The Economic Contribution of Craft Brewing in Montana

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BUREAU OF BUSINESS

PECONOMIC RESEARCH



Introduction

The Bureau of Business and Economic Research (BBER) was commissioned by the Montana Brewers

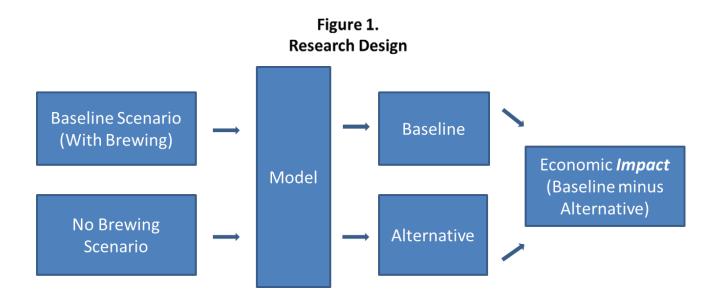
Association (MBA) to study the economic contribution of the craft brewing industry, a growing sector of
manufacturing activity in Montana. The project involved working with MBA as well as member and nonmember breweries to gather data on production, compensation (wages and salaries plus benefits),
expenditures, and other basic operating information for craft breweries in Montana. These data were
used in conjunction with an economic impact modeling software package. The research culminated with
summarizing and presenting the overall economic impact of craft brewing in the state.

The research was designed to answer the question, "What does the craft brewing industry contribute to the Montana economy?" To begin the analysis, it was critical to obtain accurate data on the income flows that the industry itself produces. The BBER utilized a well-respected economic model, Regional Economic Models, Inc. (REMI), to project the economy with and without brewing industry activities.

A nine-question survey was administered during summer 2012 via email and phone to all Montana brewers. Data were collected for 2010 and 2011 production, sales, employment, compensation,

expenditures, and benefits, with 97 percent of brewers (30 of 31) that were in operation by the end of 2011 responding to the survey¹. Survey data were aggregated and input into REMI by economic region within the state.

As depicted in Figure 1, this research compares an economy where the industry never existed in Montana (Alternative) versus the economy with brewing (Baseline). All impacts presented compare a "with brewing" scenario to a "without brewing" scenario. The differences between the Baseline and Alternative economies represent the total contribution of the operations of craft brewers to the Montana economy.



¹ This does not include 2 breweries that began operating in December 2011, but did not have operational data to report for that month, so they were excluded from the survey data collection process. There were actually 33 breweries in business in Montana by the end of calendar year 2011.

Survey Data

The survey data collected by BBER are presented in Table 1. Production increased from just over 87,000 barrels (bbl) to nearly 103,000 bbl from 2010 to 2011 – an 18 percent increase. Beer sales increased from just under \$22 million to more than \$26 million from 2010 to 2011 – a 20 percent increase. Employment, including both full- and part-time jobs, increased from 231 to 320 from 2010 to 2011 – a 39 percent increase. Compensation (wages and salaries plus the value of benefits packages) increased from \$5.2 million to \$6.4 million from 2010 to 2011 – a 23 percent increase. Expenditures (excluding labor) increased from \$15.6 million to \$18.8 million from 2010 to 2011 – a 21 percent overall increase.

Table 1.

Montana Brewery Survey Data Summary

		•	
			Percent
Category	2010	2011	Change
Production	87,442 Barrels	102,925 Barrels	18%
Beer sales	\$21.8 Million	\$26.1 Million	20%
Employment	231 Jobs	320 Jobs	39%
Compensation	\$5.2 Million	\$6.4 Million	23%
Expenditures (excluding employee compensation)	\$15.6 Million	\$18.8 Million	21%

As shown in Figure 2, brewers were asked what portion of their expenditures, other than employee compensation, occurred in Montana. Overall, expenditures rose by 21 percent, from \$15.6 million to \$18.8 million. The Montana portion of expenditures rose from \$6 million (38 percent of total expenditures) in 2010 to \$7.5 million (40 percent of total expenditures) in 2011. The percentage of expenditures made within the state varied widely amongst brewers, and brewers reported that anywhere from 2 percent to 90 percent of their expenditures were in Montana. Some brewers noted

that they would prefer to buy more supplies from within Montana, but they were unable to obtain some of their inputs locally.

20 ■ Out-of-state expenditures 18 ■ MT Expenditures 16 14 11.3 (\$) Millions 12 9.6 10 8 6 4 7.5 6.0 2 0

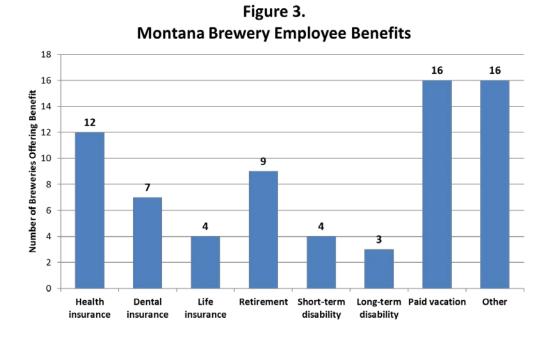
Figure 2.
Montana Brewery Expenditures

Providing health insurance and other benefits is clearly a high priority for many breweries in the state.

2011

Figure 3 shows the number of breweries that offer various benefits to their employees.

2010



Paid vacation is the most common employee benefit, which is offered by 16 of the breweries in Montana. Health insurance is offered by 12 breweries. The next most common benefit is retirement, followed by dental insurance, life insurance, short-term disability, and long-term disability. While many benefits are not offered at a majority of breweries, the larger and more established breweries tend to offer more comprehensive benefits packages. Therefore, the majority of employees working in the industry are employed at breweries that do offer benefits. For example, of the 320 Montana employees working in the industry in 2011, 78 percent worked at breweries offering health insurance, 65 percent worked at breweries offering retirements benefits, and 57 percent worked at breweries offering dental insurance. However, the survey did not identify the number of employees receiving benefits at each brewery, and it should be noted that not all employees at breweries that offer benefits work enough hours to qualify for benefits. Other benefits offered at breweries include funds for health savings accounts, ski passes, cell phones, merchandise discounts, and flexible work schedules.

Economic Impact Results

Results from the REMI economic impact simulation are summarized in Table 2. This study finds that because the craft brewing industry exists in Montana, the state economy is larger and more prosperous. Government revenues are also higher as a result of the industry. Because of the operations of the craft brewing industry:

- There is an employment impact of 434 jobs across various sectors of the state economy;
- In addition to the jobs in the manufacturing sector, there are significant impacts in the construction, health care, and retail trade sectors;
- There are employment and output (private sector sales) impacts throughout the five regions of the state, though they are concentrated in the northwest region;

- Because of the brewing industry, output (private sector sales) is \$48.4 million higher than would otherwise be the case;
- Private non-farm compensation and government compensation are \$9.8 and \$1.8 million higher,
 respectively, than they would be without the existence of craft brewing in Montana;
- Population in the state is 36 people higher than it would be without the Montana craft brewing industry;
- State government revenues are \$1.5 million higher than they would be without the Montana craft brewing industry.

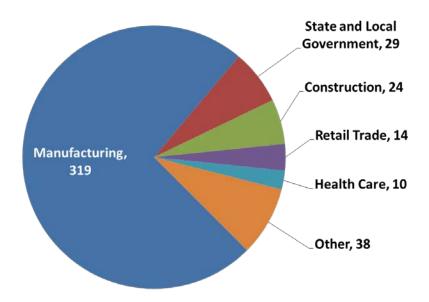
Table 2. Economic Impacts of Beer Brewing in Montana

Category	Impact
Total Employment	434 Jobs
Output (Private Sector Sales)	\$48.4 Million
Compensation (Private Non-Farm)	\$9.8 Million
Compensation (Government)	\$1.8 Million
Population	36 People
State government revenues	\$1.5 Million

Impacts by Industry Sector and Montana Region

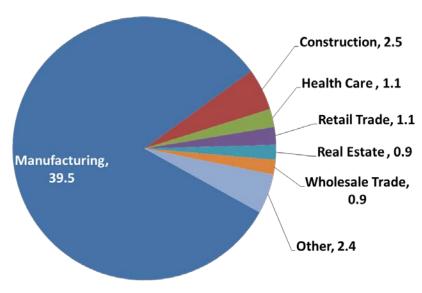
Economic impacts of the brewing industry are spread across several industry sectors and also dispersed across the state. Clearly, the manufacturing sector, which includes the brewing industry, holds the largest share of the employment impacts, as shown in Figure 4.

Figure 4.
Employment Impacts by Industry
(Number of Workers)



However, the employment impacts of the brewing industry are revealed in several other sectors as well. This includes 29 jobs in state and local government, 24 jobs in construction, 14 jobs in retail trade, 10 jobs in health care, and 38 additional jobs in other sectors. Output impacts (Fig 5.), measured by private sector gross sales total \$48.4 million, \$39.5 million of which can be attributed to the manufacturing industry.

Figure 5.
Output (Gross Sales) Impacts by Industry
(Private Sector, \$Millions)



While concentrated in the more populous regions of the state, economic impacts due to craft brewing extend into each region of the state. For the purpose of the analysis, impacts were split into five Montana regions (Figure 6). As of the end of calendar year 2011, there were 12 breweries in northwest Montana, seven in southwest Montana, four in north central Montana, eight in south central Montana, and two in eastern Montana. Figures 7 and 8 show output and the employment impacts by region, respectively.

Figure 6.
Economic Regions & Number of Active Breweries, 2011
(33 total)

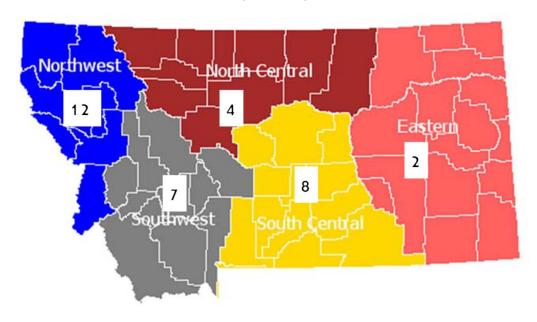
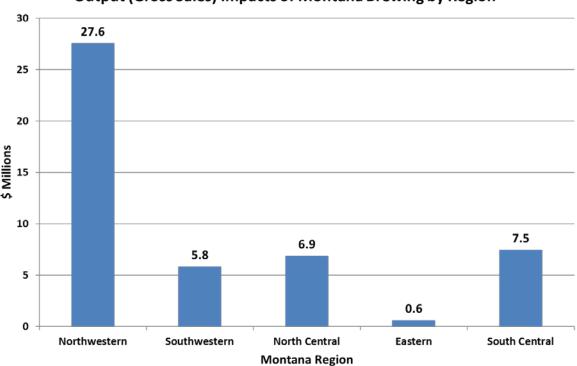
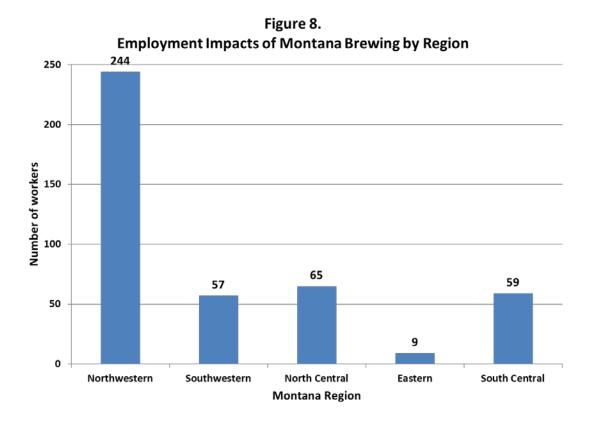


Figure 7.
Output (Gross Sales) Impacts of Montana Brewing by Region





Conclusion

Based on the data collected from Montana breweries, the industry grew rapidly from 2010 to 2011. Production rose 18 percent, sales were up 20 percent, employment (both full- and part-time) was up 39 percent, compensation increased 23 percent, and expenditures were up 21 percent. Operations of craft brewers produce a significant impact on the state economy. More than 430 jobs, nearly \$50 million in private sector sales, \$9.8 million in private non-farm compensation, \$1.8 million in government compensation, and \$1.5 million in state government revenues exist in the economy due to craft brewing operations in Montana. Jobs are spread across a wide spectrum of the economy, and impacts recur every year the brewing industry operates.

This work has developed a baseline economic impact of the brewing industry on Montana's economy. In the future, additional research could be conducted to monitor changes in the economic impact of the industry over time. Furthermore, the effects of legislative changes could be modeled to inform policymakers on the impact of changing legislation on the Montana economy.

1) Prowery name:

Appendix - Montana Brewing Survey

Montana Brewing – Economic Impact Study

The Montana Brewers Association has commissioned a study on the economic contribution of brewing in the state of Montana. The study is being conducted by the Bureau of Business and Economic Research (BBER) of the School of Business Administration at The University of Montana.

To be able to estimate the commercial craft brewing industry's economic impact in Montana, the BBER needs to ask a few questions regarding your business' income and expenditures. **Our goal is 100% participation by Montana brewers**. Your participation is appreciated and very important because it will allow us to accurately present the economic impact of the brewing industry in Montana. Individual firm responses will be kept confidential by the BBER and only aggregated results will be presented.

Please return survey by Aug 6, 2012 via email, fax, telephone, or the post.

Note: if you have more than one brewing location, please provide the total for all locations. If you have questions, please contact Colin Sorenson or Todd Morgan at 406-243-5113.

1) Brewery name		
2) Contact person:	Title:	
3) What was your company's total b	eer production (barrels)?	
2010		
2011		
4) What was the sales value from yo	our beer sales?	
2010		
2011		
5) What was the average number of	employees who worked for your company? Cou	nt as the average
number of individuals both full and	part-time—not FTEs.	
2010		
2011		
6) What were your total compensati	ion costs (payroll + benefits)?	
2010		
2011		

	's total ex	penditu	res, excluding labor but including vendor purchases and
capital costs?			
2010			
2011			
Montana. This includes direct goods were ultimately source 2010% 2011%	t purchase ed.	es from	al expenditures, excluding labor, that occurred in an office or warehouse in Montana, despite where benefits? Please indicate YES or NO for each.
	YES	NO	
Health Insurance			
Dental Insurance			
Life Insurance			
Retirement			
Short-Term Disability			
Long-Term Disability			
Paid Vacation			
Other			
Please describe "other" bene	fits:		-

Thank you for your participation in this important study. All participating Montana brewers will receive a copy of the final report, and we will be presenting the results at the October 7-8, 2012 Montana Brewers Conference in Missoula.