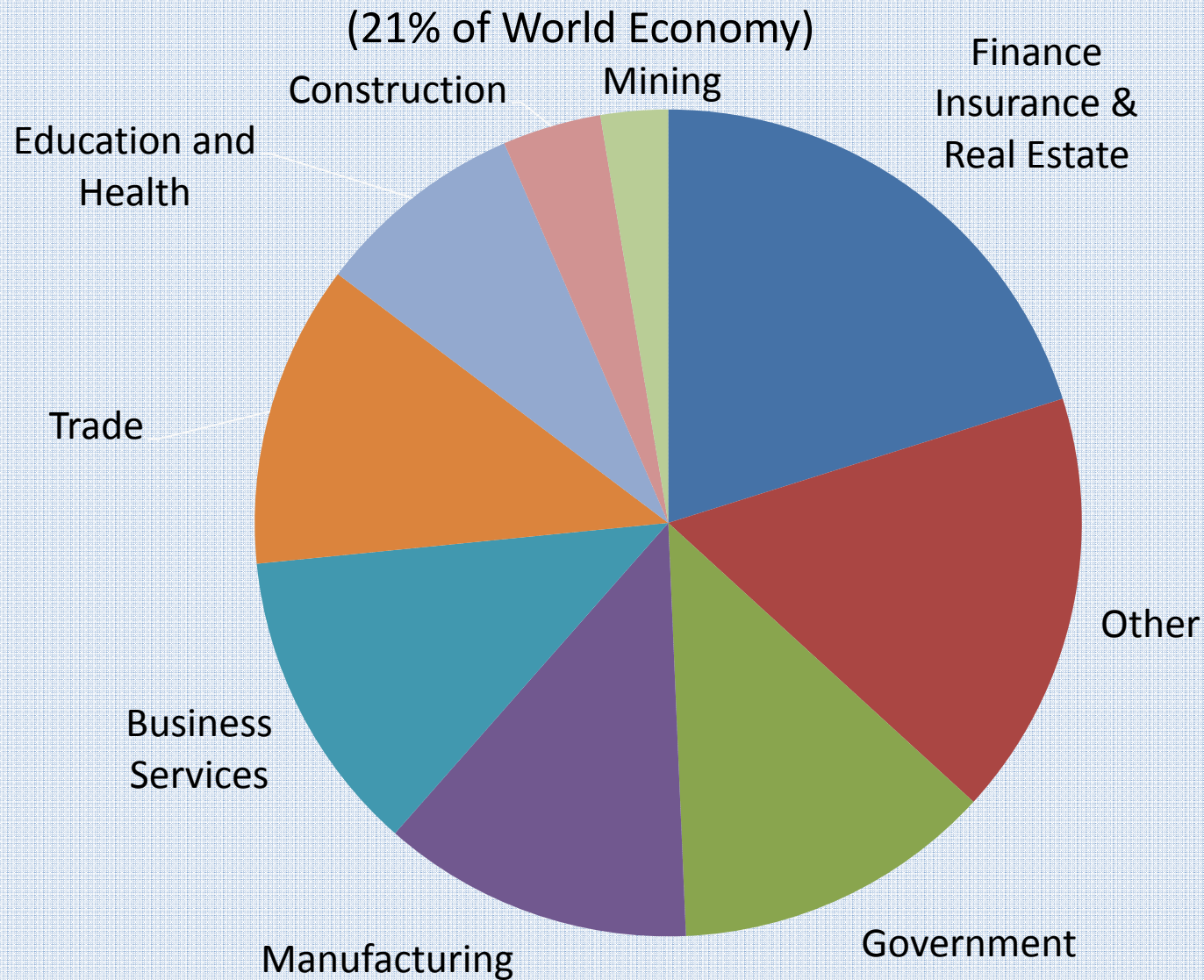


Source: US. Bureau of Economic Analysis
research.stlouisfed.org

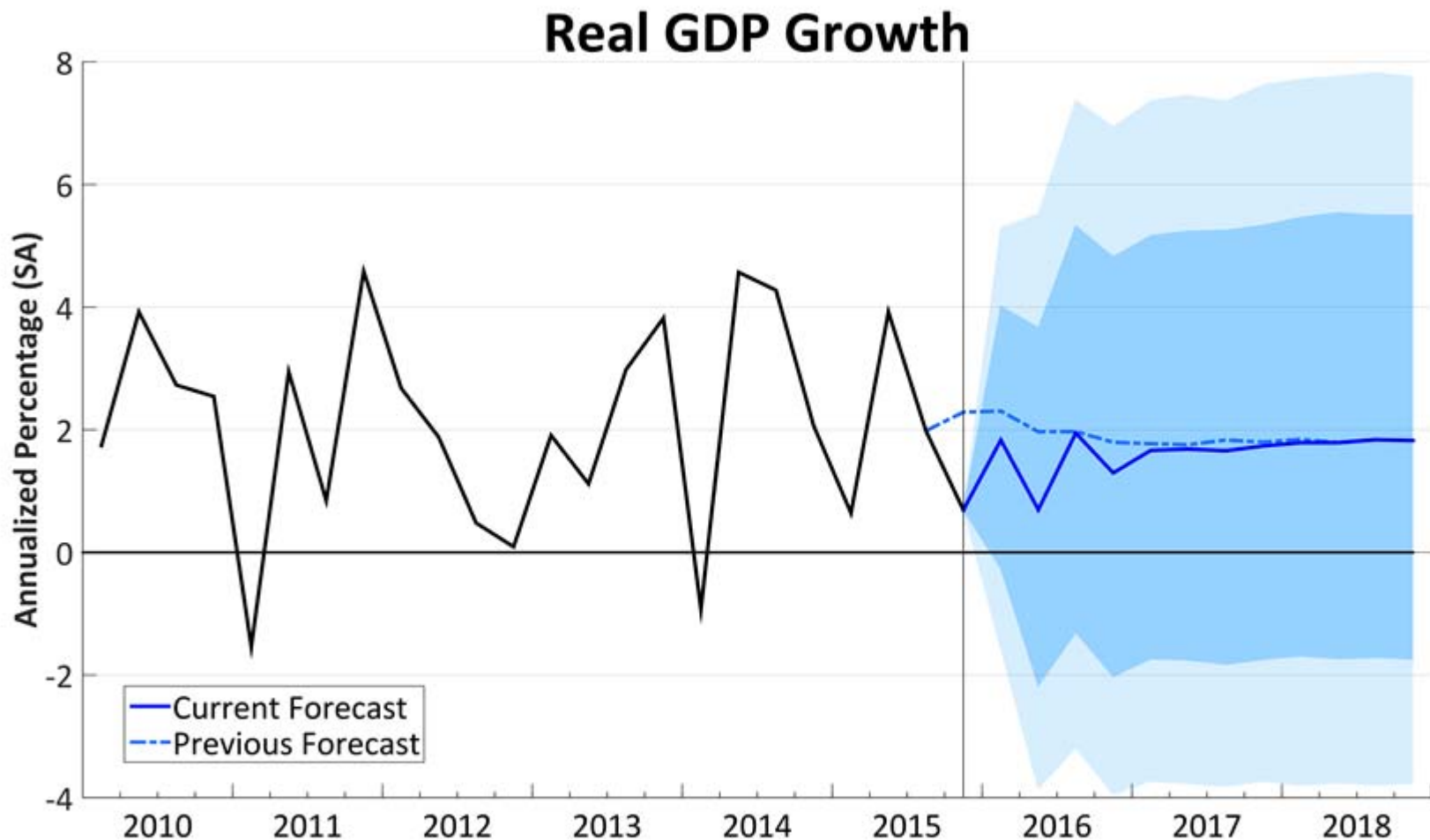
myf.red/g/3oG2

United States GDP (\$17 t)

TOBY
MADDEN



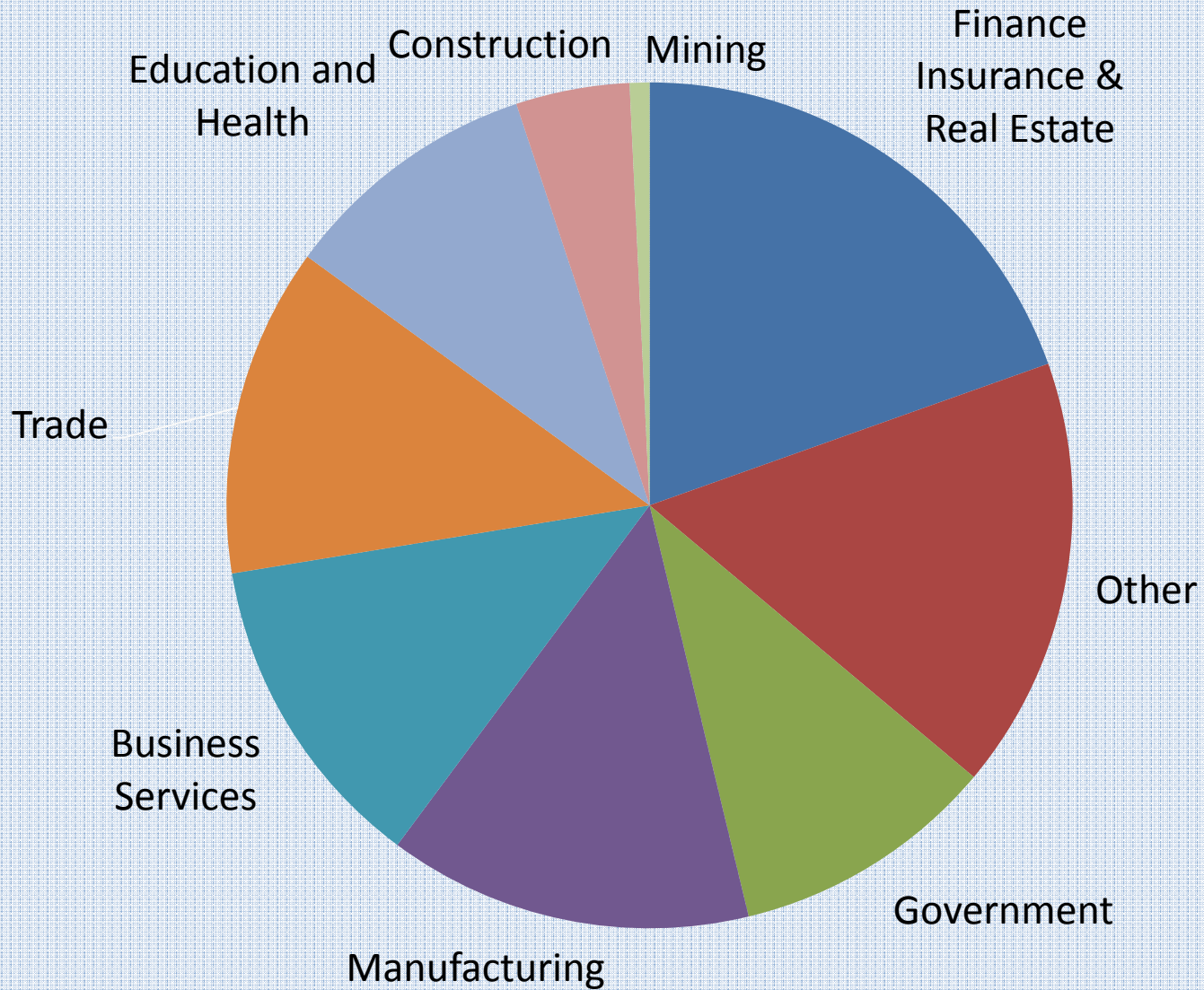
Slow Growth is Expected in U.S.



The darker blue region represents the 70 percent probability band corresponding to the current forecast; the lighter blue region represents the 90 percent probability band.

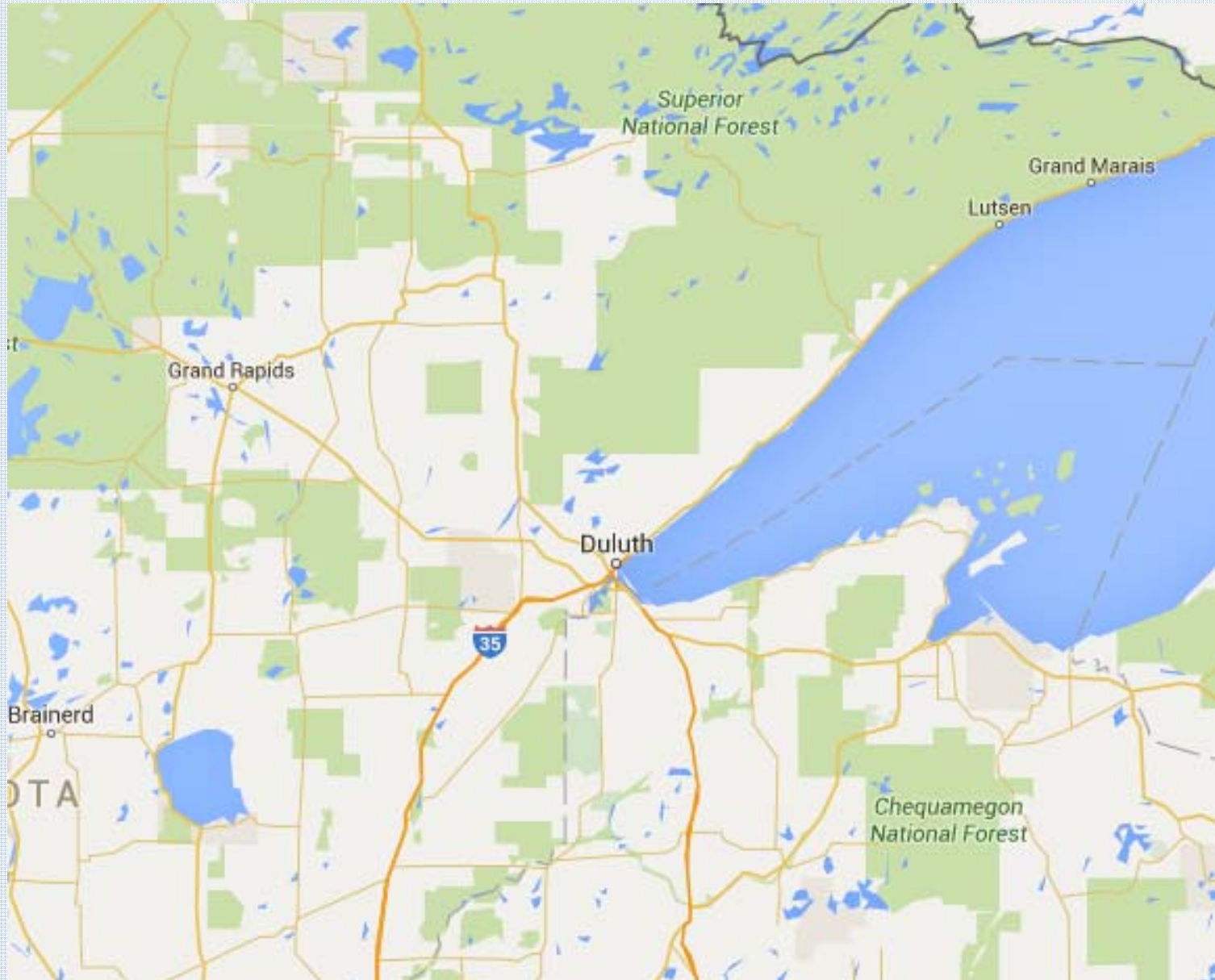
Minnesota GDP (\$317b) **TOBY MADDEN**

(2% of U.S. Economy)



Regional Economy Constrained

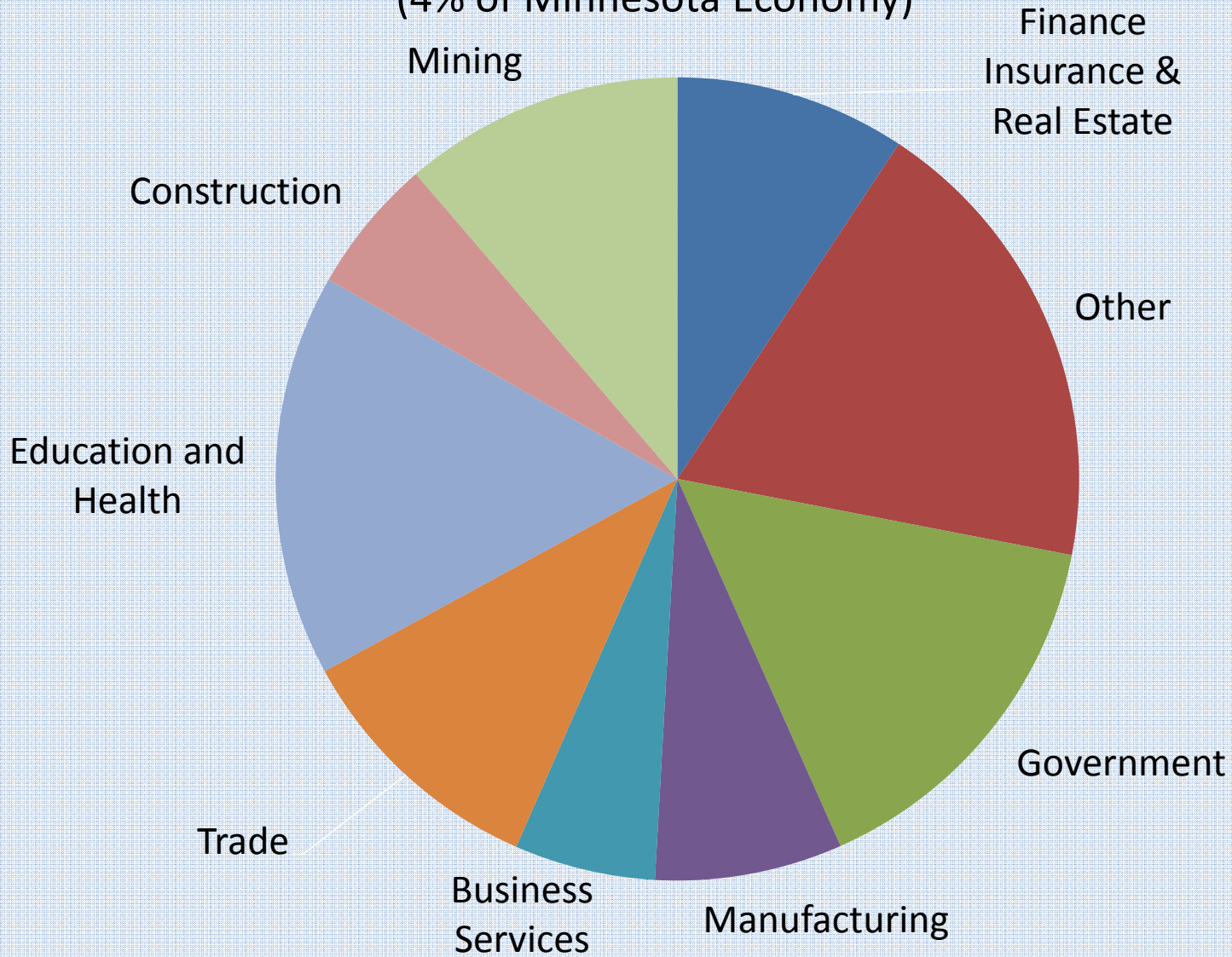
TOBY
MADDEN



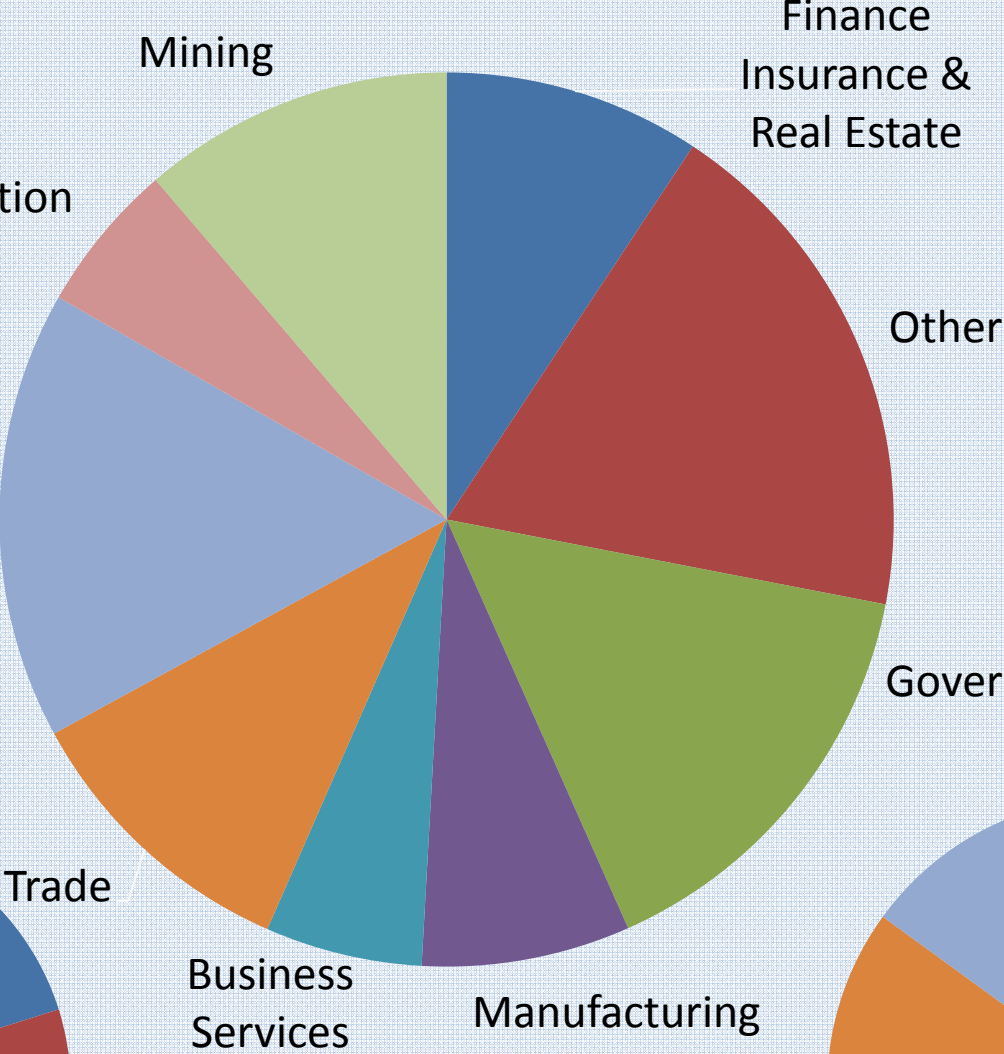
Duluth MSA GDP (\$12 b)

**TOBY
MADDEN**

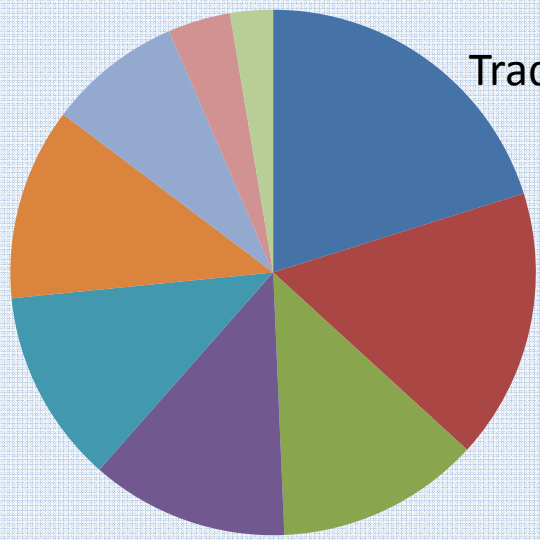
(4% of Minnesota Economy)



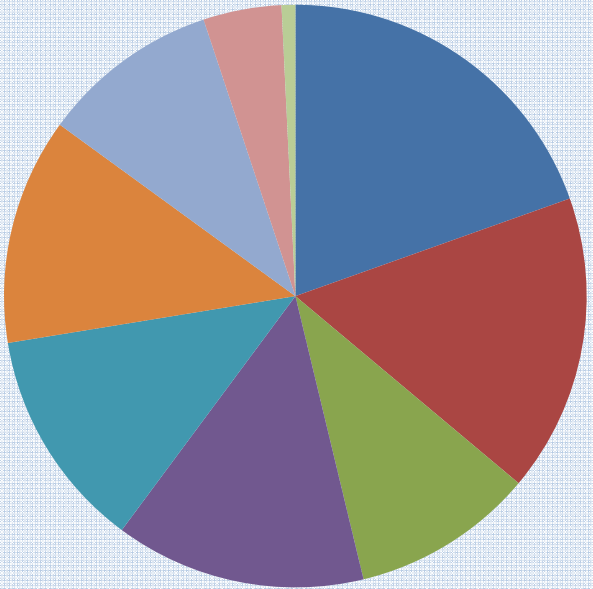
**DULUTH/
SUPERIOR**
Construction



U.S.

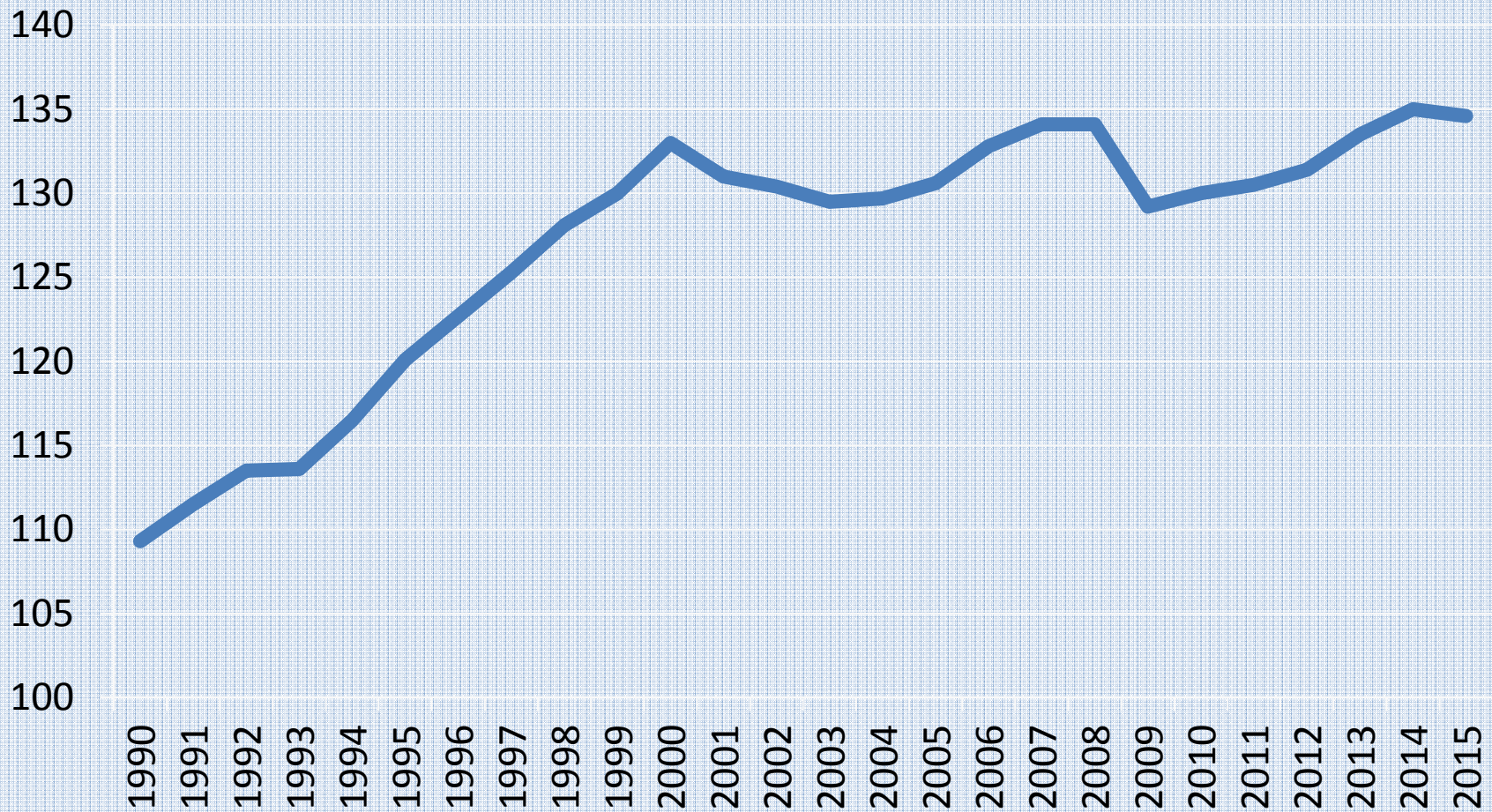


MN



Duluth Area Employment

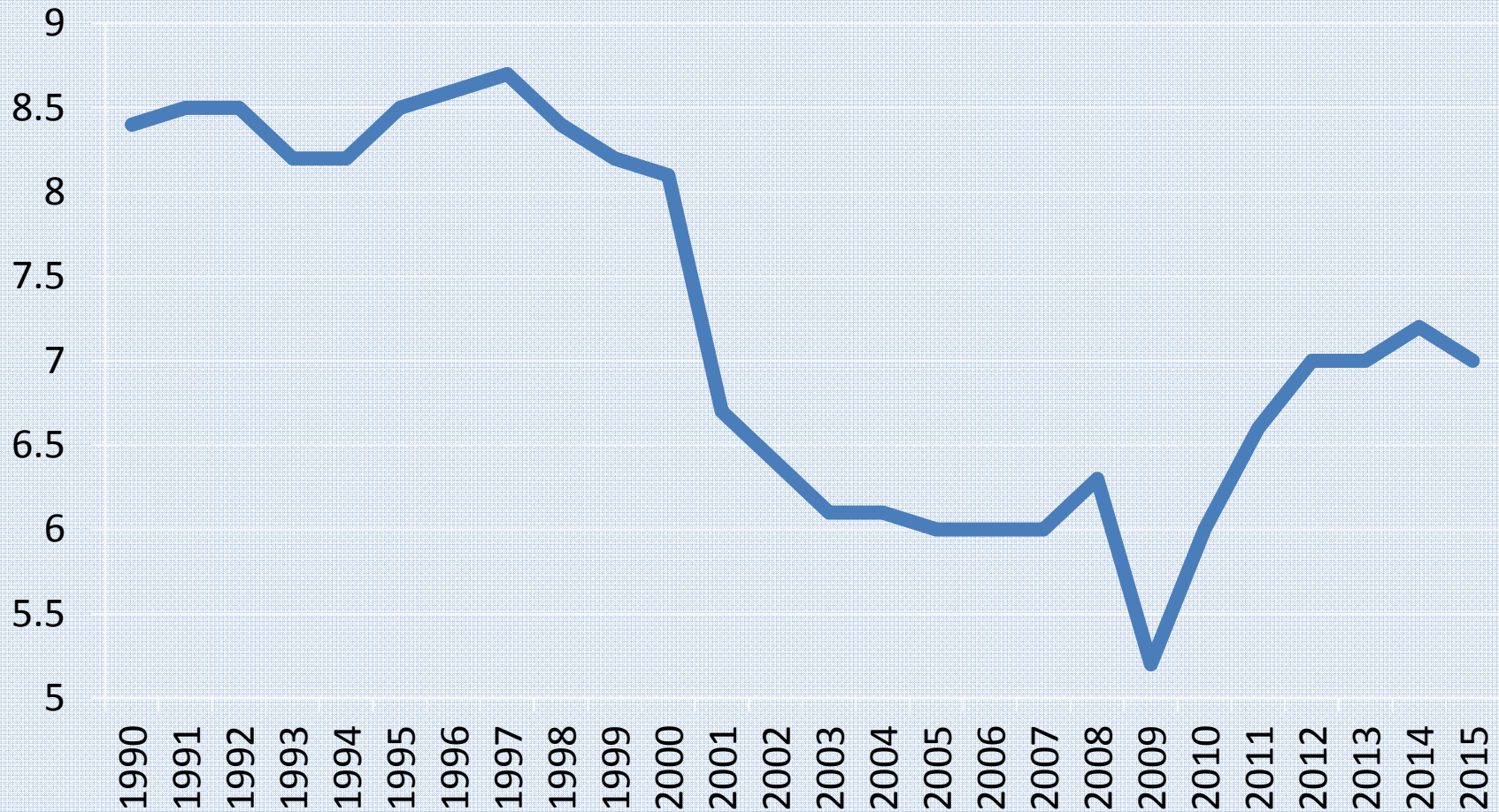
(in thousands)



Source: BEA.gov

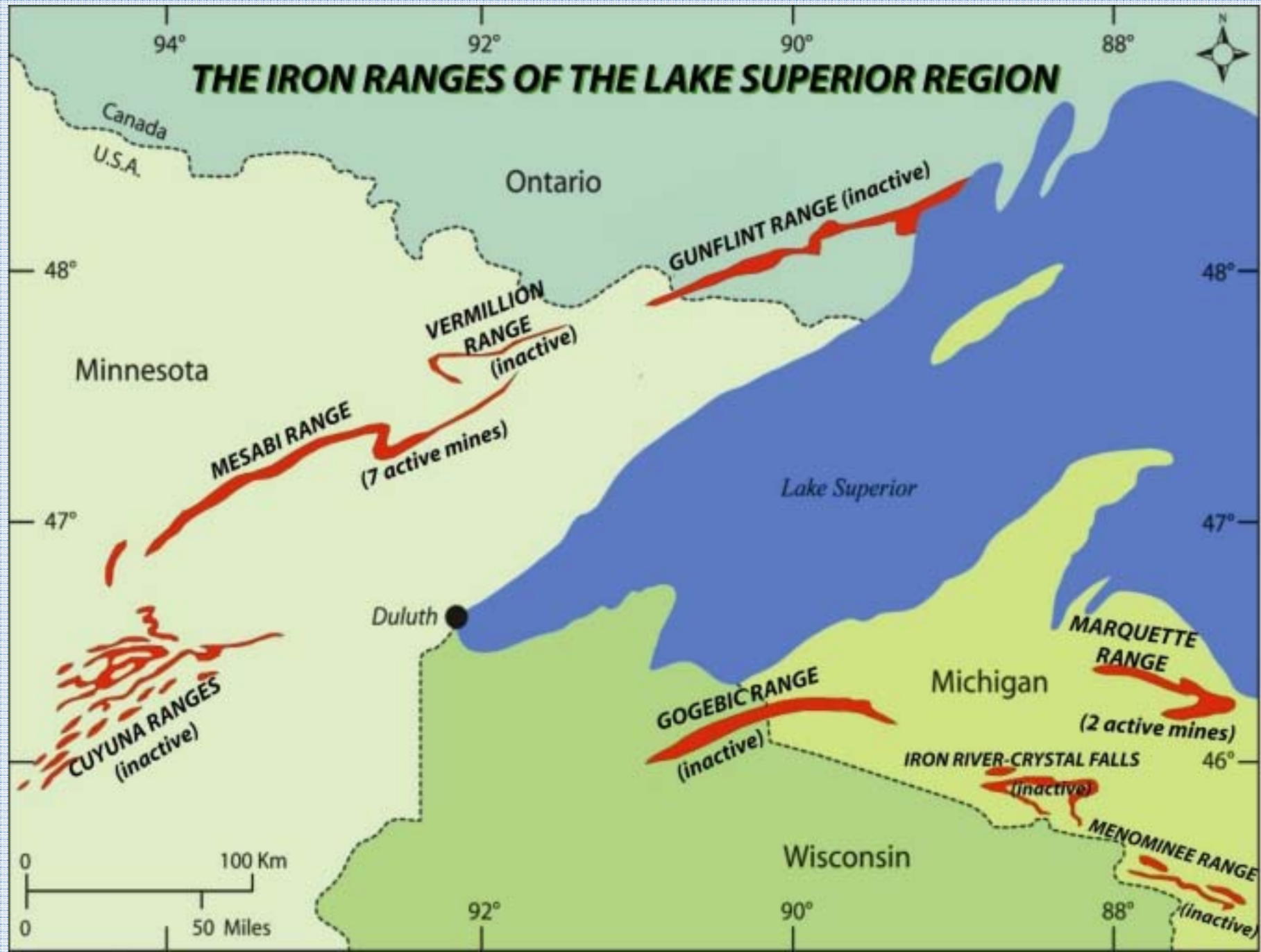
MN Mining & Logging Employment

(in thousands)



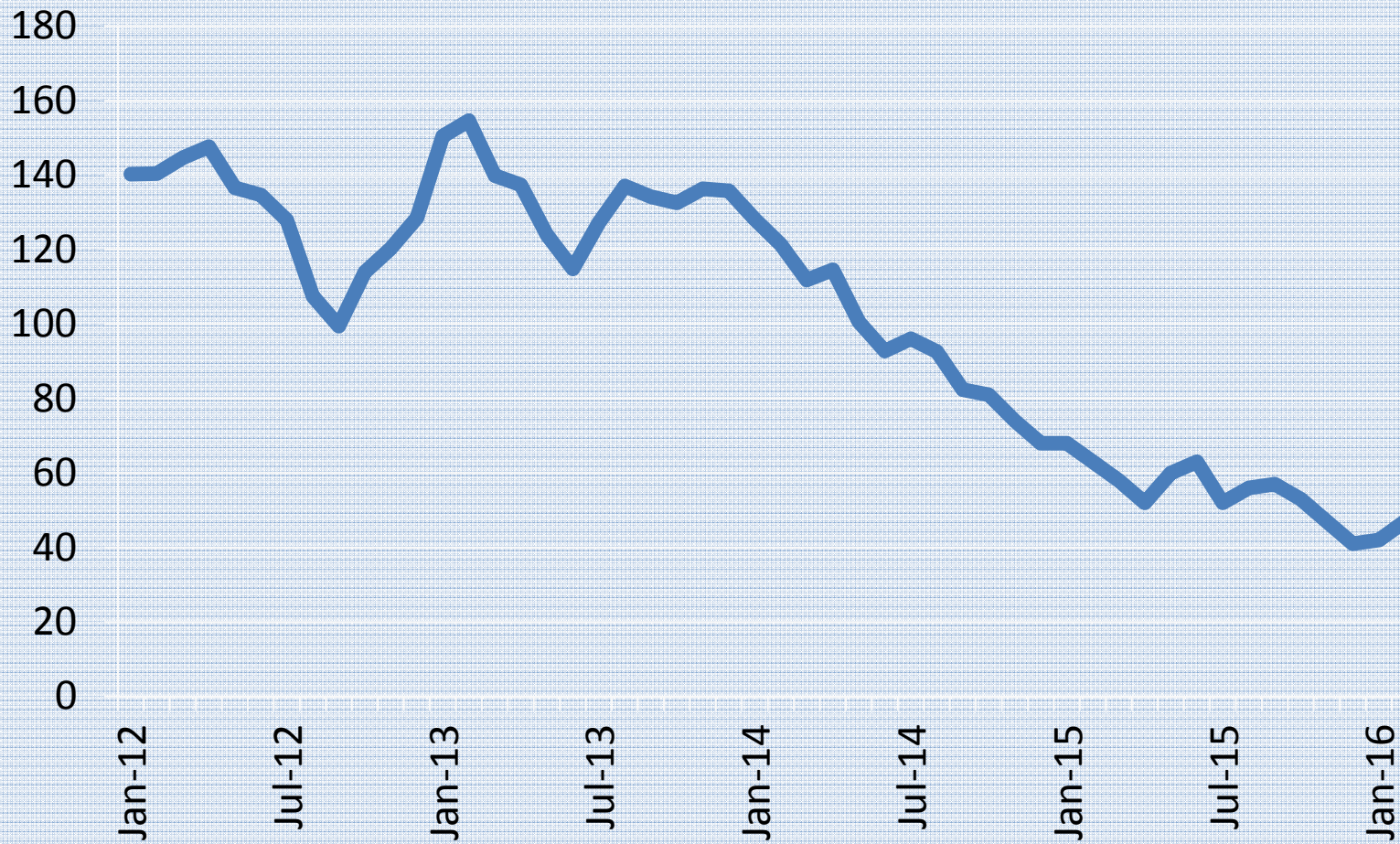
Source: BEA.gov

THE IRON RANGES OF THE LAKE SUPERIOR REGION



Iron Ore Prices

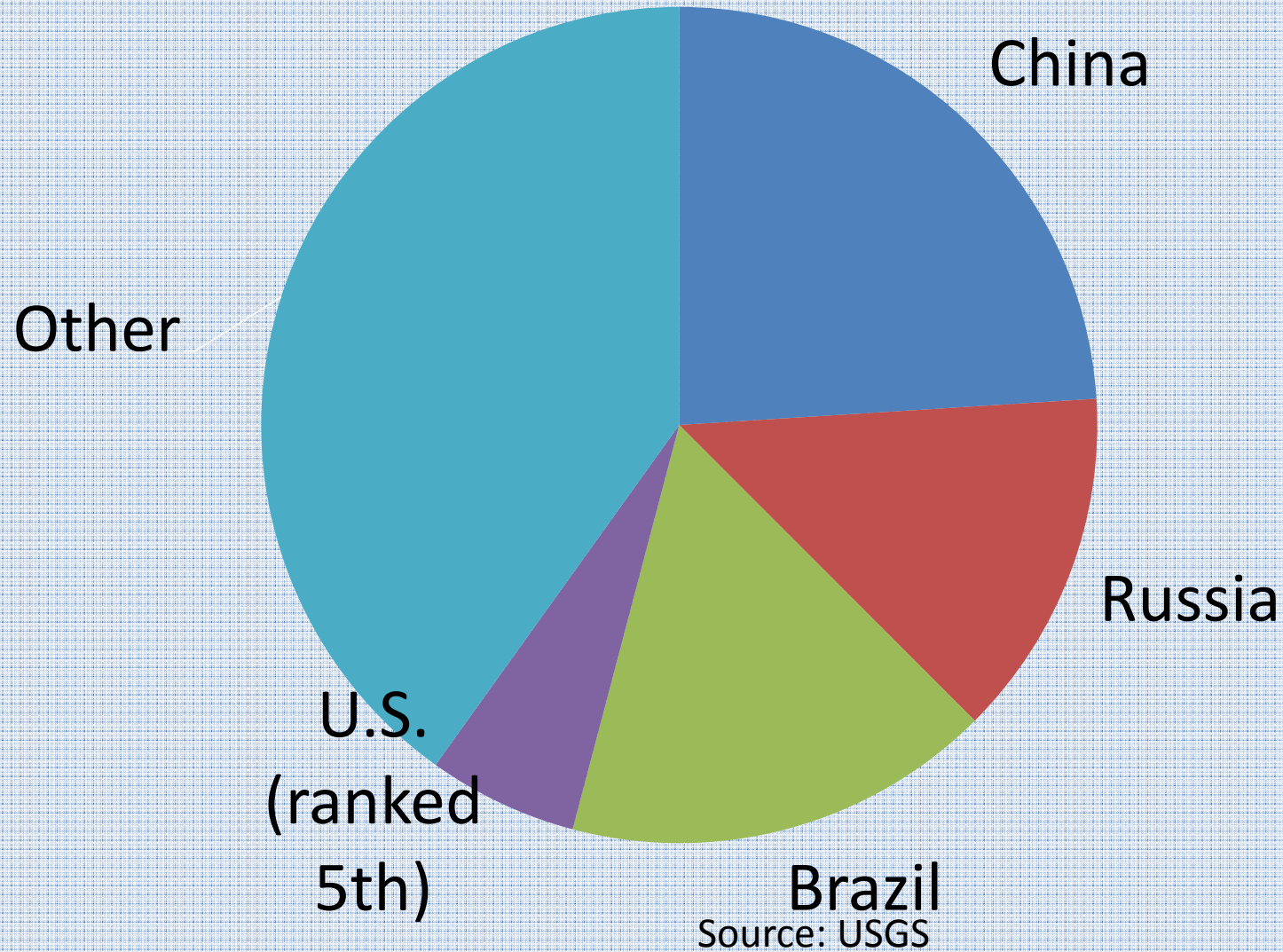
(\$ per ton)



Source: WorldBank

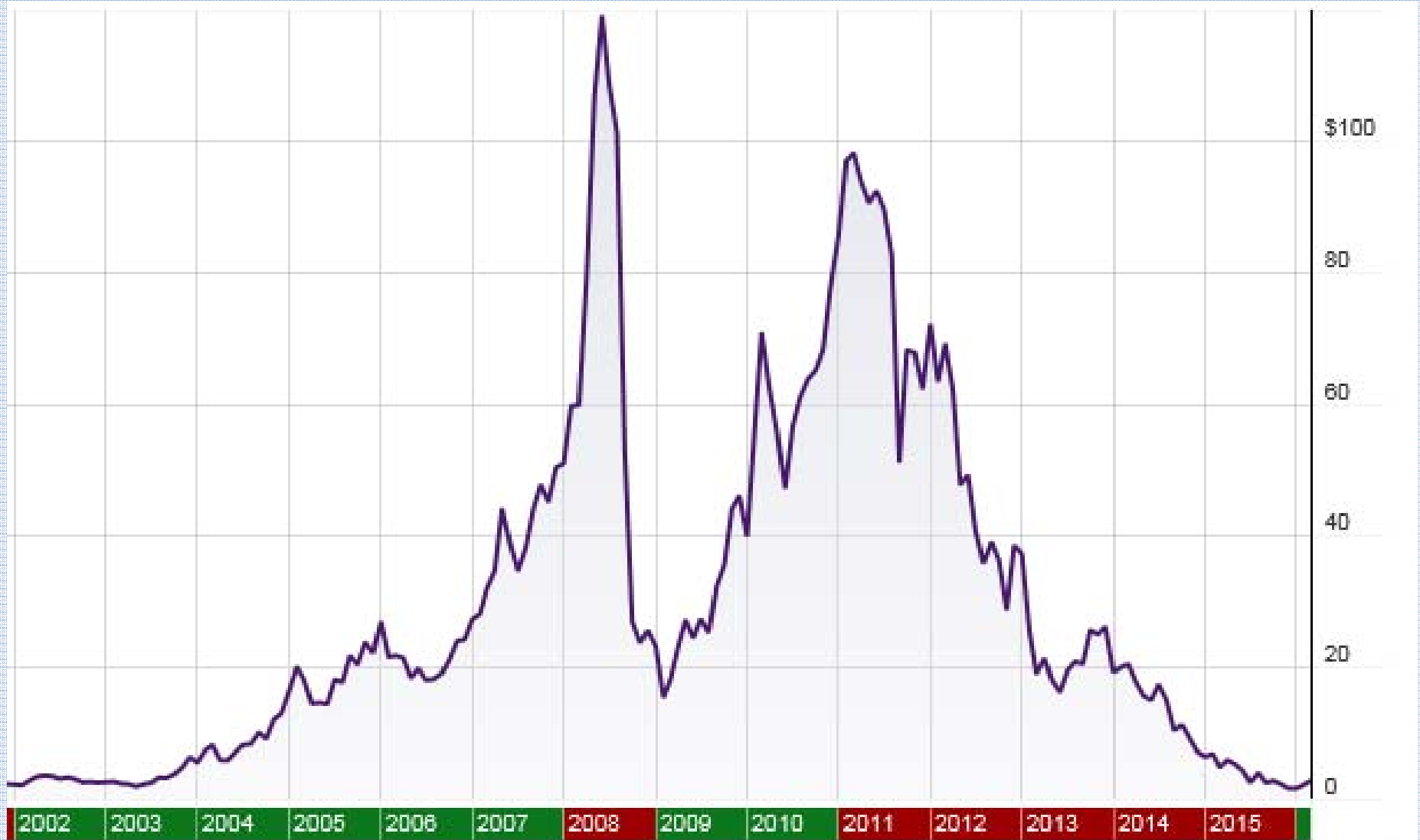
Iron Ore Production (1.0 b tons (1994))

TOBY
MADDEN



Source: USGS

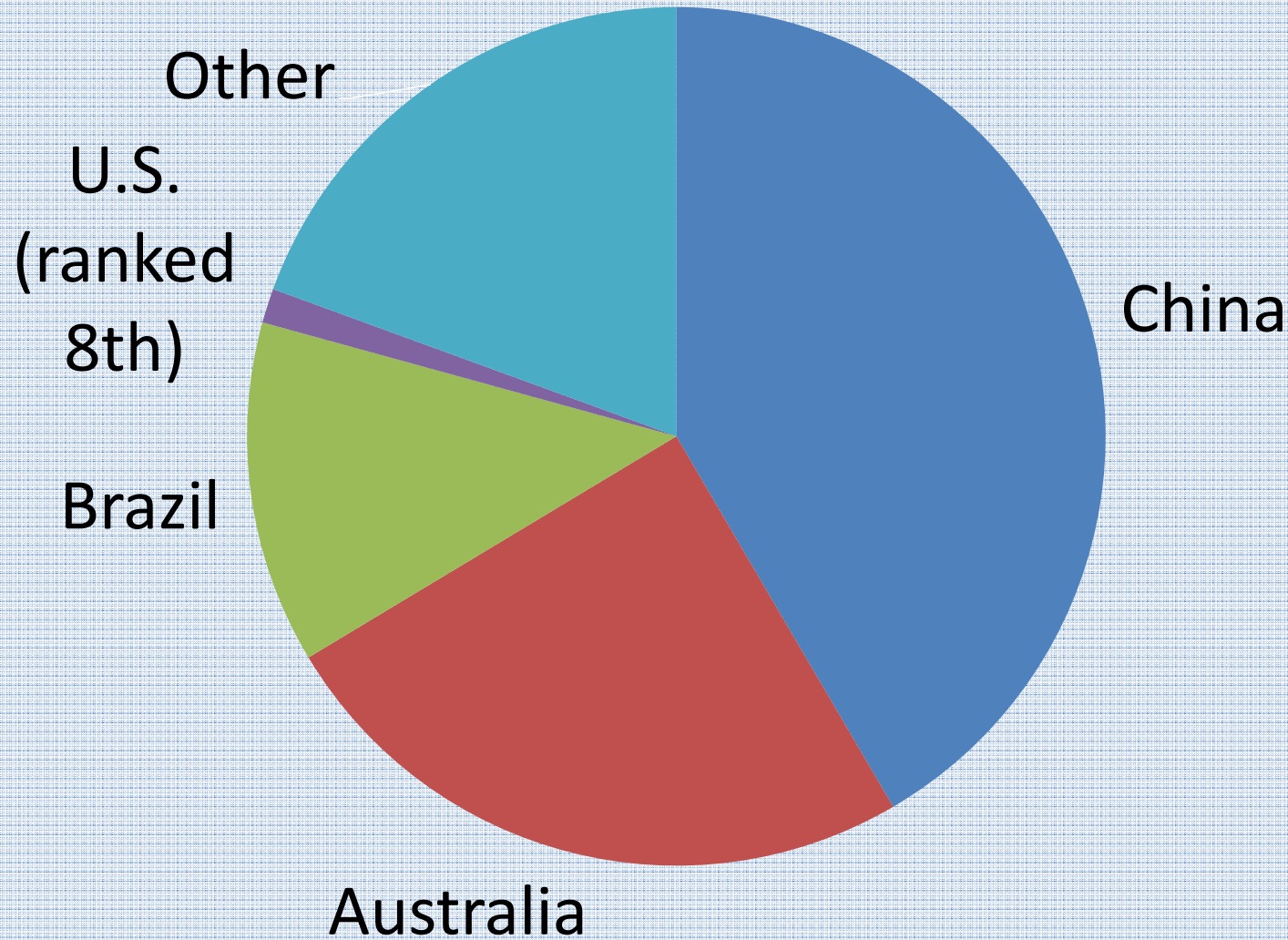
Cleveland Cliffs Stock Price



Source: Yahoo Finance

Iron Ore Production (3.3b tons (2015))

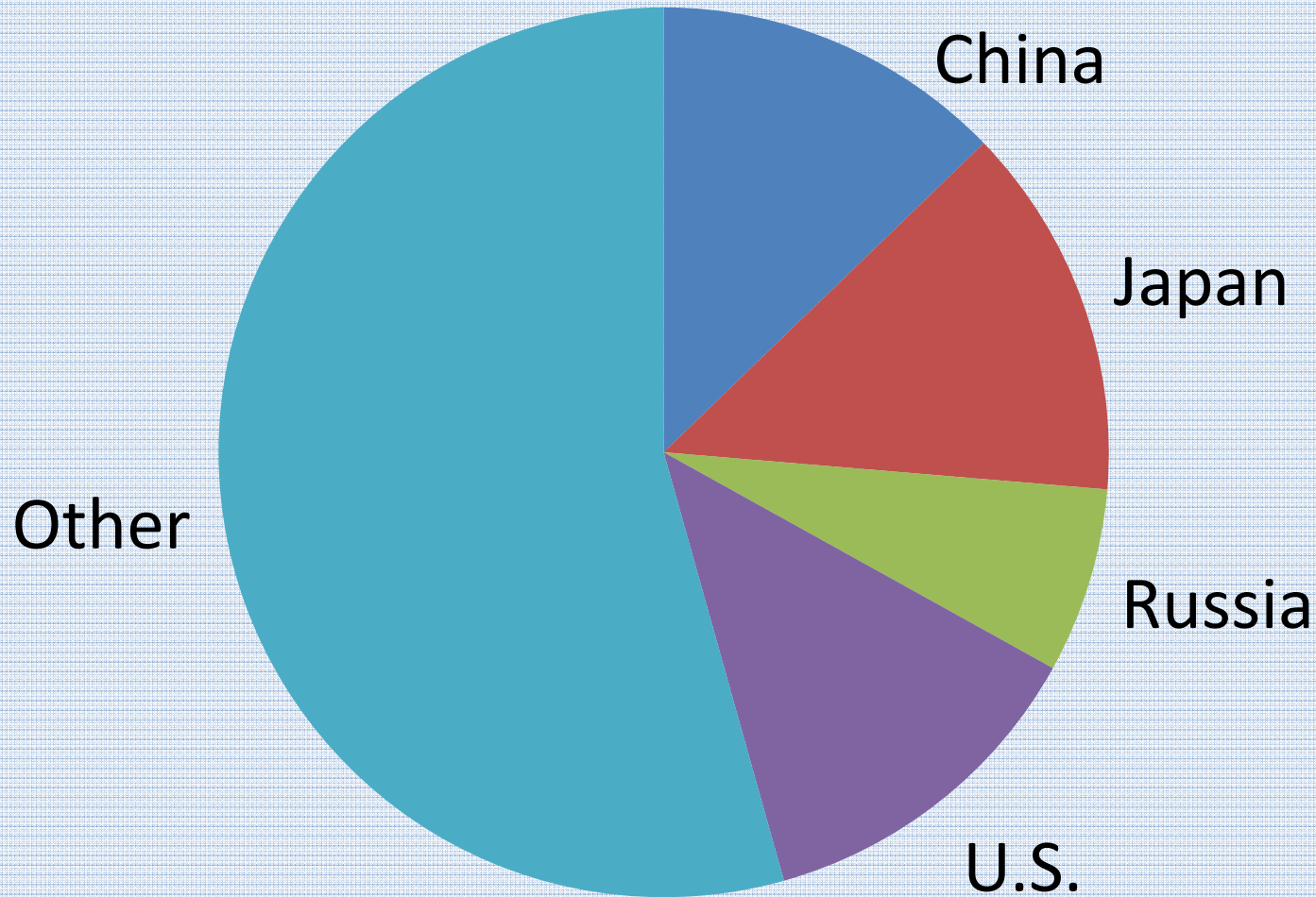
TOBY
MADDEN



Source: USGS

Steel Production (0.7 b tons (1994))

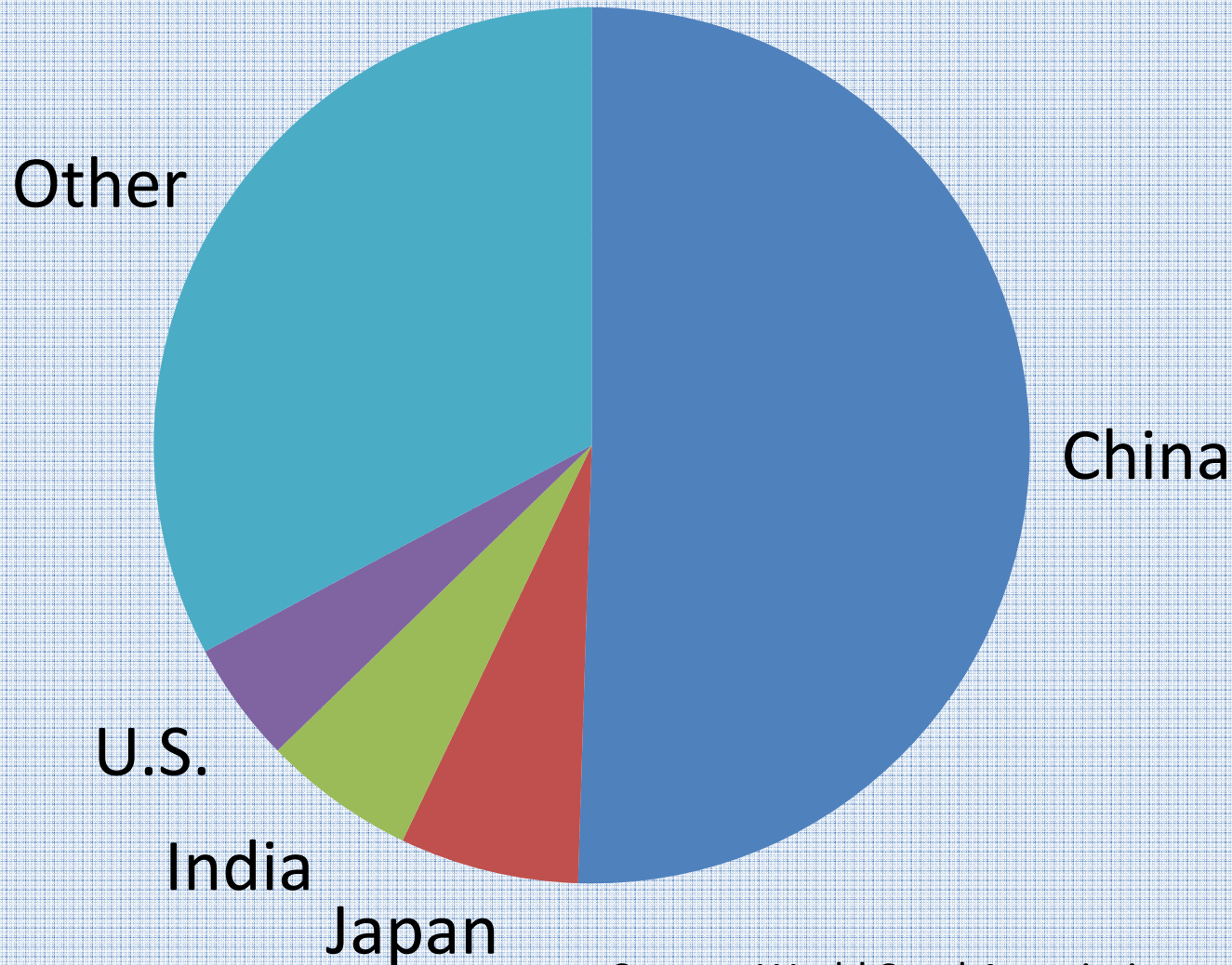
TOBY
MADDEN



Source: World Steel Association

Steel Production (1.6b tons (2015))

TOBY
MADDEN

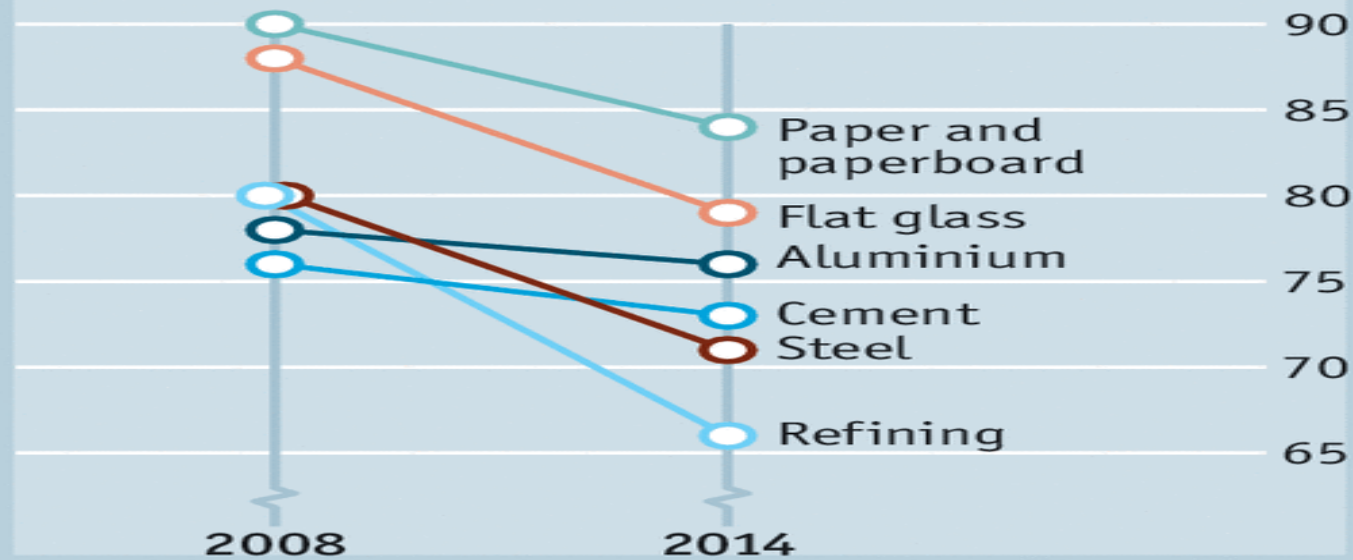


Source: World Steel Association

Too much of everything

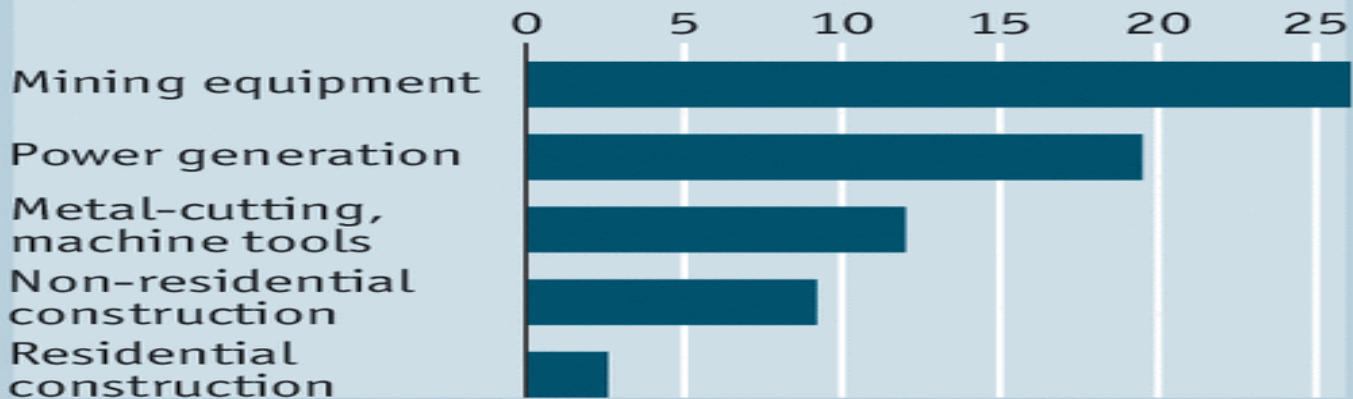
China

Capacity-utilisation rates, %



Domestic production

Average annual % increase, 2000-14, %



Sources: National Bureau of Statistics; European Chamber; Conference Board

Tariffs on Steel Dumping

- Minnesota Mining Jobs = 7k
- Minnesota Metal Fabricating Jobs = 42K
- US Iron and Steel Mill Jobs = 81k jobs
- US Metal Fabricating Jobs = 1.4 million jobs

Bring on the personal trainers

Probability that computerisation will lead to job losses within the next two decades, 2013
(1=certain)

Job	Probability
Recreational therapists	0.003
Dentists	0.004
Athletic trainers	0.007
Clergy	0.008
Chemical engineers	0.02
Editors	0.06
Firefighters	0.17
Actors	0.37
Health technologists	0.40
Economists	0.43
Commercial pilots	0.55
Machinists	0.65
Word processors and typists	0.81
Real estate sales agents	0.86
Technical writers	0.89
Retail salespersons	0.92
Accountants and auditors	0.94
Telemarketers	0.99

Source: "The Future of Employment: How Susceptible are Jobs to Computerisation?" by C.Frey and M.Osborne (2013)

Watch for:

- Slow labor force growth
- Big unpaid promises to aging
 - Social security and Medicaid/care
- Higher interest rates

Key Takeaways:

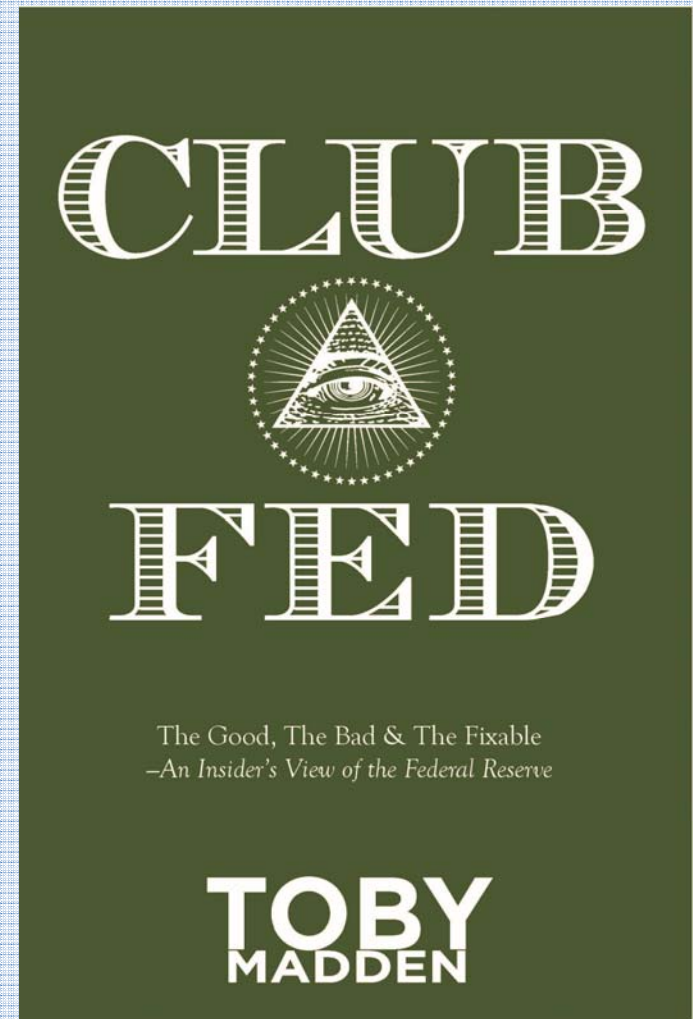
TOBY
MADDEN

- Be Prepared!
- Diversify

Club Fed Book:

TOBY
MADDEN

- Money is Power
- Banking is Unstable
- The Fed is F³



Questions?

toby@powerparametrics.com

tobiasmadden.com

clubfedbook.com

@TobyCMadden

@clubfedbook

TEXT YOUR QUESTIONS
at any time during this presentation to

218.721.8318

RESOURCES

National Bank of Commerce

nbcbanking.com

The College of St. Scholastica

Robert Hoffman, Ph.D.
Assistant Professor of Economics
rhoffman@css.edu

University of Minnesota Duluth

Monica Haynes
Director of the Bureau of Business
and Economic Research
mrhaynes@d.umn.edu

University of Wisconsin Superior

Rubana Mahjabeen, Ph.D.
Assistant Professor of Economics
rmahjabe@uwsuper.edu

Sakib Mahmud, Ph.D.
Assistant Professor in Sustainable
Management and Economics
smahmud@uwsuper.edu

Zamira S. Simkins, Ph.D.
Assistant Professor of Economics
zsimkins@uwsuper.edu

PARTICIPATE

To participate in the next round of surveys, please complete the form on your table and leave it on the registration table as you leave.



We are seeking business principals to participate in on-going, future business confidence survey collection efforts.

If you are willing to help out the student research team and provide less than 5 minutes of your time, please fill out this form and return it to a REIF Steering Committee Member before you leave today.

Name: _____

Position: _____

Organization/Company: _____

Email: _____

Phone: _____

National Bank of Commerce
Member FDIC

The College of St. Scholastica

UMD
UNIVERSITY OF MINNESOTA DULUTH
Driven to Discover

UNIVERSITY OF WISCONSIN
Superior

APEX
get business

Business North

DEVELOPMENT ASSOCIATION

SAVE THE DATE

THE NEXT REGIONAL ECONOMIC INDICATORS FORUM

Tuesday, November 1, 2016

Lake Superior Ballroom, DECC

Special Topic – Transportation

