

THE FUTURE OF HIGHER EDUCATION IN MONTANA

43RD ANNUAL ECONOMIC OUTLOOK SEMINAR



ABOUT THE BUREAU OF BUSINESS AND ECONOMIC RESEARCH

The Bureau of Business and Economic Research is the main research unit of the College of Business at the University of Montana. Established in 1948, its mission is to inform Montanans about the economic climate in which they live and work. In addition to conducting its Economic Outlook Seminar across the state at the beginning of each year, BBER researchers are engaged in a wide range of applied research projects that deal with different aspects of the state economy, including survey research, economic analysis, health care research, forecasting, wood product research and energy research. Contact us at (406) 243-5113 or bber@business.umt.edu if we can be of any help to you or your business.

ADVISORY BOARD

Julia Altemus Montana Wood Products Association Missoula

Dennis Beams Glacier Bank Kalispell

Kathy Boelter Arrow Solutions Group, Inc. Billings

DATES & LOCATIONS

Helena Tuesday, January 23, 2018 Great Northern Hotel

Great Falls Wednesday, January 24, 2018 Hilton Garden Inn

Missoula Friday, January 26, 2018 Hilton Garden Inn Diana Holshue Federal Reserve Bank of Minneapolis Helena

Allison Johnston Payne West Insurance Missoula

Matt Jones BNSF Railway Bozeman

Billings Tuesday, January, 30, 2018 DoubleTree

Bozeman Wednesday, January 31, 2018 The Commons

Butte Thursday, February 1, 2018 NorthWestern Energy General Office Paddy Fleming Montana Manufacturing Extension Center Bozeman

Bill Whitsitt Executive in Residence

Kalispell Tuesday, February 6, 2018 Hilton Garden Inn

Lewistown Tuesday, March 13, 2018 Central Montana Education Center

Havre Wednesday, March 14, 2018 MSU Northern Hensler Auditorium

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7:45-8:00

Coffee and registration

8:00-8:10

Introduction and overview

8:10-8:30

The Benefits of Higher Education Bryce Ward, Associate Director, Bureau of Business and Economic Research

8:30-9:00

U.S. and Montana Outlooks

Patrick Barkey, Director, Bureau of Business and Economic Research

9:00-9:20

Energy Outlook Paul Polzin, Director Emeritus, Bureau of Business and Economic Research

9:20-9:30

Break

9:30-9:50

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Tourism Outlook Norma Nickerson, Director, Institute for Tourism and Recreation Research

9:50-10:10

Agriculture Outlook George Haynes, Professor and Agricultural Specialist, Montana State University

10:10-10:30

Health Care Outlook

Bryce Ward, Associate Director, Bureau of Business and Economic Research

10:30-10:50

Real Estate and Construction Outlook Brandon Bridge, Director of Forecasting, Bureau of Business and Economic Research

10:50-11:00

Break



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11:00-11:20

Forest Industry and Wood Products Outlook Todd Morgan, Director, Forest Industry Research, Bureau of Business and Economic Research

11:20-11:40 62

Local Outlook (by county) Patrick Barkey, Director, Bureau of Business and Economic Research

11:40-12:00

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58

Local Expert Report

12:00-12:10

Break

12:10-1:00

95

The Future of Higher Education

Bob Nystuen, Montana University System Regent and Market President of Glacier Bank Introduction by Bob Rowe, CEO, NorthWestern Energy

Presented by

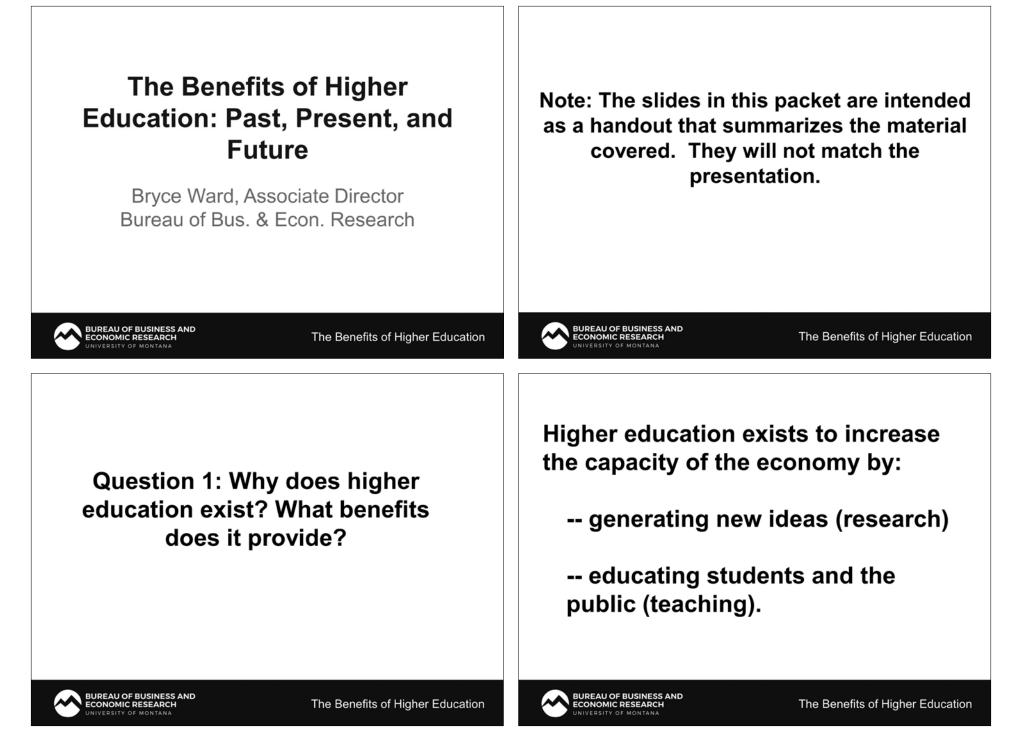


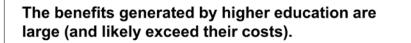
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Doubling the number of universities within a region is associated with a 4% increase in future GDP per capita. This growth is not the mechanical result of spending at the university. It is not reversal causality (i.e., growing places add universities). It stems from increasing the supply of the educated workers and via increased innovation. Areas with greater university density also have stronger pro-democratic views.

Question 1a: What's the value of generating new ideas (research)?

Source: Valero and Van Reenen (2016) "The economic impact of universities: Evidence from across the globe"



The Benefits of Higher Education

Research leads to tiny bumps in the set of human knowledge. What is this worth? -Ph.D

All human knowledge



BUREAU OF BUSINESS AND

The Benefits of Higher Education



BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

The Benefits of Higher Education

3 types of research (value of each differs)

- (1) Pure basic research (Bohr) adding ingredients to the cupboard
- (1) Pure applied research (Edison) creating a new recipe
- (1) Use-inspired basic research (Pasteur) – doing both at the same time

			ediate cation
	-	NO	YES
tion to	YES	Bohr's	Pasteur's
Knowledge		Quadrant	Quadrant
Contribution to	NO	Other	Edison's
Fundamental Knowledge		research!	Quadrant

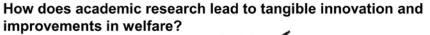
Source: Gans, J. S., & Murray, F. (2011). Funding scientific knowledge: Selection, disclosure and the public-private portfolio.

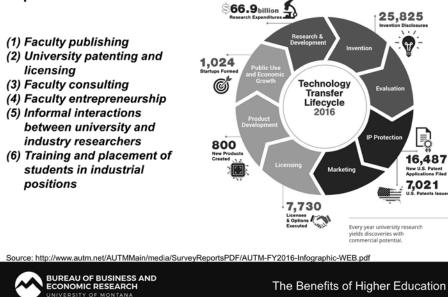


The Benefits of Higher Education

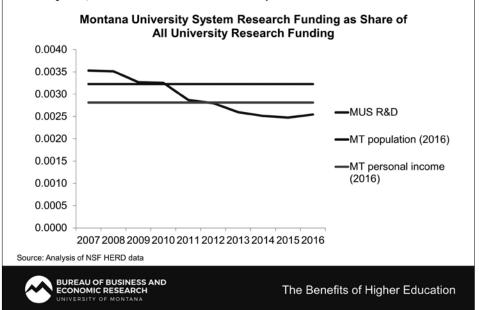
ECONOMIC RESEARCH

ERSITY OF MONTANA





MUS averaged \$182M in annual research funding between 2007-2016. In recent years, this is below what would be expected based on Montana's size.



Local economic effects of university research/university spending

Hausman (2017) - University innovation leads to employment and wages gains in University communities. University innovation leads to local start-ups, but most employment gains come from large firms opening or expanding near universities.

Kantor and Whalley (2014) -- \$1 of additional research university funding leads to \$0.83 of additional wages outside the education sector. Effects are larger for more research intensive schools and in industries aligned with university research.

Aghion et al (2009) - Effects of additional spending on higher education vary across states depending on state proximity to "technological frontier." States close to the the technological frontier enjoy large benefits (e.g., \$1000 of additional research funding per person in a school-age cohort raises per capita income in the whole state by \$274 and \$1000 in additional funding per person in a cohort for regular 4-year colleges increases per capita income by \$18). States far from the technological frontier do not benefit from additional spending on research, but do benefit from additional spending on regular 4-year college.

Sources: Hausman (2017) "University Innovation and Local Economic Growth"; Kantor and Whalley (2014) "Knowledge spillovers from research universities: evidence from endowment value shocks"; Aghion et al (2009) "The Causal Impact of Education on Economic Growth: Evidence from U.S"



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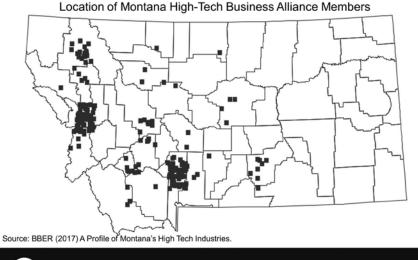
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New U.S. Patent Applications File

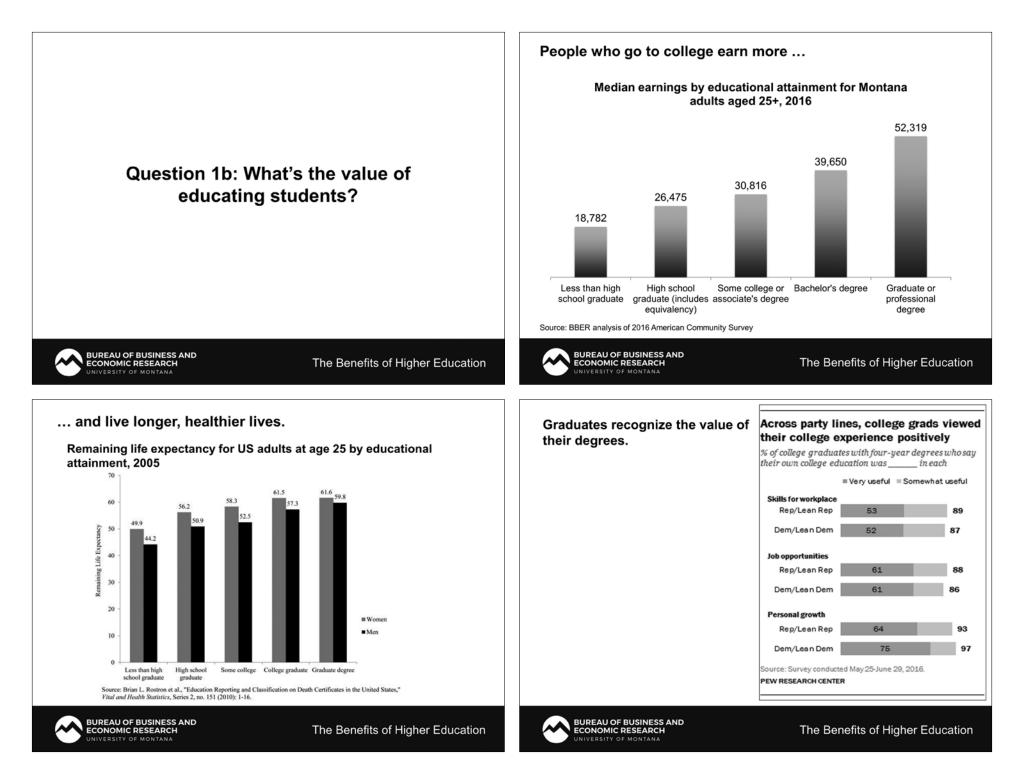
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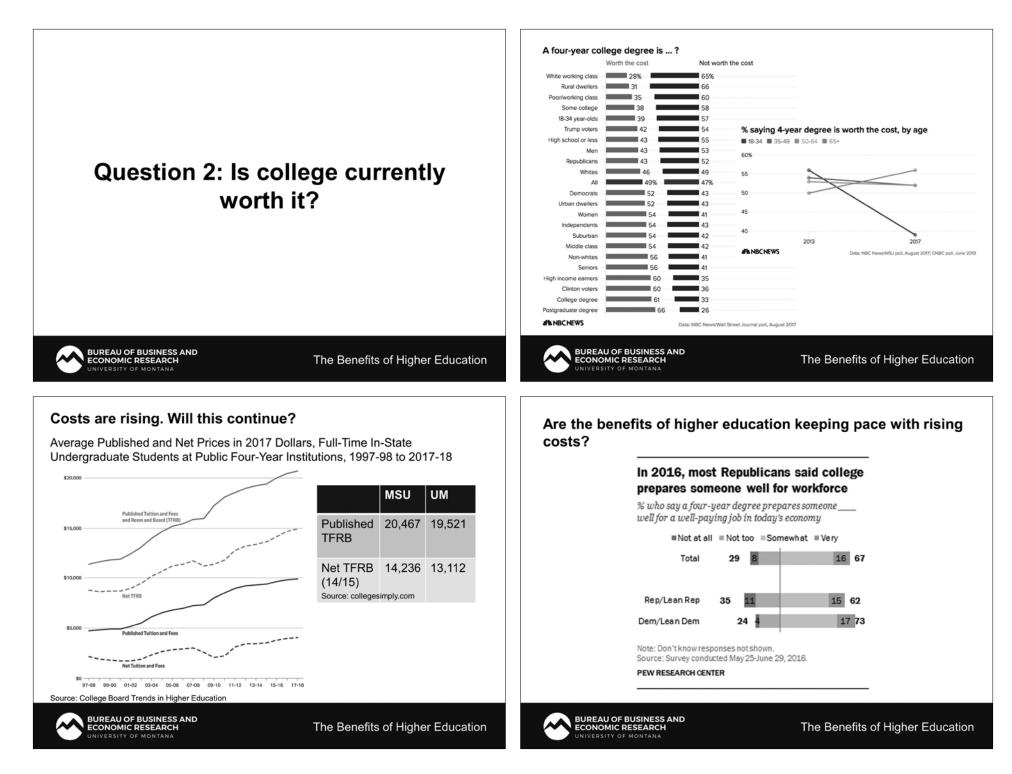
The Benefits of Higher Education

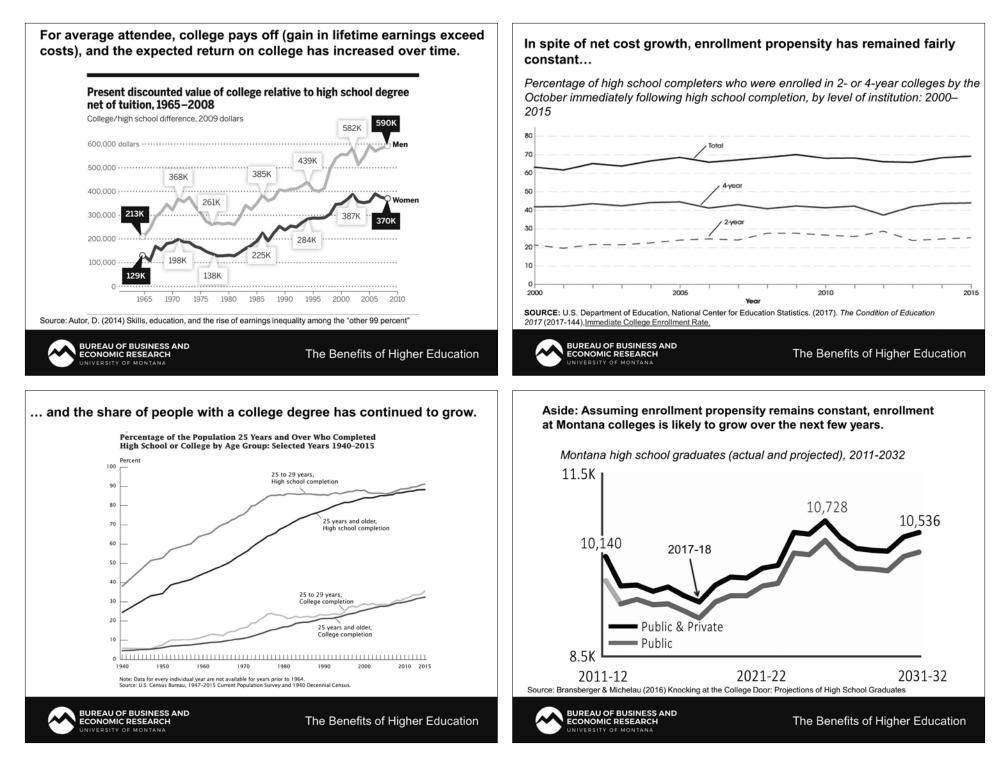
The clustering of Montana's tech companies near higher education is not coincidence.







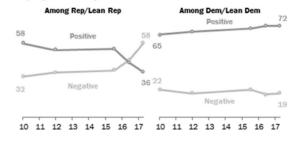




Some of the negativity directed at colleges appears to be an expression of partisanship.

Since 2015, sharp rise in share of Republicans saying colleges have a negative effect on the country

% who say colleges and universities have a _____ effect on the way things are going in the country



Note: Don't know/Other responses not shown. Source: Survey conducted June 8-18, 2017.

PEW RESEARCH CENTER



The Benefits of Higher Education

Question 3a: Can something other than traditional higher education generate the same benefits with a lower cost?

A simple story for how universities generated benefits (proximity to information and expertise):

Historically, information and knowledge were scarce. However, they were relatively abundant at universities. Universities had much larger libraries then were available elsewhere. They had labs, computers, and other specialized equipment that were not easily accessed by those wanting to learn. They paid faculty with extensive training and knowledge to share their knowledge and experience. Thus, a big part of why people went to college was to access the scarce resources "necessary" to build their human capital.

Technology has made information abundant. Thus, if the primary source of value in colleges was access to information and expertise, then colleges may face increased competition from technology-driven substitutes.



The Benefits of Higher Education

Question 3: Will the expected net benefits of college change over time?

(a) Will individuals be able to obtain the benefits of higher education via other means (e.g., online learning).

(b) Will the benefits of higher education fall (e.g., will automation or other forces reduce the returns to higher education in the labor market)?



The Benefits of Higher Education

Students differ.

Six types of students

(1) <u>Aspiring academics</u> – traditional high achievers, plans for grad school.

(2) <u>Coming of age</u> – don't know what they want to do yet, but value broad offerings, active social culture, and ability to try lots of things.
(3) <u>Career starter</u> – job oriented, looking for college that helps them achieve desired career in shortest time.

(4) <u>Career accelerators</u> – older students looking to advance existing career.

(5) Industry switchers - older students looking to start-over in new field.

(6) Academic wanders - don't know exactly what they are looking for.

Source: Ladd et al (2014) The Differentiated University: Recognizing the Diverse Needs of Today's Students



Source benefits differ.

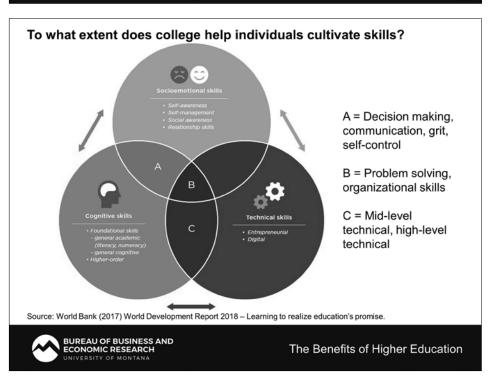
(0) College is fun.

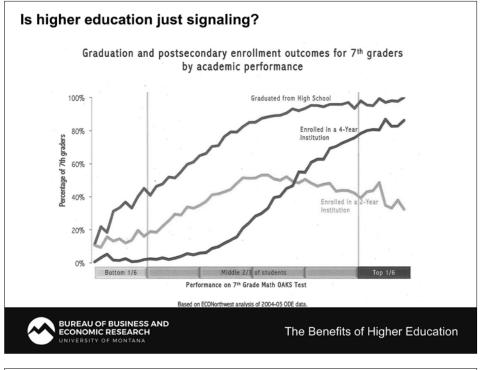
- (1) Colleges generate valuable human and social capital.
 - Colleges make students smarter. That is, college helps students acquire cognitive and technical skills that they otherwise may not acquire:
 - Colleges generate learning that is hard to replicate on one's own.
 - Colleges provide necessary constraints (i.e., people won't learn unless forced by someone)
 - Colleges create productive habits.
 - Colleges help students build valuable social networks/social skills.
 - Colleges provide inspiration and guidance (i.e., it's a purposefully experimental period where people can explore different potential paths and access helpful supports once they've chosen a goal).

(2) College is a signal. Under purest version, college education itself does not do anything to transform students and make them more productive. It is simply something that allows high ability people to distinguish themselves from low ability people.



The Benefits of Higher Education





Schools differ.



Tuition covers less than half of costs, 89% of students report informal interaction with faculty, 81% participate in school clubs, <25% of courses use multiple choice exams, 100% of students report writing a paper graded by professor, original course material; 8% attend part-time; 94% graduate with baccalaureate w/in 5 years at the institution they started at.



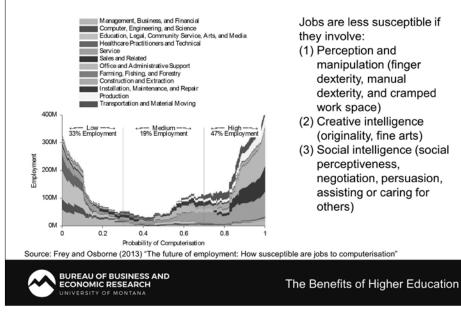
97% of costs covered by tuition or gov't appropriation; 29% of students report informal interaction with faculty; 13% participate in school clubs; 70% of courses use multiple choice exams; 5% of students report writing a paper graded by professor; fairly standardized course material; 59% attend part-time w/in first 2 years; 7% graduate with baccalaureate w/in 5 years at any institution.

Source: Hoxby (2014) "The economics of online postsecondary education: MOOCs, Nonselective Education, and Highly Selective Education."

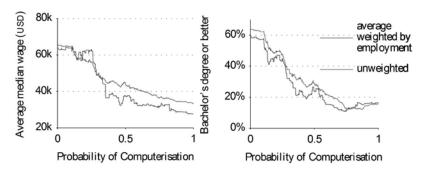


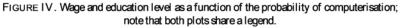


The robots are coming, the robots are coming, \dots 47% of US employment faces high risk of computerization.



High wage jobs and jobs where most people have at least a Bachelor's degree face much less risk from automation.



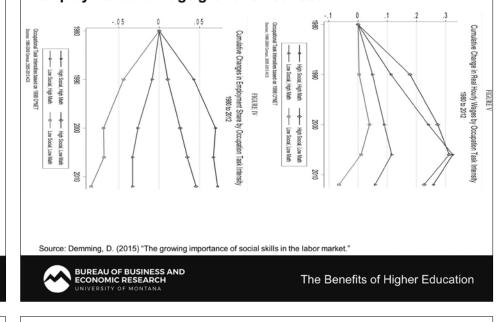


Source: Frey and Osborne (2013) "The future of employment: How susceptible are jobs to computerisation"



The Benefits of Higher Education

Jobs that entail more social skills have seen faster employment and wage growth since 1980.



The existence of technology that can replace a worker does not mean that it will. Technology replaces workers when it is profitable to do so, so other conditions matter.

Technology replacing workers does not mean that overall employment or welfare will fall. Replacing workers in one area typically leads to growing employment elsewhere.



Technological change (and other economic change) will reduce employment in some occupations in the future. Some of the jobs lost will be held by people with higher education. However, people with higher education are less likely to work in jobs affected by automation, and they are frequently better equipped to adapt to changing economic conditions.

As such, investments in higher education are expected to continue to pay off.



Why does higher education exist?

Higher ed exists to increase the capacity of the economy via research and teaching. Both of which produce significant economic benefits.

Is college worth it for today's students?

On average, the benefits (in terms of larger earnings, better health, etc.) exceed the costs.

Will college still be worth it in the future? Will technological or other economic change create a viable substitute for traditional higher education or reduce the returns to higher education?

While changes may modify some parts of higher ed (and provide a substitute for some lower aspects of it), learning from individualized feedback and faceto-face interactions with students and faculty will remain the heart of higher ed.

More educated people are less likely to face competition from machines and are likely better suited to adapt to changing economic conditions.

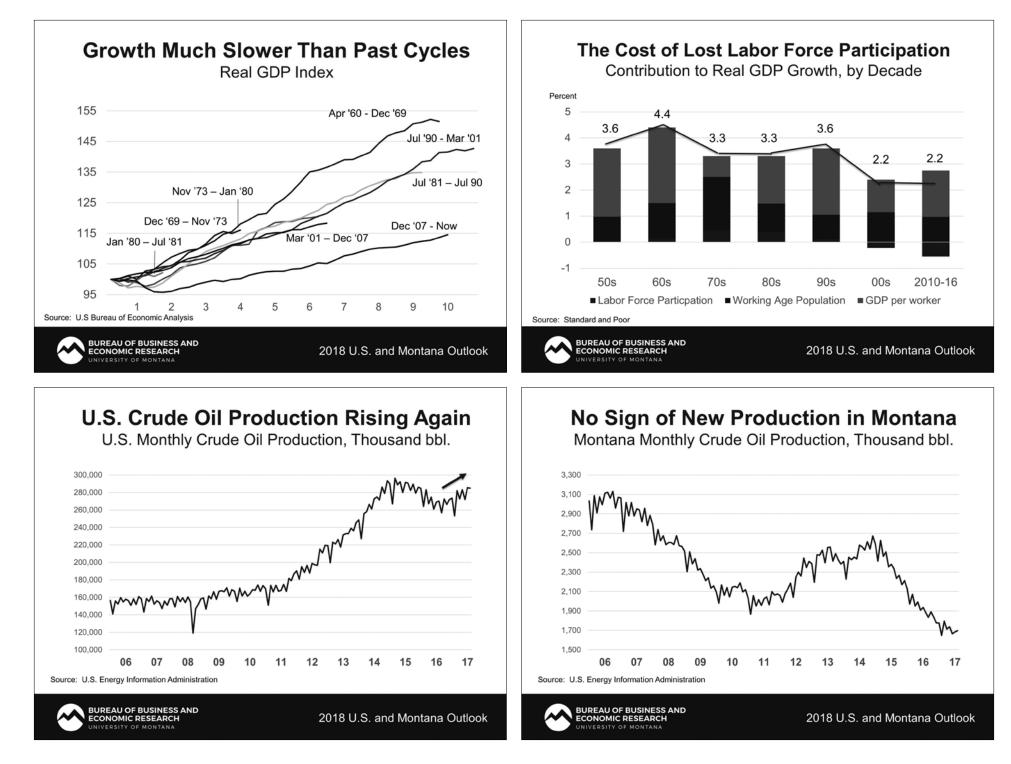


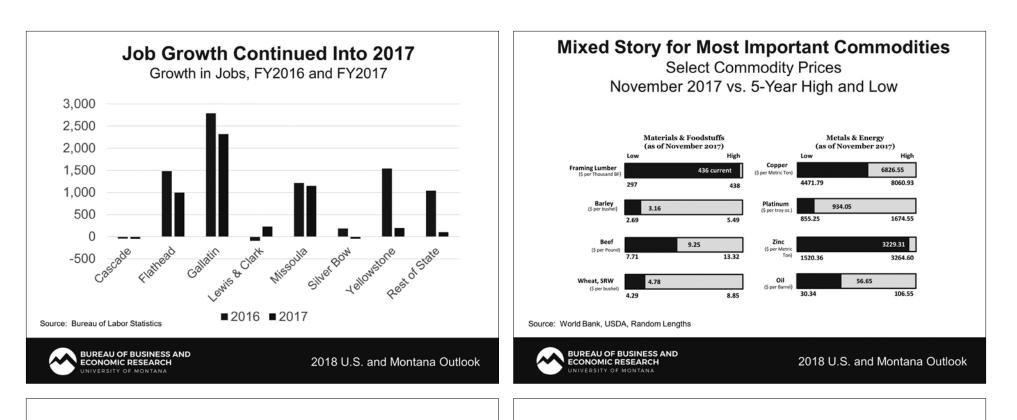
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The Benefits of Higher Education









Montana General Fund Revenue Collections, FY15-FY17, \$ Millions

	F	'iscal Yea	r	FY2016/FY2017		
	2015	<u>2016</u>	<u>2017</u>	<u>Change</u> <u>P</u>	ct. Chan	<u>ge</u>
Individual Income Tax	1180.5	1181.0	1178.0	-3.1	-0.3%	
Estimated Payments	271.2	278.5	271.3	-7.3	-2.6%	
Refunds	-256.1	-275.3	-289.1	-13.8	5.0%	
Withholding	875.2	900.5	940.9	40.4	4.5%	
Property Tax	258.0	275.0	272.3	-2.7	-1.0%	
Corporation Tax	168.0	119.0	125.0	6.0	5.1%	
Oil and Gas Prod. Tax	187.8	95.5	98.1	2.6	2.7%	
Coal Severance Tax	61.8	54.5	55.4	0.8	1.5%	
General Fund Revenues	2169.1	2110.4	2134.7	24.3	1.1%	
Source: Montana Department of Revenue						
BUREAU OF BUSINESS AND			00		-1 N A A	

2018 U.S. and Montana Outlook

Spring Was Cruel to the Montana Treasury Percent Change Jan-May 2017 vs. Jan-May 2016 -15 -10 -5 0 5 10 Withholding Estimated Tax Final Payments Refunds

Tot. Pers. Inc. Tax

■ Montana ■ U.S.

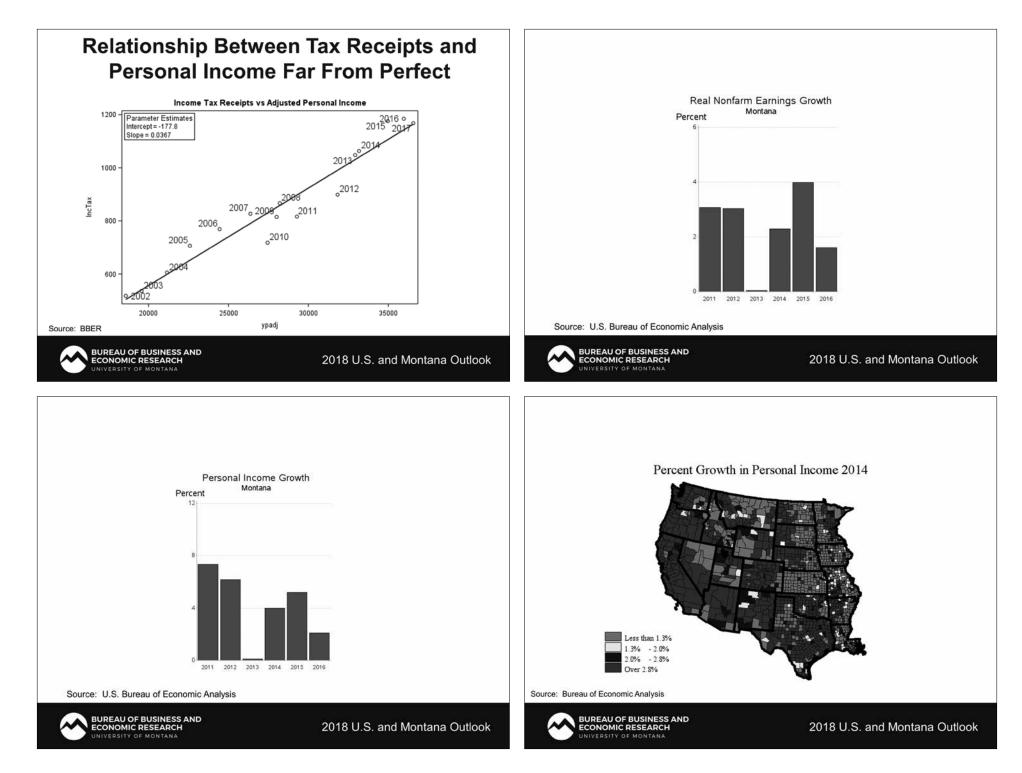
ECONOMIC RESEARCH

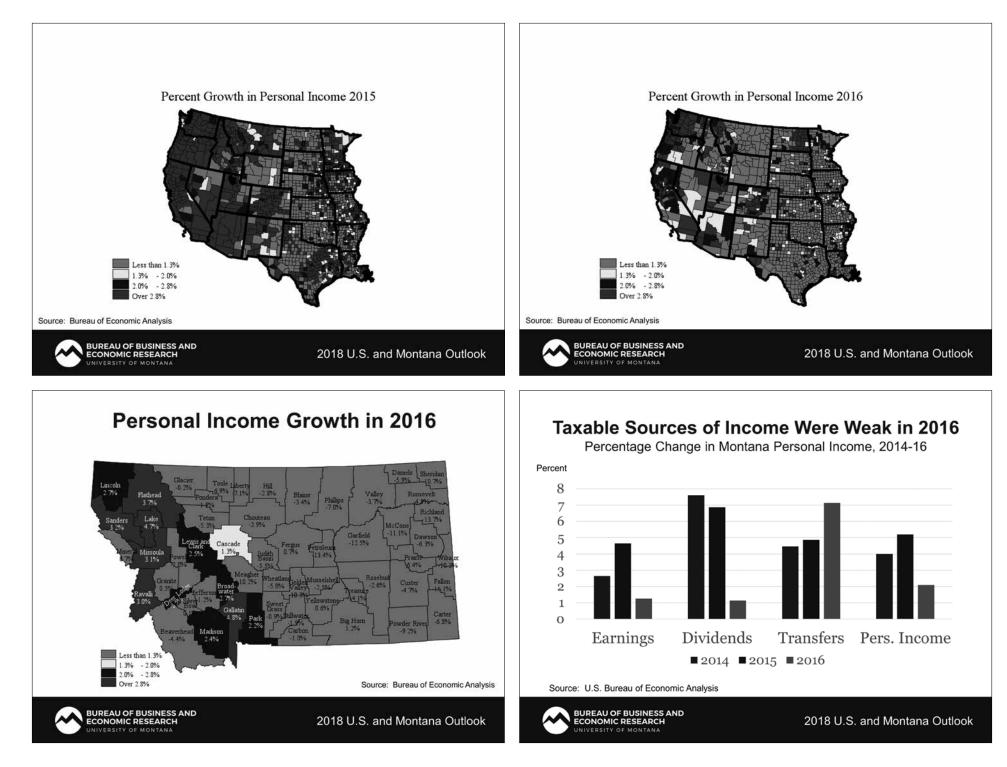
VERSITY OF MONTANA

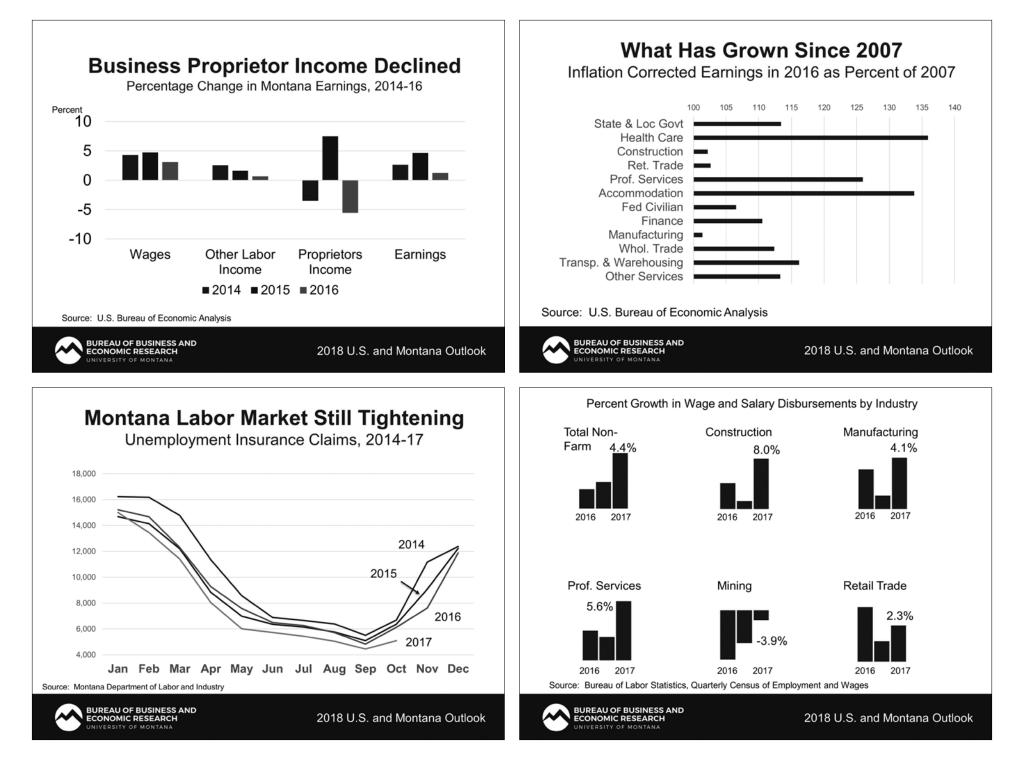
BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

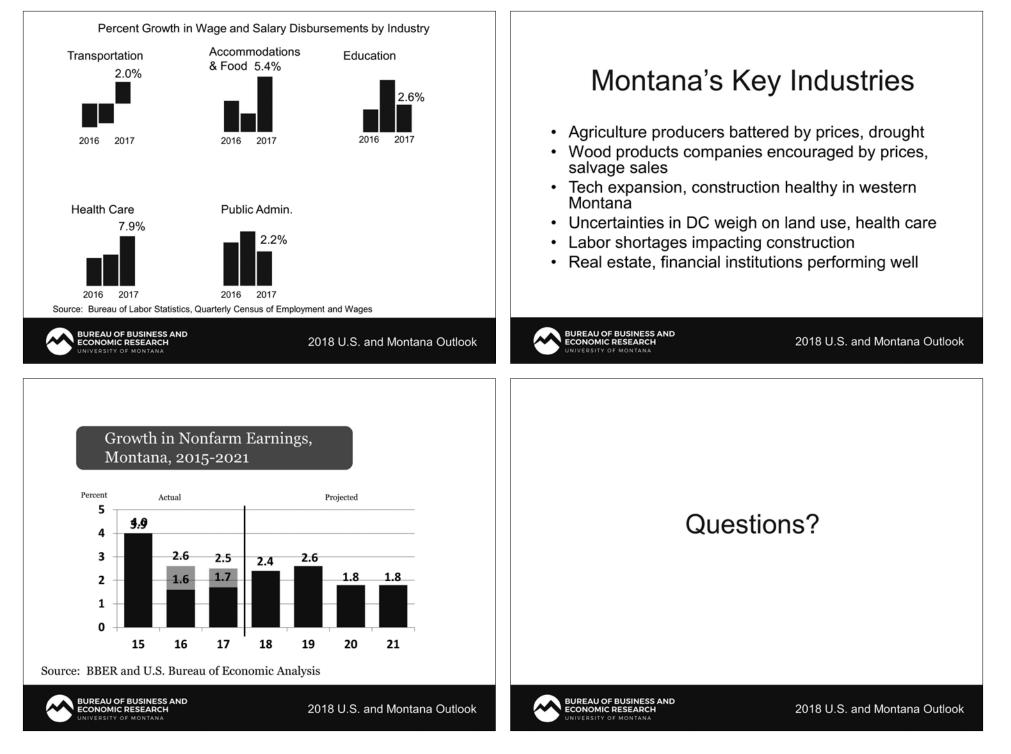
Source: Rockefeller Institute

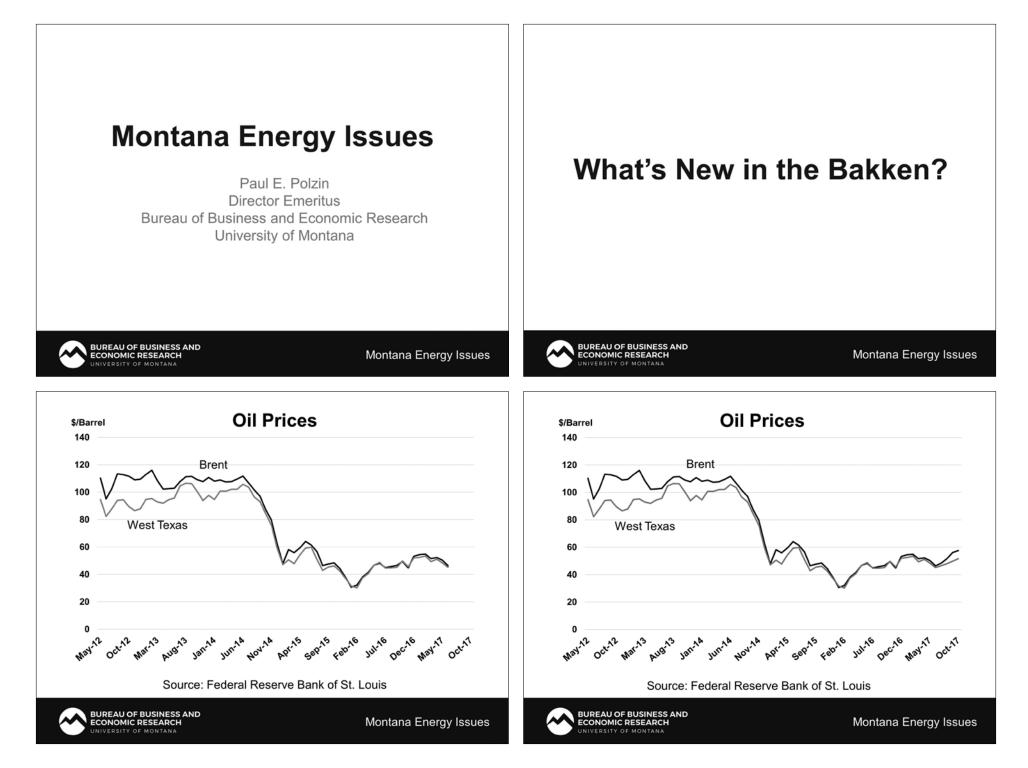
2018 U.S. and Montana Outlook

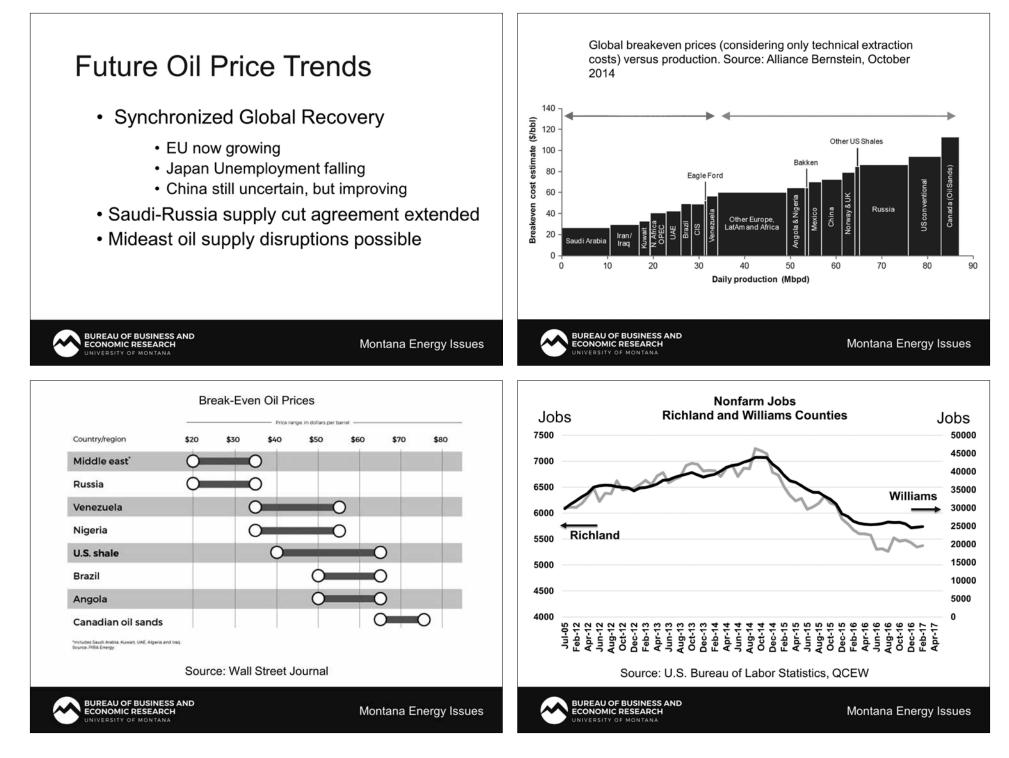












Jobs, by Place of Residence								
2013 2014 2015								
Richland Cty, MT								
Total Jobs	6,775	6,747	6,423					
Live in Richland	3,953	4,265	4,957					
Live Elsewhere	2,822	2,482	1,826					
Williams Cty, ND								
Total Jobs	35,395	39,464	36,948					
Live in Williams	15,732	17,369	18,507					
Live Elsewhere	19,063	22,096	18,441					
Source: U.S. Cens	us Bureau							

The Long Road Ahead For Clean Energy in Montana



Montana Energy Issues

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Montana Energy Issues

EXPAND CLEAN ENERGY IN MONTANA

- "It's time to shift the state's energy recourses away from greenhouse gas-emitting fossil fuels toward renewable energy."
- "We Montanans can transform ourselves from being the West's leader in greenhouse-gas pollution to the first state that commits to 100 percent reliance on clean energy."
- "Few states are blessed with Montana's wind and solar resources."
- Missoulian 10/17/2017



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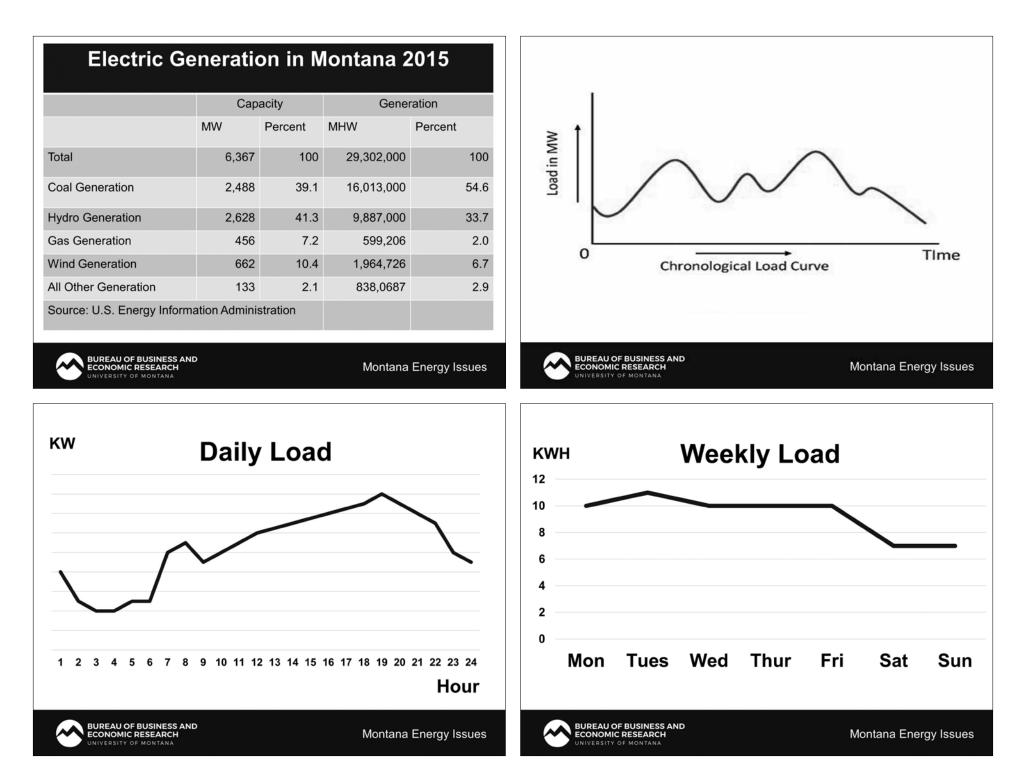
Montana Energy Issues

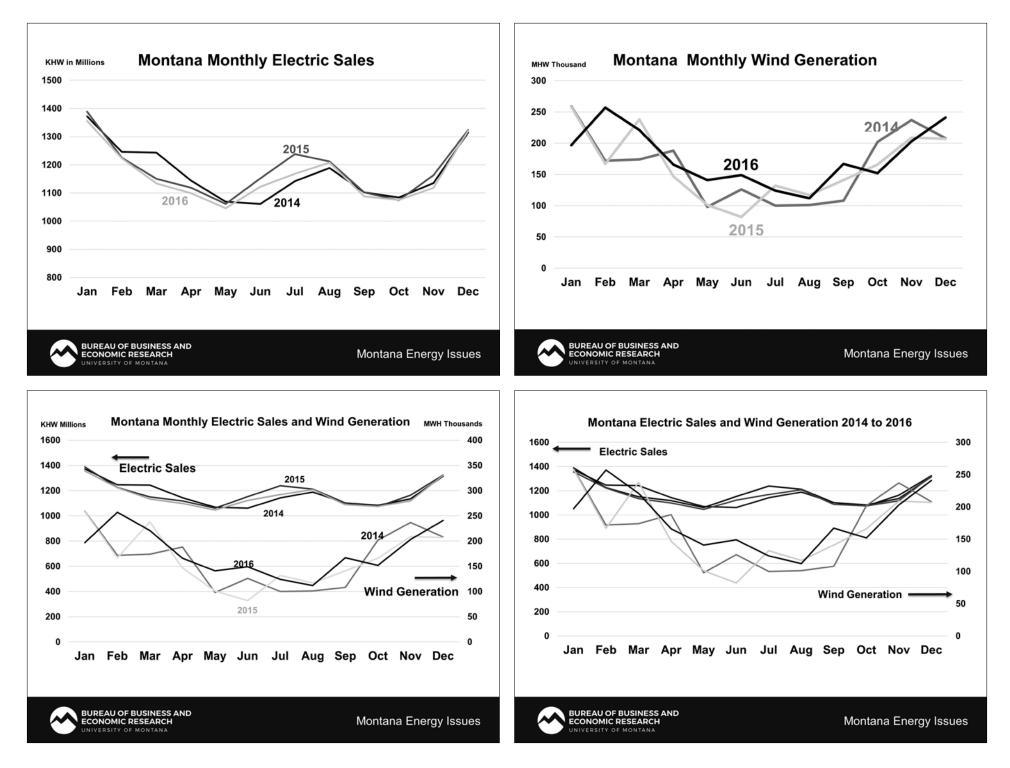
Wind Generation Potential							
	50 Meter		80 Meter		100 Meter		
Rank	State	Capacity (MW)	State	Capacity (MW)	State	Capacity (MW)	
1	North Dakota	480,000	Texas	1,901,530	Texas	2,320,792	
2	Texas	470,000	Kansas	952,371	Montana	1,012,355	
3	Kansas	420,000	Montana	944,004	Kansas	955,239	
4	Montana	410,000	Nebraska	917,999	Nebraska	921,075	
5	South Dakota	400,000	South Dakota	882,412	South Dakota	890,626	

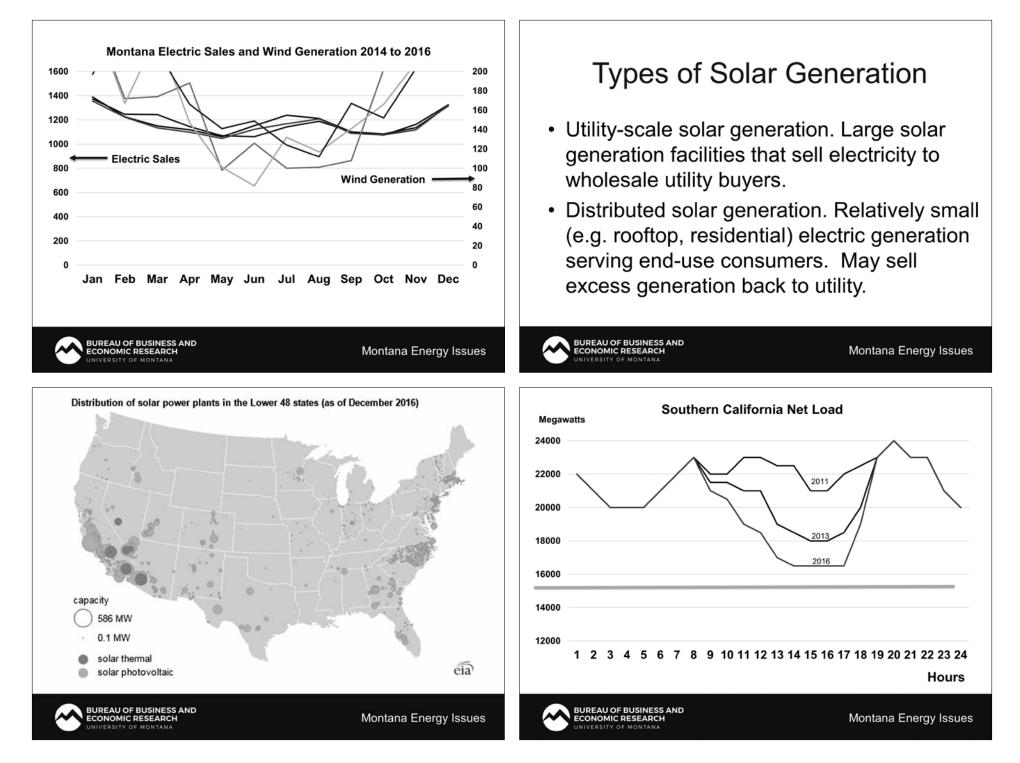
Source: American Wind Energy Association and U.S. Renewable Energy Laboratory

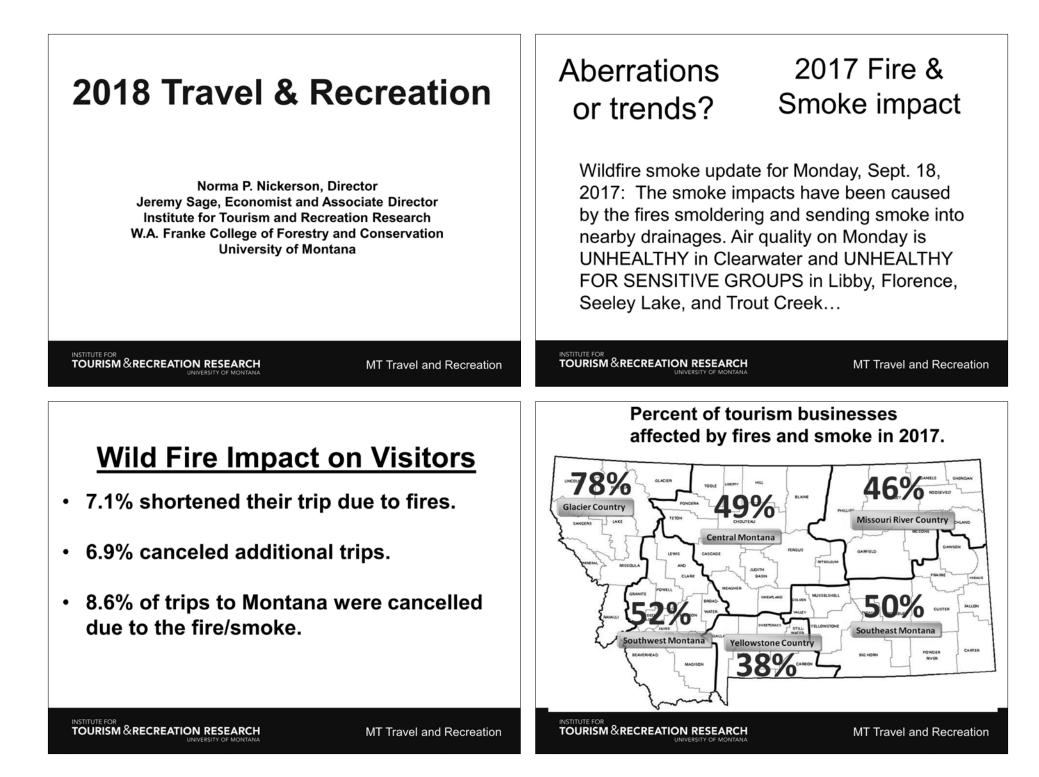


Montana Energy Issues



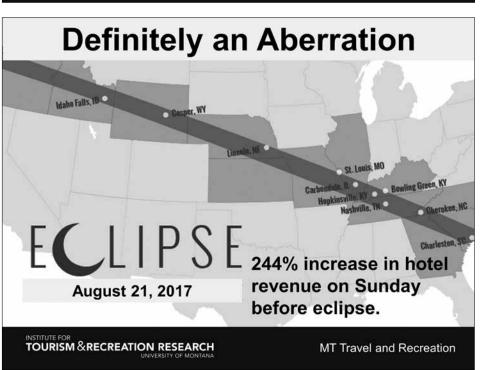






Wild Fire Impact on Residents

- 76% of Montanan's frequently experienced a decrease in air quality.
- 66% said outdoor recreation activities they do near home were affected.
- 37% said they changed their travels in Montana.



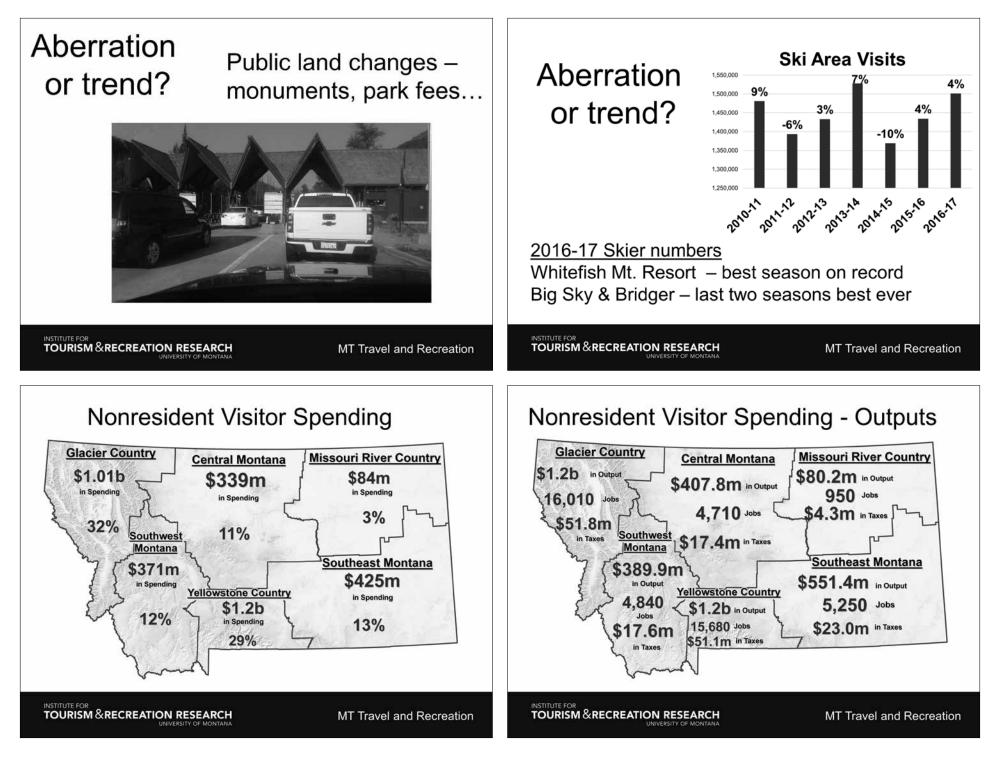
Aberration More than 1 Million Monthly Visitors for the or trend? First Time As visitation continues to skyrocket, monthly attendance records fall Annual Park Recreation Visits BY TRISTAN SCOTT // AUG 7, 2017 (2000-2016)f У in 🔛 4,500,000 4,000,000 3,500,000 3,000,000 2.500.000 2,000,000 1,500,000 1,000,000 500,000 -Yellowstone -Glacier MT Travel and Recreation MT Travel and Recreation **Eclipse impacts** Idaho Falls hotel's Average Daily Rate of \$368 was the highest of any US city in eclipse path. The impact was enough to significantly lift the entire U.S. hotel performance for Sunday, August 20th. Wyoming gained \$63.4 million in nonresident visitor spending within 5 days of the eclipse. It took 2 hours to travel 4 miles on I-90 south of Dillon, MT after the eclipse.

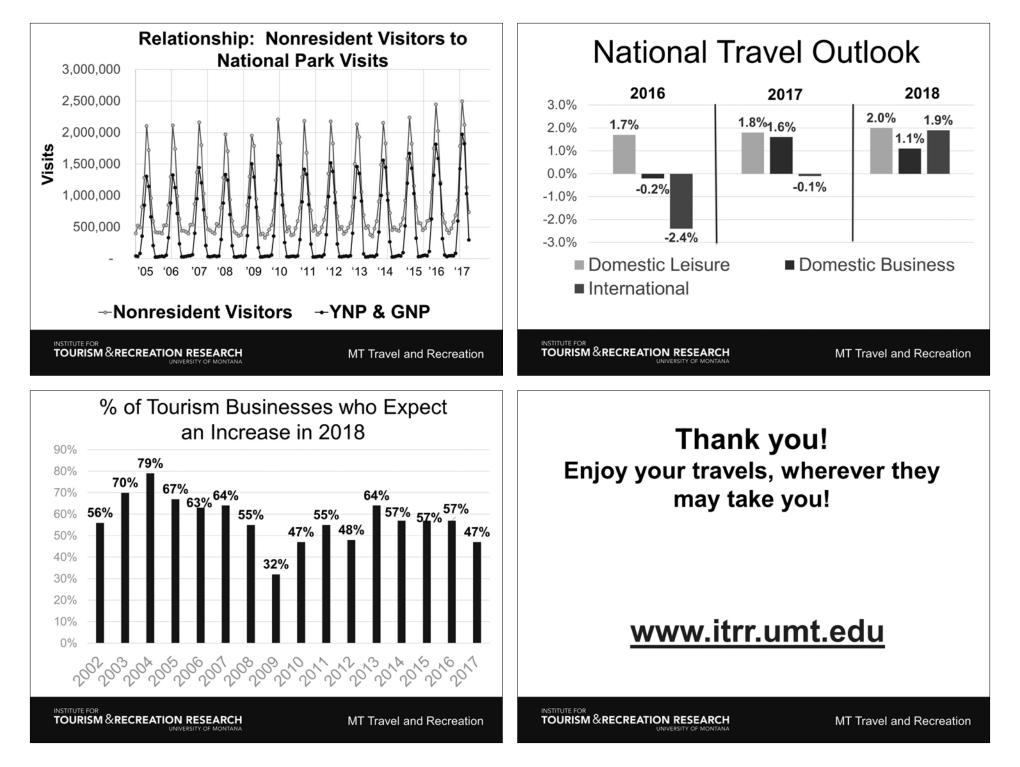
TOURISM & RECREATION RESEARCH

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TOURISM & RECREATION RESEARCH

MT Travel and Recreation





2018 Montana Agricultural Outlook

George Haynes Kate Binzen Fuller Department of Agricultural Economic & Economics MSU Extension

Major Data Source: National Agricultural Statistics Service Montana Field Office (Eric Sommer, Director)

MONTANA STATE UNIVERSITY

Range Fires



KRTV Photograph, 2017

MONTANA EXTENSION

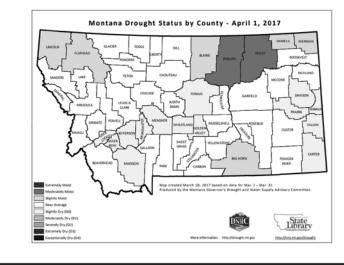
Drought



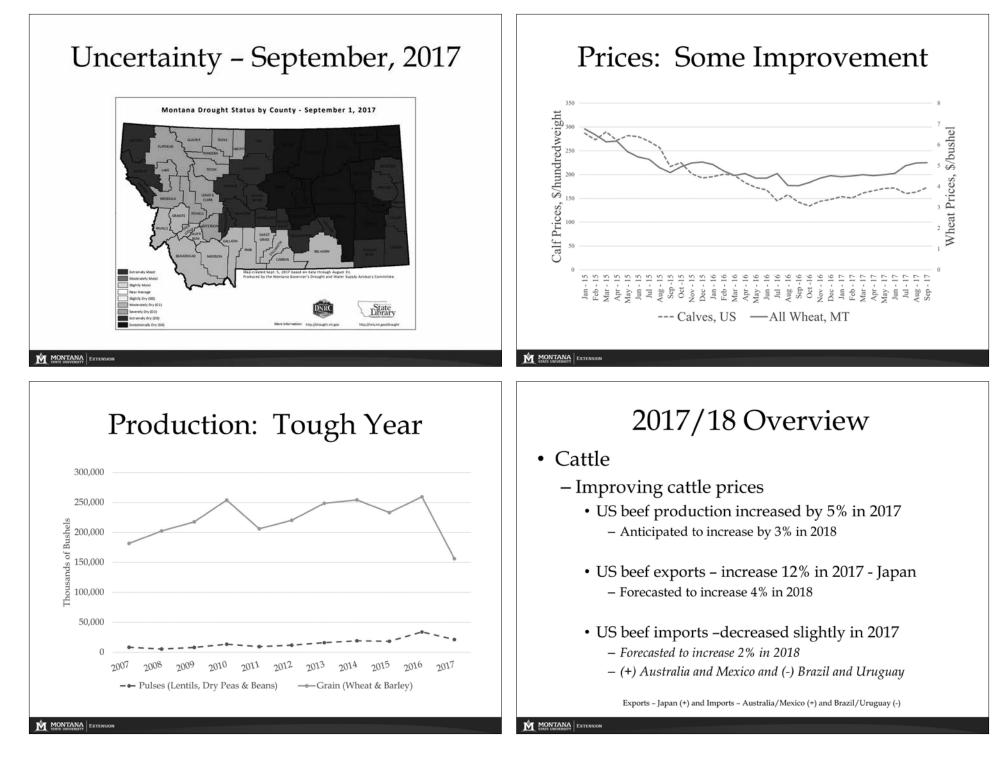
Billings Gazette, 2017

MONTANA EXTENSION

Uncertainty - April, 2017



MONTANA STATE UNIVERSITY



2017/18 Overview

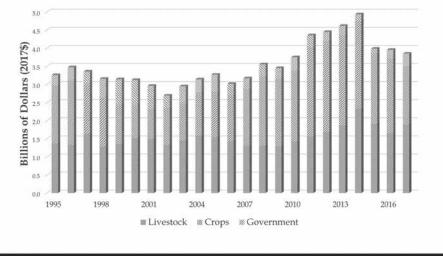
Crops

- Improving grain prices
 - Montana wheat production down 40% in 2016/17
 - US wheat production down 25%
 - US wheat exports down 5%
 - Competition Russia with tariff discounts
 - US wheat imports up 27%
- Pulse acreage continues to increase, "humbling" production

MONTANA EXTENSION

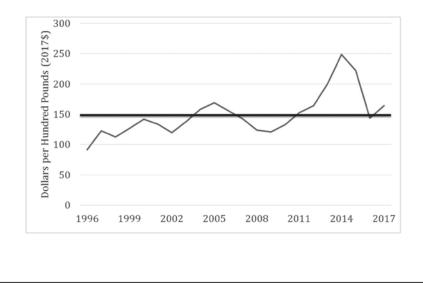
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Cash Receipts (1995 - 2017f)



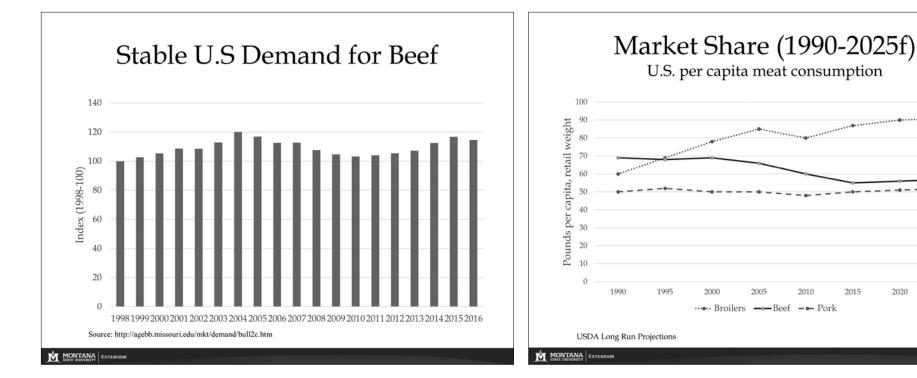
MONTANA EXTENSION

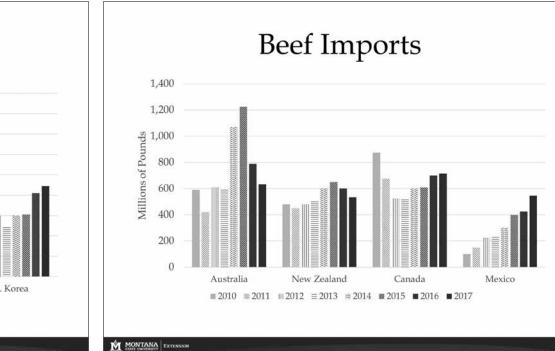
U.S. Average Calf Prices (2017\$)



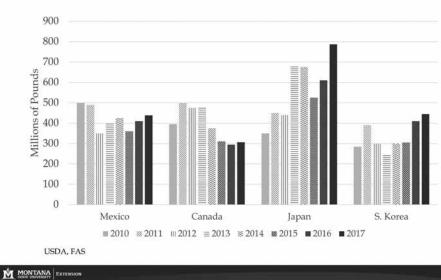
MONTANA EXTENSION

MONTANA EXTENSION





Beef Exports



2025

2017 (\$/hundred pound)	Futures ds, no basis ac			2/17)				
Location	March	April	August	October				
Chicago Mercantile Exchange		•						
Feeder Cattle	151	151	152	148				
Live Cattle	126	126	115	114				
					CROPS	CPAI	NH	Δν
						•		
					PULSES	5, AND (JKG	ANI
					CROPS)		
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IONTANA EXTENSION					EXTENSION			
Montana	Major C	crop A	Acrea	ge	Globa	l Wheat P	roduc	tion S
7,000					Country	2015/2016	shares	2016/2
6.000	•	. ø .			¥	mmt	%	r
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6.000		·····		·	Australia Canada	mmt 24.5 27.6	% 3.3 3.8	1
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2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 ···•·· Wheat ---- Hay --- Barley --- Pulses (Lentils, Peas, Beans)

Canola - 115,000 acres in 2017 (increase of 2.5 fold increase from 2016)

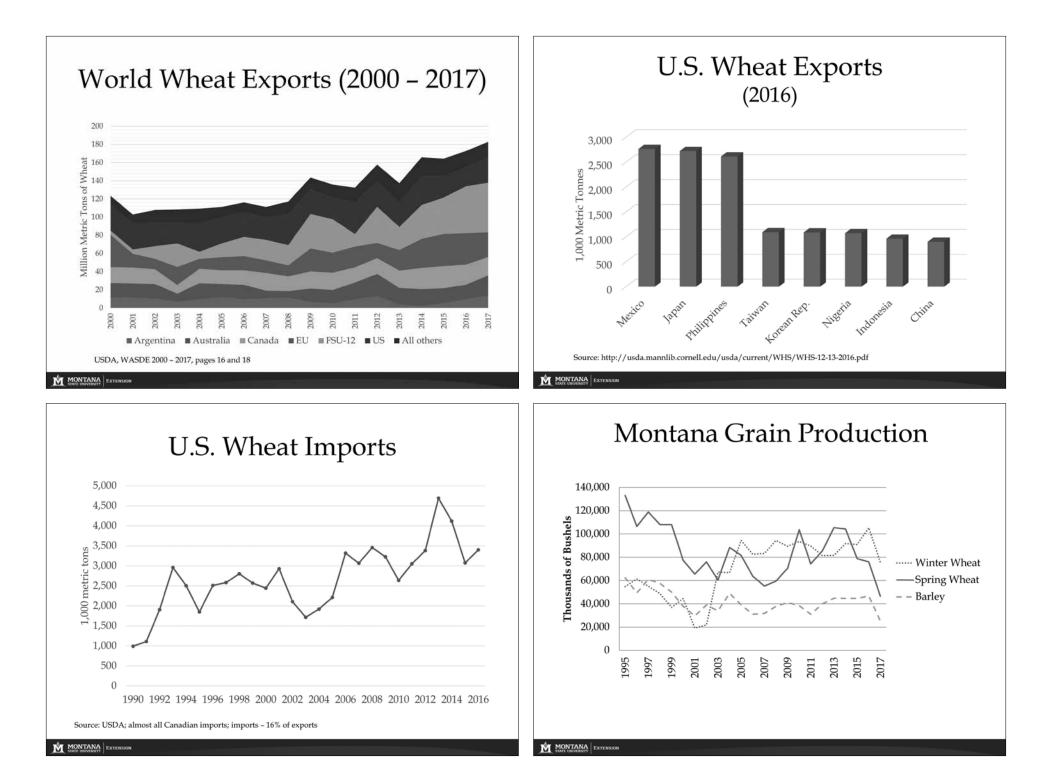
action Shares

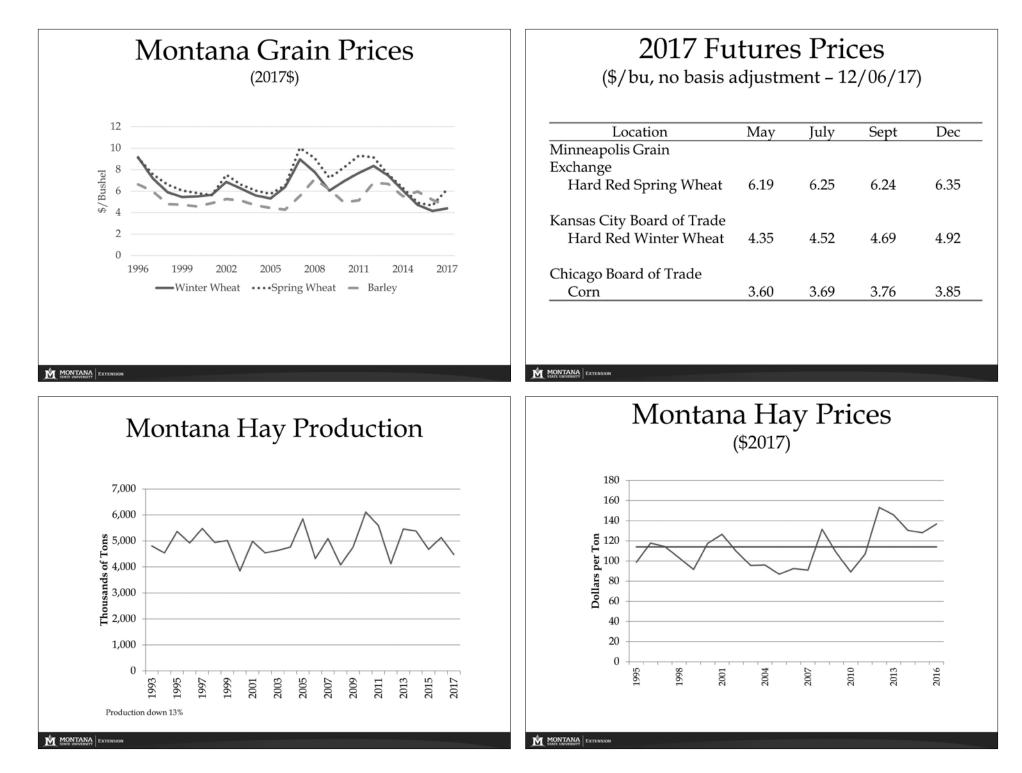
Country	2015/2016	shares	2016/2017	shares
	mmt	%	mmt	%
Australia	24.5	3.3	33.5	4.4
Canada	27.6	3.8	31.7	4.2
China	130.2	17.7	128.9	17.1
EU-27	160.0	21.8	145.5	19.3
India	86.5	11.8	87.0	11.5
FSU-12	118.2	16.1	130.5	17.3
U.S.	56.1	7.6	62.8	8.3
Other	132.4	18.0	134.1	17.8
Total	735.5	100.0	753.9	100.0

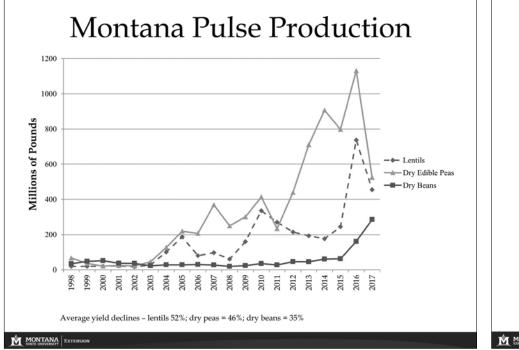
Source, WASDE-571, 2017

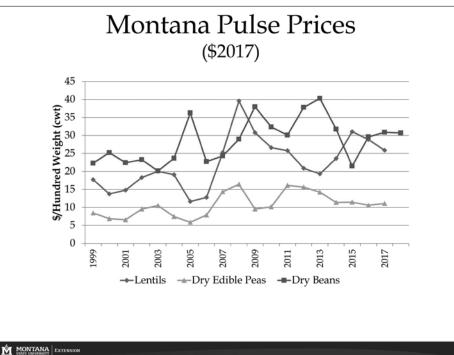
MONTANA STATE UNIVERSITY

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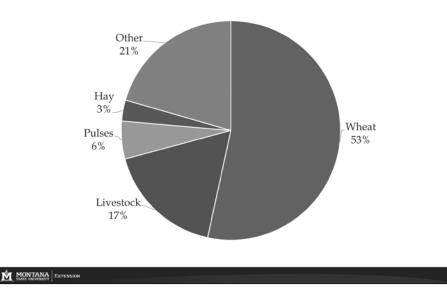




Montana Organic Production

- #1 Organic wheat producer in US
 - \$28.4 million gross sales (27% of US organic wheat sales)
- #1 Organic pulse producer
 - \$5.4 million revenue (55% of US organic pulse sales)
- 5% of certified organic acres

Organic Revenue Shares



MONTANA EXTENSION

2018 Forecast

• Livestock:

MONTANA STATE UNIVERSITY EXTENSION

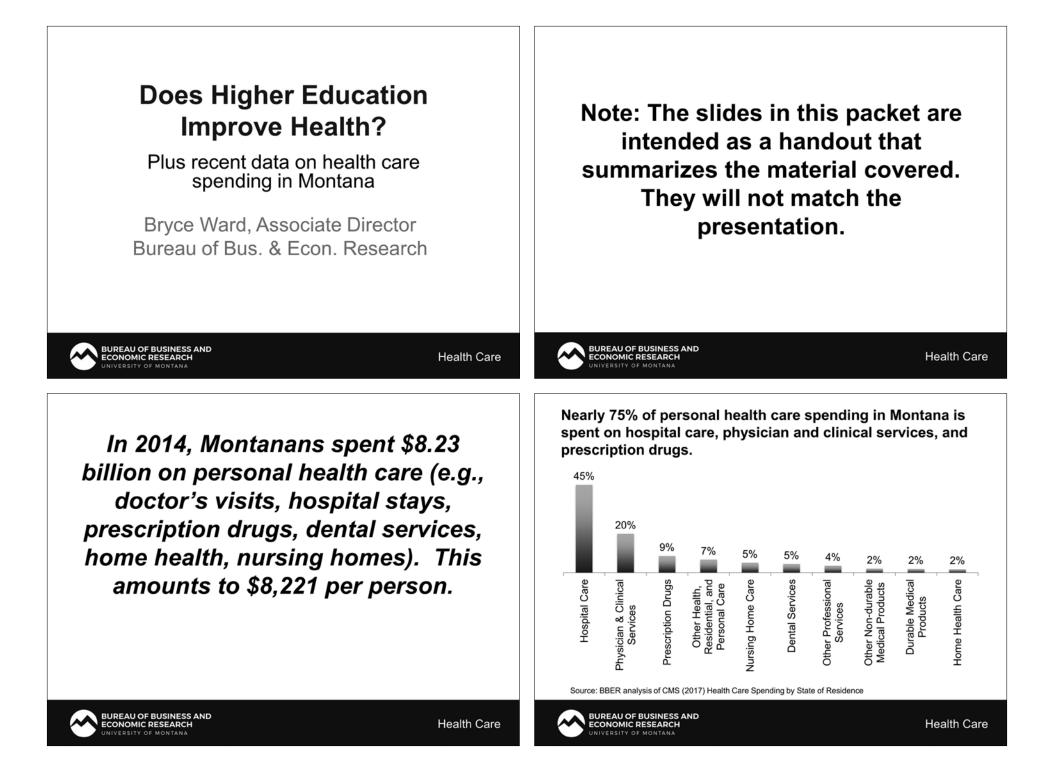
- Herd expansion continues
- Stable to slightly higher prices
- Grains/Pulses:
 - World wheat stocks are high
 - Prices below historical averages
 - Continued growth in pulse and oilseed crop acreage

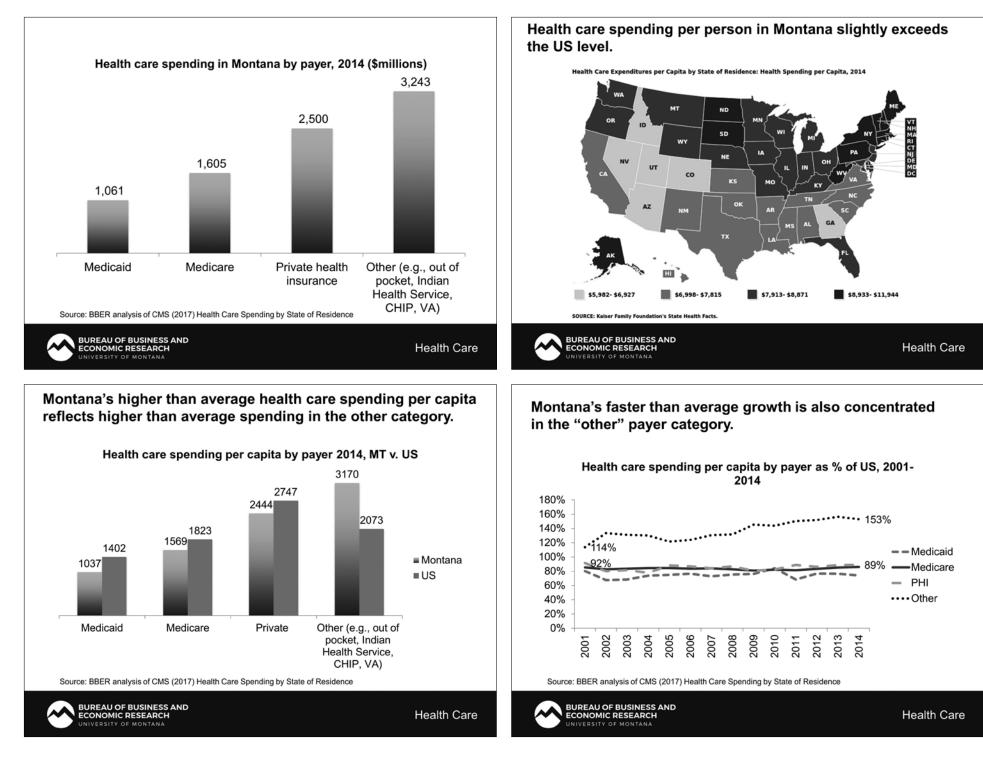
Questions?

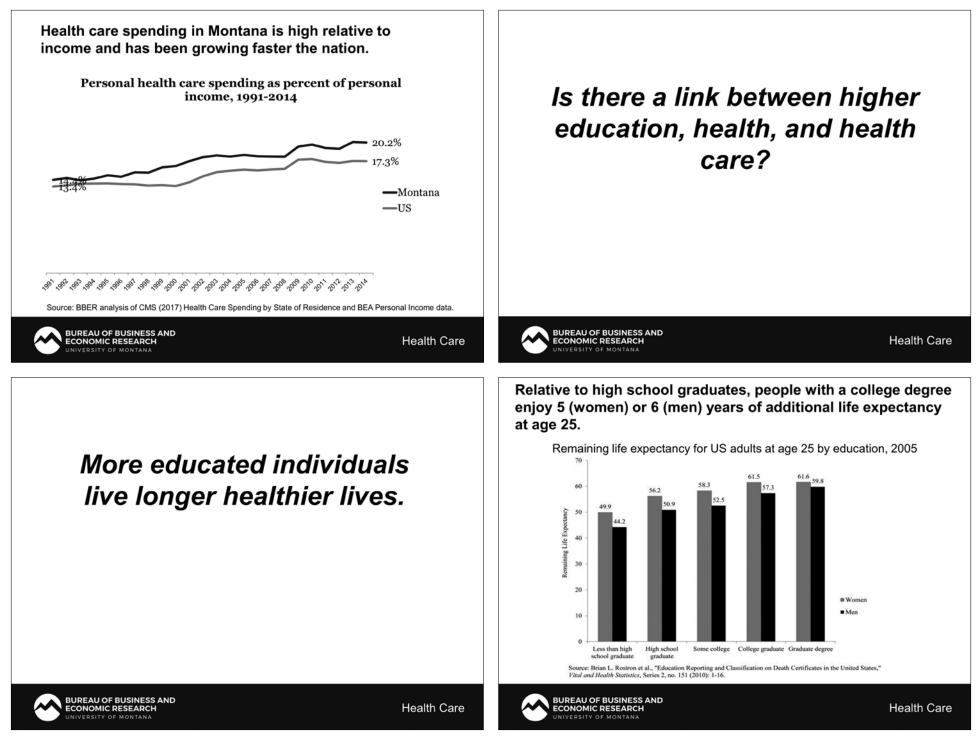
George Haynes, Ph.D. haynes@montana.edu

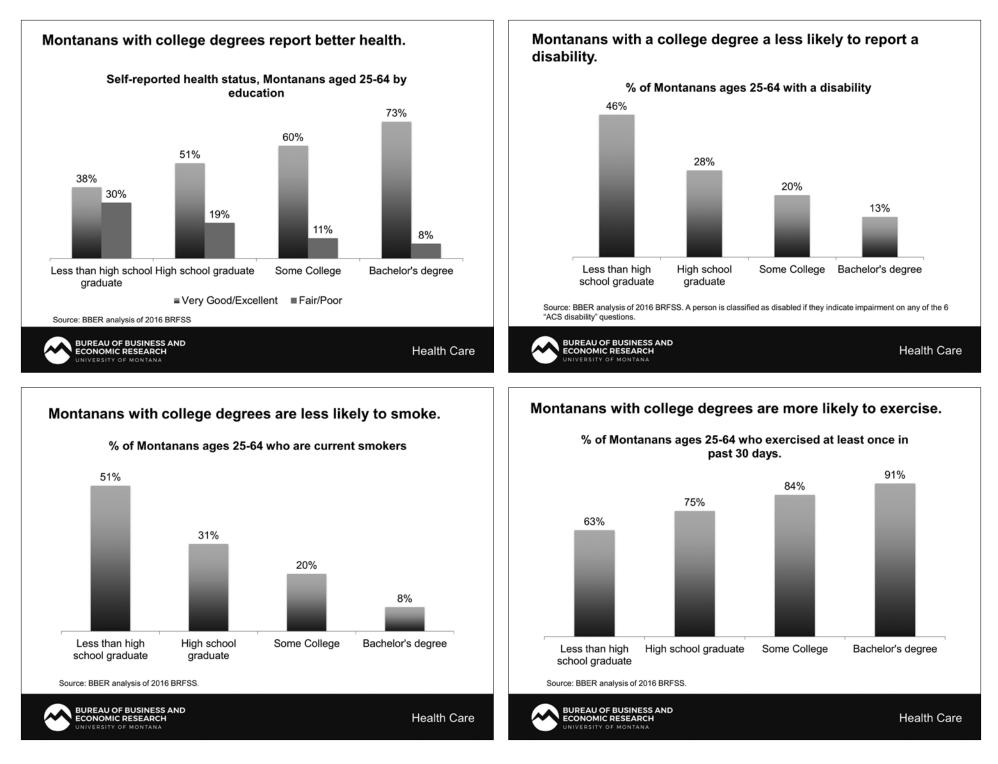
Kate Binzen Fuller, Ph.D. kate.fuller@montana.edu

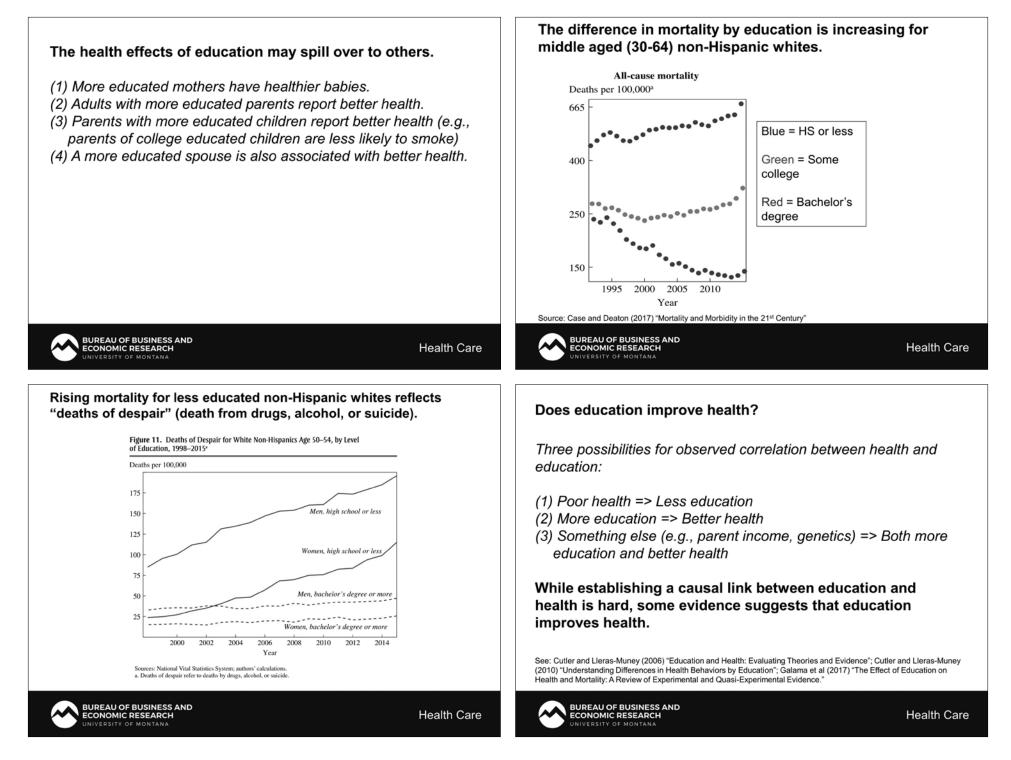
MONTANA STATE UNIVERSITY EXTENSION











Why might education improve health?

- (1) More resources education leads to higher income, insurance, better access to health care
- (2) Information and cognitive skills education provides more access to information and improves critical thinking skills and decision making ability.
- (3) Non-cognitive skills education boosts social-emotional skills that provide more stable family and work relationships which improve health.
- (4) Social networks more education leads to a large, more useful social network; the more educated also are more likely to have peers who disapprove of "bad" behavior.
- (5) Safer work environment the more educated are less likely to work at dangerous or physically demanding jobs.
- (6) Preferences e.g., education makes people more risk averse.
- (7) Status higher status reduces stress and stress-related illness

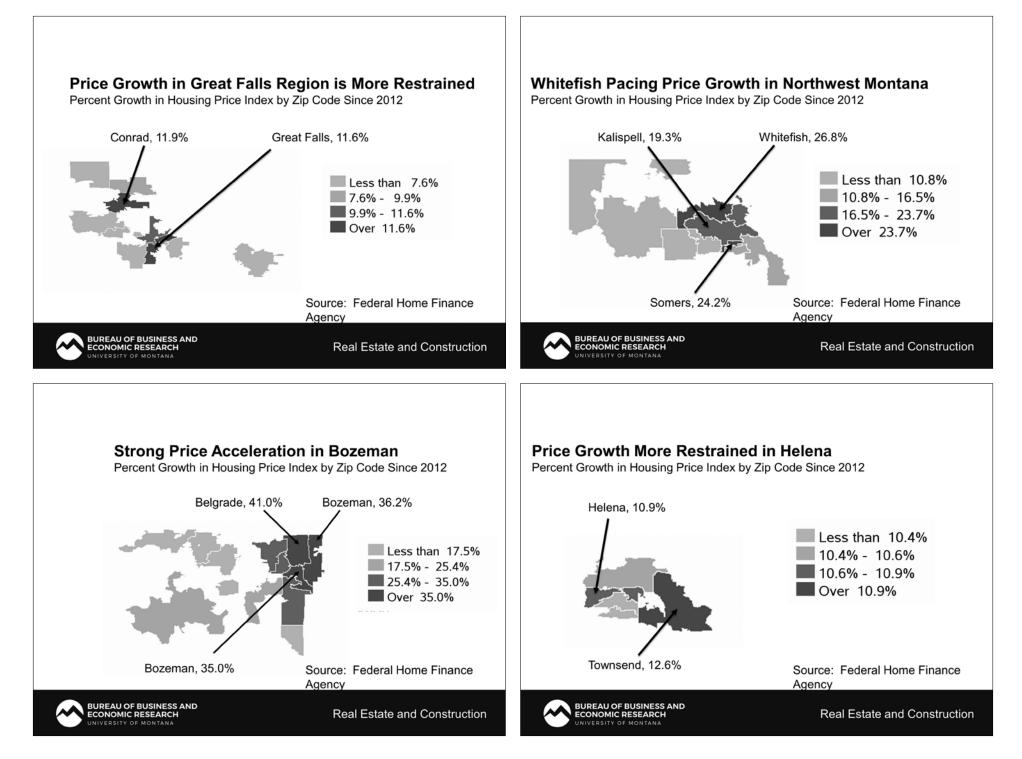
(8) Adoption – education makes people more likely to effectively adopt new knowledge and technology

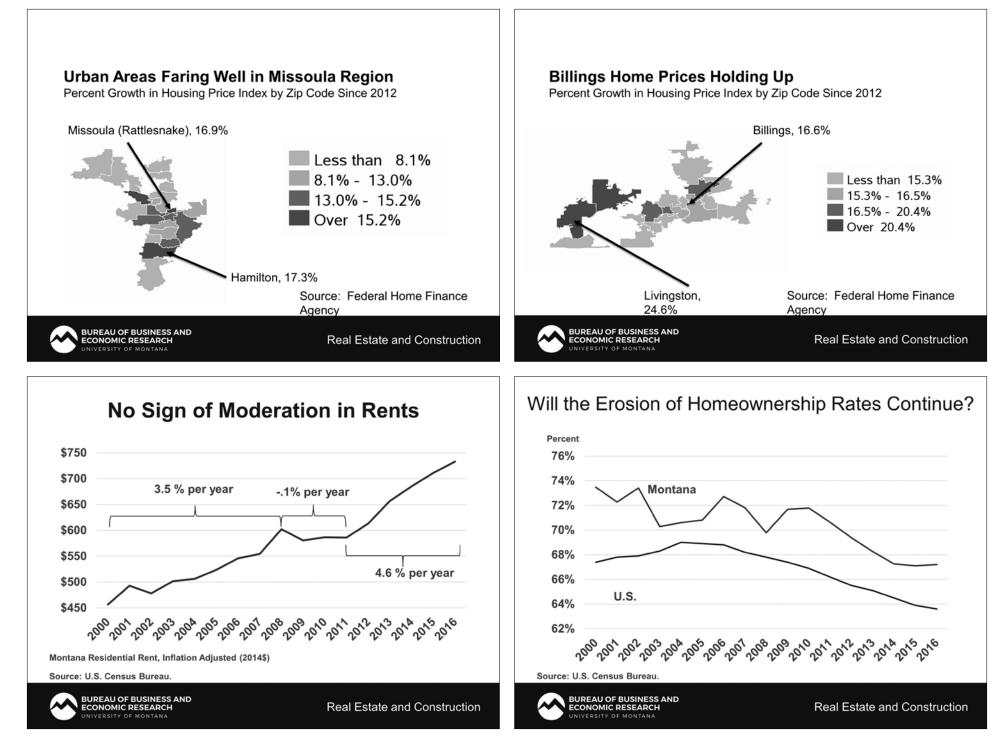


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Health Care



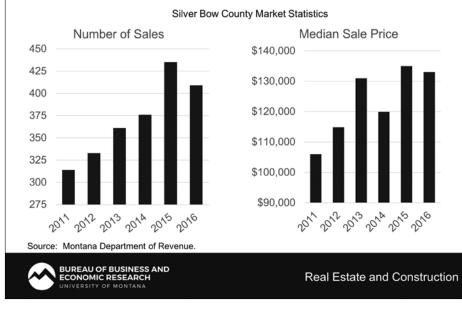








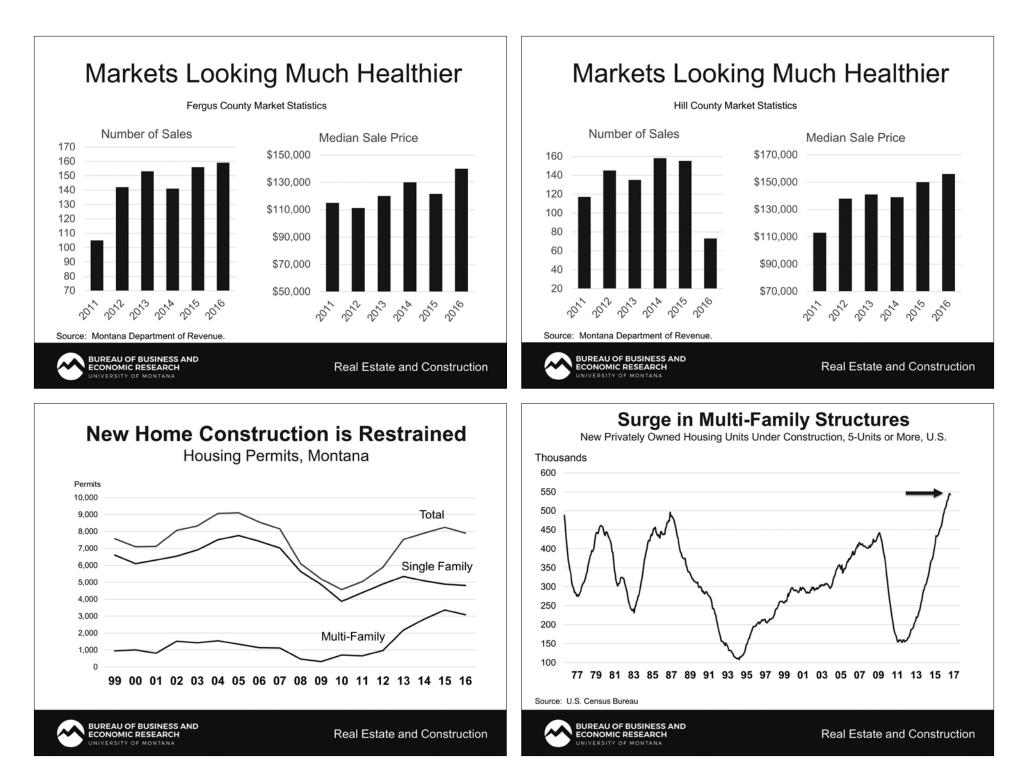
Markets Looking Much Healthier

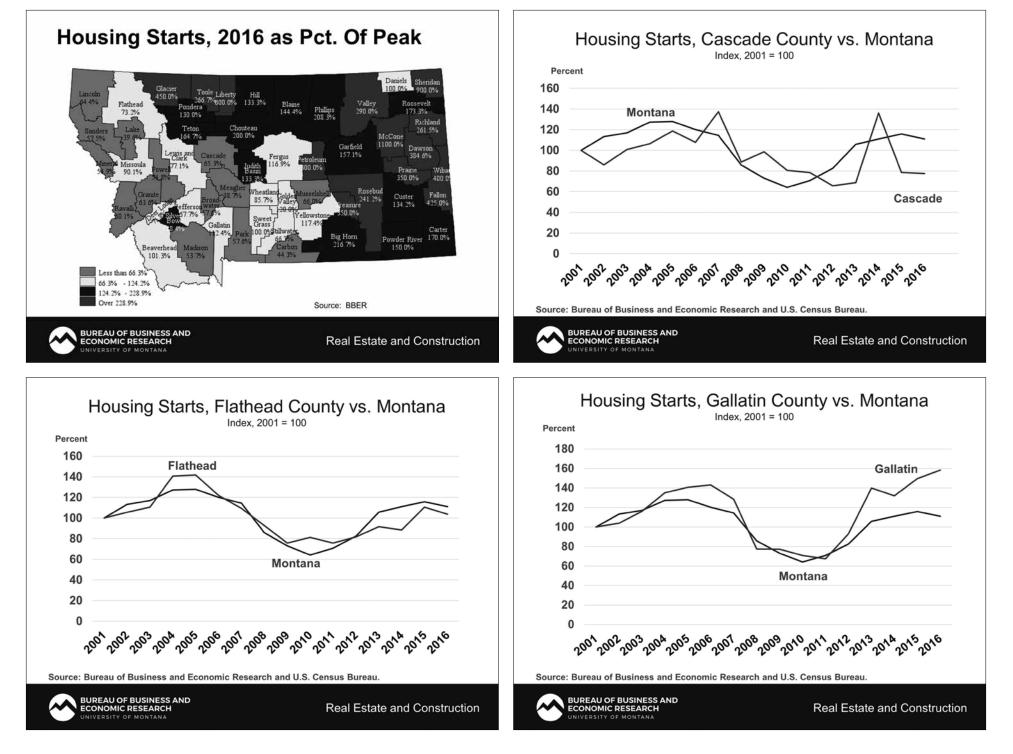


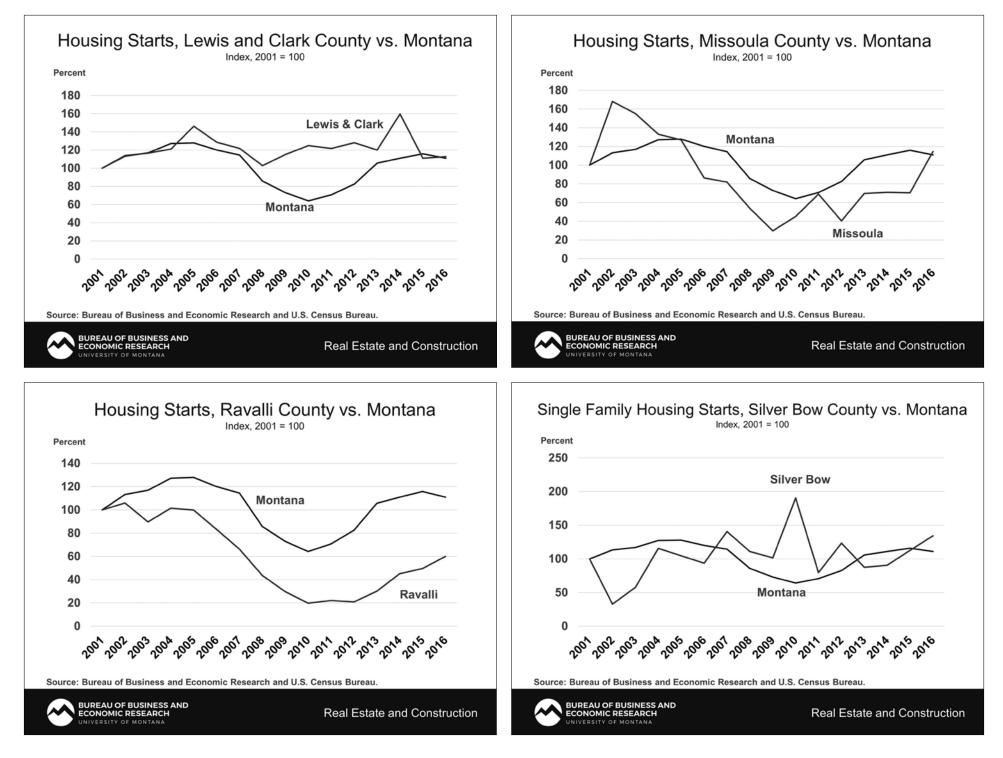
Markets Looking Much Healthier

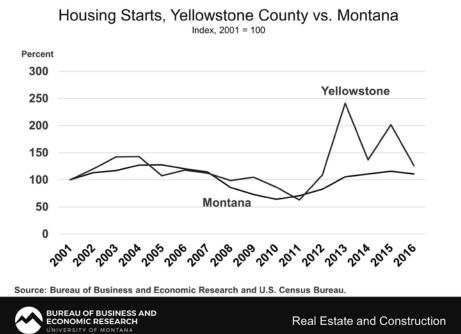


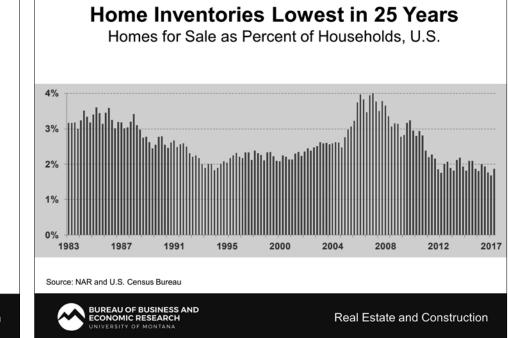
Yellowstone County Market Statistics



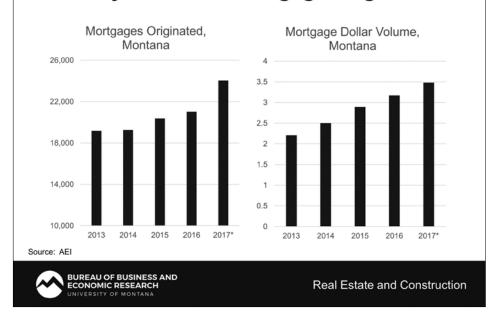




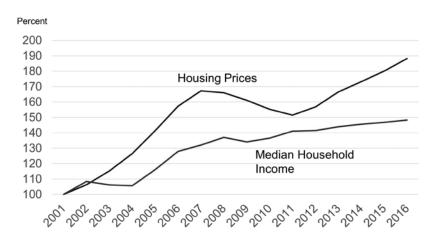




Steady Growth in Mortgage Originations



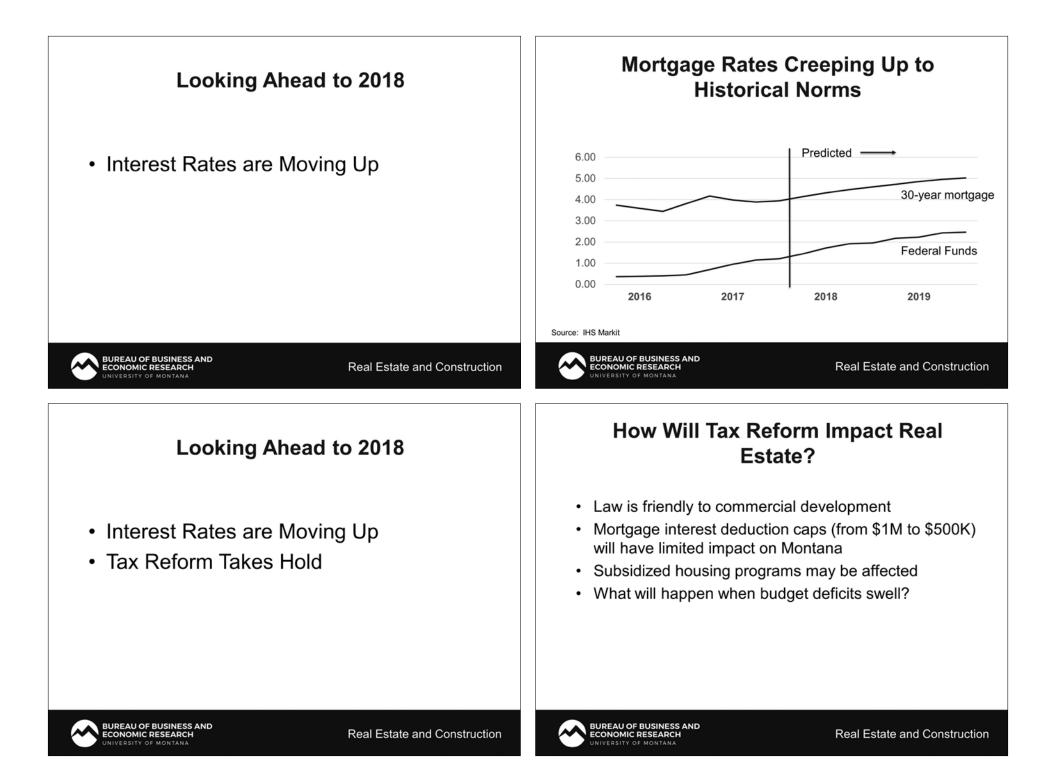
Housing Affordability Not Easily Solved



Montana Housing Price Index and Montana Median Household Income Index, 2001 = 100 Source: U.S. Federal Housing Finance Agency and Census Bureau.



Real Estate and Construction



- Interest Rates are Moving Up
- Tax Reform Takes Hold
- Is Real Estate Risk Growing?

Assessing Housing Risk

· Price growth is challenging loan quality

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- Median down payment of home buyer in 2017 was 10%
- 1.36 million mortgages underwater in 2017 is still twice the pre-crash level

Real Estate and Construction

 Other forms of debt (especially student debt) have risen significantly



Real Estate and Construction

Outlook for 2018

- · Real estate markets in Montana will remain strong
- · Affordability will get worse
- Residential construction will continue to underperform
- · The boom in multifamily construction is over
- · Risk is growing, but still not a concern



Real Estate and Construction

Montana's Forest Industry & **Wood Products**

Todd A. Morgan, Director Forest Industry Research Program Bureau of Bus. & Econ. Research



Forest Industry & Wood Products

Montana Forest-Related Employment

Private sector	Jobs	Public sector	Jobs
Wood & paper products	3,011	US Forest Service	2,817
Forestry support activities	2,690	National Park Service	346
Forestry & logging	1,534	BLM & BIA	307
		DNRC & FWP	280
Total	7,235	Total	3,750

About 11,000 forest-related workers Private sector: >\$320 million in earnings Public agencies: >\$220 million in earnings



Forest Industry & Wood Products

Montana Forests & Timber

- 25.9 million acres
- 69% federal ownership

National Forests 61% of timberland 76% of timber volume 20-25% of annual harvest Over 60% of burned area 80% of insect impact area

County	Forest acres (thousand)	National Forest
Cascade	332	53%
Flathead	2,794	63%
Gallatin	902	66%
Lewis & Clark	1,391	71%
Lincoln	2,182	80%
Missoula	1,410	51%
Ravalli	1,192	88%
Silver Bow & Deer Lodge	534	63%
Yellowstone	143	0%
All counties	25,820	60%



Source: USDA Forest Service, FIA Program

Forest Industry & Wood Products

Mon

tana Forest Industry (Private Sector)

	<u>2005</u>	2009	2016
Workers	9,821	7,620	7,235
Earnings (millions)	\$396	\$277	\$320
Primary sales (millions)	\$1,078	\$592	\$563
Lumber production (MMBF)	1,001	418	506

Sources: Bureau of Economic Analysis, Western Wood Products Association, BBER

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Forest Industry & Wood Products



Montana Sawmill Energy Use

Total on-site energy use per MBF of lumber

- 1.1 MMBtu per MBF = Southwest ave.
- 3.8 MMBtu per MBF = Montana ave.
- 9.4 MMBtu per MBF = National ave.

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Electricity 16.1% Wood 77.3% Forest Products Journal 66(3/4):155-163 Forest Products Journal 66(5/6):326-337

Diesel

5.0%

Energy consumption

of Montana sawmills

Nat. gas

1.2%

Gasoline

0.4%

Forest Industry & Wood Products

Montana's Wood Products Industry

- ~140 establishments
- ~80 timber users
- 8 larger, 20+ small sawmills
- · Plywood, MDF, particleboard
- Log homes, post & pole
- Pellets, bark, fuels-for-schools
 - · Mostly small, privately held
 - Most don't own forest land
 - · Nearly all rely on some timber from public lands

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Fire Perimeter

Incident Name Rice Ridge

160.181

Forest Industry & Wood Products

Fire, Smoke & Salvage

2017 Montana wildfires = 1,276,479 acres

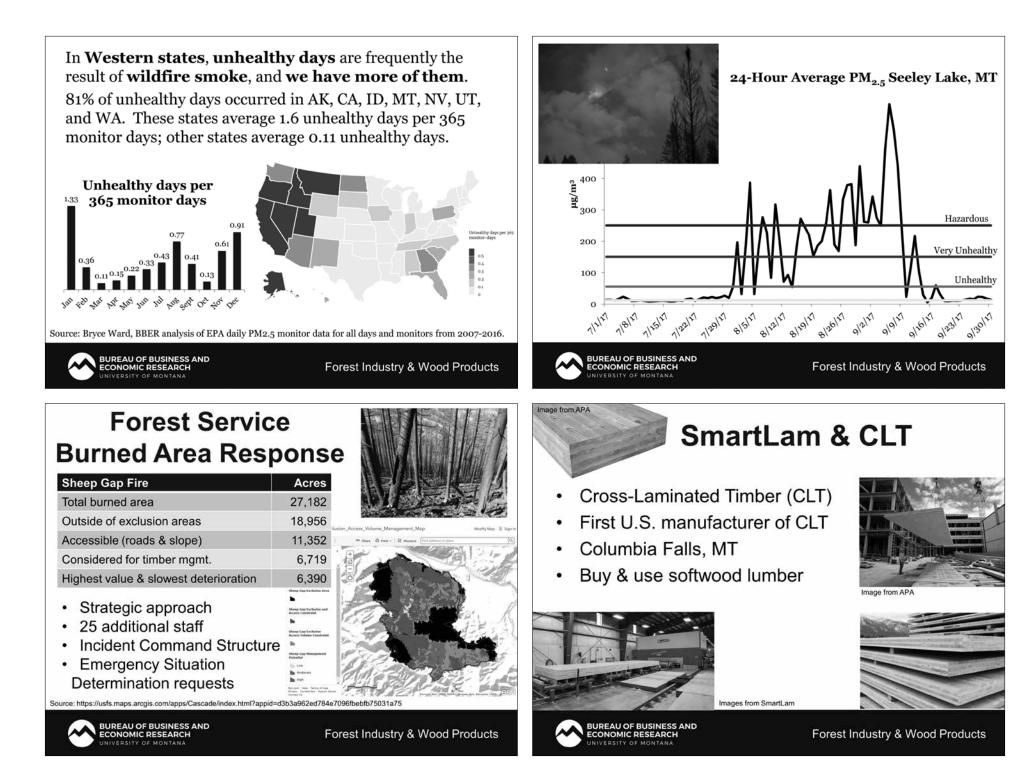
- Forest Service > 600,000 acres
- Average = 175,000 acres
- National suppression cost > \$ 2.4 Billion
 MT suppression costs > \$74 million







Forest Industry & Wood Products





Softwood Lumber (dis)Agreement



Canada supplies about 1/3 of lumber in US

- 90-95% of lumber imports come from Canada
- •70-80% of Canadian lumber is exported to US
- Canadian companies now own 40+ US mills
 - Hedging bets against tariffs & log supply
 - Closer to wood supply & housing markets
 - Have funds to buy US mills



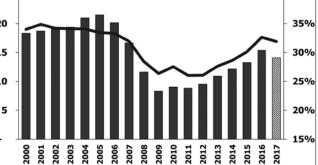
Forest Industry & Wood Products

Canadian Lumber

Volume & share of US market down in 2017

 US Commerce Department's 25 20%+ tariffs 20
 Bark beetles & 19 fires impacted BC timber 5010 supply 50

 Chinese markets improved



Lumber imports from CAN

-CAN share of US consumption

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Forest Industry & Wood Products

Montana's Forest Industry & Wood Products Outlook

High expectations were not met in 2017.

Expectations are mostly positive for 2018.

- Broader US economic conditions
- National homebuilding
- Softwood lumber & other trade
- > All eyes on the Forest Service fire salvage
- Agriculture markets & weather



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Forest Industry & Wood Products

Thank you!



todd.morgan@business.umt.edu www.BBER.umt.edu/FIR



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40%

The Outlook for Cas	cade
County	
Patrick M. Barkey, Direct Bureau of Bus. & Econ. Res	or earch
BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA	Cascade Outlook

Cascade County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$46,667	8
Construction	\$58,723	8
Manufacturing	\$60,719	4
Retail Trade	\$32,736	12
Transportation and Warehousing	\$54,400	15
Information	\$50,451	14

Source: U.S. Bureau of Economic Analysis



BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

Cascade Outlook

Cascade County Profile

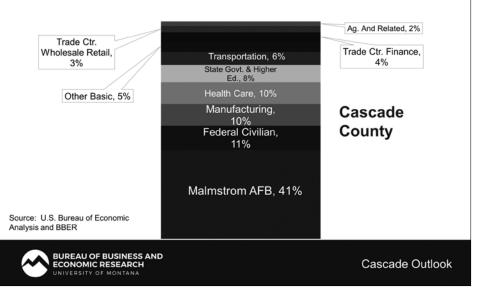
Indicator	Value	State Rank
Total Population, 2016	81,755	5
Percent change since 2010	0.5%	35
Median age	38.0	47
Percent Aged 65 or Older	17.1%	
Percent with Bachelors Degree or Higher (Age 25+)	25.9%	14
Percent without Health Insurance Coverage, 2015	13.5%	43

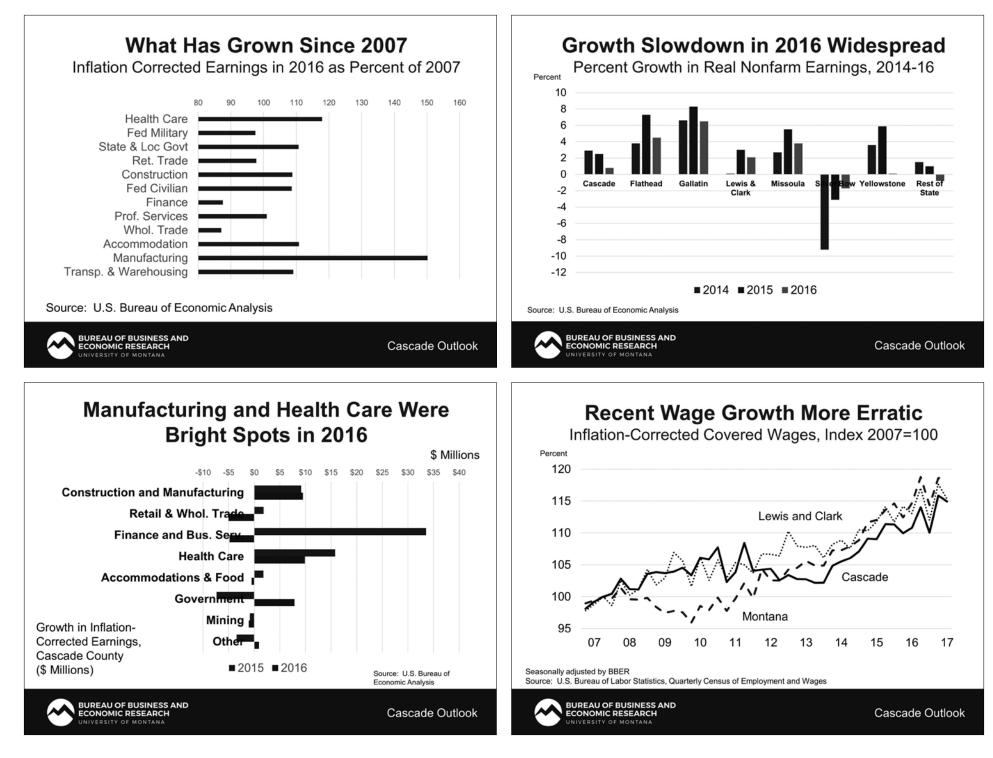
Source: U.S. Census Bureau

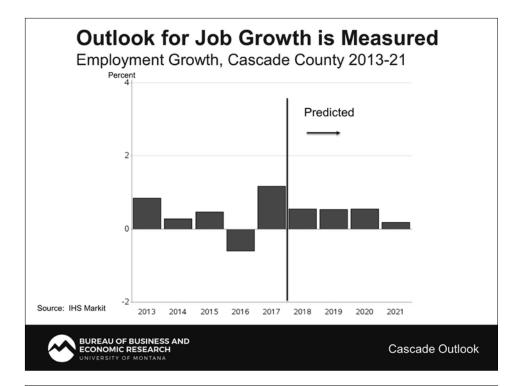
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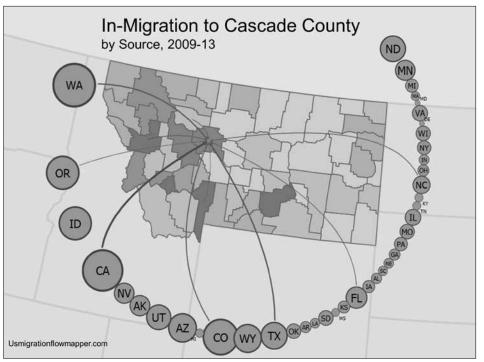
Cascade Outlook

Drivers of Economic Activity







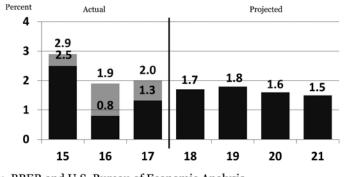


- 2017 was a better year than 2016 for the Cascade County economy
- Manufacturing expansions and commercial construction are the bright spots
- · Setbacks for farmers and ranchers have been felt
- · Medicaid expansion has helped health care
- · Stage is set for improved growth

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Growth in Nonfarm Earnings, Cascade County, 2015-2021



Source: BBER and U.S. Bureau of Economic Analysis



Cascade Outlook

Cascade Outlook

64

The Outlook for Fergus County

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



2018 Fergus Outlook

Fergus County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$36,816	31
Construction	\$64,096	4
Manufacturing	\$46,266	9
Retail Trade	\$30,539	19
Transportation and Warehousing	\$39,450	25

Source: U.S. Bureau of Economic Analysis



2018 Fergus Outlook

Fergus County Profile

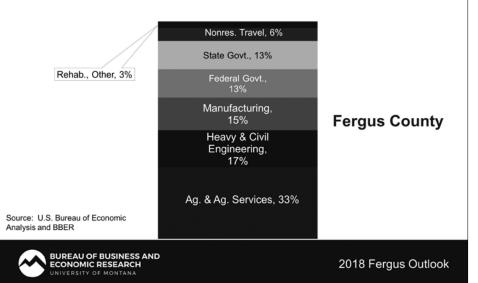
Indicator	Value	State Rank
Total Population, 2016	11,413	19
Percent change since 2010	-1.5%	45
Median age	46.9	24
Percent Aged 65 or Older	22.7%	
Percent with Bachelors Degree or Higher (Age 25+)	28.6%	11
Percent without Health Insurance Coverage, 2015	14.4%	46

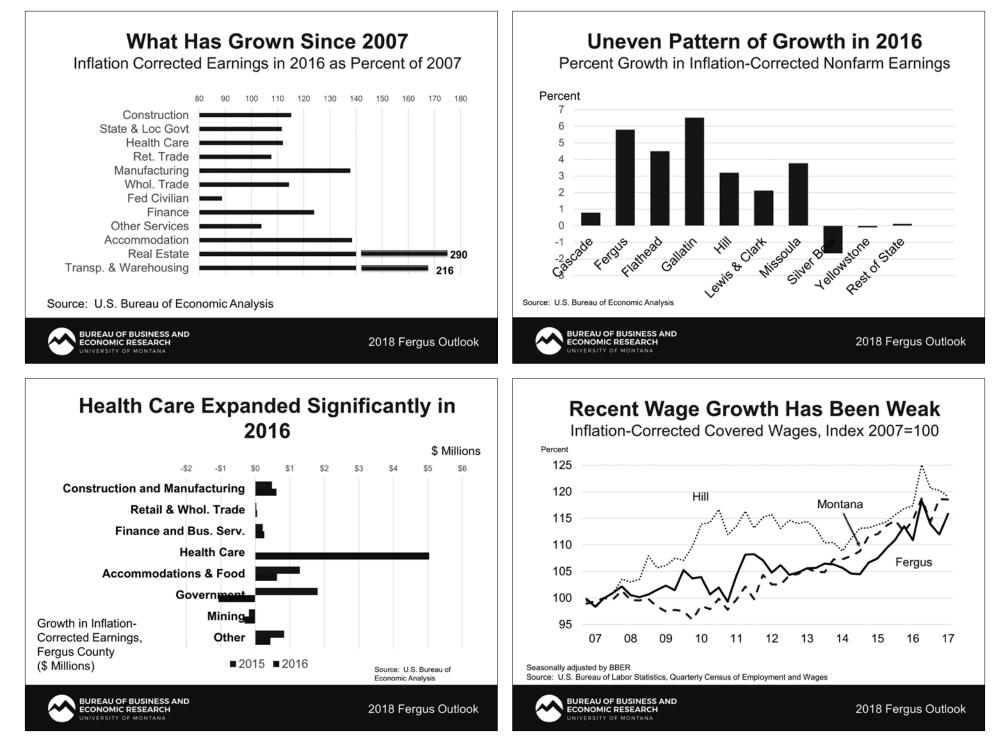
Source: U.S. Census Bureau

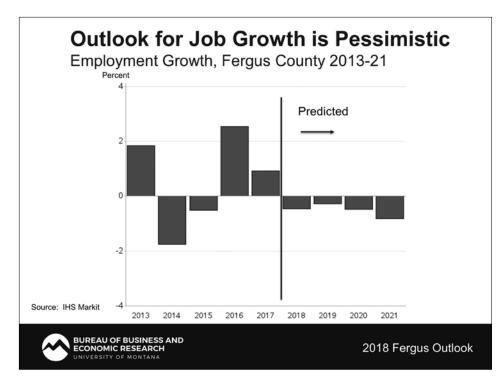
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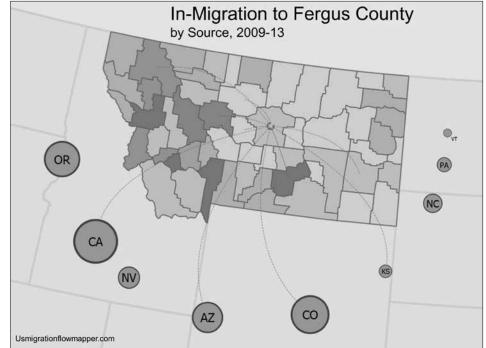
2018 Fergus Outlook

Drivers of Economic Activity



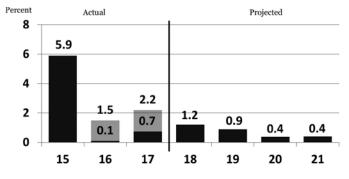






- · Growth has picked up significantly beginning in 2015
- Manufacturing expansion, continued growth in heavy construction have led the way
- Recent success in visitor spending registering in the data
- Retail trade impacted by e-commerce competitors
- · Stage is set for continued growth





Source: BBER and U.S. Bureau of Economic Analysis



2018 Fergus Outlook



2018 Fergus Outlook

The Outlook for County	Flathead
Patrick M. Barkey, Bureau of Bus. & Ecor	Director n. Research
BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA	2018 Flathead Outlook

Flathead County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$41,352	18
Mining	\$27,385	21
Construction	\$52,786	16
Manufacturing	\$54,874	5
Retail Trade	\$29,905	20
Information	\$39,301	22

Source: U.S. Bureau of Economic Analysis



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2018 Flathead Outlook

Flathead County Profile

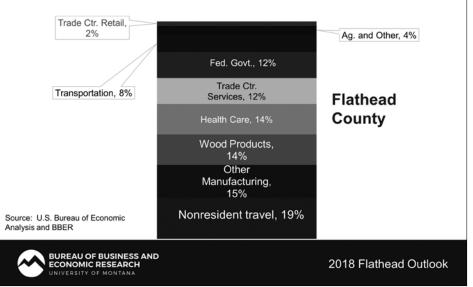
Indicator	Value	State Rank
Total Population, 2016	98,082	4
Percent change since 2010	7.9%	7
Median age	42.1	36
Percent Aged 65 or Older	17.0%	
Percent with Bachelors Degree or Higher (Age 25+)	28.9%	12
Percent without Health Insurance Coverage, 2015	13.5%	43

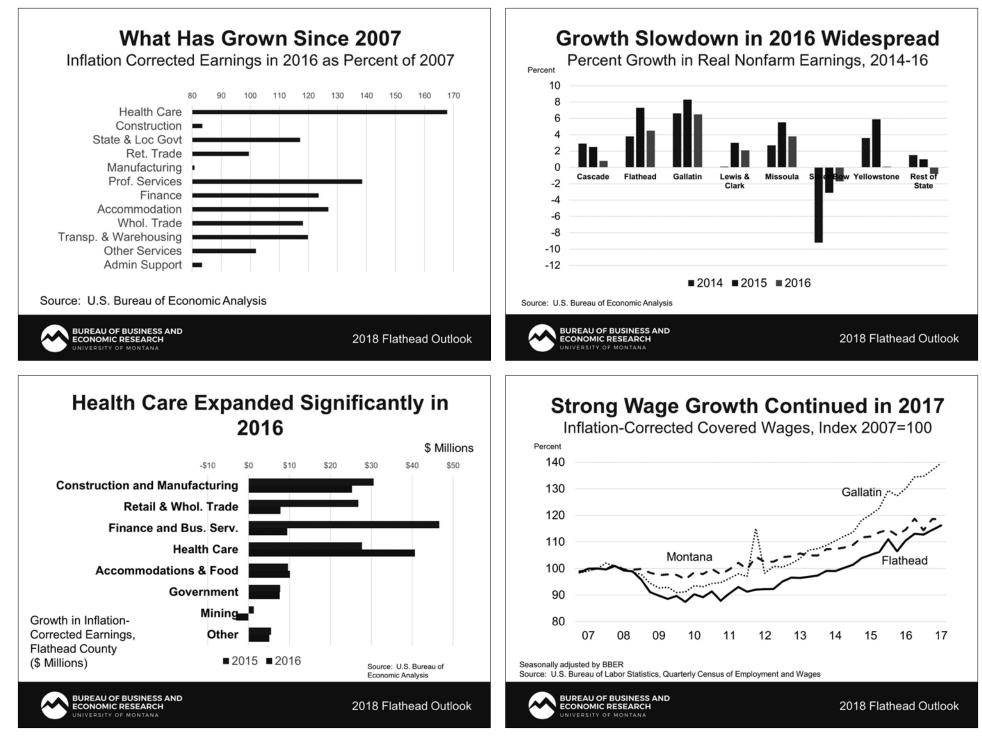
Source: U.S. Census Bureau

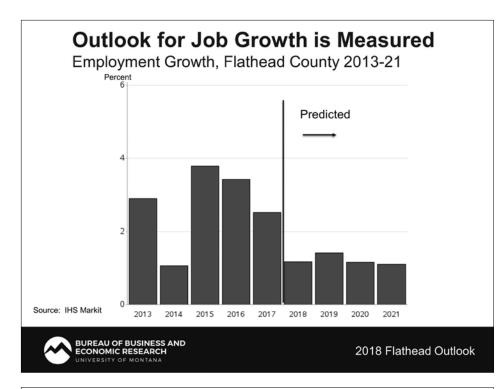
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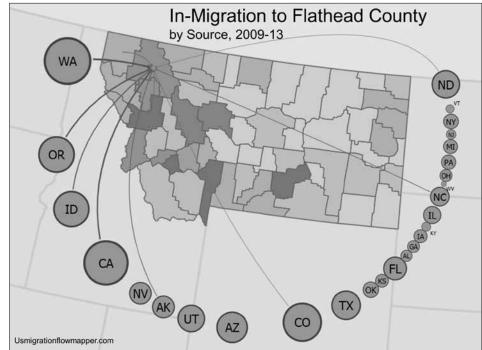
2018 Flathead Outlook

Drivers of Economic Activity









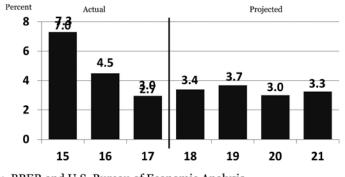
- · Health care expansion fastest in state
- · 2017 was a good year for construction

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- Glacier Park visitation, visitor spending on strong trajectory
- Manufacturing, tech development not as strong as some other parts of the state
- · Favorable conditions for continued strong growth









2018 Flathead Outlook

2018 Flathead Outlook

The Outlook for Gall County	atin
Patrick M. Barkey, Directo Bureau of Bus. & Econ. Rese	or earch
BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA	Gallatin Outlook

Gallatin County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$44,611	9
Construction	\$63,276	5
Manufacturing	\$47,487	8
Retail Trade	\$41,960	5
Information	\$50,781	12

Source: U.S. Bureau of Economic Analysis



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Gallatin Outlook

Gallatin County Profile

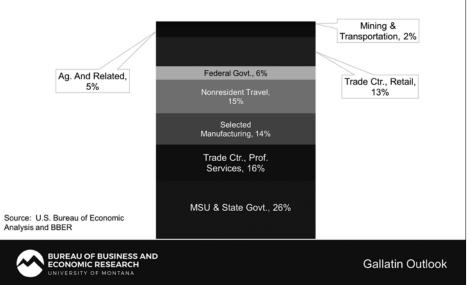
Indicator	Value	State Rank
Total Population, 2016	104,502	3
Percent change since 2010	16.7%	2
Median age	33.2	53
Percent Aged 65 or Older	11.2%	
Percent with Bachelors Degree or Higher (Age 25+)	48.0%	1
Percent without Health Insurance Coverage, 2015	11.2%	53

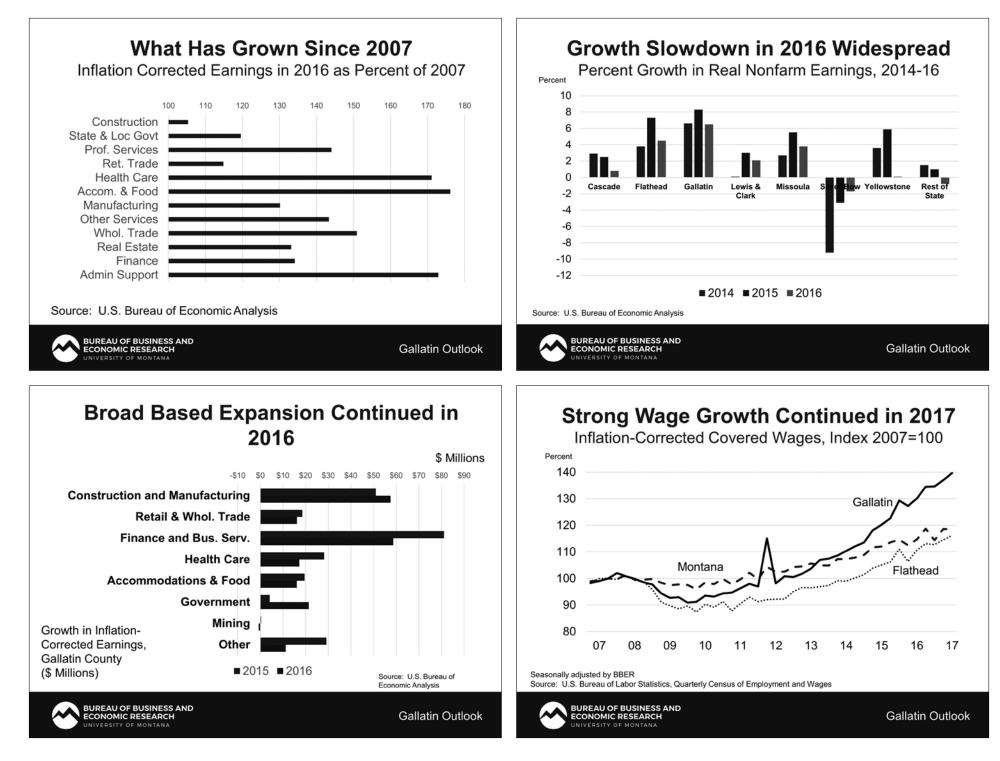
Source: U.S. Census Bureau

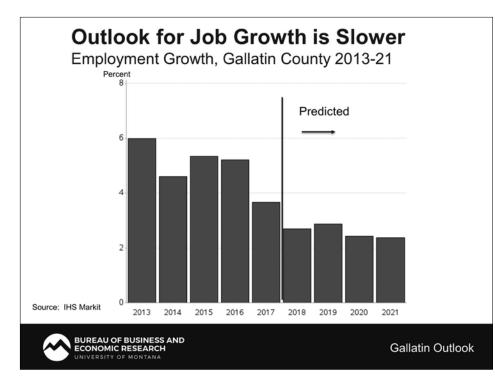
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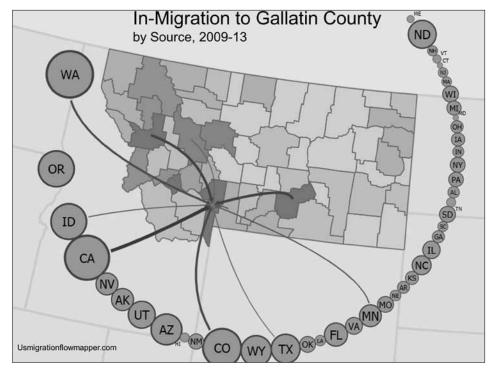
Gallatin Outlook

Drivers of Economic Activity







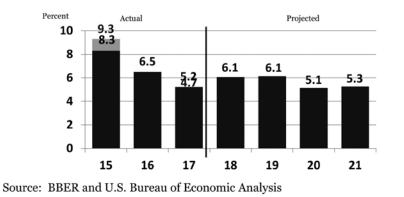


- · Very fast growth continued in 2017
- · Construction footprint is very large
- · Health care hitting its stride
- Manufacturing, tech development spreading beyond Bozeman
- · Very few holes to be found in growth profile
- · Expect strong growth to continue

Growth in Nonfarm Earnings, Gallatin County, 2015-2021

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INIVERSITY OF MONTANA





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Gallatin Outlook

Gallatin Outlook

The Outlook for Hill County

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



Fergus County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$43,455	11
Construction	\$46,945	22
Manufacturing	\$18,528	28
Retail Trade	\$26,422	26
Information	\$68,121	1

Source: U.S. Bureau of Economic Analysis



BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

2018 Hill Outlook

2018 Hill Outlook

Hill County Profile

Indicator	Value	State Rank
Total Population, 2016	16,542	11
Percent change since 2010	2.8%	24
Median age	34.5	51
Percent Aged 65 or Older	13.9%	
Percent with Bachelors Degree or Higher (Age 25+)	23.5%	39
Percent without Health Insurance Coverage, 2015	16.3%	46

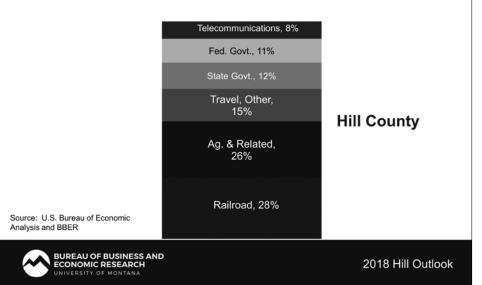
Source: U.S. Census Bureau

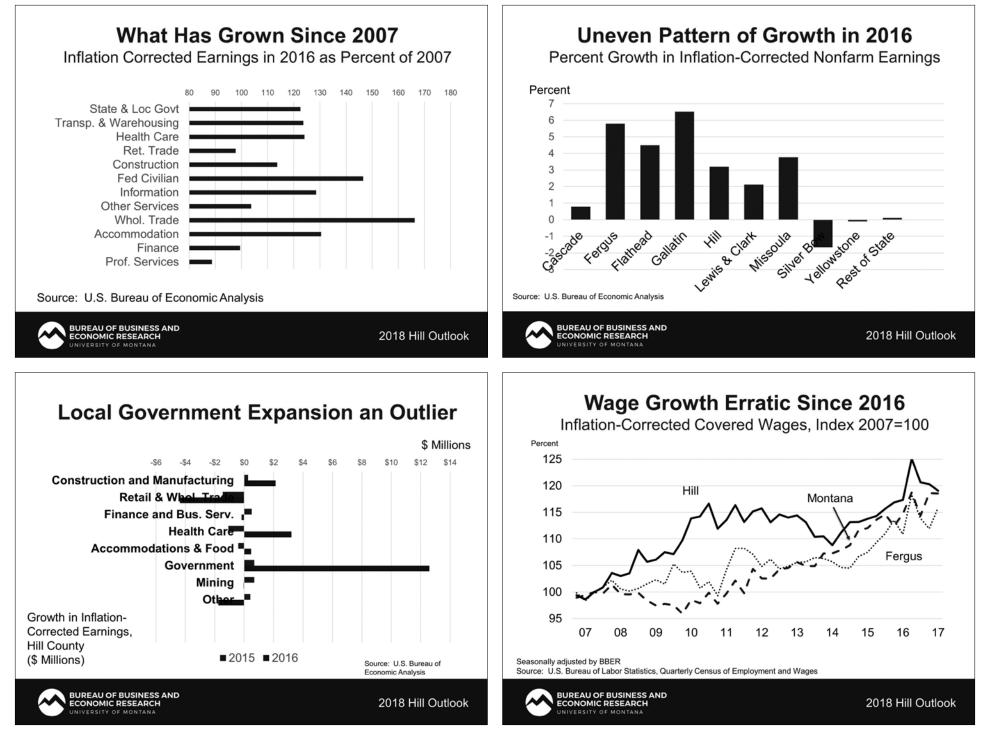
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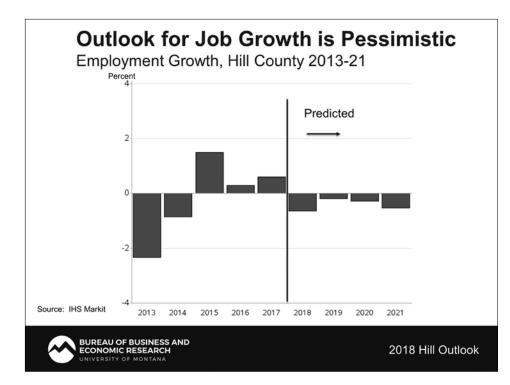
2018 Hill Outlook

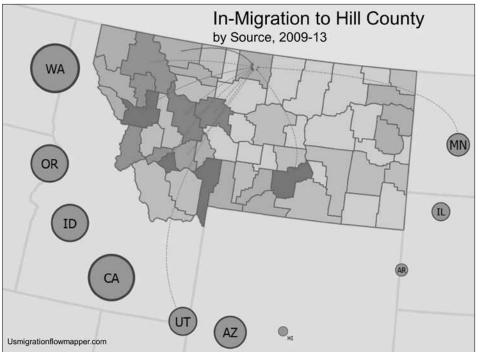
Drivers of Economic Activity

Percent Share of Income in Basic Industries



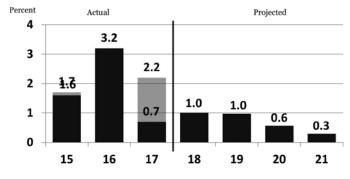






- Government growth offset poor private sector performance in 2016
- Measured recovery in rail freight began in 2017
- Weaker Canadian dollar, e-commerce competition have challenged retail
- · Federal growth is a wild card
- · Sparks for better growth hard to find

Growth in Nonfarm Earnings, Hill County, 2015-2021



Source: BBER and U.S. Bureau of Economic Analysis



2018 Hill Outlook



BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

2018 Hill Outlook

The Outlook for Lewis and Clark County

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



2018 Lewis and Clark Outlook

Lewis and Clark County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$47,952	6
Construction	\$52,419	17
Manufacturing	\$48,751	7
Retail Trade	\$29,184	23
Transportation and Warehousing	\$44,623	19
Information	\$51,940	10

Source: U.S. Bureau of Economic Analysis



2018 Lewis and Clark Outlook

Lewis and Clark County Profile

Indicator	Value	State Rank
Total Population, 2016	67,682	6
Percent change since 2010	6.1%	12
Median age	41.2	40
Percent Aged 65 or Older	16.1%	
Percent with Bachelors Degree or Higher (Age 25+)	37.5%	7
Percent without Health Insurance Coverage, 2015	10.6%	55

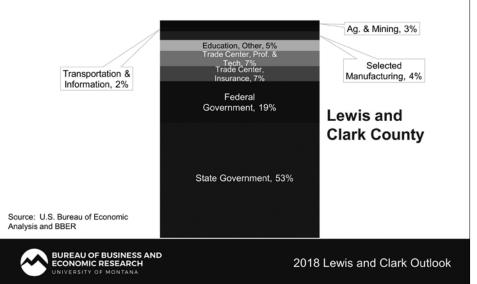
Source: U.S. Census Bureau

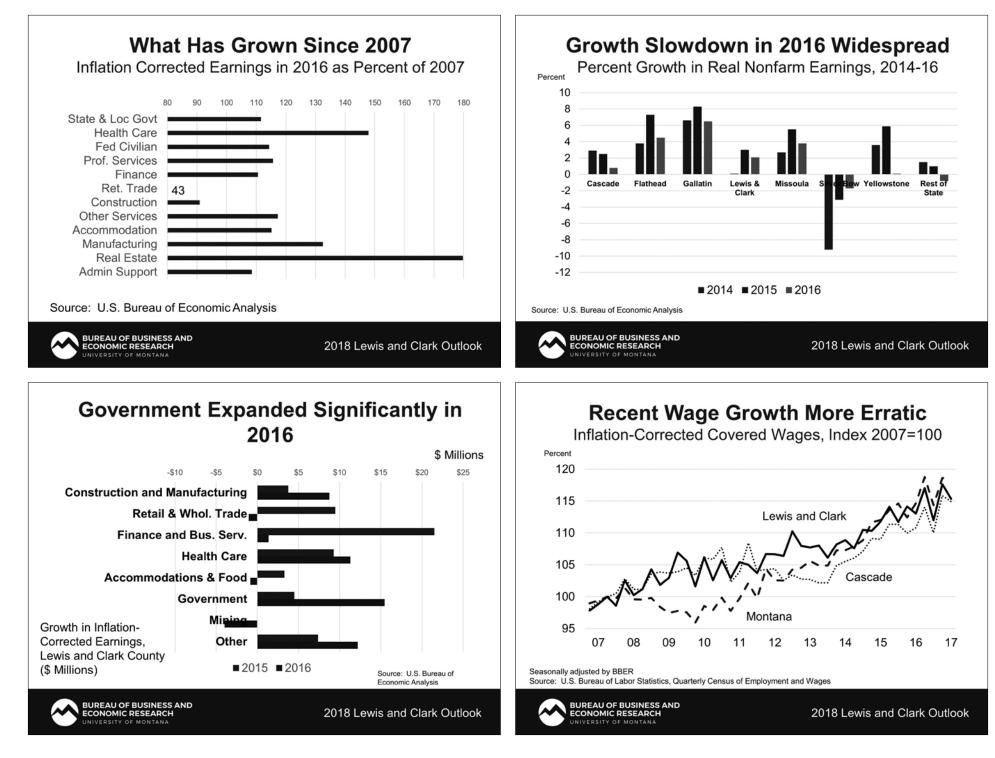
BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

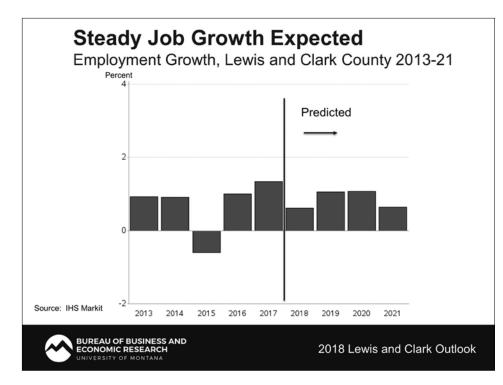
2018 Lewis and Clark Outlook

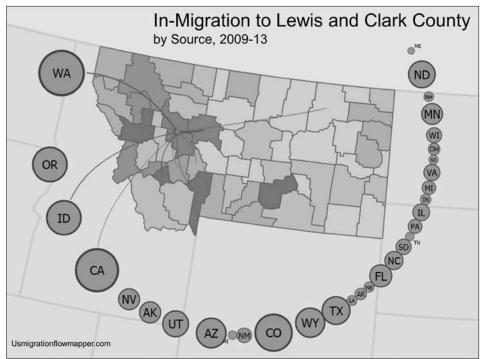
Drivers of Economic Activity

Percent Share of Income in Basic Industries



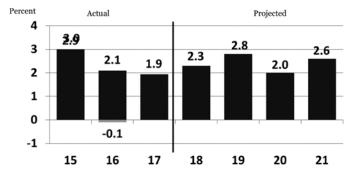






- A struggle to hit faster growth mark
- · Growth hinges on growth in state government
- · Construction flying under the radar to perform well
- · Visitor based businesses performing well
- · Professional sectors underperforming
- · State spending will restrain future growth

Growth in Nonfarm Earnings, Lewis and Clark County, 2015-2021



Source: BBER and U.S. Bureau of Economic Analysis



2018 Lewis and Clark Outlook



2018 Lewis and Clark Outlook

The Outlook for Missoula and Ravalli Counties

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



2018 Missoula and Ravalli Outlook

Missoula County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$43,410	9
Construction	\$54,660	13
Manufacturing	\$43,388	12
Retail Trade	\$31,501	17
Transportation and Warehousing	\$57,028	13
Information	\$54,112	9

Source: U.S. Bureau of Economic Analysis



2018 Missoula and Ravalli Outlook

Missoula County Profile

Indicator	Value	State Rank
Total Population, 2016	116,130	2
Percent change since 2010	6.2%	11
Median age	35.3	50
Percent Aged 65 or Older	13.6%	
Percent with Bachelors Degree or Higher (Age 25+)	41.8%	2
Percent without Health Insurance Coverage, 2015	12.1%	48

Source: U.S. Census Bureau



2018 Missoula and Ravalli Outlook

Ravalli County Profile

Indicator	Value	State Rank
Total Population, 2016	42,088	7
Percent change since 2010	4.7%	13
Median age	48.1	18
Percent Aged 65 or Older	22.8%	
Percent with Bachelors Degree or Higher (Age 25+)	25.8%	16
Percent without Health Insurance Coverage, 2015	19.3%	12

Source: U.S. Census Bureau

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2018 Missoula and Ravalli Outlook

Ravalli County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$31,020	46
Construction	\$43,445	29
Manufacturing	\$33,139	15
Retail Trade	\$20,889	43
Information	\$26,500	30

Drivers of Economic Activity

Percent Share of Income in Basic Industries

Source: U.S. Bureau of Economic Analysis

Other, 8%

BUREAU OF BUSINESS AND

ECONOMIC RESEARCH

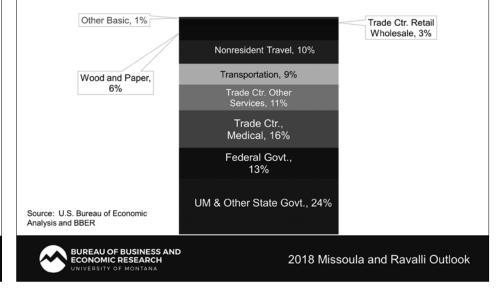
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2018 Missoula and Ravalli Outlook

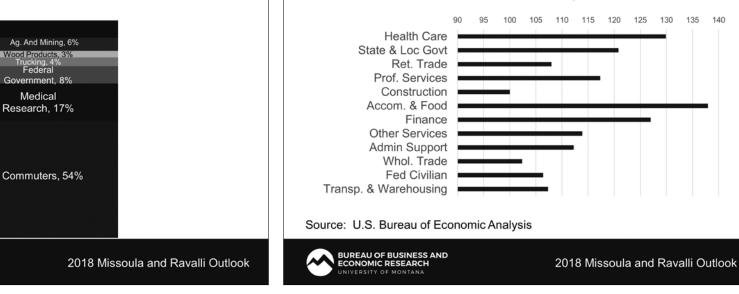
Drivers of Economic Activity

Percent Share of Income in Basic Industries



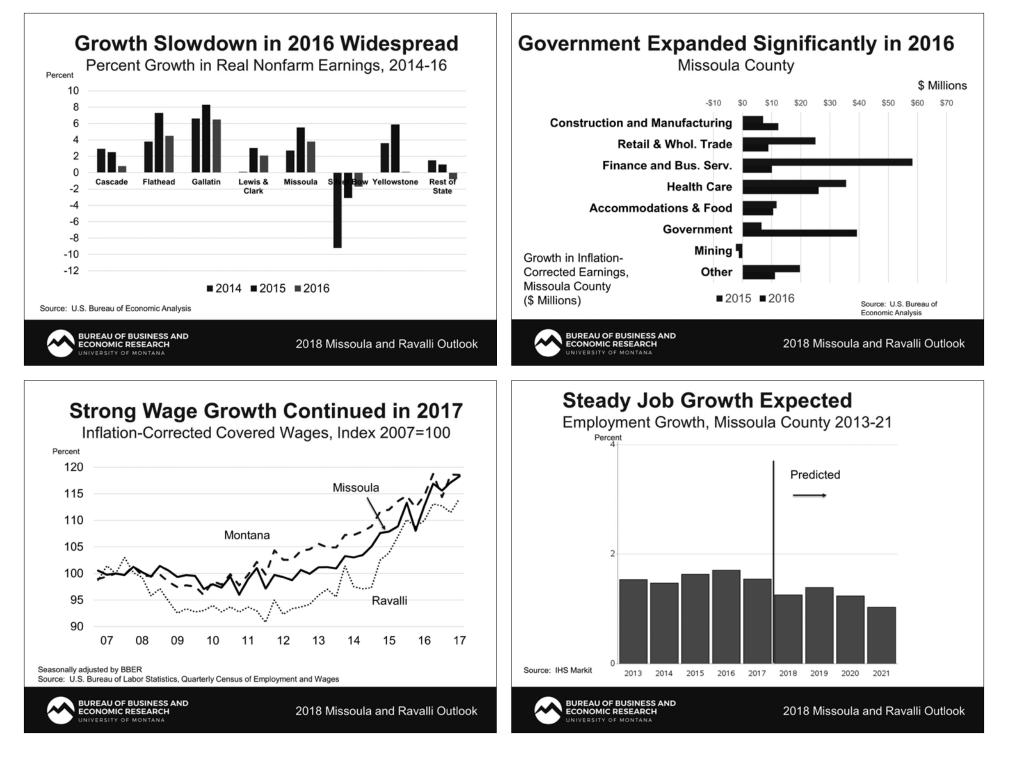
What Has Grown Since 2007

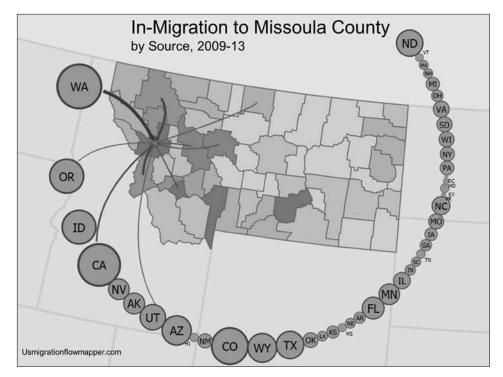
Inflation Corrected Earnings in 2016 as Percent of 2007 Missoula County

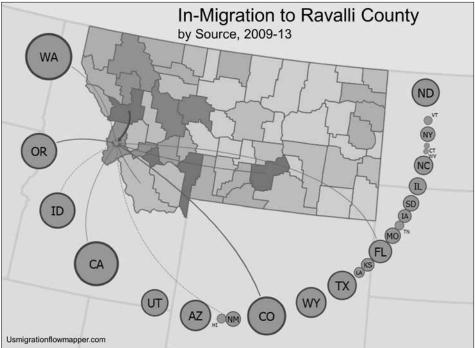


Source: U.S. Bureau of Economic

Analysis and BBER

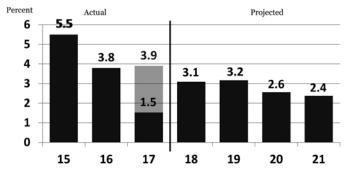






- · Missoula's recent growth edging closer to state leaders
- Commercial construction, health care expanding are they sustainable?
- · UM's woes have not yet registered in the data
- · Tech development is moving to the forefront
- Growth will be challenged by UM, fallback in construction activity

Growth in Nonfarm Earnings, Missoula County, 2015-2021

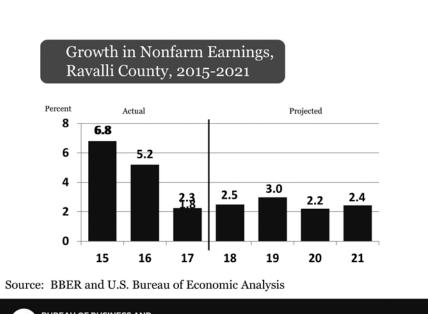


Source: BBER and U.S. Bureau of Economic Analysis



2018 Missoula and Ravalli Outlook







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2018 Missoula and Ravalli Outlook

The Outlook for Silver Bow County and Southwestern Montana

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



2018 Silver Bow Outlook

Silver Bow County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$52,912	2
Mining	\$279,392	1
Construction	\$45,244	26
Manufacturing	\$61,243	3
Retail Trade	\$49,945	3
Information	\$42,429	18

Source: U.S. Bureau of Economic Analysis



2018 Silver Bow Outlook

Silver Bow County Profile

Indicator	Value	State Rank
Total Population, 2016	34,553	8
Percent change since 2010	1.0%	33
Median age	40.7	42
Percent Aged 65 or Older	17.1%	
Percent with Bachelors Degree or Higher (Age 25+)	25.9%	14
Percent without Health Insurance Coverage, 2015	12.5%	47

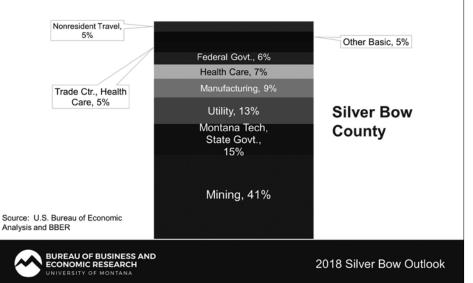
Source: U.S. Census Bureau

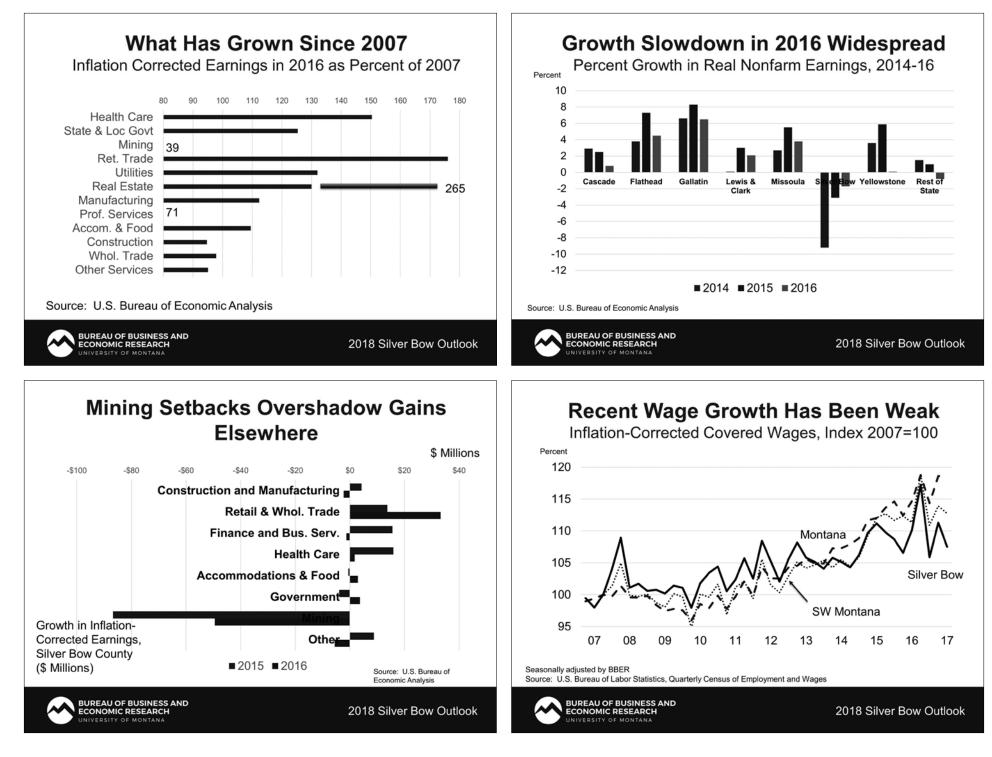
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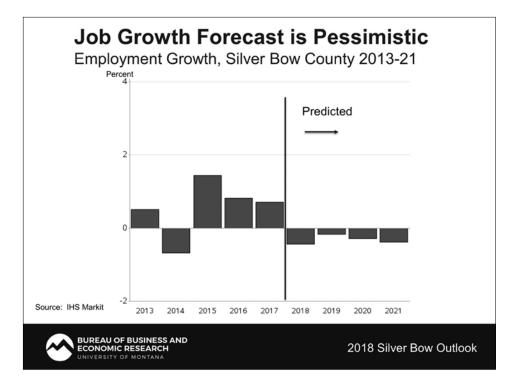
2018 Silver Bow Outlook

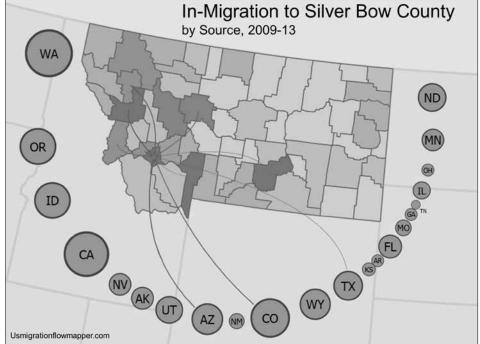
Drivers of Economic Activity

Percent Share of Income in Basic Industries



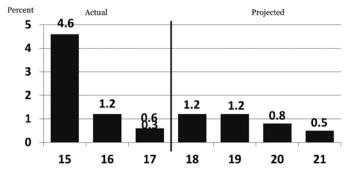






- · Worst of the commodity price bust appears to be over
- Employment is up by 50 percent since the low point of the early 1990s
- Recent success in visitor spending registering in the data
- Weaknesses in health care, construction stand out
- · Continued slow growth is expected

Growth in Nonfarm Earnings, Southwestern Montana, 2015-2021



Source: BBER and U.S. Bureau of Economic Analysis

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2018 Silver Bow Outlook

2018 Silver Bow Outlook

The Outlook for Yellowstone County

Patrick M. Barkey, Director Bureau of Bus. & Econ. Research



2018 Yellowstone Outlook

Yellowstone County Profile

Indicator	Value	State Rank
Earnings per Job, 2016	\$52,721	3
Mining	\$163,824	2
Utilities	\$115,482	7
Construction	\$64,327	3
Manufacturing	\$86,180	1
Retail Trade	\$32,300	13
Transportation and Warehousing	\$63,097	9

Source: U.S. Bureau of Economic Analysis



2018 Yellowstone Outlook

Yellowstone County Profile

Indicator	Value	State Rank
Total Population, 2016	158,437	1
Percent change since 2010	7.1%	10
Median age	38.2	46
Percent Aged 65 or Older	15.4%	
Percent with Bachelors Degree or Higher (Age 25+)	29.2%	8
Percent without Health Insurance Coverage, 2015	12.4%	46

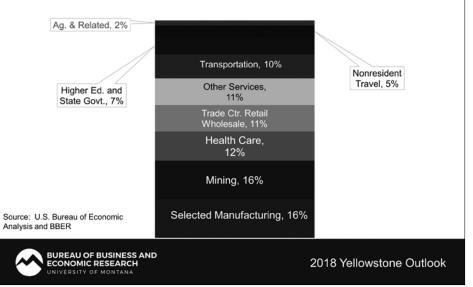
Source: U.S. Census Bureau

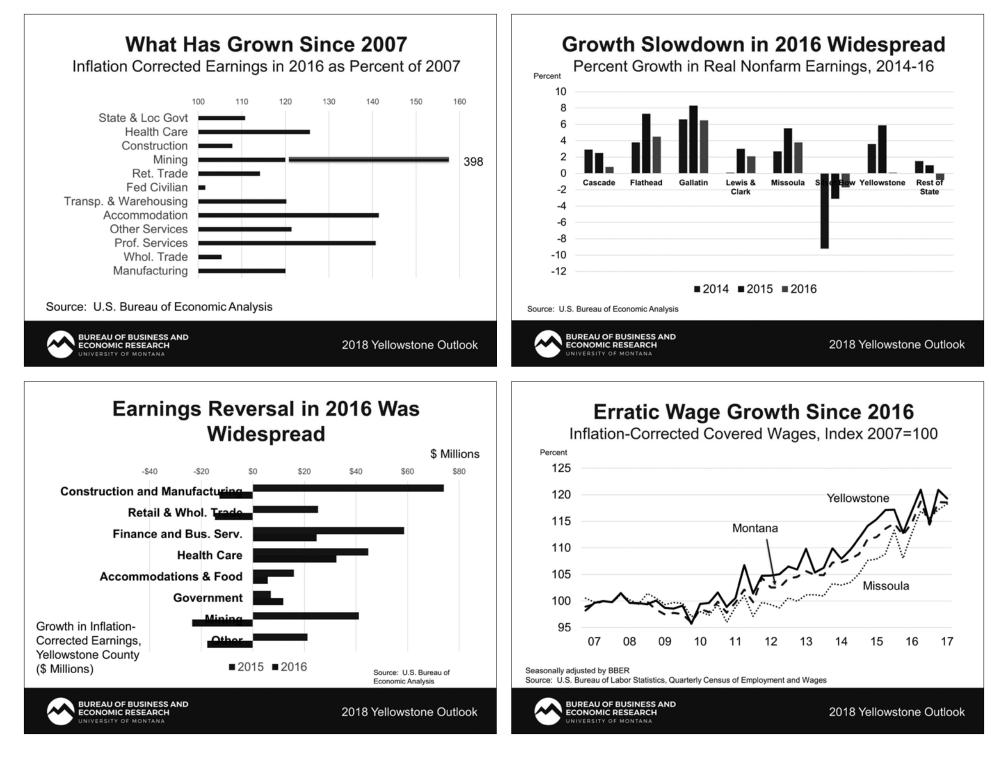
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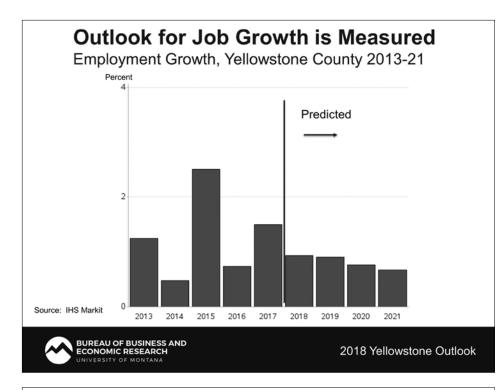
2018 Yellowstone Outlook

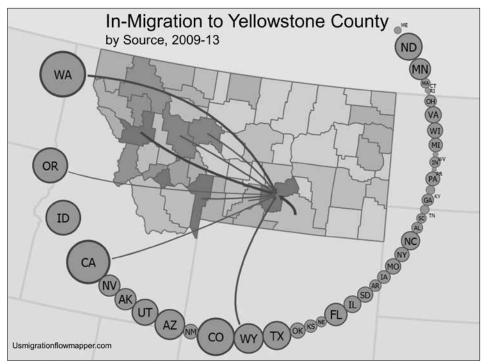
Drivers of Economic Activity

Percent Share of Income in Basic Industries



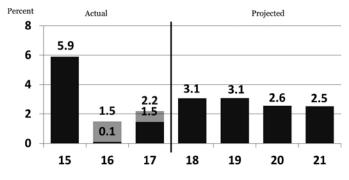






- · 2016 not quite as bad as earnings data suggest
- Construction, manufacturing did better in 2017
- Energy and agriculture woes in a four state area being felt in Billings
- · Consolidation and uncertainty ahead for health care
- Growth not likely to exceed state average in years ahead

Growth in Nonfarm Earnings, Yellowstone County, 2015-2021



Source: BBER and U.S. Bureau of Economic Analysis



2018 Yellowstone Outlook

2018 Yellowstone Outlook

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VERSITY OF MONTANA

2018 ECONOMIC OUTLOOK SEMINAR FEB 6, 2018

Local Report: Kalispell, MT



DOWNTOWN

2017 Openings

Herberger's, 40,000 sq. ft. addition Montana Coffee Traders, 8,000 sq. ft. Blue Samurai Sushi Bar & Grill Noble Dance The Montana Scene Fuel Fitness Rival's Sports Bar 2018 Openings Bias Brewing Fresh Life, 16,000 sq. ft. Sunrift Beer Company Vilya Spirits Scottibelli's First American Title

Mudman Burgers



DOWNTOWN



RETAIL & RESTAURANTS

2017 Openings

Brass Taps Costa Vida Hobby Lobby Homegoods Staggering Ox McDonald's Kalispell Ford

2018 Openings

Harbor Freight Green Nissan Green Hyundai Whitefish Credit Union, Columbia Falls REI MOD Pizza Panera Bread Kobe Japanese Steak House Kay Jewelers T-Mobile



RETAIL & RESTAURANTS





INDUSTRIAL

Glacier Rail Park

40 acre property off Whitefish Stage Road \$11 million construction by LHC, \$10m T.I.G.E.R. Grant Relocating CHS and Northwest Drywall Will remove railroad tracks through downtown Kalispell, add linear trail from Woodland Park and develop new connector streets.

U.S. Optics

Leading company in firearm optics industry. Relocated from Southern California to Kalispell in September 2017.



INDUSTRIAL



EDUCATION & COMMUNITY

2017 Openings

Flathead Valley Community College Student Housing – 124 beds, \$7.8m Legends Field Bigfork High School - \$13m Glacier Park International Airport parking expansion – 224 new spaces, \$1m Flathead County Detention Center – 36 new beds, \$1.8m Whitefish City Hall and Parking, \$16m Kidsports, Phase 1

2018 Openings

Rankin Elementary School, \$15m Flathead County Fairgrounds update



EDUCATION & COMMUNITY



HOSPITALITY

2016 Openings

Marriott Springhill Suites, Kalispell Firebrand, Whitefish Hampton Inn & Suites, Whitefish Cedar Creek Lodge, Columbia Falls

2018 Openings Marriott Towneplace, Whitefish Country Inn & Suites, Kalispell



COUNTRY INN & SUITES

Location: Glacier Park International Airport Est. Completion: June 2018 Size: 62,000 sq. ft – 100 rooms Est. Cost: \$5+ million Also includes pads for restaurant & convenience store





MARRIOTT TOWNEPLACE

Location: Whitefish Est. Completion: Summer 2018 Size: 63,171 sq. ft – 81 rooms Est. Cost: \$7.3



HEALTH CARE

2017 Openings

Glacier View Professional Building Immanuel Lutheran Communities Retreat at Buffalo Hill, \$4m Immanuel Lutheran Communities Memory Lodge at Buffalo Hill, \$6.7

2018 Openings

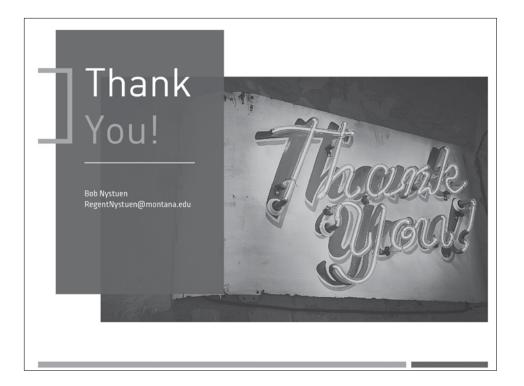
Kalispell Regional Medical Center Emergency Room, \$14m Montana Children's Medical Center, \$37.8m Digestive Health Institute of Montana \$12.9m Immanuel Lutheran Communities Villas at Buffalo Hill, \$14.5 Immanuel Lutheran Communities Skilled Care Center, \$3.2



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BNSF: We're Moving Montana's Economy

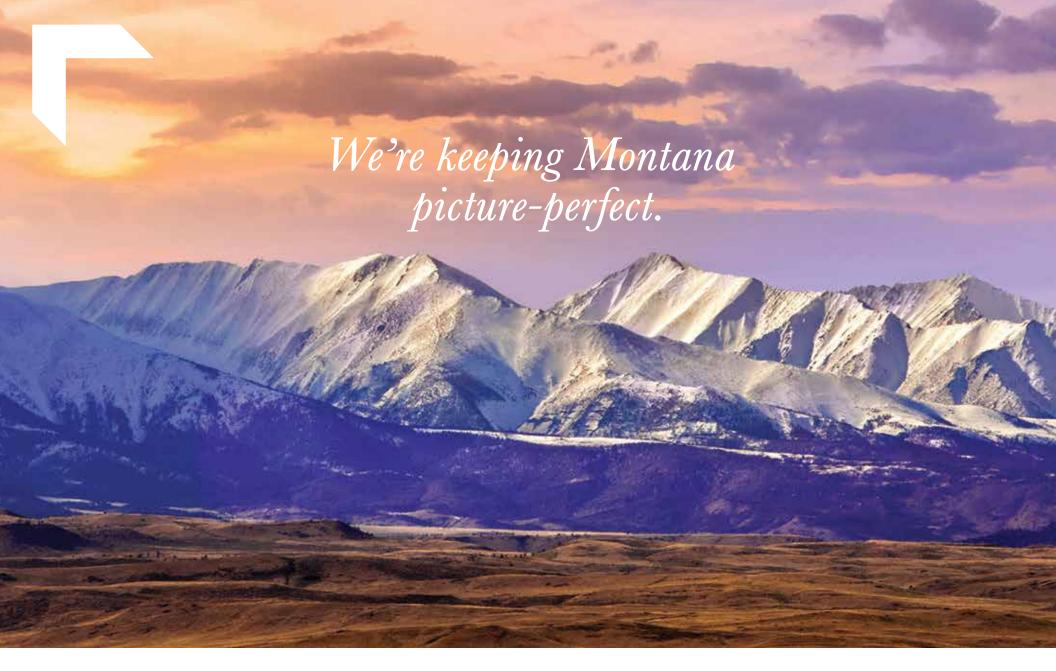
For more than a century, BNSF Railway has played an important role in Montana's economy. As the state's primary freight rail transporter, BNSF's 32,500-mile network links Montana's agricultural and energy industries to domestic and international markets. BNSF handles nearly 1.9 million carloads of freight in Montana annually.

Since 2013, BNSF has been instrumental in locating 30 new or expanded facilities in Montana, creating nearly 200 jobs and \$200 million in investments. Projects include the Port of Northern Montana in Shelby, Terracor Logistics in Bainville, and Columbia Grain in Sweetgrass.

Supporting BNSF's rail network in Montana are nearly 2,500 dedicated men and women who earn a combined payroll of nearly \$195 million.

The BNSF Foundation has contributed more than \$3.2 million in donations to Montana charities since 2010.





NorthWestern Energy has invested more than \$1 billion in providing 60 percent of Montana's energy through renewable resources like wind and water. This major investment is part of our ongoing commitment to responsibly power our homes and businesses, protect our environment, and keep our state beautiful now and for future generations. Connect With Us: 📃 🔍 🗗 🖸 🞯 in 💟





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