2021 ECONOMIC OUTLOOK SEMINAR

TIE PATE HOW COVID-19 HAS RESHAPED THE ECONOMY

BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

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 bbermail@business.umt.edu if we can be of any help to you or your business.

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WELCOME TO THE 2021 ECONOMIC OUTLOOK SEMINAR

MONTANA AFTER THE PANDEMIC

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MONTANA OUTLOOK

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HI-TECH & STARTUPS

Christina Quick Henderson Executive Director Montana High Tech Business Alliance

REAL ESTATE

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Brandon Bridge, Director of Forecasting Bureau of Business and Economic Research University of Montana

LOCAL ECONOMIC OUTLOOKS

Patrick Barkey, Director Bureau of Business and Economic Research University of Montana

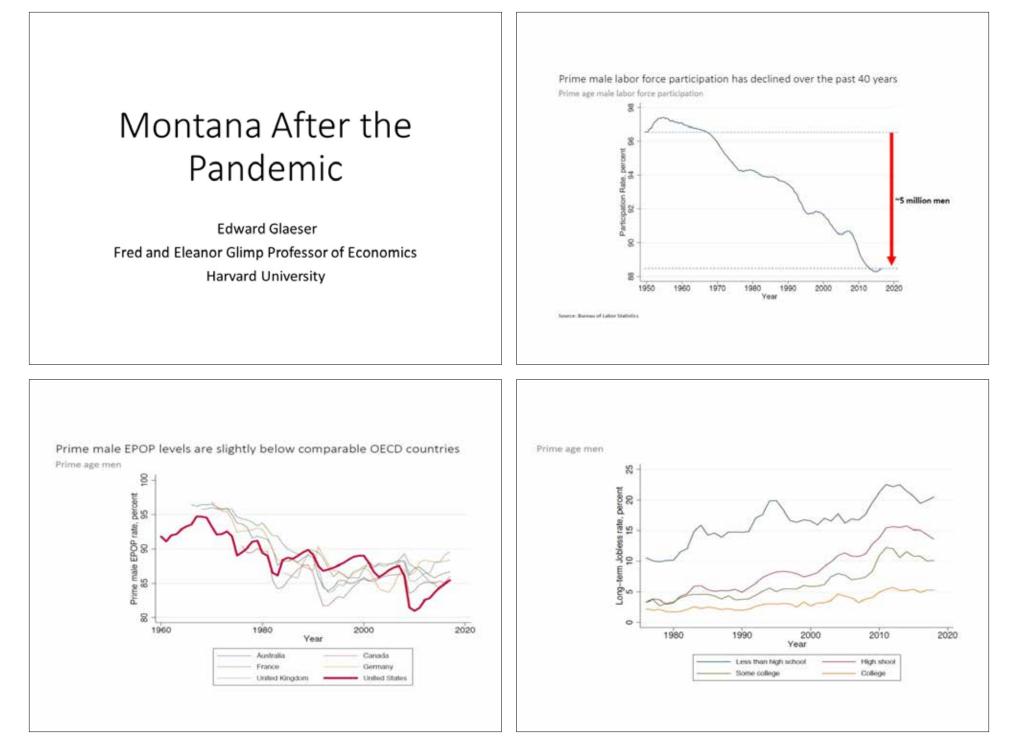
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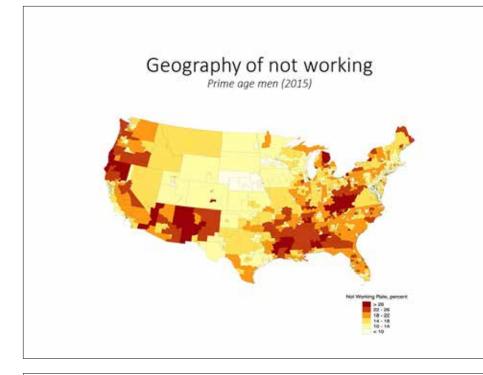
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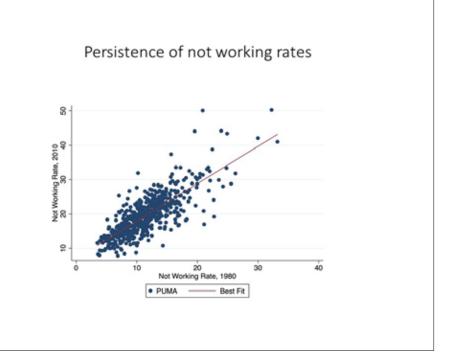
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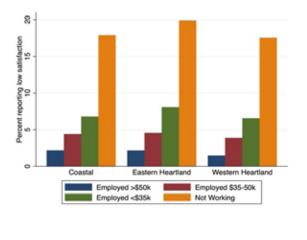
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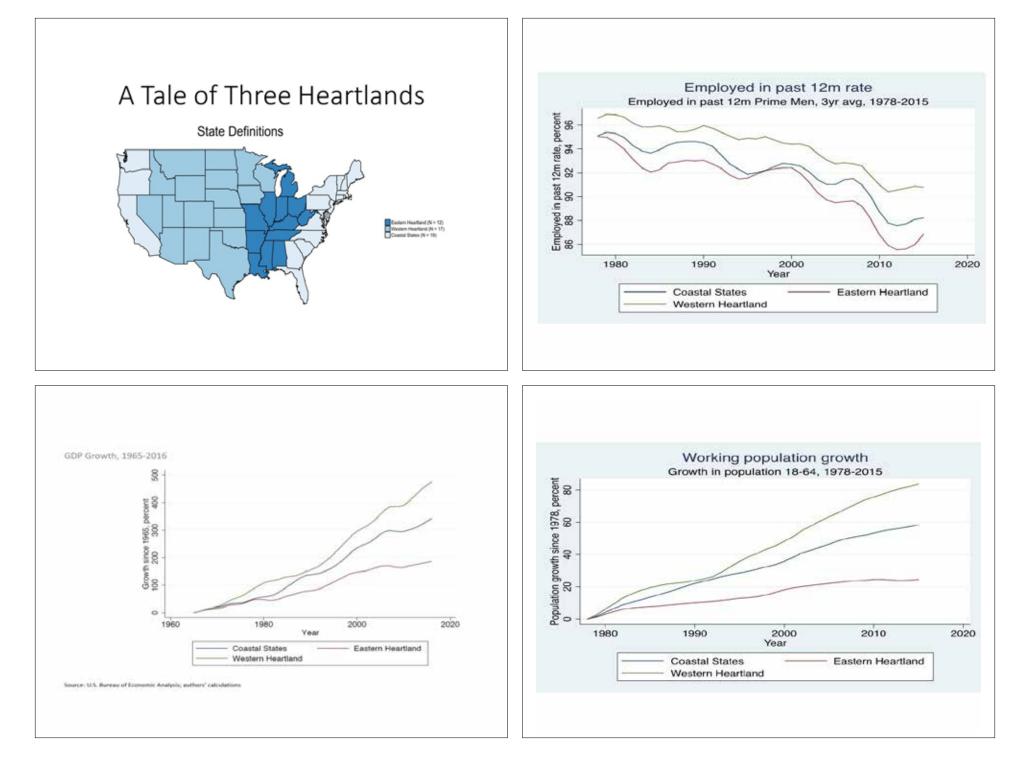
Low life satisfaction of not working men



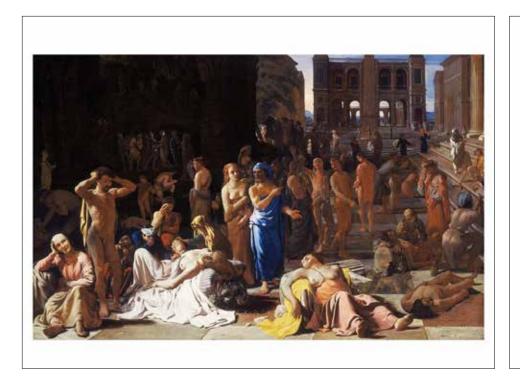
Improvements in leisure (TV, video games) may be linked to decreasing employment Prime age men reported disability rates, 2015

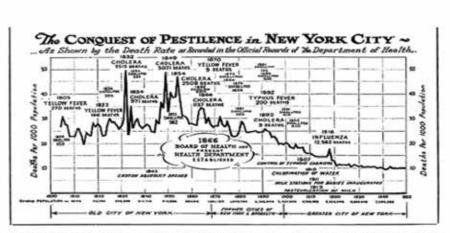
Table 9. Time Use by Prime Age Men, 2003-16*

		Employed	E:	Not working			
Activity	Coasts	Eastern heartland	Western heartland	Coasts	Eastern heartland	Western heartland	
Personal care	530	529	529	598	604	587	
Household activities	74	83	75	115	114	122	
Food preparation	76	73	76	67	62	62	
Caring for others	41	42	41	56	51	53	
Working	392	382	401	33	28	32	
Searching for work	1	1	1	21	16	21	
Education	6	5	6	35	22	38	
Leisure	257	262	248	450	481	449	
Socializing	36	37	34	51	57	56	
Watching TV	137	142	133	258	303	269	
Computer use*	17	17	17	41	34	37	
No. of observations	19,213	9,738	10,258	2,590	1,480	1,068	



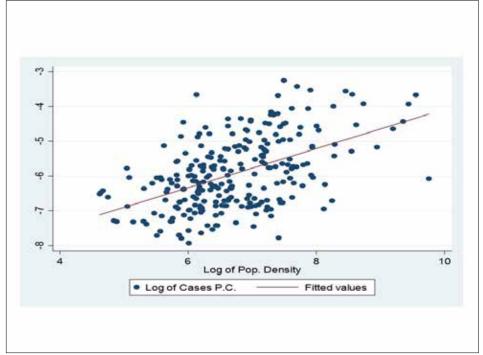


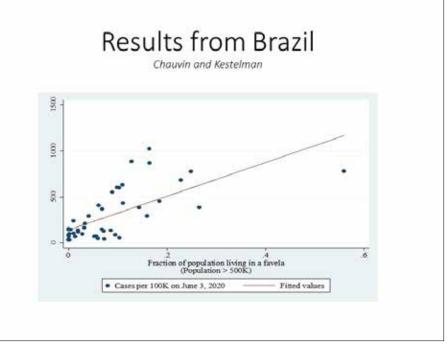


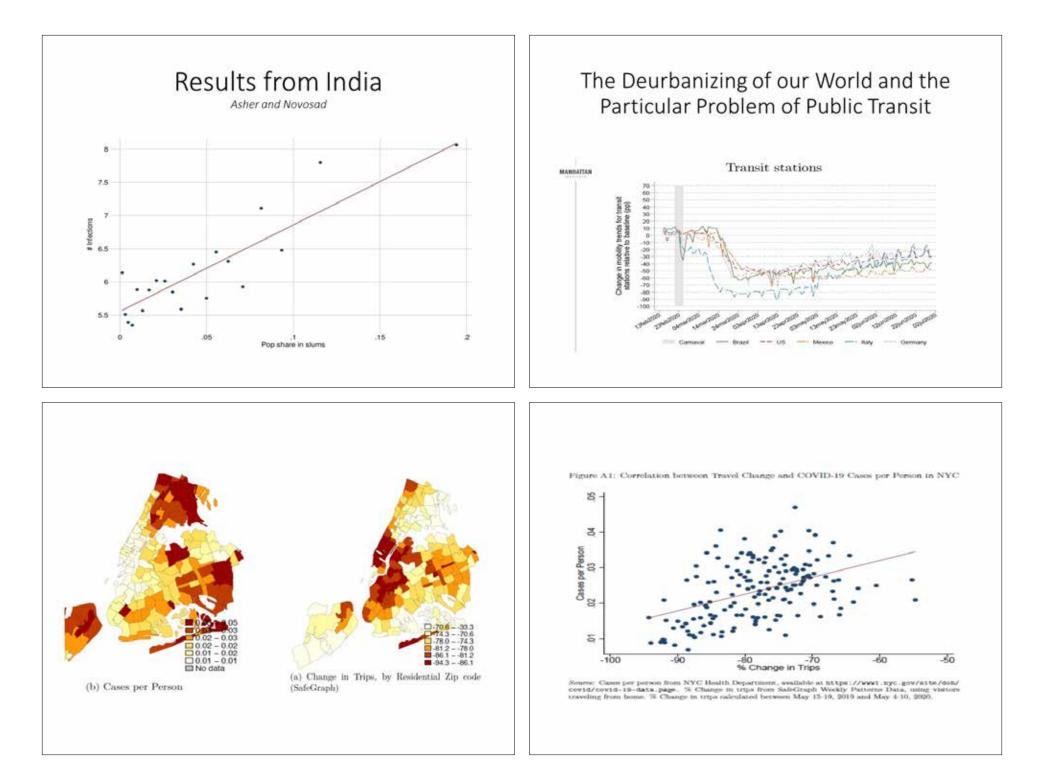


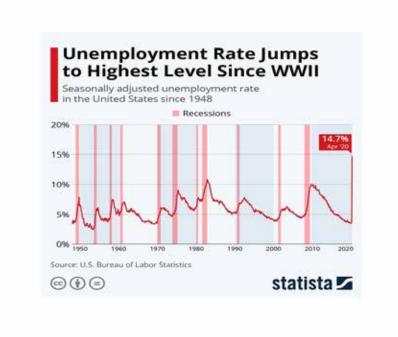
New York City's Department of Health shows the timeline of the city's mortality rate, which sharply dropped with the provision of clean water in the nineteenth century.

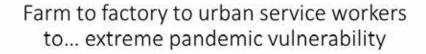
New York City Department of Health and Mental Hygiene

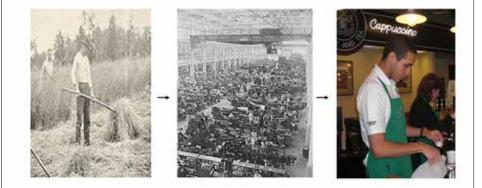


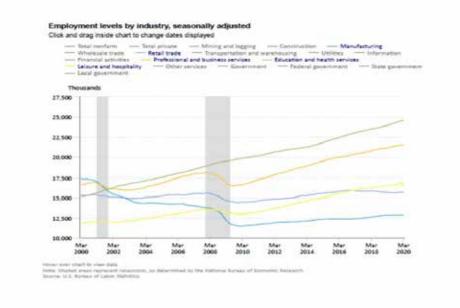








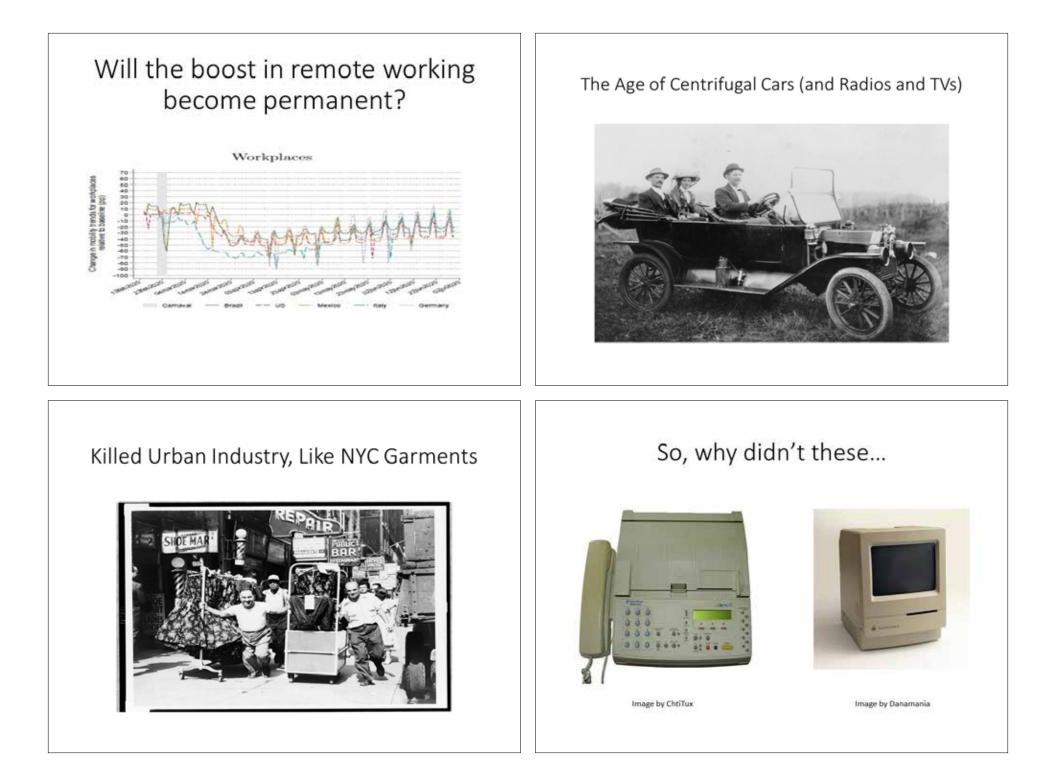




Closure Rates by Industry

(circa April 1, 2020)

	Currently Closed		Exp Closed December		Weeks COVID Will Last		Current v Jan Employment	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
	F	anel A	Raw D	ata				
All Retailers, except Grocery	0.53	0.50	0.45	0.50	14.1	9.5	0.49	0.42
Arts and entertainment	0,70	0.46	0.42	0.49	17.5	11.3	0,40	0.46
Banking/finance	0.19	0.39	0.25	0.43	16.1	10.9	0.81	0.33
Construction	0.32	0.47	0.38	0.49	14.3	10.3	0.66	0.40
Health care	0.45	0.50	0.29	0.45	15.1	10.4	0.69	0.37
Other.	0.39	0.49	0.35	0.48	16.6	11.2	0.70	0.41
Personal Services	0.86	0.34	0.39	0.49	11.8	8.3	0.35	0.40
Professional Services	0.21	0.41	0.29	0.45	15.7	10.6	0.80	0.41
Real Estate	0.37	0.48	0.30	0.46	15.8	11.4	0,70	0.41
Restaurant/Bar/Catering	0.56	0.50	0.52	0.50	13.1	8.7	0.24	0.37
Tourism/Lodging	0.61	0.49	0.45	0.50	16.2	10.0	0.30	0.35
Total	0.45	0.50	0.37	0.48	15.5	10.6	0.58	0.44
N	4413	(*)	3953	2.00	4000		3935	



...Kill finance and urban information industries?





Image by Runner1928

Will remote working become permanent?

May 2020	Total Civilian Population	Unable to Work Due to Pandemic (Closure or Lost Business)		Total Employed Population	Teleworking Due to Pandemic	
			Number Percent		Number	Percent
Total, 25 years and over	222,559	41,616	18.7	123,109	45,989	37.4
Less than a high school diploma	19,607	3,941	20.1	6,887	365	5.2
High school graduates, no college ³	61,403	12.025	19.6	28,708	4,379	15.3
Some college or associate degree	57,510	12,235	21.3	31,581	7,928	25.1
Bachelor's degree and higher ⁴	84,038	13,416	16.0	55,933	33,327	59.6
Bachelor's degree only	51,890	9,011	17.4	33,778	18,069	53.5
Advanced Degree	32,148	4,405	13.7	22,155	15,258	68.9

Table 4. Share of workers who switched to remote worker during COVID-19 that will continue working remotely after COVID

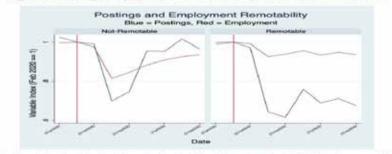
	Alignable (May)	NABE
	(1)	(2)
0-20%	0.39	0.52
20-40%	0.20	0.11
40-60%	0.12	0.16
60-80%	0.12	0.07
80-100%	0.17	0.13
N	203	61

Note: The sample for the Alignable question was restricted to those who had more than 20% of their workforce in remote positions. The NABE sample excludes those who "do not know" the answer to the question.

Are People Looking to Hire Remote Workers?

(Work is by Morales-Arilla and Daboin)

Figure 1: Postings, Employment and "Remotability" of Work under COVID-19

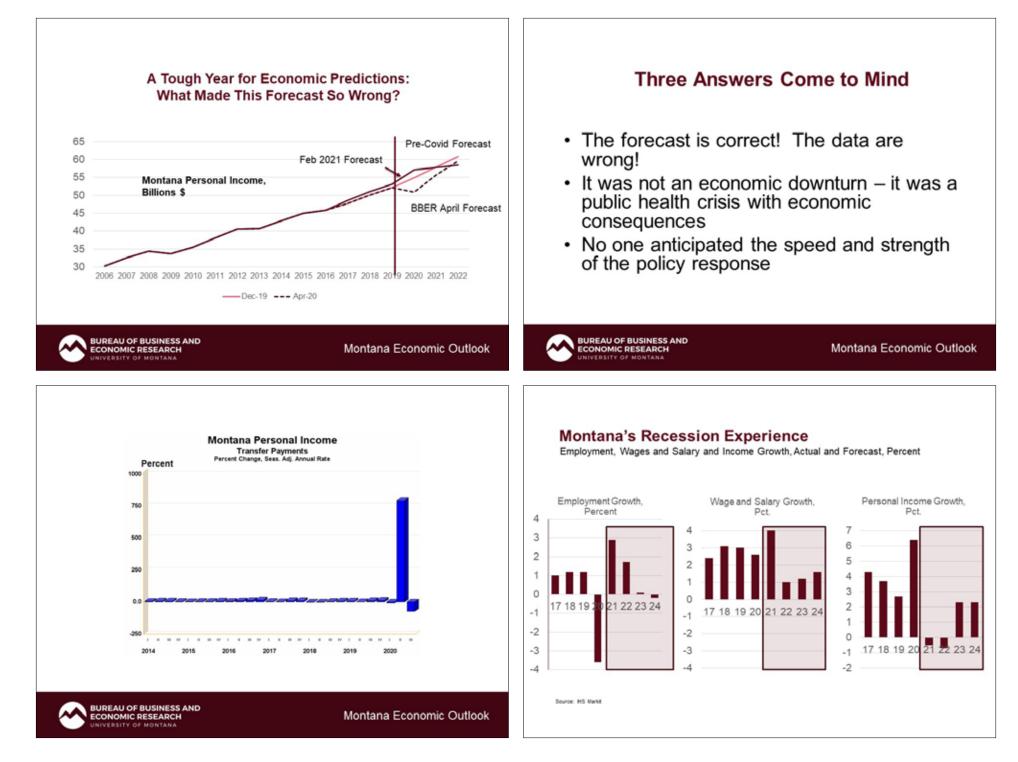


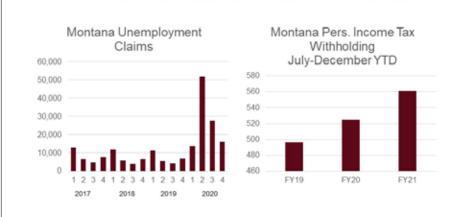
Notes: Figure shows the indice of coupling-most and particips (losse February 2020) for "monoiable" and "mono-monoiable" continuations. Encoderation in showing in the losse, which may line determ in and lines.

Everything Depends on the Duration of the Pandemic Risk

- # 1:: If the shock doesn't end quickly and if pandemics reappear, then quite significant changes will appear in both the urban location and the demand for transportation.
 - This will also shatter the urban service industry and create enormous economic dislocations – which at least suggests that we should be willing to spend enormous sums to make sure that this doesn't happen.
- #2: If this ends quickly, and doesn't happen again then the shock is real but doesn't change urban life massively. Still there will be short term shifts:
 - · In rich cities, this means that prices drop more than vacancies rise.
 - · Commercial space may be more vulnerable than residential.
 - Cities will still reallocate from old to young, and some significant work will move either to homes or lower density locales.
 - Extreme Importance of Consumer Cities
 - · International travel will surely be depressed for quite some time.

The Covid-19 Recession One Year Later The Economic Outlook for Unprecedented downturn, followed by a unprecedented recovery · March-April saw most economic indicators in uncharted territory Policy actions were swift, decisive, and effective Montana ٠ Most surprises since mid-summer have been positive ٠ Aggregate economic measures fail to capture substantial swings in consumption, investment and trade patterns ٠ Patrick M. Barkey, Director · Parts of the economy have more than recovered, others face Bureau of Business and Economic Research daunting challenges University of Montana Montana is emerging as a state less affected than others BUREAU OF BUSINESS AND **BUREAU OF BUSINESS AND** Montana Economic Outlook Montana Economic Outlook ECONOMIC RESEARCH ECONOMIC RESEARCH IVERSITY OF MONTAN IVERSITY OF MONTANA Real GDP, U.S., Actual and Forecast **Billions of Dollars** Daily New Cases per 100k people. Data shown from 1/22/20 to 12/9/20. 21000.0 Jan-21 Forecast Dec-19 20500.0 Forecast 20000.0 19500.0 19000.0 Jul-20 Forecast 18500.0 18000.0 17500.0 17000.0 ese. LA. NS 2 3 2 3 4 2 3 4 2 3 2 3 4 4 1 1 1 1 1 4 2019 2020 2021 2022 2023 1X FL. Source: HS Markit N BUREAU OF BUSINESS AND Montana Economic Outlook ECONOMIC RESEARCH VERSITY OF MONTANA





How Can We Reconcile These Two Trends?

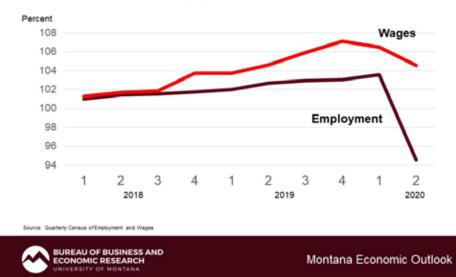
Categories	2016	2017	2018	2019	2020	2021
Top Seven Sources	\$477,253.977	\$642,377,573	\$715,730,022	\$776,705,525	\$823.064.611	\$904,920,584
Corporation Tax	\$46,535,587	\$45,865,342	\$45,260,366	\$59,142,041	\$62,941,646	\$71,248,762
Individual Income Tax	\$\$\$1,783,568	\$\$43,044,770	\$\$90,980,047	\$430,477,738	\$676,400,337	\$747,359.070
S10101 Withholding Tax	\$116,412,403	\$151.576.082	\$174251387	\$402,283,396	\$423,488,445	\$441,630,290
510102 Estimated Tax	\$107,825,440	\$99,835,245	\$101,947,276	\$108,261,770	\$113,868,691	\$100,610,200
510103 Current Year I/T	\$17,079,147	\$18,796,648	\$19,108,700	\$20.011.035	\$26.247.935	\$28,997,421
510104 Prior Years to Income Tax	\$1,839,829	\$1,438,901	\$1,254,479	\$2,490,520	\$1,522,068	\$1.199.115
510105 Income Tax - Audit Collections	\$10,848,227	\$7,440,287	\$8,497,522	\$8,562,722	39,600,651	\$12,695,053
510106 Income Tax Refunds	\$69,715,413	\$71.879.017	\$77,069,501	\$80,472,891	\$82,587,457	\$10,910,940
510109 Income Tax-Penalties & Interes	\$2,451,624	\$2,499,655	\$2,342,753	\$2,308,050	12,309,917	\$2,567,690
510110 Accrual Individual Inc Tax	10		50	57	10	10
510111 Pass Thru Entity Tax	\$3,820,492	\$3,378,919	\$4,298,026	\$3,572,901	\$6.642,256	\$9,277,787
510482 Mineral Royalty WH Tax	\$2,829,092	\$7,890,018	\$2,120,344	\$2.517,453	\$10,152,898	\$1,859,982
III Insurance Tax	\$14,524,054	\$17,961,645	\$15,413,266	\$15,910,511	\$16,463,399	\$16,657,899
III Oil & Natural Gas Tax	50	50	50	50	50	50
N Property Tax	\$8,320,187	\$9,458,618	\$10,062,368	\$15,656,701	39,799,361	\$12,813,214
III Vehicle Fee	\$38,838,387	\$31,146,542	\$39,086,037	\$19,528,775	\$41,212,502	\$38,767,952
III Video Gaming Tax	\$15,252,158	\$14,900,257	\$14,927,917	\$15,789,759	\$16,247,365	\$18,073,689
Other Sources	\$16,795,840	\$19,219,698	\$80,134,672	\$27,997,873	\$33,768,084	\$26,268,795
Natura Resource Sources	\$14,300,379	\$12,259,923	\$10.327,738	\$9,568,061	\$12,219,076	\$6,181,745
Interest Earnings Sources	\$5,296,431	\$9,229,528	\$8,267,181	\$11,900,960	\$13,952,466	\$6,708,637
Consumption Sources	\$23,515,324	\$23,254,332	\$22,117,758	\$23,395,166	\$23,526,150	\$25,977,574
Business Sources	\$22,955,709	\$20,857,117	\$23,195,611	\$24,503,592	\$26,182,544	\$22,604,865
Total	\$760,117,660	\$767,198,171	\$859,772,981	\$874,071,177	\$932,713,331	\$992,642,209

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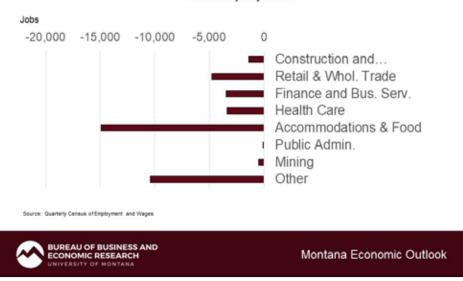
Montana Economic Outlook

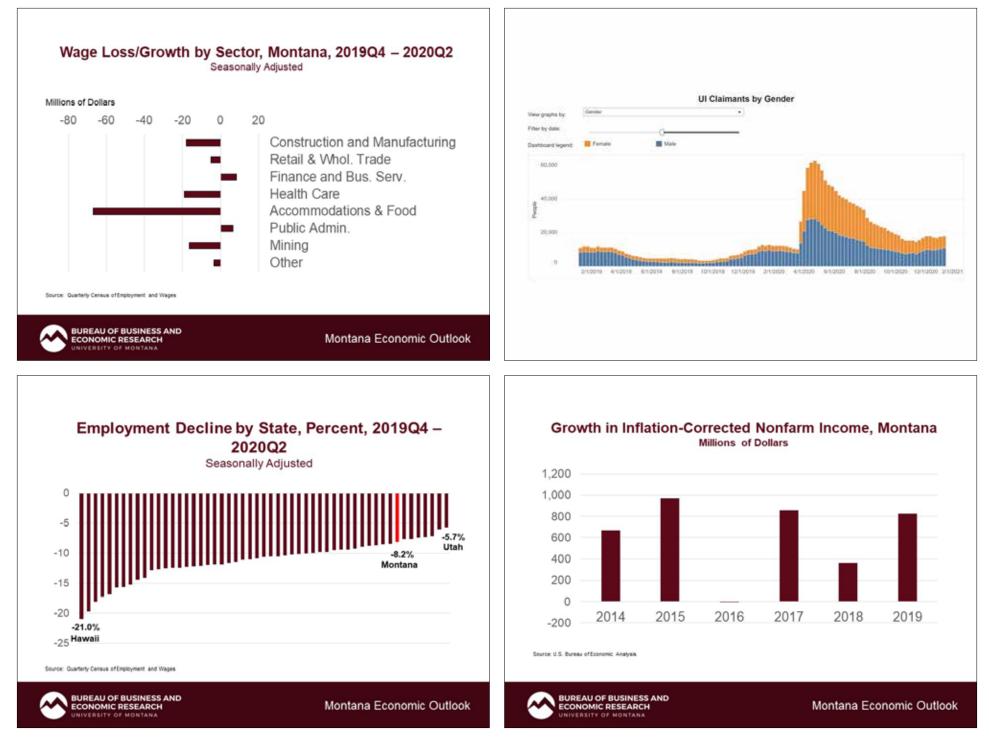


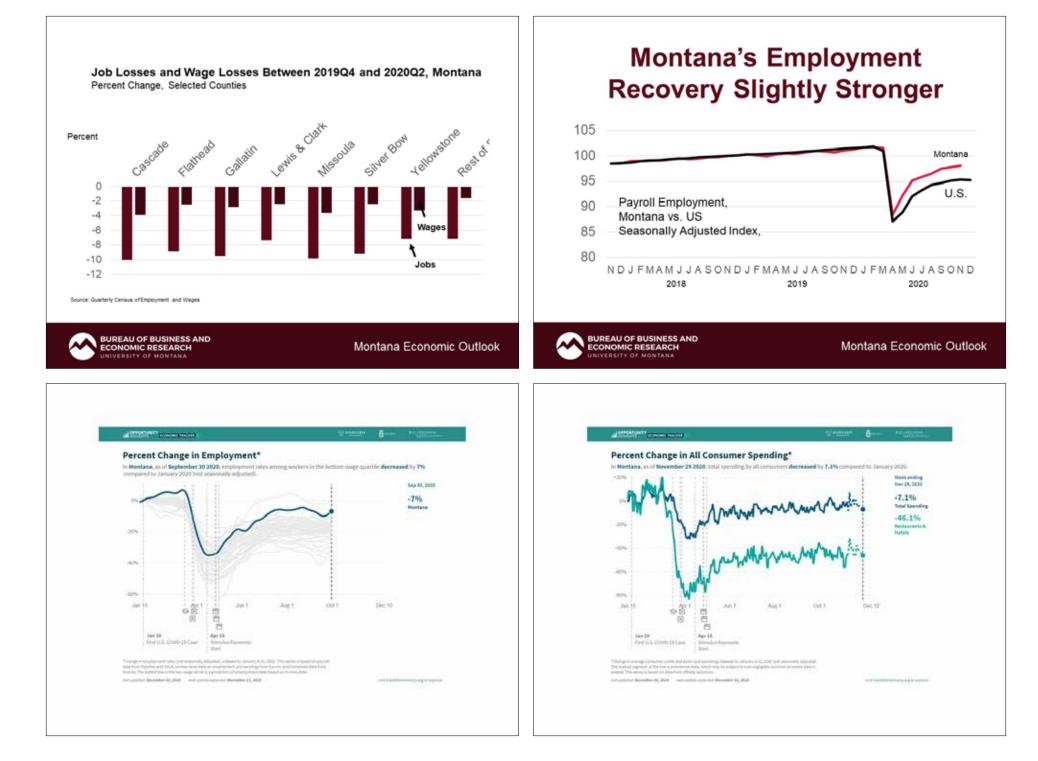
Seasonally Adjusted Index, 2017Q1 = 100







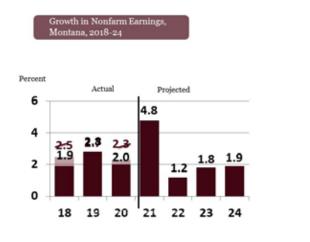




Montana Implications of Major Which Changes We've Experienced Will Stick? **Events** High savings rates Technology adoption Further stimulus from Washington Strong spending on · Whither commercial durables real estate? Low inventories, high froth in housing Eating at home High government markets debt levels · Re-shoring or near- Rising lumber prices shoring supply chains Larger government Legacy of supply chain disruptions of 2020 role in the economy · Exit from major cities Closure of Colstrip Units 1 & 2 BUREAU OF BUSINESS AND BUREAU OF BUSINESS AND Montana Economic Outlook Montana Economic Outlook ECONOMIC RESEARCH ECONOMIC RESEARCH ERSITY OF MONTAN Bakken Oil Production Recovers From Record Fall Montana and North Dakota Monthly Crude Oil Production, Thousand Barrels California was the largest net electricity importer of any state in 2019 State net electricity exports and imports (2019) 50,000 5,000 million megawatthours net imports net export North Dakota (lef 4,500 45,000 axis top exporters 40.000 4,000 70+ 50 30 10 10 30 50 70 Pennsylvania 35.000 3,500 Alabama 3.000 30.000 Illinois 2,500 25.000 31 Arizona Montana(right 2.000 20.000 28 West Virginia 1,500 15,000 top importers 1,000 California 10.000 Ohio 500 5,000 Massachusetts Virginia 2012 2013 2014 2015 2016 2017 2018 2019 2020 ela Tennessee Source: U.S. Energy Information Administration Source: U.S. Energy Information Administration, State Electricity Profiles BUREAU OF BUSINESS AND Montana Economic Outlook ECONOMIC RESEARCH SITY OF MONTANA

Outlook for Montana's Key Industries

- · Post-pandemic future is the wild card
- · Harder times ahead for coal and oil
- · Brighter prospects for agriculture
- Tech's star is shining brighter
- Will 2021 be a year when home building breaks out?



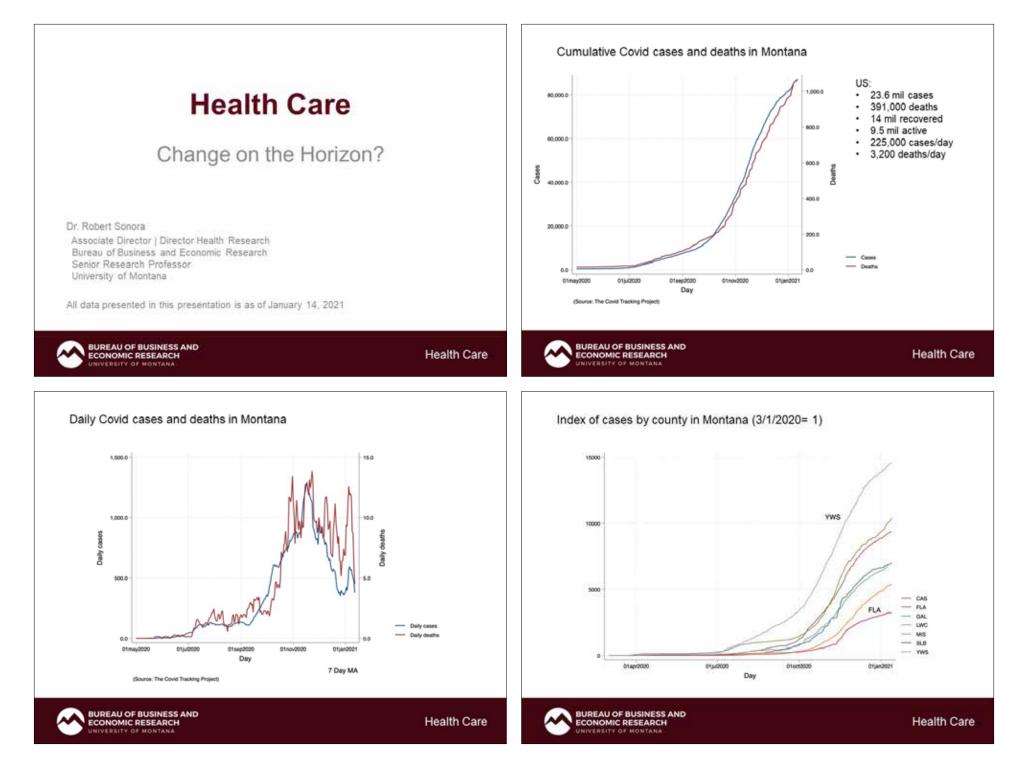
Source: BBER and U.S. Bureau of Economic Analysis

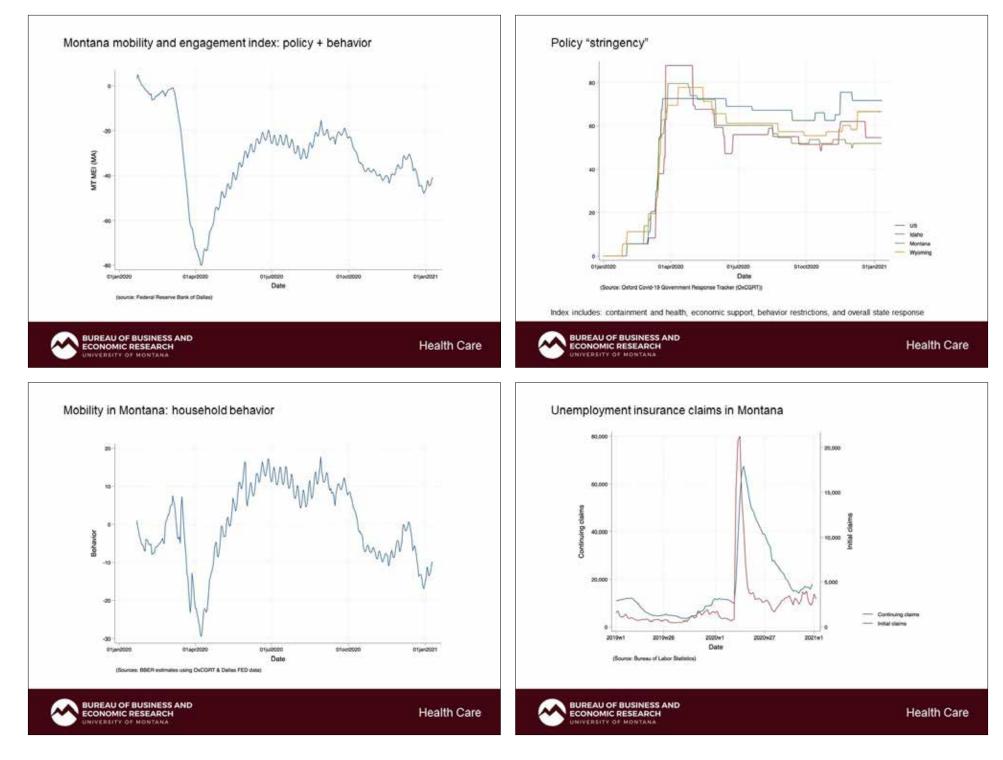


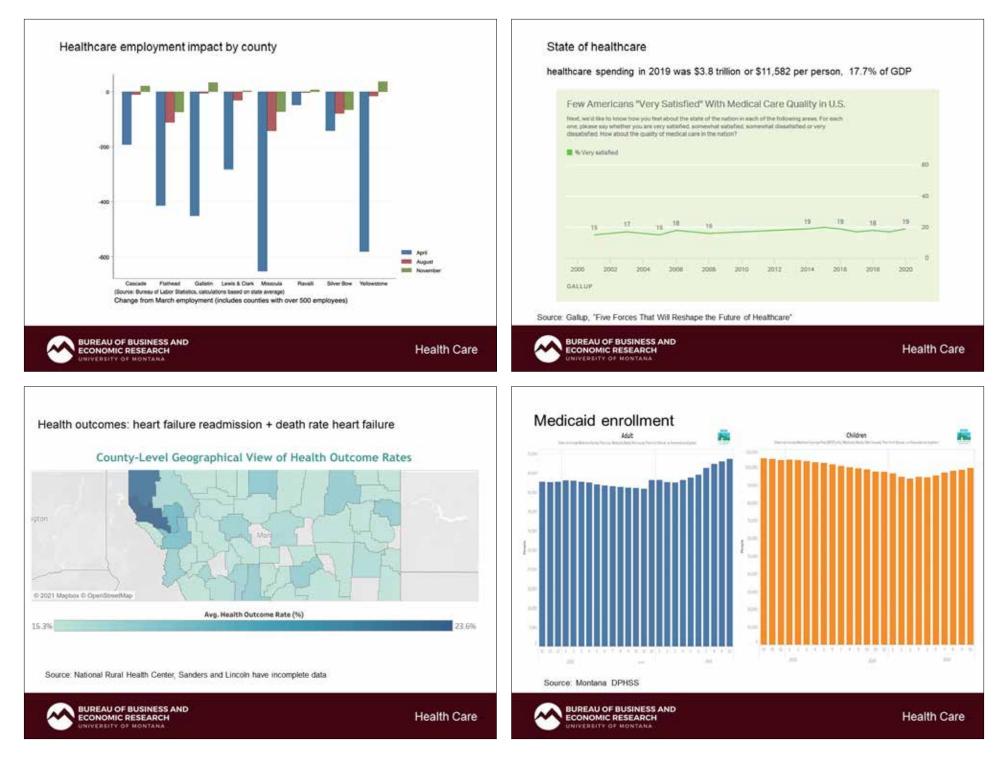
Montana Economic Outlook

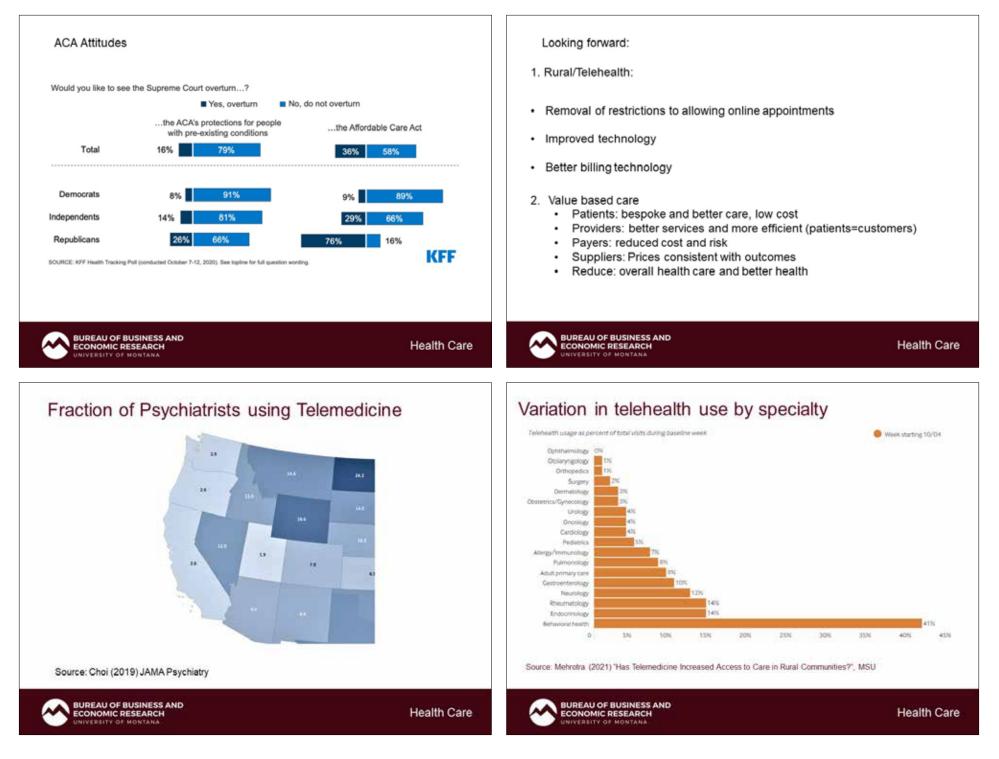


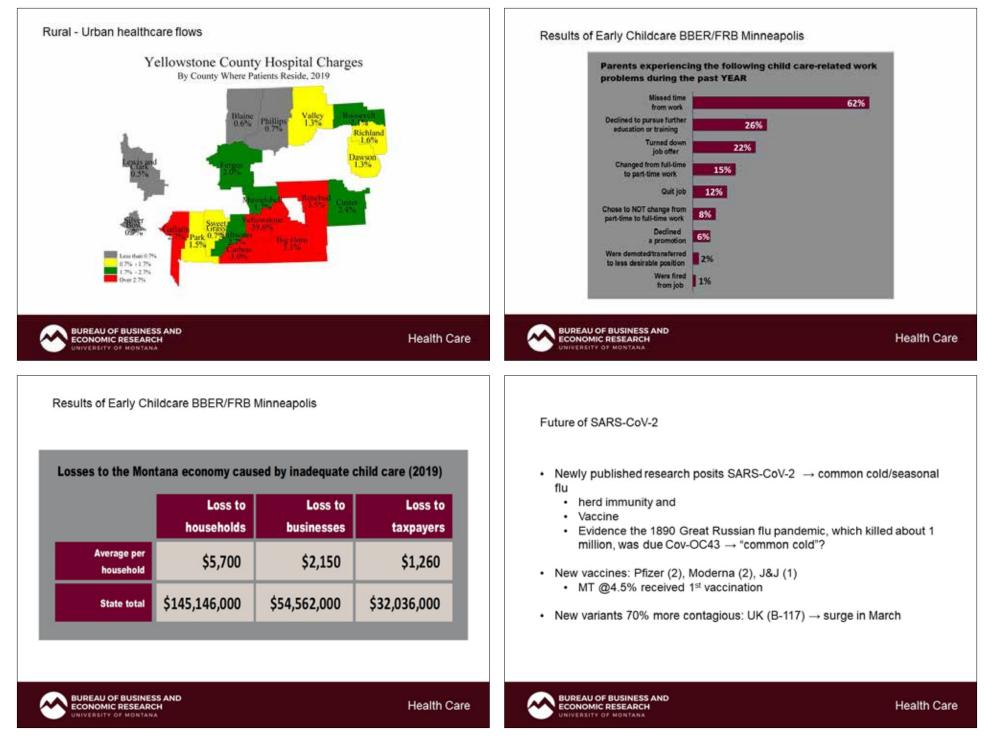
Montana Economic Outlook









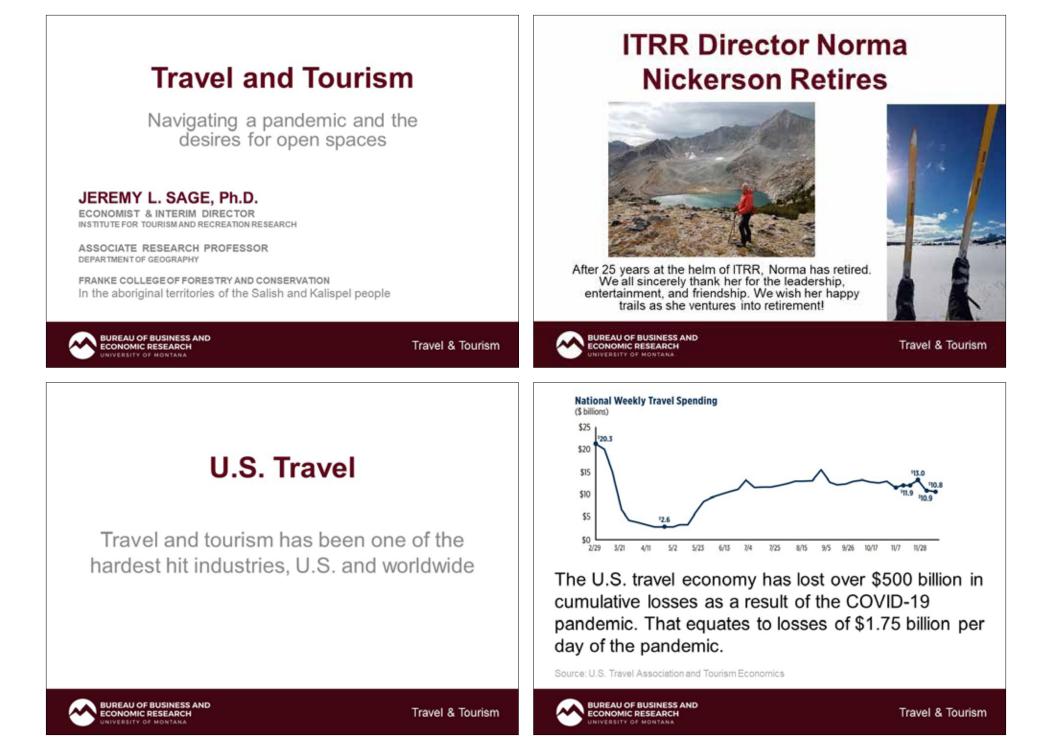


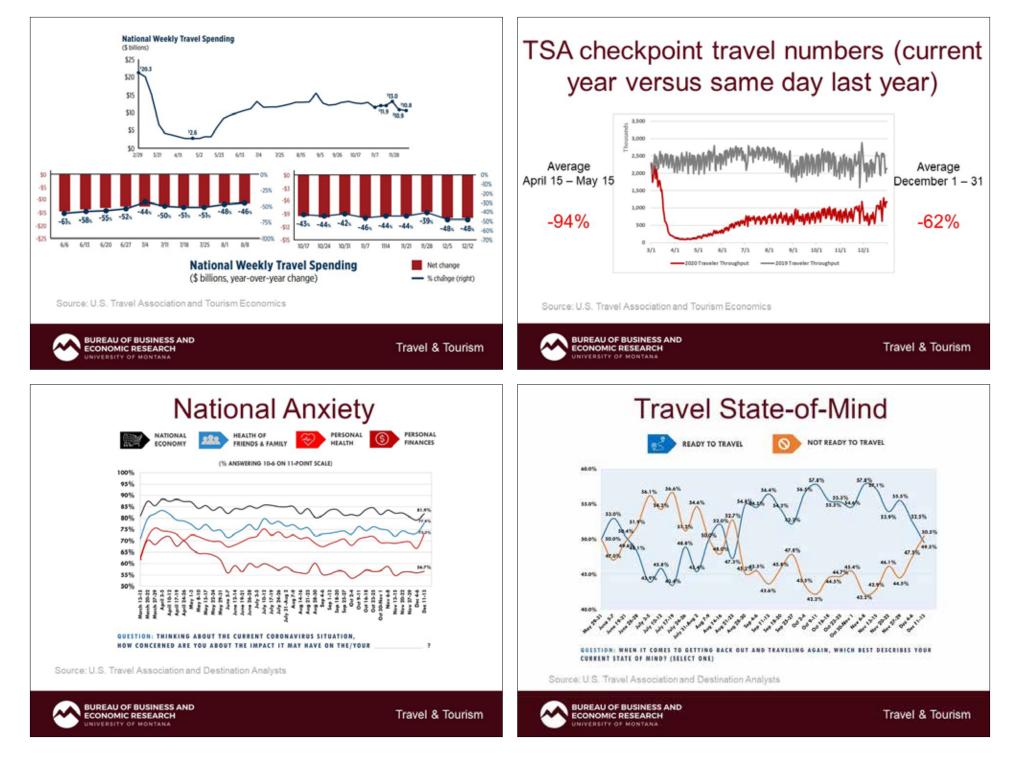
As of January 15, 2021, there	s been 51,000 total doses (1 st + 2 ^{na})
Phase 1a Prioritization	Phase 1b Prioritization	Phase 1c Prioritization
Health care workers and long-term care facility residents	includes people ages 70+; American Indians and other people of color at elevated risk for COVID-19 complications; people ages 16-69 with high-risk medical conditions; people living in congregate settings and correctional facilities	people ages 16-59 with medical conditions not included in Phase 1b

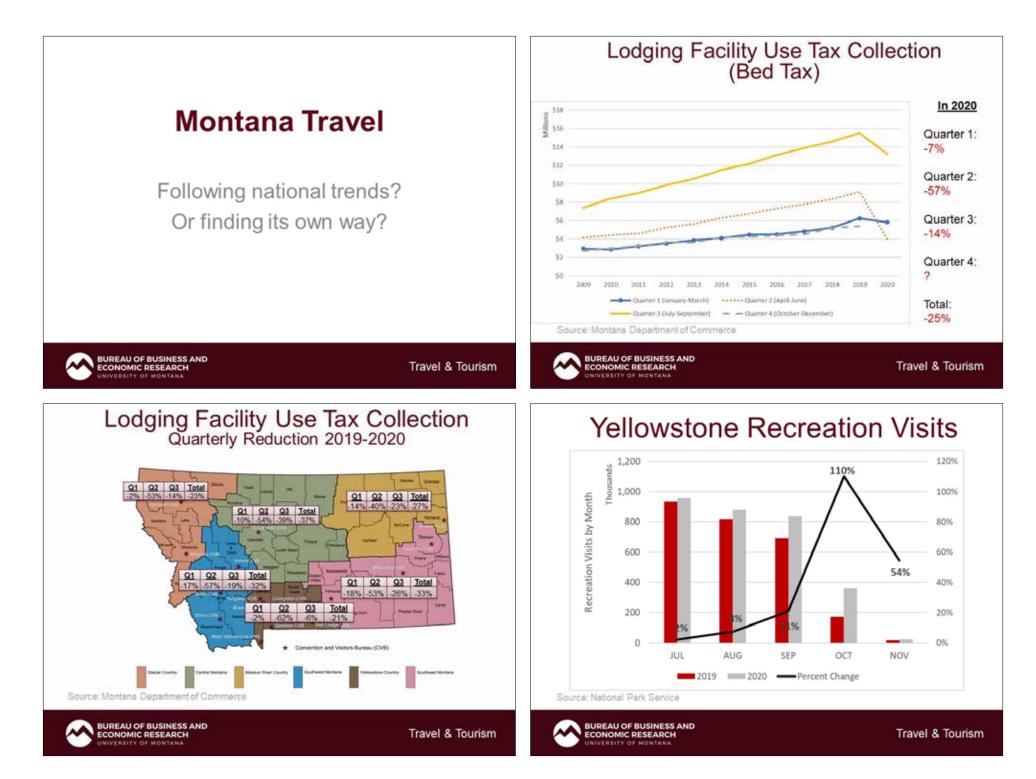


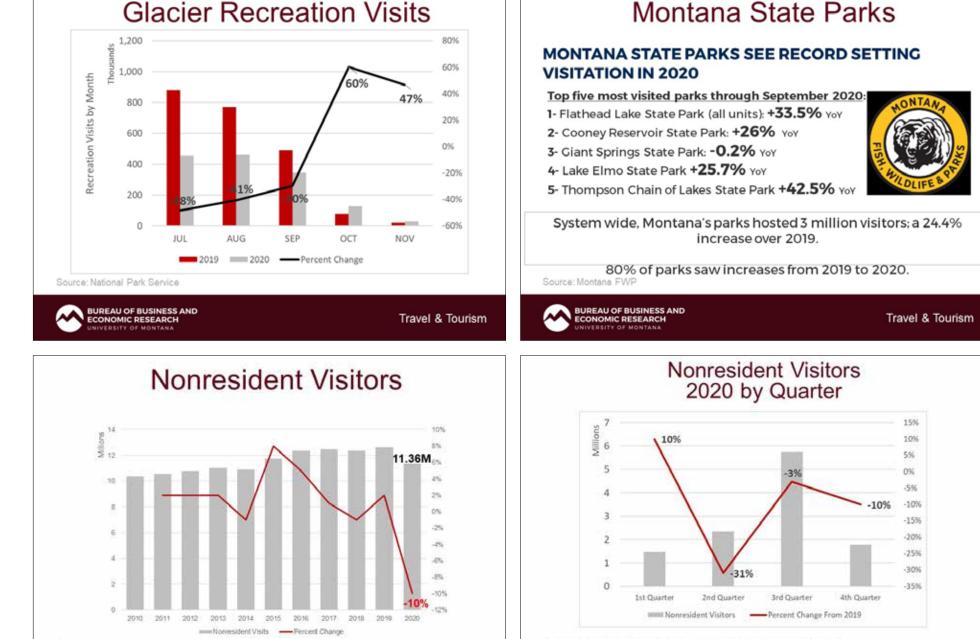
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Health Care









Travel & Tourism

Source: Institute for Tourism and Recreation Research (Preliminary Data)



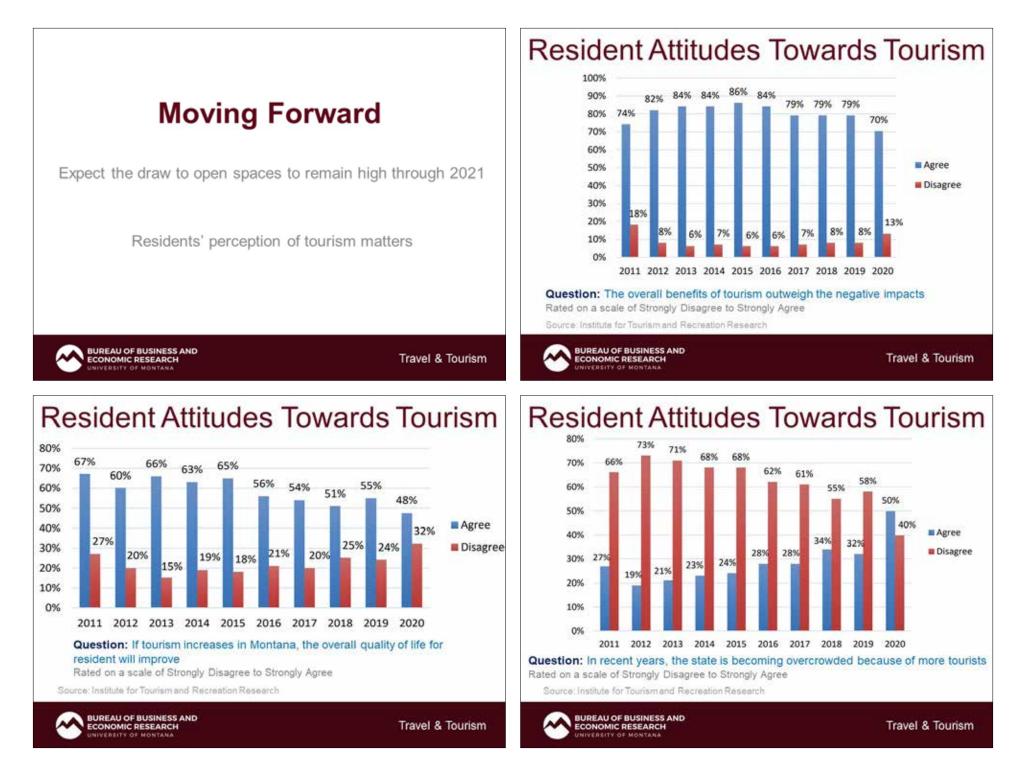
Travel & Tourism

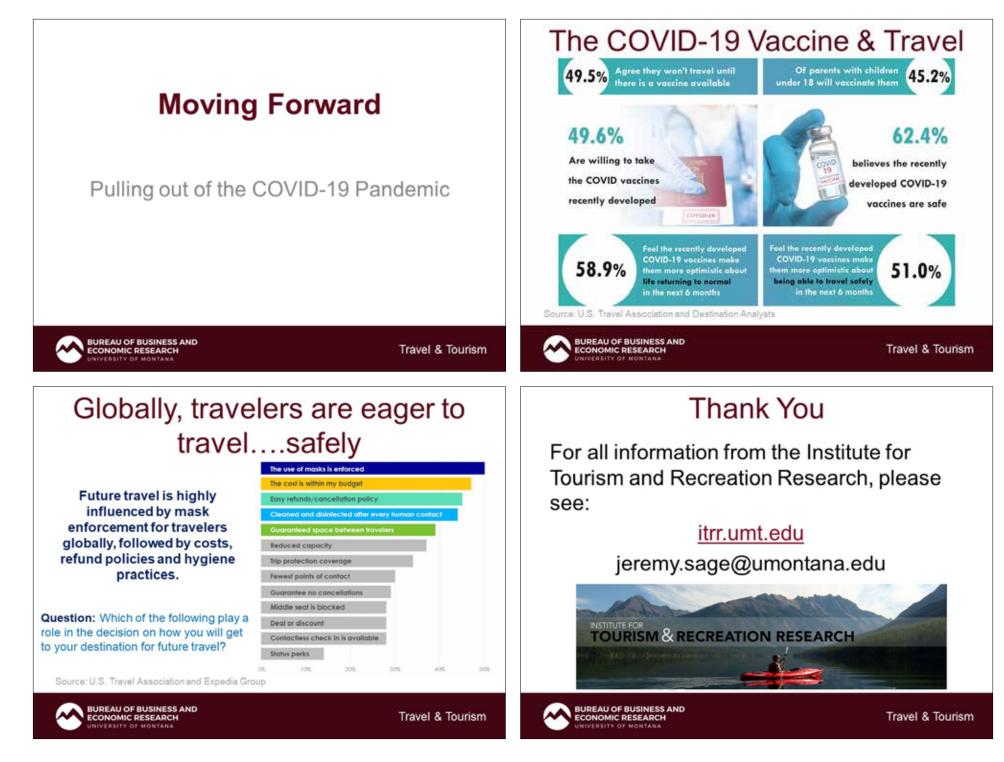
Source: Institute for Tourism and Recreation Research (Preliminary Data)

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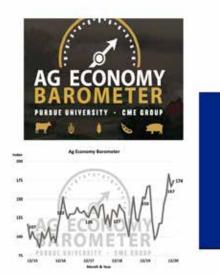




2020 Year in Review

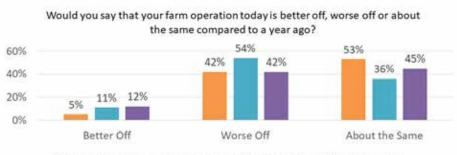
Kate Binzen Fuller

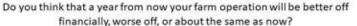
George Haynes Department of Agricultural Economics & Economics MSU Extension

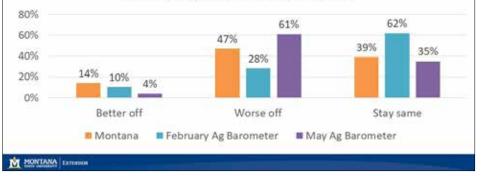




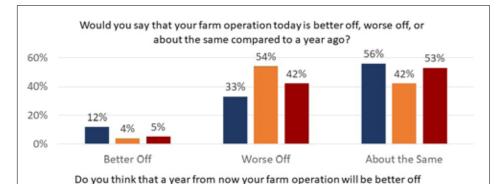
MONTANA Extension

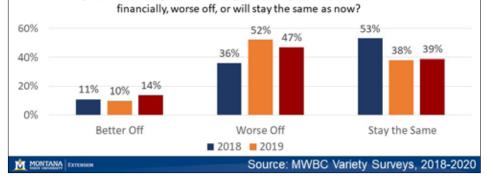


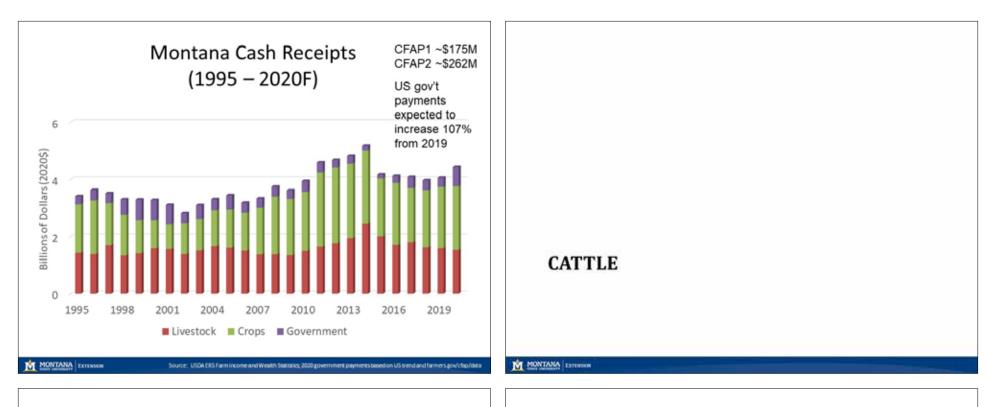




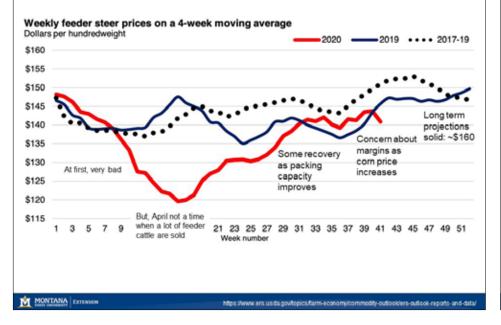
MONTANA Extension

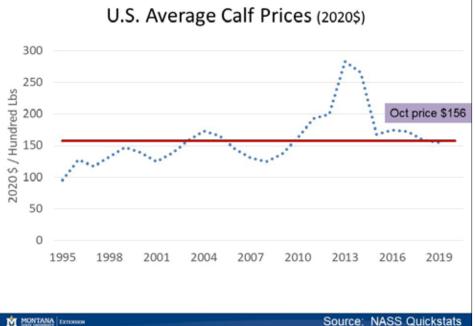


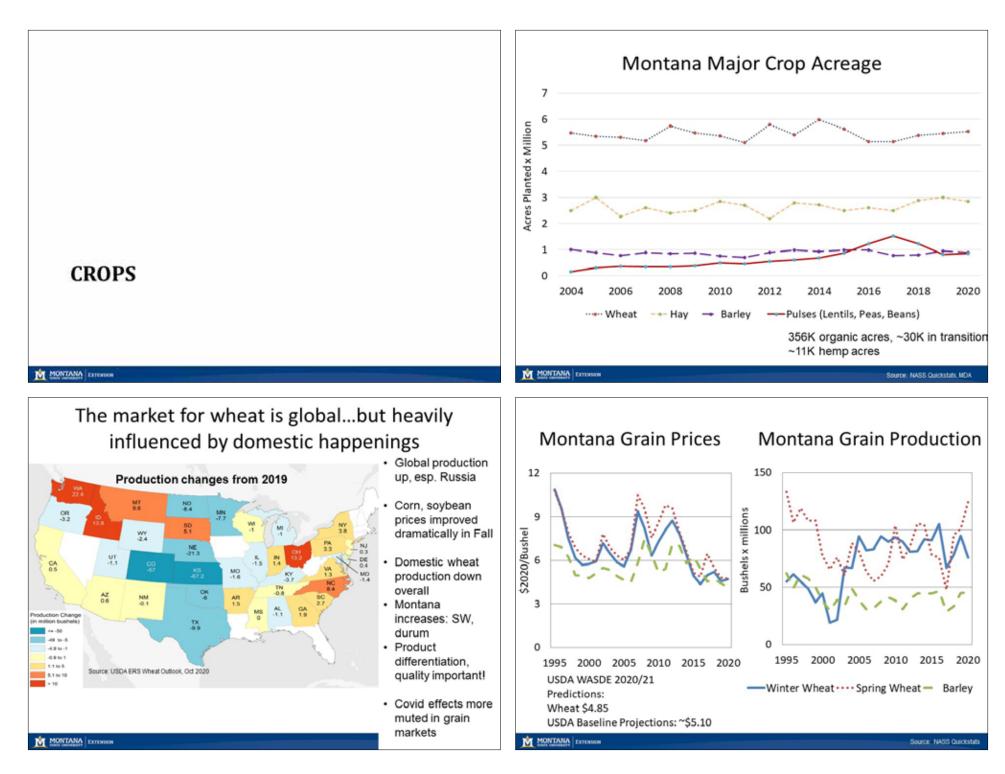


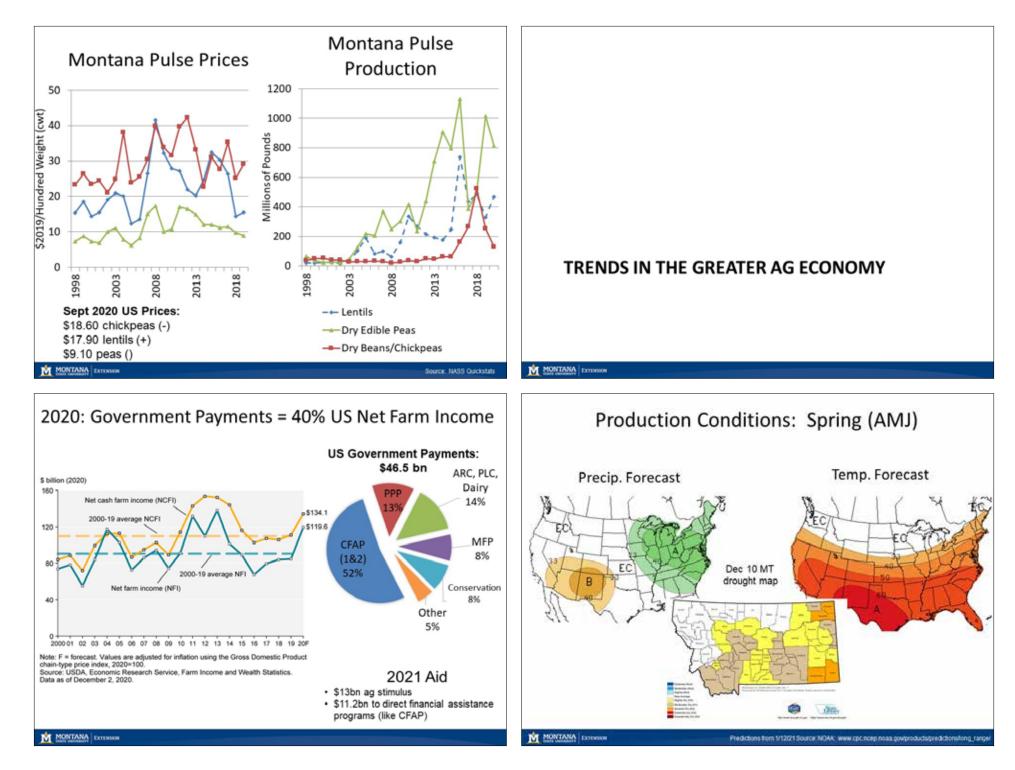


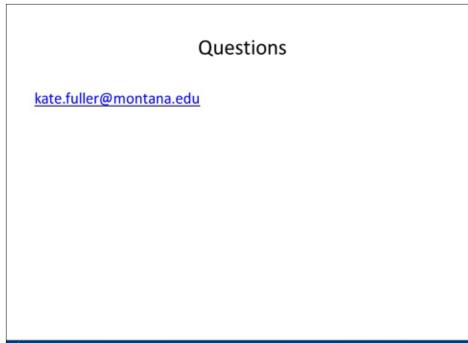
Covid Effects on Cattle Markets











MONTANA EXTENSION

Montana Forest Industry Update

2021 Economic Outlook Seminar February 1, 2021

Todd A. Morgan, CF Director of Forest Industry Research University of Montana, Bureau of Business and Economic Research



Montana Forest Industry Update

Forest Industry Research at BBER

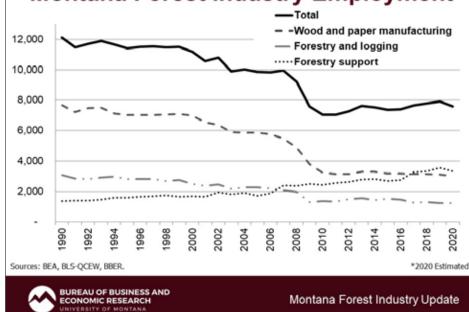
- Mostly for US Forest Service
- Rocky Mountain & Pacific Coast states
- National Forest Regions & WO

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ECONOMIC RESEARCH

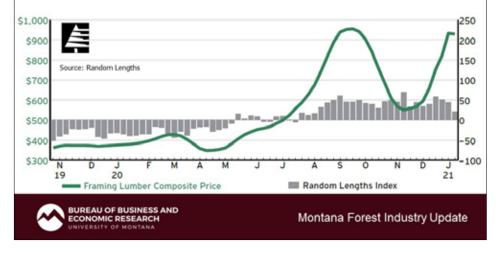
- Quarterly & annual Montana reporting
- Various forest economics projects & information requests

Montana Forest Industry Employment

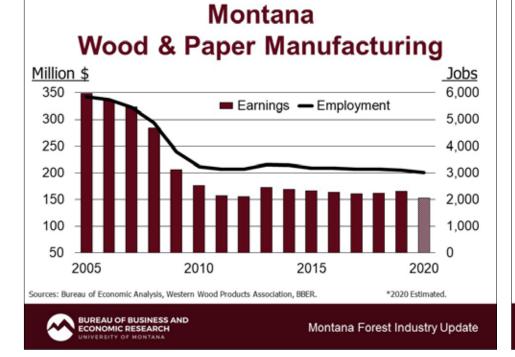


Record High Lumber Prices in 2020

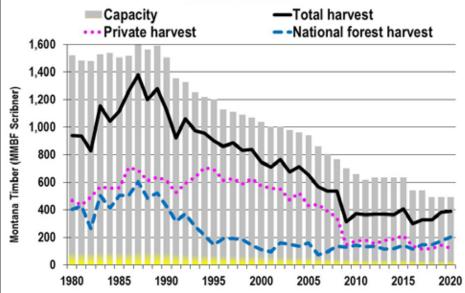
- Repair, remodel, & DYI boosted demand + new housing.
- Post-wildfire rebuilding in CA & OR, mild winter thus far.
- Reduced imports from Canada & COVID-induced supply shortages.



Montana Forest Industry Update



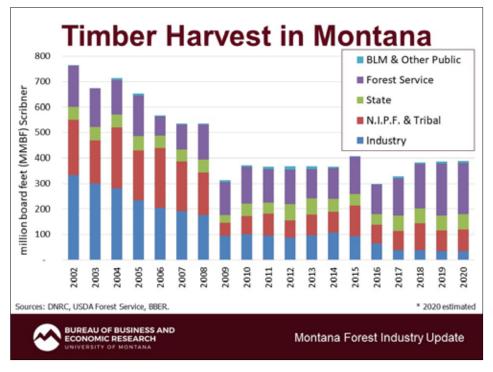
Montana Timber Capacity & Harvest, 1980-2020

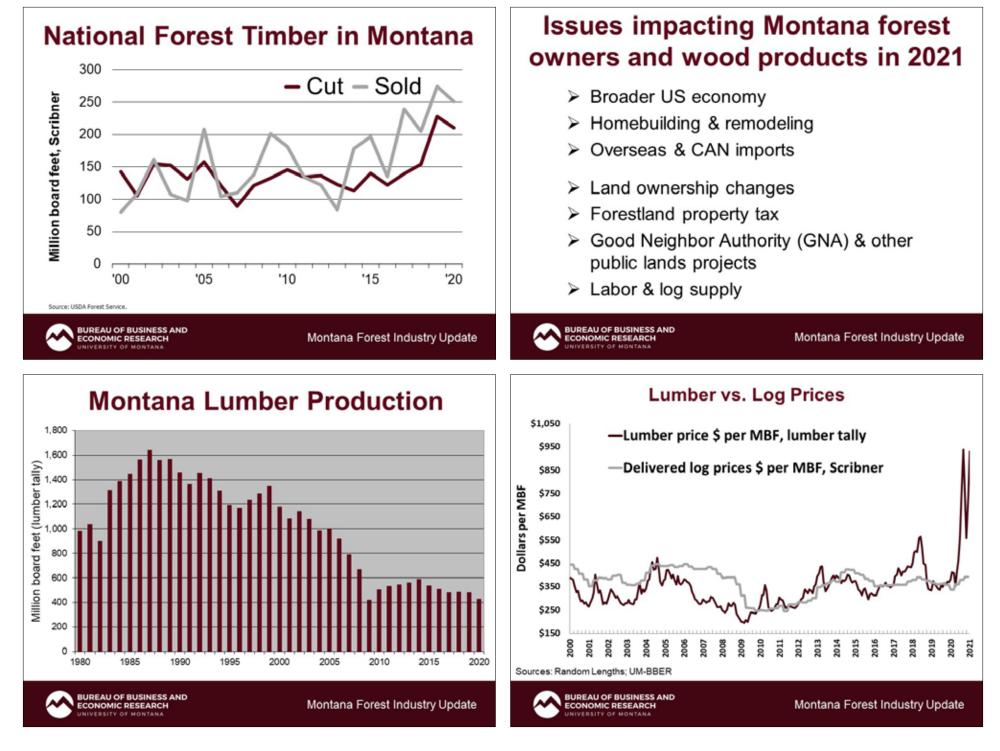


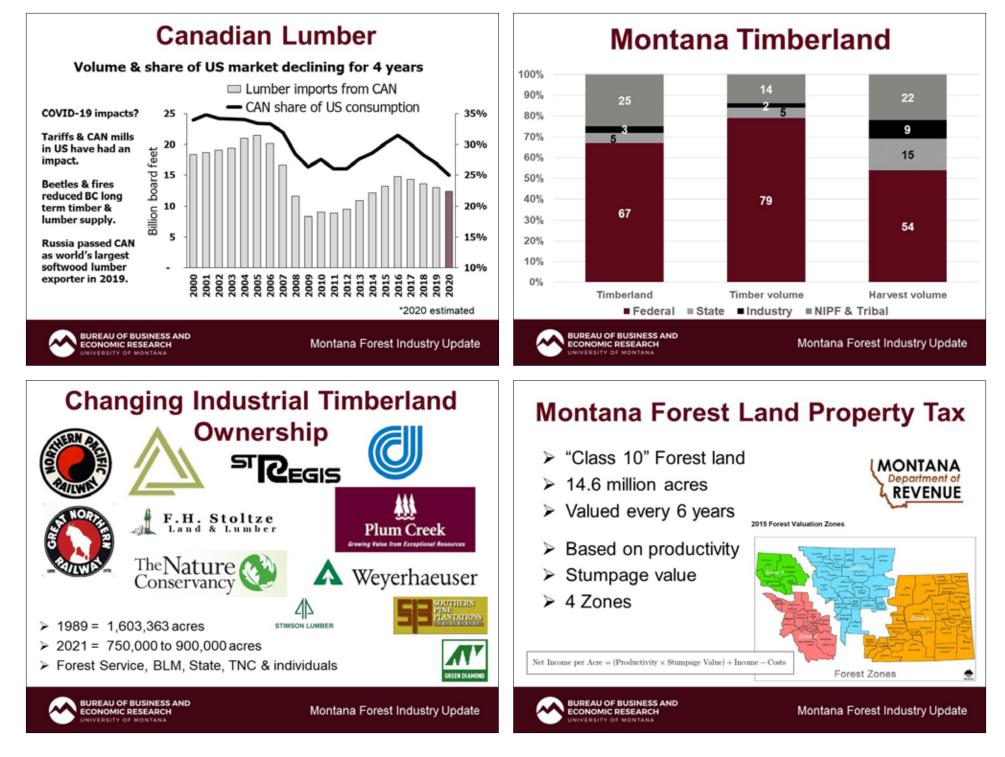
Montana Forest Industry (Private Sector)

	<u>2004</u>	2010	2020*
Workers (mills & forest)	10,006	7,030	7,641
Earnings (millions)	\$508	\$305	\$347
Primary sales (millions)	\$1,577	\$516	\$607
Lumber production (MMBF)	985	503	428
Sources: Bureau of Economic Analysis, Western Wood Products As	sociation, BBER.		*2020 estimated

Montana Forest Industry Update







2021 Economic Outlook Seminar

Thank you!

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



Montana Forest Industry Update

High-tech & Startups



Christina Henderson, Executive Director

MTHighTech.org

2021 Outlook for Montana High-tech

- Holding Steady
- Poised for Fast Comeback
- Adapting to Remote Work





Surveying Montana high-tech firms since 2014.

What is high-tech?

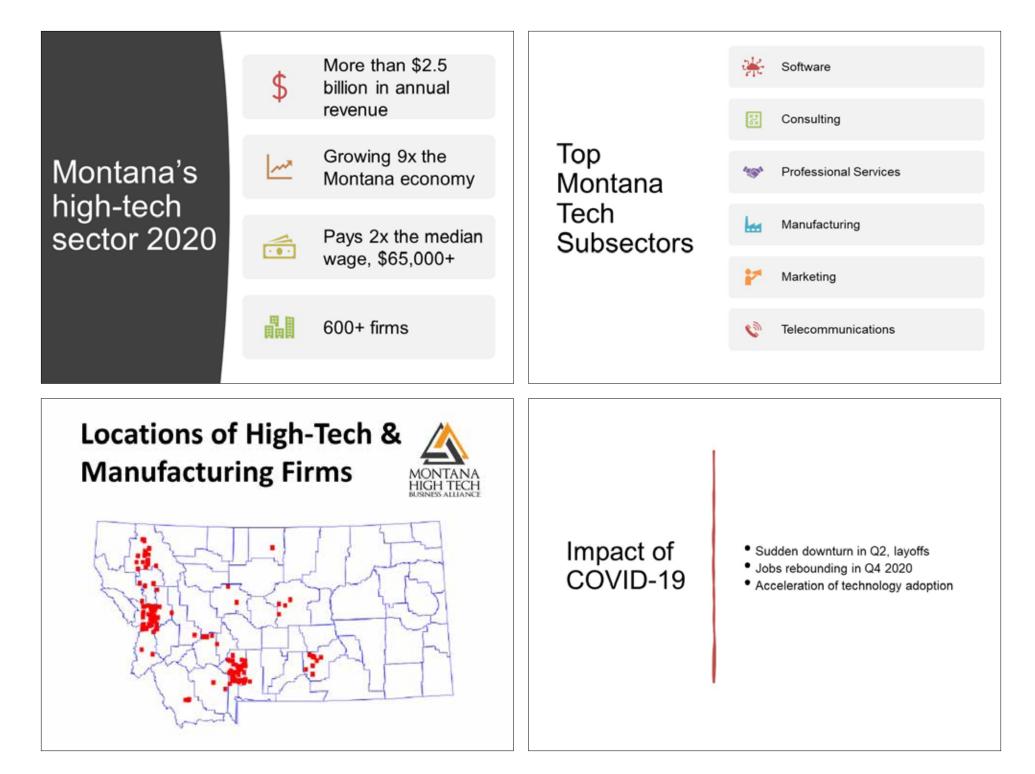
Make or sell high-tech products

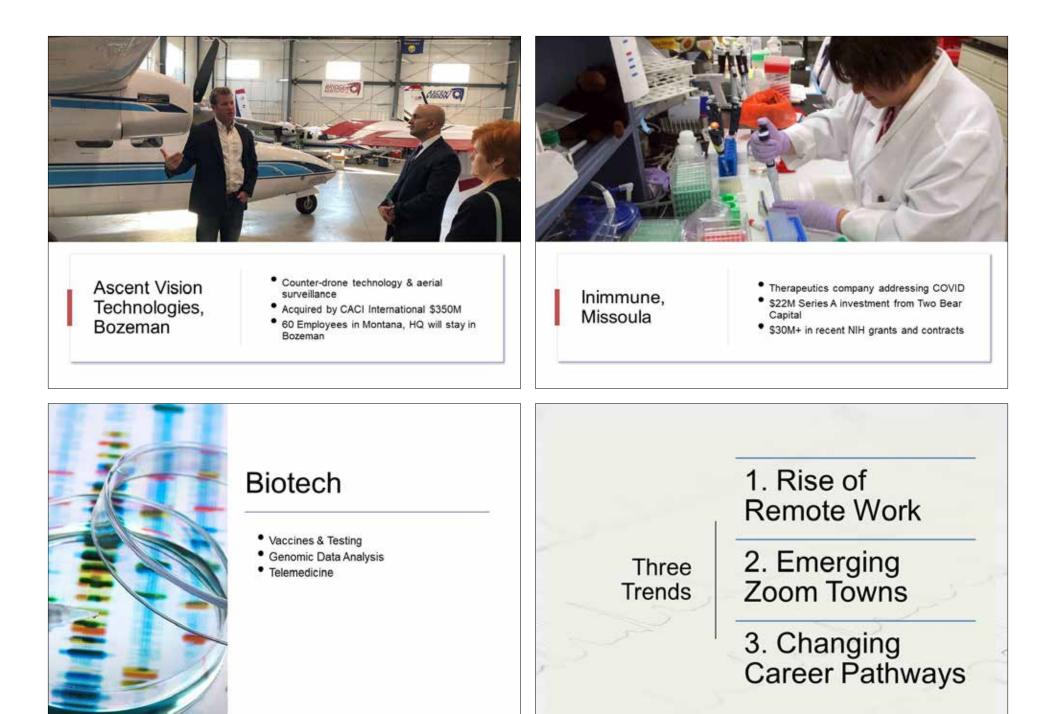
Professional services related to tech

E-commerce

Advanced manufacturing









Rural

Brain

Gain

1. Rise of Remote Work

- Change in office use
- Influx of tech workers with jobs
- Requires good broadband



2. Emerging Zoom Towns

- Rising cost of real estate in tech hubs Bozeman, Missoula
- Some in-state migration to more affordable towns
- Opportunity to distribute tech growth across Montana, including rural and tribal communities

- Census data shows high school grads often leave rural areas for college or jobs in cities.
 Many come back in their 30s and
 - Many come back in their 30s and 40s.
 - They bring college degrees, work experience, professional contacts, spending power, and children.
 - People migrate to rural communities for 1) a simpler life, 2) safety and security, 3) affordable housing, 4) outdoor recreation, and 5) quality schools.

Source: Ben Winchester, University of Minnesota Extension, "A rural brain gain migration"



Changing Career Pathways

- Skilled workforce #1 concern for tech businesses
- · Education shifting to address needs
- Need both Liberal Arts + STEM skills



Top Skills in New Hires

- Coding, Programming 11%
- Communication Skills 9%
- Technical Skill 6%
- Ability to Learn, Trainable 6%
- General Soft Skills 5% (emotional intelligence, teamwork, etc.)
- Sales or Marketing 5%

Top Skills to Improve in Existing Workforce

- Sales or Marketing 16.7%
- Business Management or Project Management 11.5%
- Coding, Programming 9.8%
- Technical Skills 8.6%
- Communication Skills 4.6%
- General Soft Skills 4.0%

Christina Henderson

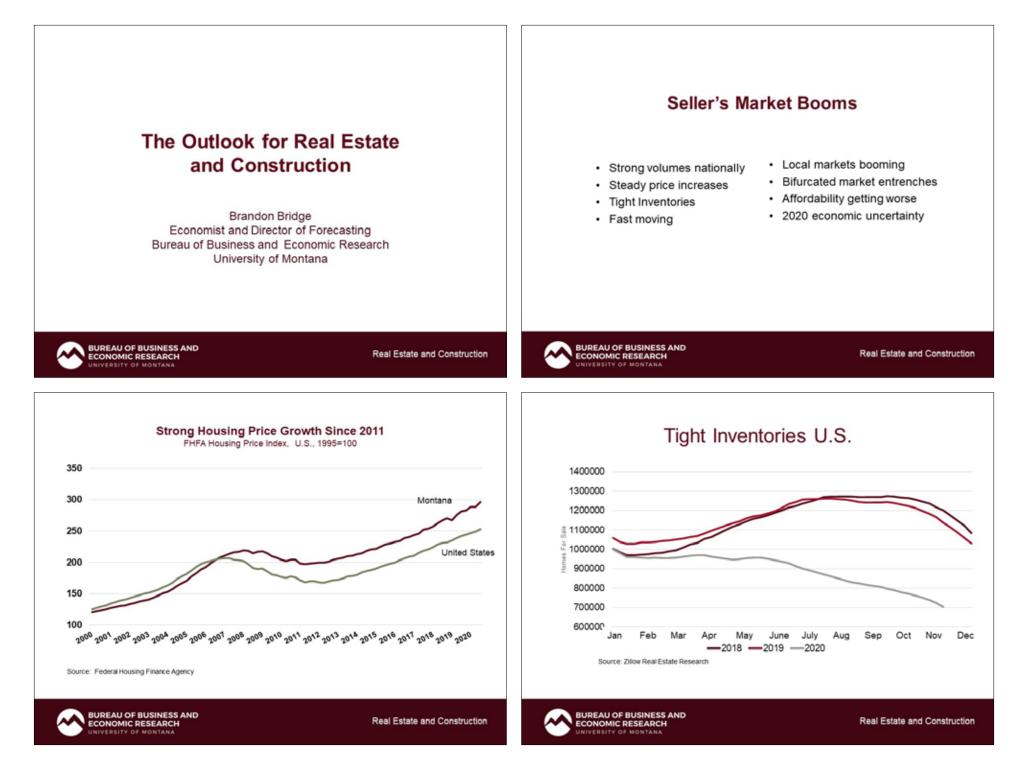
Executive Director

director@mthightech.org

🍠 @MontanaHighTech



https://jobs.mthightech.org







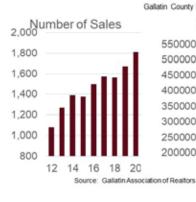
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Real Estate and Construction



Real Estate and Construction





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Real Estate and Construction

Real Estate and Construction

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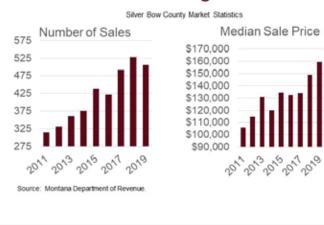
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Markets Booming

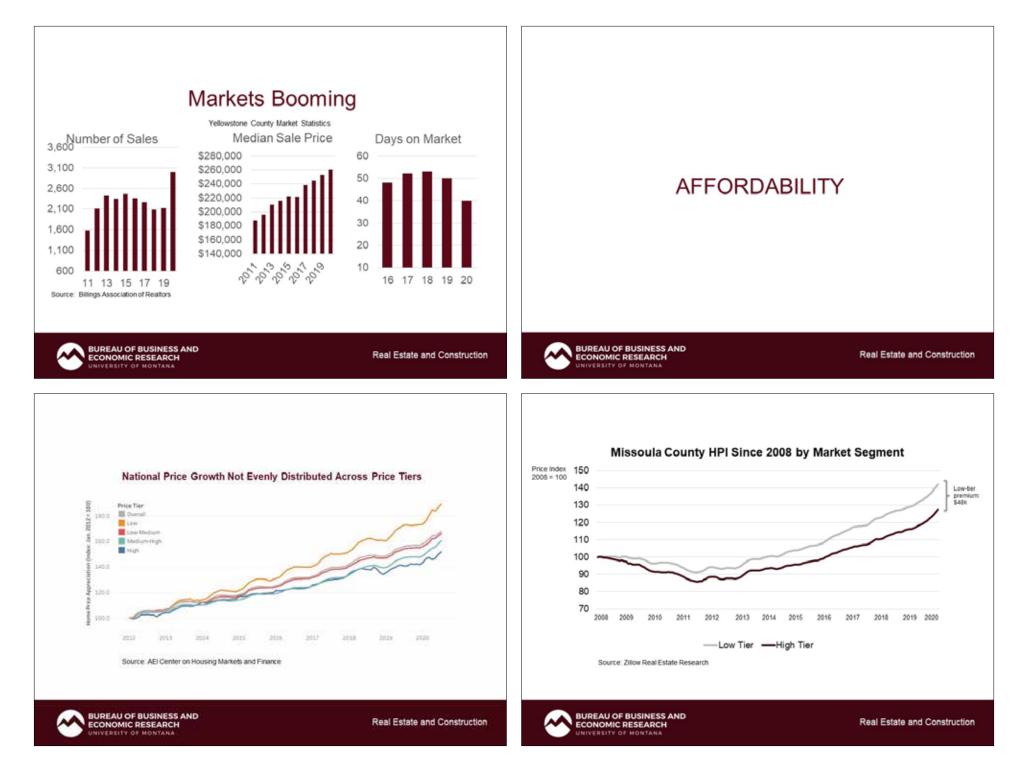


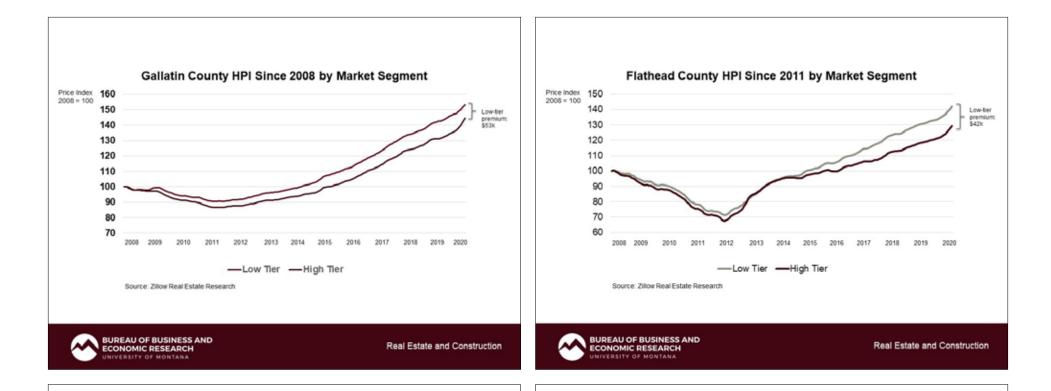
Markets Looking Healthier

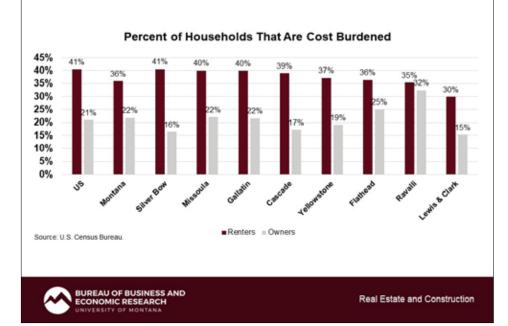


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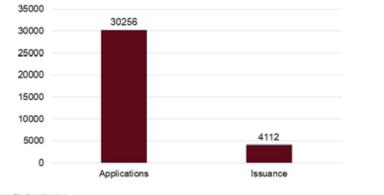
Real Estate and Construction







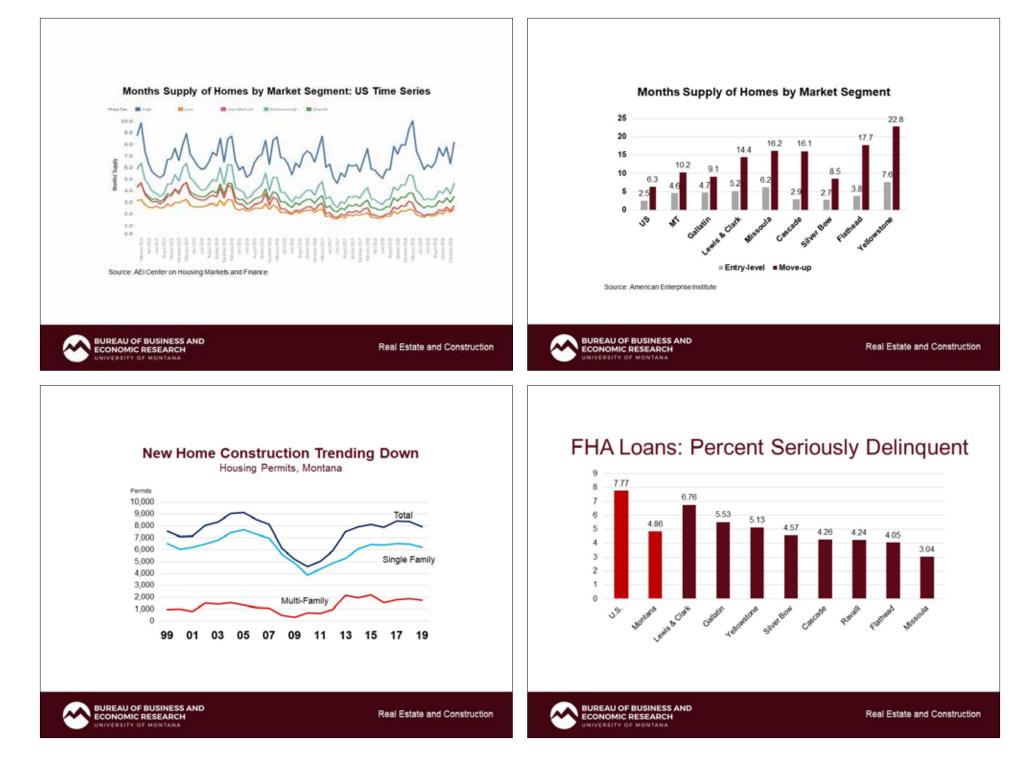
Montana Housing Choice Vouchers Since 2016



Source: Montana Housing



Real Estate and Construction



Looking Ahead to 2020

- · Interest rates will stay low
- · Real estate risk may increase
- Remote work will continue to spur Montana housing markets
- · Affordability will get worse



Real Estate and Construction

The Economic Outlook for Cascade County

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana **Cascade County Profile**

Indicator	Value	State Rank
Total Population, 2019	81,366	5
Percent change since 2010	0.0%	32
Median age	38.3	48
Percent Aged 65 or Older	18.3%	
Percent with Bachelors Degree or Higher (Age 25+)	25.7%	21
Percent without Health Insurance Coverage, 2018	9.3%	46

Source: U.S. Census Bureau



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Cascade Outlook



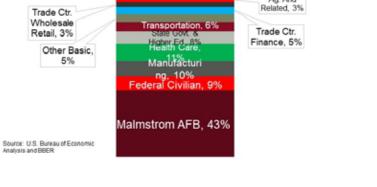
Cascade Outlook

Cascade County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$50,737	11
Construction	\$61,874	8
Manufacturing	\$67,645	2
Retail Trade	\$33,909	16
Transportation and Warehousing	\$61,714	20
Information	\$55,033	10

Source: U.S. Bureau of Economic Analysis



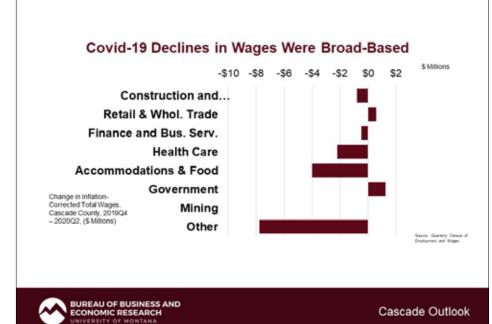


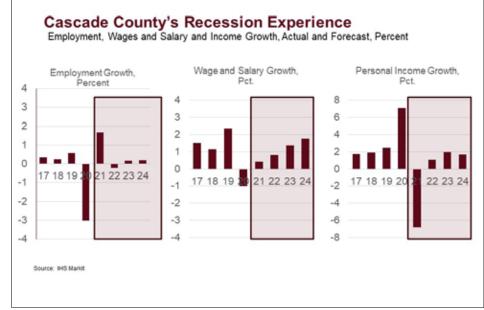
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Cascade Outlook



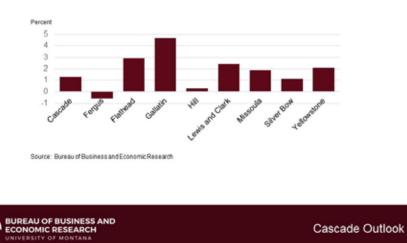
Cascade Outlook





Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



2021 Economic Outlook Seminar

The Economic Outlook for **Eastern Montana**

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Richland County Profile

Indicator	Value	State Rank
Total Population, 2019	10,103	20
Percent change since 2010	10.8%	5
Median age	38.6	46
Percent Aged 65 or Older	14.7%	
Percent with Bachelors Degree or Higher (Age 25+)	18.9%	45
Percent without Health Insurance Coverage, 2018	10.1%	40

Source: U.S. Census Bureau



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Eastern Montana Outlook

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Eastern Montana Outlook

Richland County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$58,937	3
Construction	\$70,607	3
Manufacturing	\$53,497	8
Retail Trade	\$37,927	10
Mining	\$109,200	6
Transportation and Warehousing	\$88,480	7

Source: U.S. Bureau of Economic Analysis



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Eastern Montana Outlook



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Custer County Profile

Indicator	Value	State Rank
Total Population, 2019	11,402	17
Percent change since 2010	-2.5%	41
Median age	41.4	39
Percent Aged 65 or Older	19.1%	
Percent with Bachelors Degree or Higher (Age 25+)	24.6%	27
Percent without Health Insurance Coverage, 2018	9.3%	47

Source: U.S. Census Bureau

Custer County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$44,931	18
Construction	\$61,852	9
Manufacturing	\$29,000	23
Retail Trade	\$45,256	5
Mining	\$47,148	13
Information	\$33,951	23

Source: U.S. Bureau of Economic Analysis



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Eastern Montana Outlook

Eastern Montana Outlook

Drivers of Economic Activity Percent Share of Income in Basic Industries, Richland County Utility & Nonres Travel, 7% Wholesale Trade, 10% Federal Trucking, Govt., 4% Manufacturi ng, 11% Ag. & Related Services, 13% Mining, 43% Source: U.S. Bureau of Economic Analysis and BBER BUREAU OF BUSINESS AND Eastern Montana Outlook ECONOMIC RESEARCH

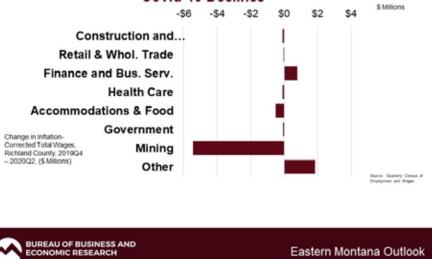
Drivers of Economic Activity Percent Share of Income in Basic Industries, Custer County Other Basic, 8% Nonresident Travel, 7% Banking, 8% Ag. & Ag. Services, 9% Whol. Trade, Railroad & Trucking, Federal Government . 18% State Government, 18% Source: U.S. Bureau of Economic Analysis and BBER

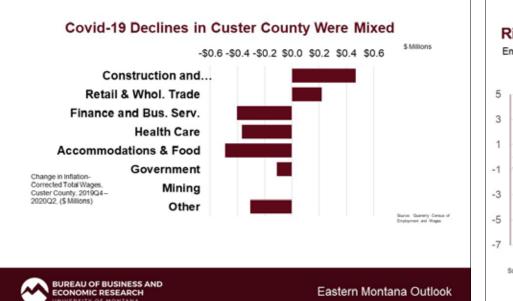
Oil Collapse Dominated Richland County's Covid-19 Declines

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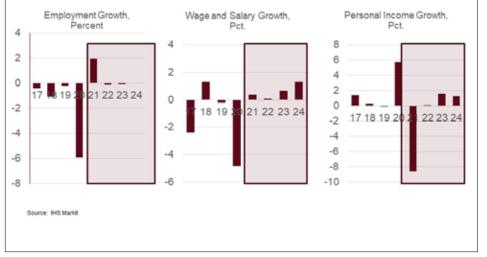
Richland County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



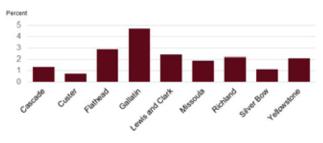
Custer County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



Source: Bureau of Business and Economic Research

BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

Eastern Montana Outlook

The Economic Outlook for **Flathead County**

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Flathead County Profile

Indicator	Value	State Rank
Total Population, 2019	103,806	4
Percent change since 2010	14.2%	2
Median age	42.2	37
Percent Aged 65 or Older	12.2%	
Percent with Bachelors Degree or Higher (Age 25+)	31.0%	10
Percent without Health Insurance Coverage, 2018	9.8%	42

Source: U.S. Census Bureau



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Flathead Outlook



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Flathead Outlook

Gallatin County Profile

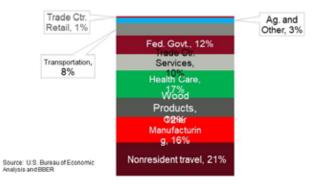
Indicator	Value	State Rank
Earnings per Job, 2019	\$44,333	20
Construction	\$48,502	23
Manufacturing	\$56,852	6
Retail Trade	\$33,416	17
Mining	\$37,341	21
Information	\$43,560	19

Source: U.S. Bureau of Economic Analysis

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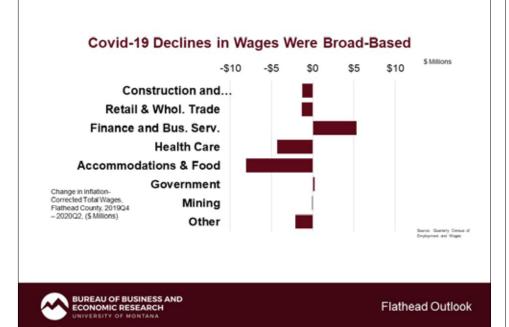




Flathead Outlook



Flathead Outlook



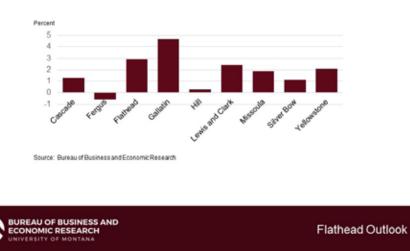
Flathead County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



The Economic Outlook for Gallatin County

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Gallatin County Profile

Indicator	Value	State Rank
Total Population, 2019	114,434	3
Percent change since 2010	27.8%	1
Median age	33.4	53
Percent Aged 65 or Older	12.2%	
Percent with Bachelors Degree or Higher (Age 25+)	50.1%	1
Percent without Health Insurance Coverage, 2018	8.6%	52

Source: U.S. Census Bureau



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Gallatin Outlook

BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

Gallatin Outlook

Gallatin County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$49,345	12
Construction	\$68,434	4
Manufacturing	\$55,729	7
Retail Trade	\$54,008	3
Forestry, Fishing and Related	\$23,565	11
Information	\$61,739	3

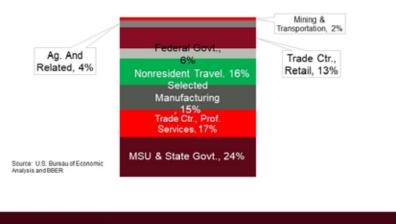
Source: U.S. Bureau of Economic Analysis



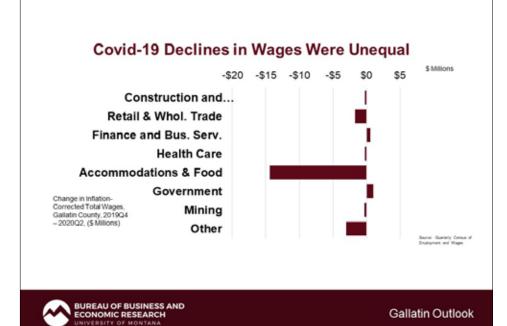
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Gallatin Outlook

Drivers of Economic Activity Percent Share of Income in Basic Industries, Gallatin County



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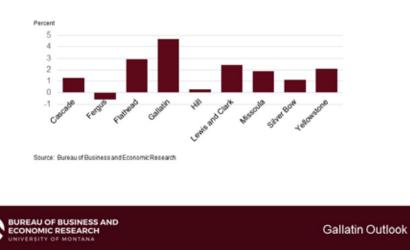
Gallatin County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



The Economic Outlook for Hill and Fergus Counties

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Hill County Profile

Indicator	Value	State Rank
Total Population, 2019	16,484	12
Percent change since 2010	2.4%	24
Median age	34.3	51
Percent Aged 65 or Older	14.5%	
Percent with Bachelors Degree or Higher (Age 25+)	25.4%	22
Percent without Health Insurance Coverage, 2018	12.1%	25

Source: U.S. Census Bureau



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Hill and Fergus Outlook



Hill and Fergus Outlook

Hill County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$48,535	13
Construction	\$54,266	17
Manufacturing	\$21,000	31
Retail Trade	\$32,837	18
Information	\$74,103	1
Transportation and Warehousing	\$110,421	4

Source: U.S. Bureau of Economic Analysis

Fergus County Profile

Indicator	Value	State Rank
Total Population, 2019	11,050	18
Percent change since 2010	-4.6%	51
Median age	45.3	31
Percent Aged 65 or Older	23.2%	
Percent with Bachelors Degree or Higher (Age 25+)	29.1%	14
Percent without Health Insurance Coverage, 2018	12.7%	20

Source: U.S. Census Bureau



BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

Hill and Fergus Outlook



Hill and Fergus Outlook

Fergus County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$39,651	31
Construction	\$74,792	1
Manufacturing	\$53,040	9
Retail Trade	\$30,435	26
Proprietors Income	\$16,686	36
Information	\$31,129	28

Drivers of Economic Activity

Percent Share of Income in Basic Industries, Fergus County

Nonres, Travel, 8%

Source: U.S. Bureau of Economic Analysis

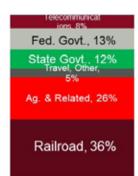


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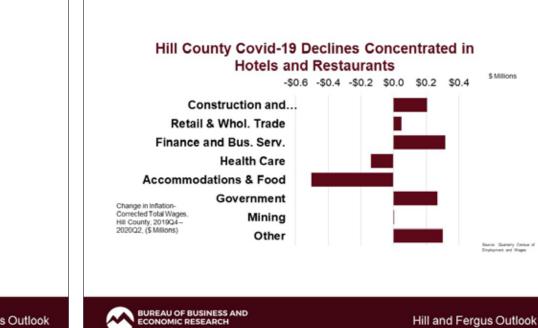
Hill and Fergus Outlook

Drivers of Economic Activity

Percent Share of Income in Basic Industries, Hill County



Hill and Fergus Outlook



Source: U.S. Bureau of Economic

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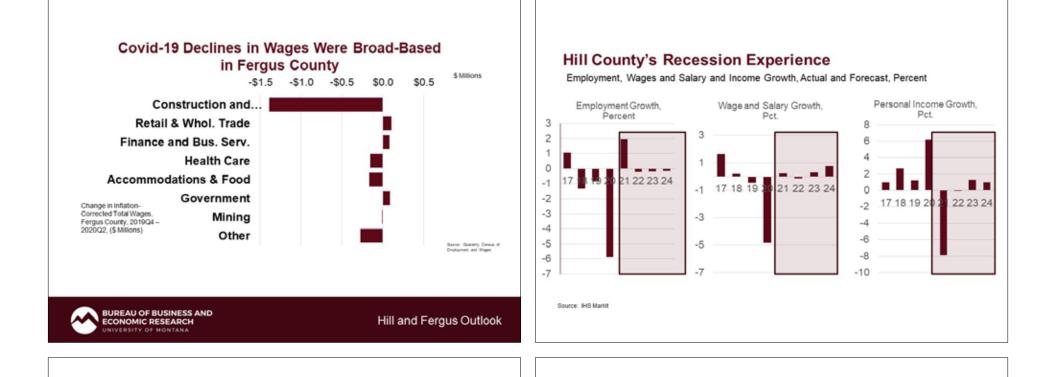
Analysis and BBER



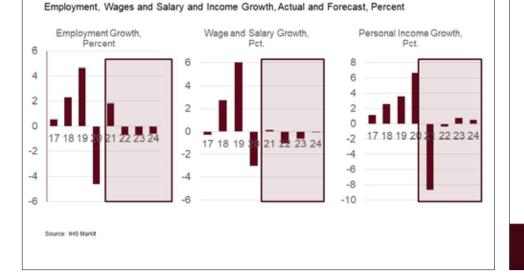
Hill and Fergus Outlook

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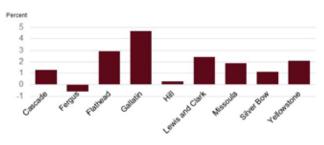


Fergus County's Recession Experience



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



Source: Bureau of Business and Economic Research

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Hill and Fergus Outlook

The Economic Outlook for Lewis and Clark County

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Lewis and Clark County Profile

Indicator	Value	State Rank
Total Population, 2019	69,432	6
Percent change since 2010	9.5%	7
Median age	40.8	42
Percent Aged 65 or Older	18.0%	
Percent with Bachelors Degree or Higher (Age 25+)	40.1%	3
Percent without Health Insurance Coverage, 2018	7.9%	54

Source: U.S. Census Bureau



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Lewis and Clark Outlook

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Lewis and Clark Outlook

Lewis and Clark County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$51,685	10
Construction	\$56,479	14
Manufacturing	\$58,971	5
Retail Trade	\$30,798	24
Transportation and Warehousing	\$56,879	21
Information	\$59,868	8

Source: U.S. Bureau of Economic Analysis

Drivers of Economic Activity Percent Share of Income in Basic Industries, Lewis and Clark County Ag. & Mining, 3% Frade Center, Inspectation & Inspected area

Government, 19% State Government, 53%

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

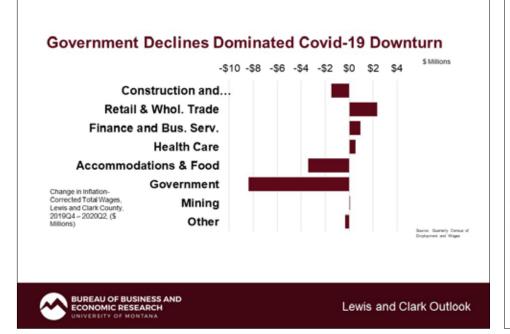


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Lewis and Clark Outlook



Lewis and Clark Outlook



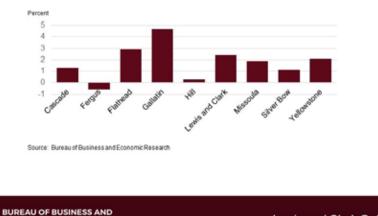
Lewis and Clark County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



2021 Economic Outlook Seminar

ECONOMIC RESEARCH UNIVERSITY OF MONTANA

The Economic Outlook for Missoula and Ravalli Counties

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Missoula County Profile

Indicator	Value	State Rank
Total Population, 2019	119,600	2
Percent change since 2010	9.4%	8
Median age	36.0	50
Percent Aged 65 or Older	15.0%	
Percent with Bachelors Degree or Higher (Age 25+)	43.0%	2
Percent without Health Insurance Coverage, 2018	9.0%	49

Source: U.S. Census Bureau



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Missoula Outlook

BUREAU OF BUSINESS AND ECONOMIC RESEARCH UNIVERSITY OF MONTANA

Missoula Outlook

Missoula County Profile

In	dicator	Value	State Rank
Ea	arnings per Job, 2019	\$47,844	15
	Construction	\$61,749	11
	Manufacturing	\$46,002	12
1	Retail Trade	\$37,900	11
	Forestry, Fishing and related	\$46,871	2
1	Information	\$61,247	5

Source: U.S. Bureau of Economic Analysis



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Missoula Outlook

Ravalli County Profile

l	ndicator	Value	State Rank
Т	otal Population, 2019	43,806	7
	Percent change since 2010	8.9%	10
	Median age	49.1	15
	Percent Aged 65 or Older	25.1%	
	Percent with Bachelors Degree or Higher (Age 25+)	27.8%	17
	Percent without Health Insurance Coverage, 2018	14.2%	15

Source: U.S. Census Bureau



Missoula Outlook

Ravalli County Profile

lı	ndicator	Value	State Rank
E	arnings per Job, 2019	\$34,836	41
	Construction	\$42,807	30
	Manufacturing	\$36,169	15
	Retail Trade	\$26,105	34
	Transportation and Warehousing	\$61,806	19

Source: U.S. Bureau of Economic Analysis



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BUREAU OF BUSINESS AND

ECONOMIC RESEARCH UNIVERSITY OF MONTANA Missoula Outlook

Missoula Outlook



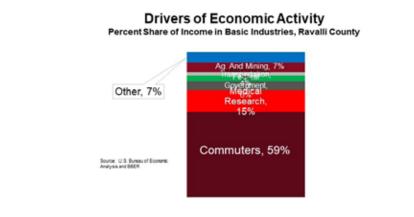
UM & Other State Govt

21%

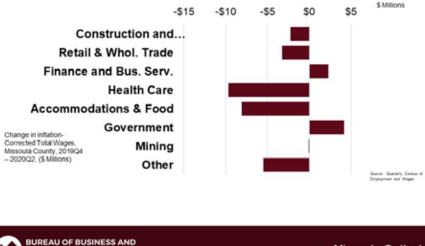
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Source: U.S. Bureau of Economic Analysis and BBER

Missoula Outlook

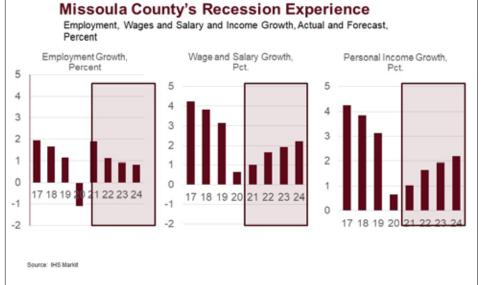


Covid-19 Declines in Wages Were Mixed



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Missoula Outlook



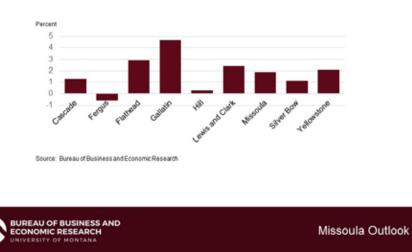
Ravalli County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



The Economic Outlook for Silver Bow County

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Silver Bow County Profile

Indicator	Value	State Rank
Total Population, 2019	34,915	8
Percent change since 2010	2.1%	27
Median age	40.0	44
Percent Aged 65 or Older	18.7%	
Percent with Bachelors Degree or Higher (Age 25+)	27.2%	18
Percent without Health Insurance Coverage, 2018	9.4%	45

Source: U.S. Census Bureau

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Silver Bow Outlook

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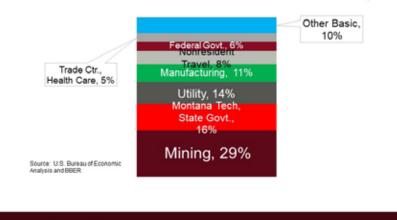
Silver Bow Outlook

Silver Bow County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$54,728	8
Construction	\$49,296	21
Manufacturing	\$64,475	3
Retail Trade	\$54,629	2
Proprietors Income	\$56,940	4
Information	\$43,109	21

Source: U.S. Bureau of Economic Analysis

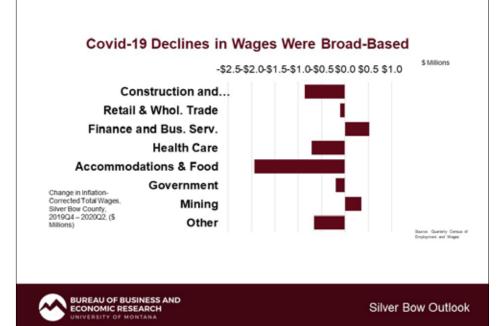




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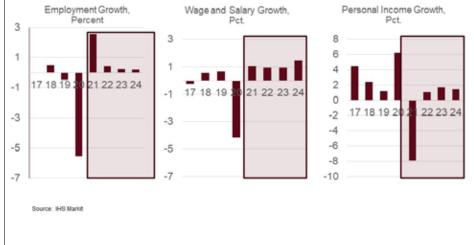
Silver Bow Outlook





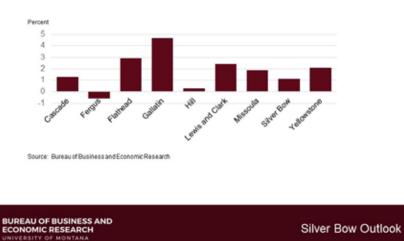
Silver Bow County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



The Economic Outlook for Yellowstone County

Patrick M. Barkey, Director Bureau of Business and Economic Research University of Montana

Yellowstone County Profile

Indicator	Value	State Rank
Total Population, 2019	161,300	1
Percent change since 2010	9.0%	9
Median age	38.4	47
Percent Aged 65 or Older	16.5%	
Percent with Bachelors Degree or Higher (Age 25+)	32.1%	7
Percent without Health Insurance Coverage, 2018	8.1%	53

Source: U.S. Census Bureau



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Yellowstone Outlook

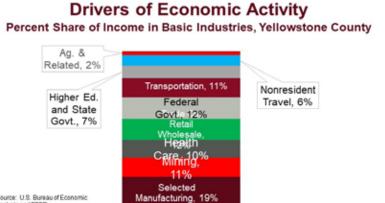
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Yellowstone Outlook

Yellowstone County Profile

Indicator	Value	State Rank
Earnings per Job, 2019	\$56,008	7
Construction	\$66,145	6
Manufacturing	\$97,428	1
Retail Trade	\$35,129	13
Transportation and Warehousing	\$65,772	15
Information	\$60,300	6

Source: U.S. Bureau of Economic Analysis



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

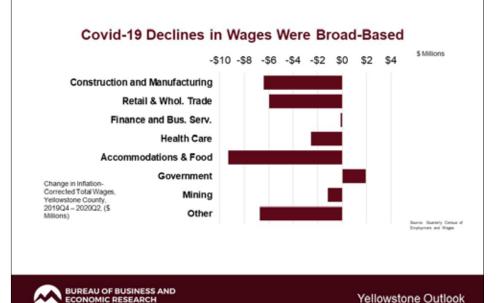


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Yellowstone Outlook



Yellowstone Outlook



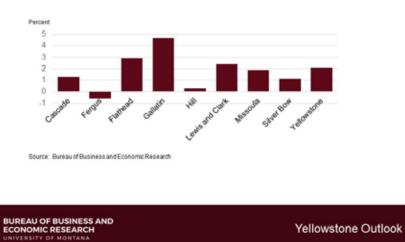
Yellowstone County's Recession Experience

Employment, Wages and Salary and Income Growth, Actual and Forecast, Percent



Gallatin County Expected to Pace Growth

Average Growth in Nonfarm Earnings, 2022-24, Percent per Year



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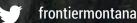
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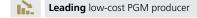


Sibanye-Stillwater is a leading international precious metals mining company, with a diverse portfolio of platinum group metal (PGM) operations in the United States and Southern Africa, as well as gold operations and projects in South Africa. The Group is the world's largest primary producer of platinum and rhodium, and the second largest primary producer of palladium, while it ranks third globally, on a gold and gold-equivalent basis.

MONTANA OPERATIONS

Sibanye-Stillwater is engaged in the development, extraction and processing of PGMs from a geological formation in south-central Montana known as the J-M Reef, which is the only known significant source of PGMs in the US and the highest-grade PGM deposit known in the world. Sibanye-Stillwater is also one of the world's largest global recyclers of PGMs derived from spent catalytic converters. Most of the PGMs produced are used in catalytic converters to reduce vehicle air emissions.

STILLWATER AND EAST BOULDER MINES



- **594,000 ounces** mined in 2019
- To date, a total of around **13.6 million PGM ounces** produced historically



Almost **27 million ounces** proven and probable reserves (78% palladium and 22% platinum)

COLUMBUS METALLURGICAL COMPLEX

- Includes smelter, base metal refinery and analytical laboratory
 More than 853,00 ounces of PGMs recycled in 2019
- A record **1.45 million PGM ounces** processed in 2019
- Consistently less than 5% of operating permit air emissions limits at the smelter

COMMUNITY LEADER

At Sibanye-Stillwater, we believe our mining improves lives. We are committed to creating superior value for all of our stakeholders, including employees, suppliers and communities.

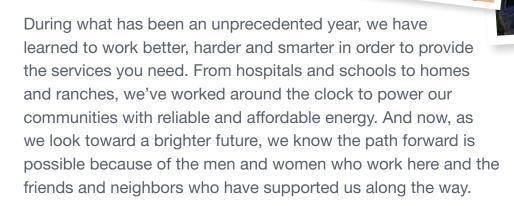
1,789 Montana employees \$22.6 million paid in local taxes in 2019 R **\$191 million** in payroll costs in 2019 \$44 million paid in employee taxes in 2019 * \$334 million spent in total on purchases in 2019 V Scholarships worth \$91,500 awarded in 2019 Almost \$400,000 spent on charitable contributions in 2019 - focused on rural emergency and healthcare services, STEM education, local community improvement activities and environmental stewardship www.sibanyestillwater.com





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