



**The Economic Impact of
The Higher Education System
Of the State of Oklahoma**

Prepared by Regional Economic Models, Inc.

For

The Oklahoma State Regents for Higher Education

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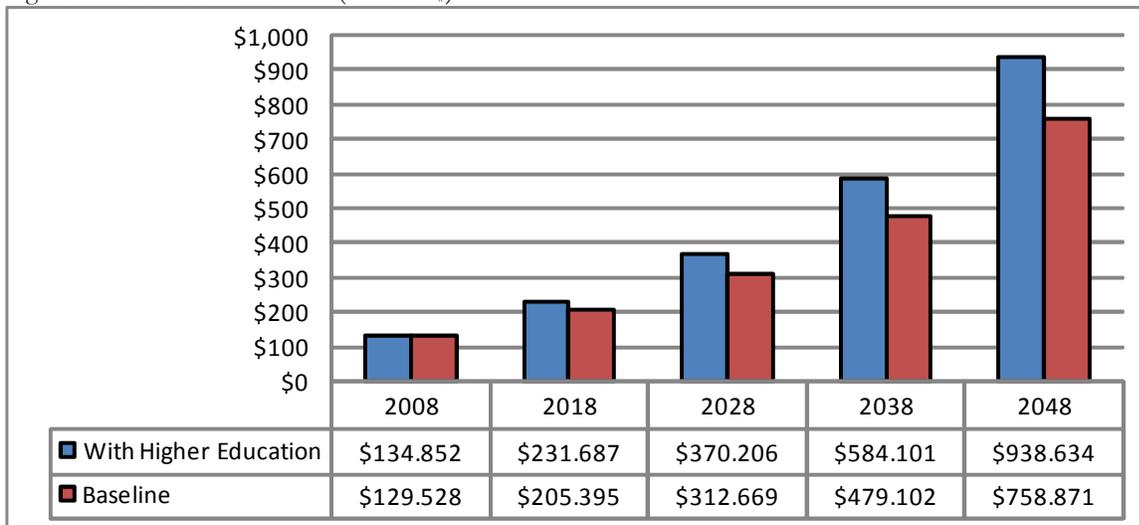
I. Executive Summary

The Oklahoma State Regents for Higher Education (OSRHE) contracted with Regional Economic Models, Inc. (REMI) to analyze the economic contribution of higher education on Oklahoma. The results of this analysis demonstrate the state’s economic dependence upon higher education and, more specifically, its graduates.

Beginning with 2008 and examining only current and future contributions of higher education, the study shows that by 2048 the different facets of higher education will contribute to over 23% of Oklahoma’s economy. Given that Oklahoma has benefited from the gains of higher education for over one hundred years, it is likely that past graduates and higher education spending have contributed a comparable percentage to today’s economy. The analysis herein begins with today’s economy, which already includes the contributions of higher education to date, and examines the changes to it moving forward. Using a model of the State of Oklahoma and data provided by the OSRHE, REMI evaluated the contributions of higher education from 2008 to 2048. The contributions include direct institutional employment and spending, student and visitor spending, and, finally, graduate earnings and productivity.

Such a large contribution over time results in small investments in the present yielding large returns in the future. For example, in the first analysis year, \$1.099 billion of state higher education funding results in \$6.76 billion of economic activity. In other words, one dollar from the state enables \$5.15 of additional economic activity that is directly attributable to the activities linked to the institutions of higher education. Furthermore, that initial investment of one dollar yields \$27.07 over the analysis period as the effects of graduate earnings and productivity make their mark on the economy.

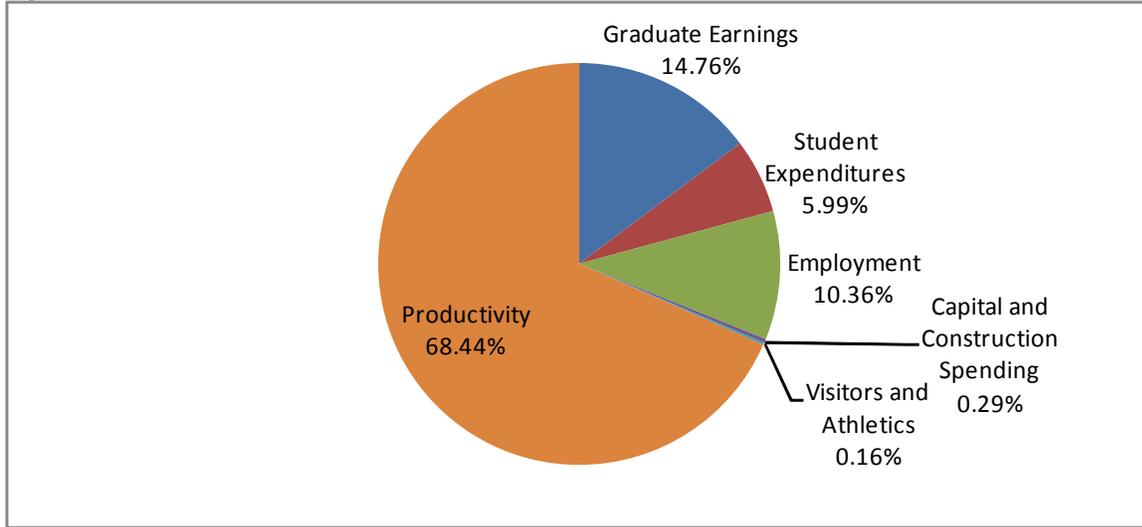
Figure 1-1: Gross State Product (Bil Nom\$)



As the largest contribution of higher education, graduate productivity itself will account for over 16 percent of the state’s economy, a fact that highlights the importance of a skilled and educated workforce. The main reason behind productivity’s strength is the compounding effect of numerous

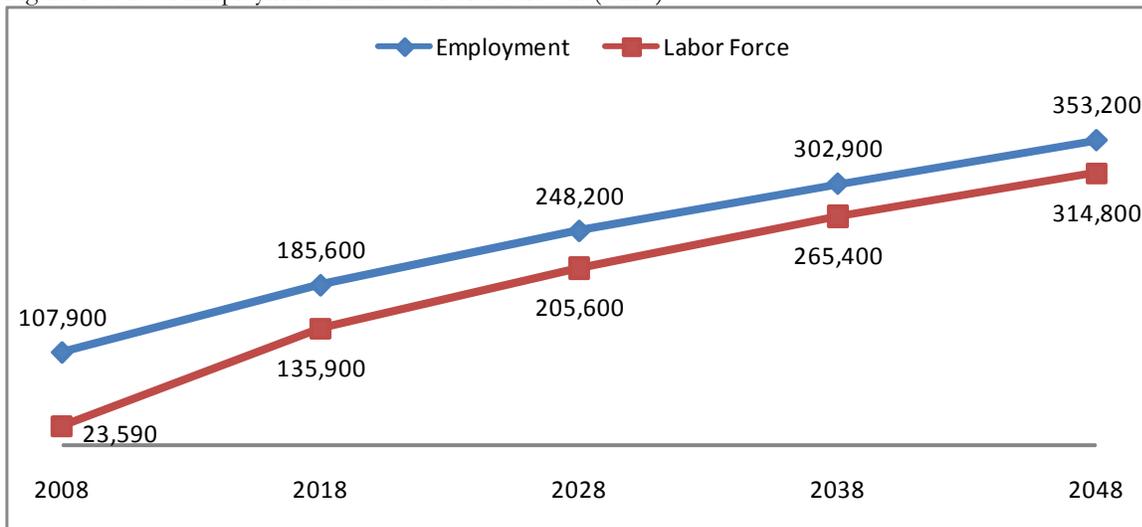
years' graduates, as each year colleges and universities graduate a class of seniors who will be more productive than non-college-educated individuals over their entire working lives. So, in the following year, when another class graduates, there will be two groups of more productive workers. The next year there will be three, in the next four, and so on. These compounding effects quickly produce huge impacts on the economy.

Figure 1-2: Shares of Cumulative Growth in Gross State Product over Baseline Scenario



The economic growth caused by the contribution of higher education supports many new jobs and increases the attractiveness of Oklahoma to others. Excluding teaching occupations, which unsurprisingly show large gains, the top ten growing occupations consist of jobs seemingly disparate from and unrelated to higher education. Among these jobs are architects and surveyors, grounds maintenance workers, artists and designers, building cleaners and pest control, and various media occupations.

Figure 1-3: Total Employment and Labor Force Growth (Units)



It pays to have a local source for a resource as valuable as education. By not relying on imports from other regions, Oklahoma produces homegrown graduates who already know the state and its needs, and have an extra incentive to continue to improve it. By providing an arena for the educators and the educated to come together, higher education is moving Oklahoma and its economy toward a future of long-term, sustained competitive advantage.

II. Introduction

The Oklahoma State Regents for Higher Education (OSRHE) contracted with Regional Economic Models, Inc. (REMI) to analyze the economic contribution of Oklahoma's higher education system. As well as providing hundreds of thousands of Oklahoma residents with the opportunity to obtain the advantages of higher education, the Oklahoma higher education system provides enormous economic benefits to the state economy. For this study, REMI used a model of the State of Oklahoma to show the overall economic activity that depends on the state's higher education system.

The system provides three categories of benefits: direct jobs and spending; productivity benefits, which result in part to higher income to Oklahoma residents and in part to the state hosting more competitive industries; and additional benefits such as the economic activity generated by nationally recognized sporting franchises. In each of these categories, further economic activity is generated as the firms and individuals that directly benefit from higher education provide further ripple effects throughout the economy.

The direct economic activity associated with the system consists of three major components. The most important aspect is faculty and staff employment of state universities, colleges, and technical schools. Student spending, which includes spending on books, tuition, room and board, and miscellaneous expenditures, is the second major component. Finally, this study includes construction, operations, and maintenance expenditures.

When people are educated, their productivity increases. This productivity improvement benefits workers through higher compensation and firms through increased productivity. Increased employee compensation leads to further economic activity as the additional income flows through the economy. Additionally, the increase in employee productivity leads to more competitive businesses in Oklahoma that will then increase their production in response to growing market share.

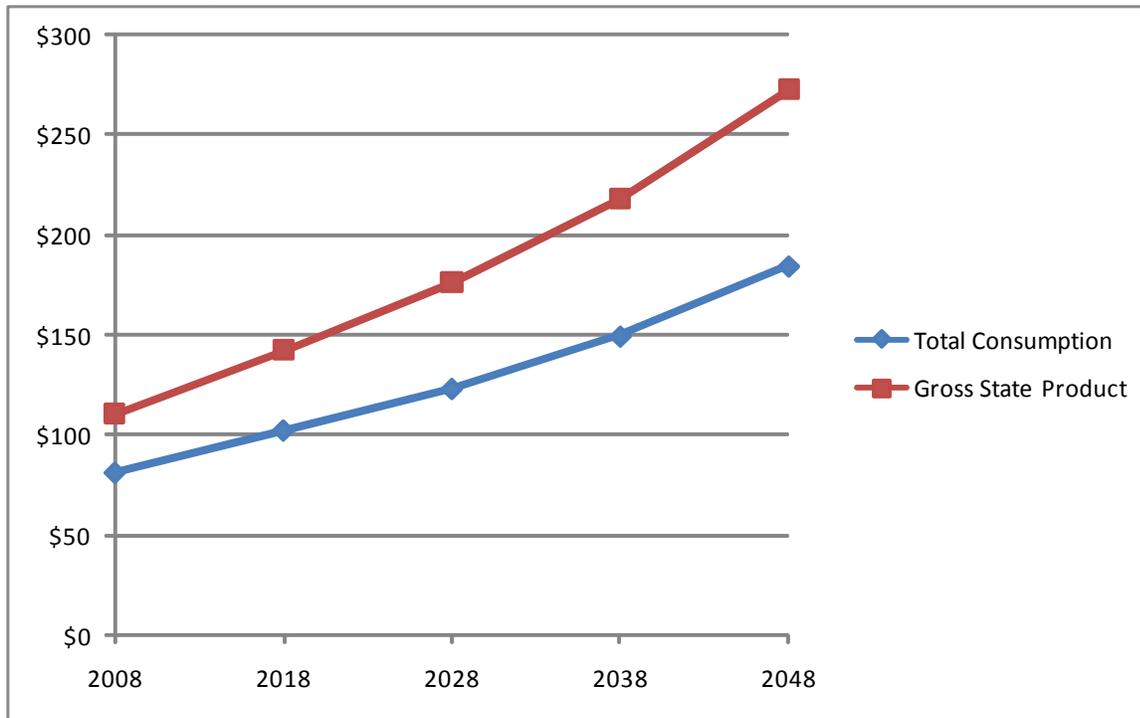
This report begins by examining the baseline or "business as usual" scenario. After a description of the methodologies, the simulation results are presented separately for the system as a whole. A brief conclusion precedes the data tables, an overview of Policy Insight, and contact information for Regional Economic Models, Inc and the Oklahoma State Regents for Higher Education.

III. Overview of Oklahoma's Economy

In order to fully understand the results presented in this report, it is important to examine the baseline forecast for the economy of the State of Oklahoma. All the results presented in Section V, unless otherwise noted, are in terms of the difference from the baseline scenario. Therefore familiarity with this scenario allows the reader to better judge the magnitude of the economic impacts of the simulation. Below is an overview of the baseline scenario with a focus on the factors that will be examined in results section of this report (Section V).

The State of Oklahoma has fared well in recent years. With a large energy sector and robust manufacturing, the State's economy has to a large extent resisted the hardships facing other regions of the county. Figure 3-1 shows the projected consumption and gross state product (GSP) of Oklahoma for the analysis years. The figure shows the large proportion of GSP that is provided by consumption. As in the rest of the nation, as a component of GSP, consumption is the main driver behind economic growth in Oklahoma.

Figure 3-1: Consumption and Gross State Product (Billions Fixed 2000\$), Baseline



Driven by consumption, Trade, which is comprised of both retail and wholesale trade, makes up the largest sector in the economy. Figure 3-2 further shows that Manufacturing is third, only slightly behind Transportation, Information, Finance, and Insurance. Interestingly, Oklahoma's large energy sector, which, insofar as it is concerned with the extraction of oil and gas, is in the Mining sector, comprises only eight percent of the value-added in the economy. With demand for energy still

growing despite climbing prices for oil and other petroleum products, the mining sector of the economy looks to remain strong for the foreseeable future.

Figure 3-2: Share of Gross State Product in 2008, By Major Sector, Baseline

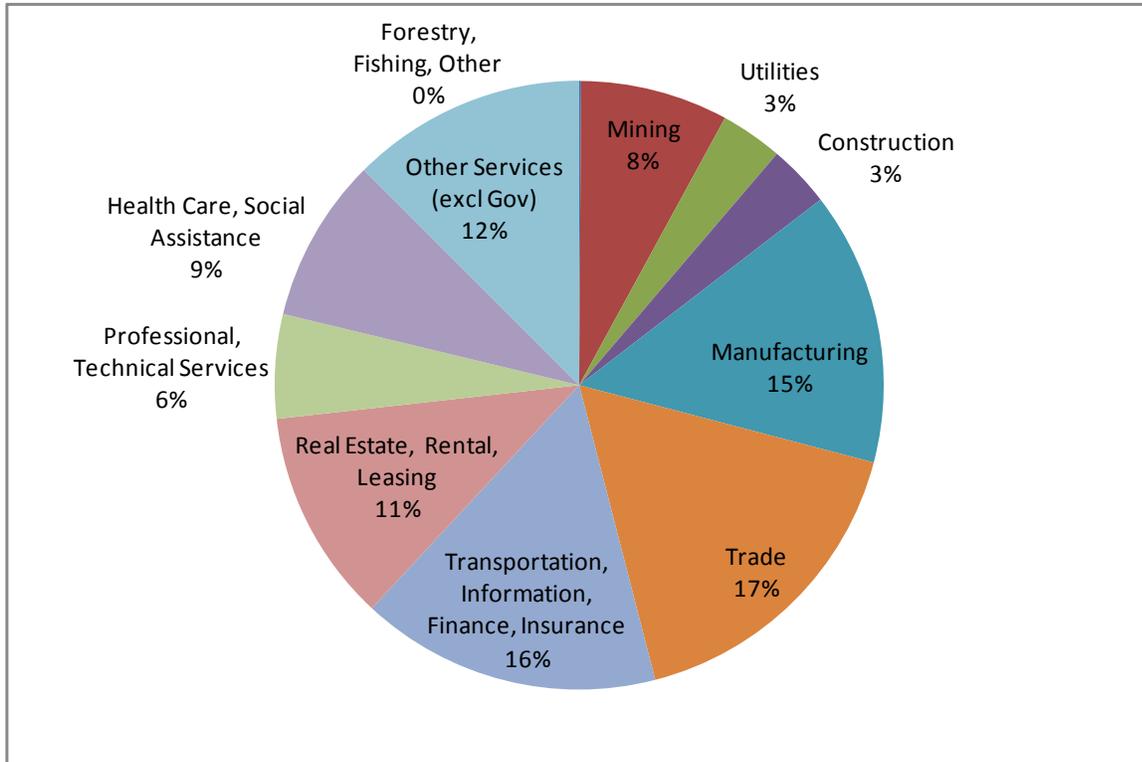


Figure 3-2 and Table 3-1 also show that Oklahoma's economy, like that of the United States in general, is dominated by services, which as a group comprises 70.1 percent of the GSP. Oklahoma has strengths in high growth sectors such as Trade and Transportation, Information, Finance, and Insurance, sectors which include air transportation, broadcasting, banking, and various pension and investment funds.

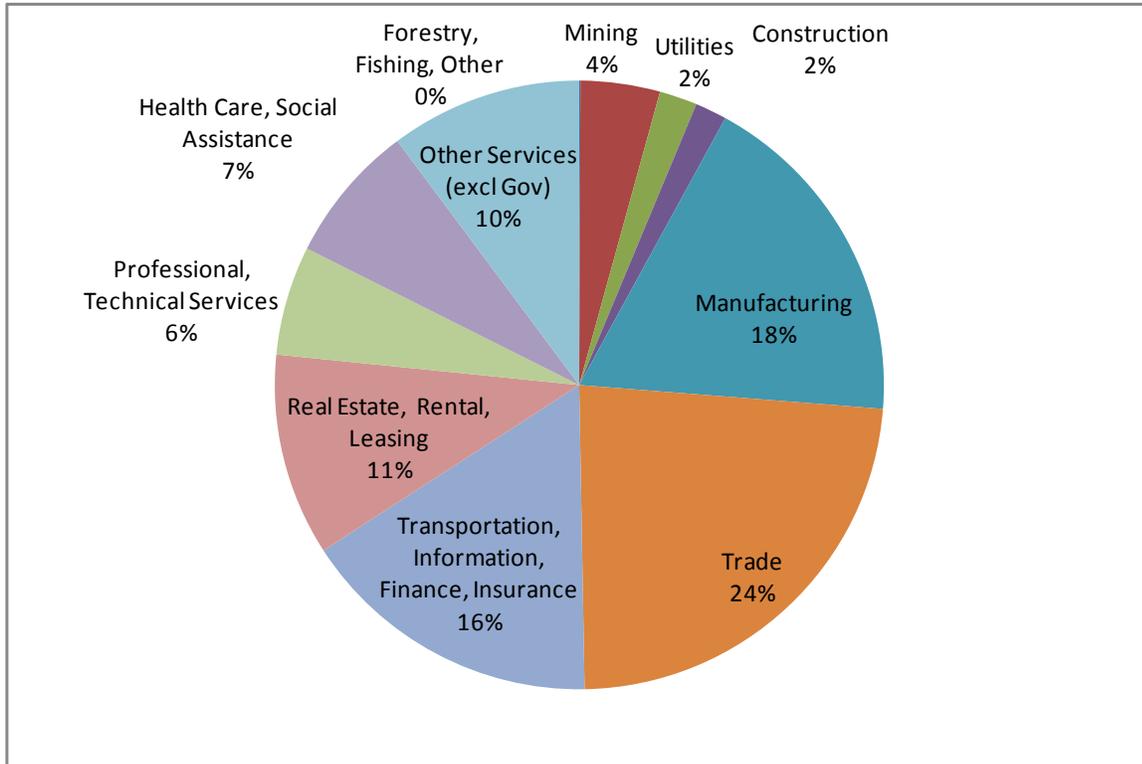
That said, the manufacturing sector has also grown on average over the past decade. The manufacturing sector in Oklahoma produces mainly durable goods, which include such production sectors as machinery and fabricated metal product manufacturing. While the U.S. is in the midst of an economic downturn, the weak dollar is expected to help export industries, especially manufacturing industries, which can take advantage of the relative decrease in the prices of their products to foreign buyers.

Table 3-1: Value-Added, Services (Bil Fixed 2000\$), Baseline

Sector	2008	2048	Percent Change
Wholesale trade	\$6.504	\$21.629	233 percent
Retail trade	\$8.861	\$27.835	214 percent
Air transportation	\$1.620	\$4.818	197 percent
Rail transportation	\$0.210	\$0.560	167 percent
Water transportation	\$0.000	\$0.001	--N/A--
Truck transp; Couriers, msngrs	\$1.808	\$4.914	172 percent
Transit, ground pass transp	\$0.031	\$0.070	126 percent
Pipeline transportation	\$0.245	\$0.487	99 percent
Scenic, sightseeing transp; support activities	\$0.272	\$0.801	194 percent
Warehousing, storage	\$0.166	\$0.512	208 percent
Publishing, exc Internet	\$0.652	\$2.444	275 percent
Motion picture, sound recording	\$0.036	\$0.158	339 percent
Internet services, data processing, other	\$0.413	\$1.277	209 percent
Broadcasting, exc Internet; Telecomm	\$3.675	\$9.400	156 percent
Monetary authorities, et al.	\$3.049	\$7.163	135 percent
Securities, commodities contracts, investments	\$0.476	\$1.107	133 percent
Ins carriers, related activities	\$1.818	\$4.214	132 percent
Real estate	\$6.632	\$14.271	115 percent
Rental, leasing services	\$3.657	\$11.625	218 percent
Prof, tech services	\$5.039	\$13.483	168 percent
Mgmnt of companies, enterprises	\$1.438	\$4.188	191 percent
Administrative, support services	\$3.616	\$9.403	160 percent
Waste mgmnt, remedial services	\$0.197	\$0.423	115 percent
Educational services	\$0.482	\$1.100	128 percent
Ambulatory health care services	\$4.531	\$10.978	142 percent
Hospitals	\$2.056	\$4.720	130 percent
Nursing, residential care facilities	\$0.765	\$1.675	119 percent
Social assistance	\$0.579	\$1.315	127 percent
Performing arts, spectator sports	\$0.082	\$0.194	137 percent
Museums et al.	\$0.017	\$0.038	124 percent
Amusement, gambling, recreation	\$0.518	\$1.230	137 percent
Accommodation	\$0.337	\$0.747	122 percent
Food services, drinking places	\$2.066	\$3.101	50 percent
Repair, maintenance	\$0.923	\$1.984	115 percent
Personal, laundry services	\$0.658	\$1.548	135 percent
Membership assoc, organ	\$0.885	\$1.972	123 percent
Private households	\$0.146	\$0.239	64 percent
Total	\$64.460	\$171.624	166 percent

Figure 3-3 summarizes the growth in Oklahoma’s economy during the analysis years. It should be noted that the Figure does not show the growth of each sector, but each sector’s share of *total* growth. Thus, services make up nearly three-quarters of the total growth in value-added between 2008 and 2043, reflecting the continuing trend of a service-driven economy. Trade alone is responsible for nearly a quarter of economic growth, with Manufacturing and Transportation, Information, Finance, and Insurance making up the next two largest shares. The three sectors together account for 58 percent of value-added growth over the analysis period.

Figure 3-3: Share of Total Value-Added Growth from 2008 to 2048, By Major Sector, Baseline

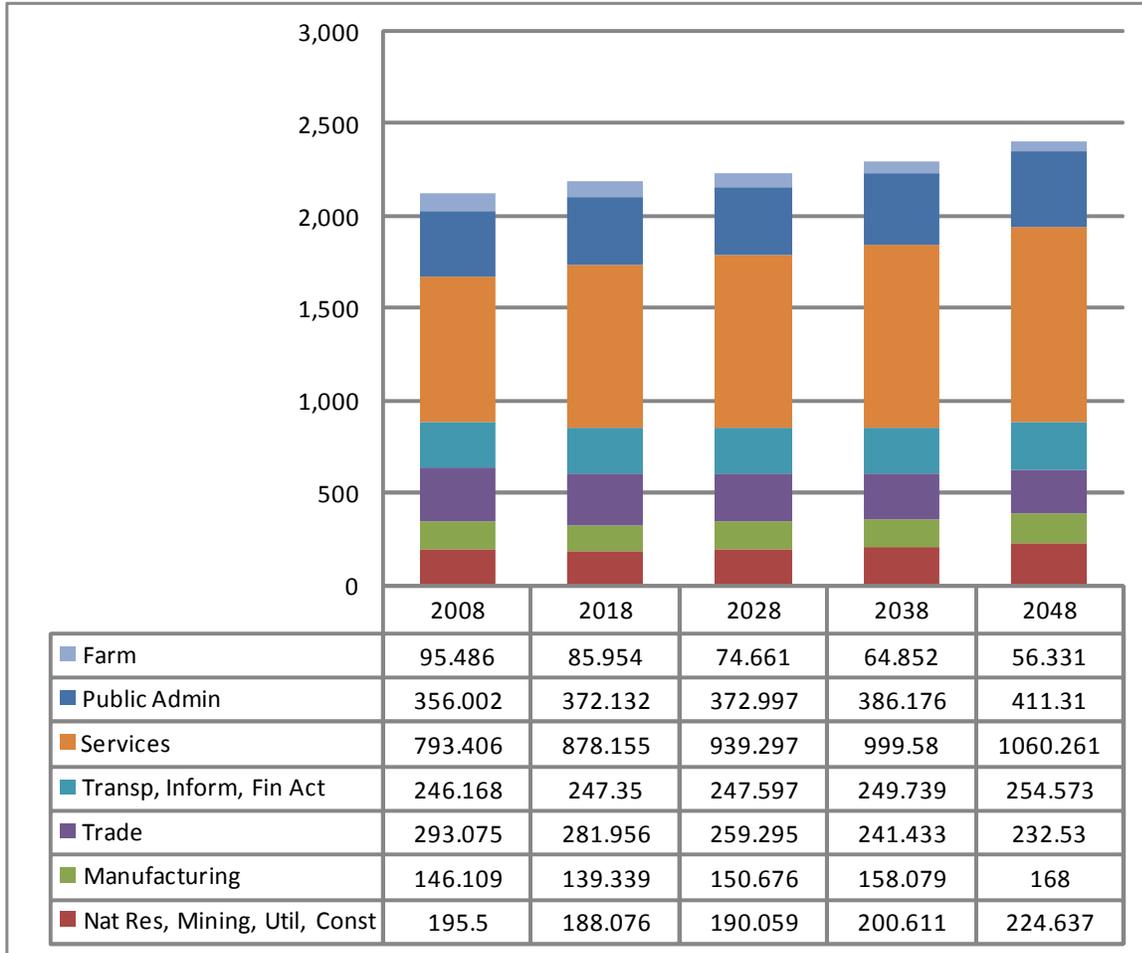


The economic growth shown in the previous graphs also supports strong growth in employment despite labor productivity more than doubling over the analysis period. Specifically, productivity increases by 121 percent during which time output increases by 156 percent. Accounting for the remaining growth is the 13 percent growth in employment. During this time, the labor force grows by only 11.2 percent, which leads to lower unemployment among Oklahoma residents due to the growth differential between the number of jobs and the number of people available to fill them.

Figure 3-4, on the next page, summarizes the growth in employment. Each bar represents total employment and is divided according to each major sector’s contribution to that total. As would be expected, employment in the services comprises the greatest portion of employment and shows the greatest growth. Interestingly, while Trade contributes 24 percent of the growth in value-added, its employment numbers actually decrease. This occurs because the labor productivity for the sector grows steeply enough such that its workers can produce significantly more output with fewer

employees. The components of Trade, which are retail and wholesale trade, grow by 293 and 320 percent, respectively.

Figure 3-4: Employment (Thous), By Major Sector Components of Total Employment, Baseline



IV. Methodology and Simulation Inputs

This section will outline and describe the derivation of the inputs that drove the various simulations that were carried out in the process of producing this report. For tables of the actual input values please see Section VII: Tables.

The Oklahoma State Regents for Higher Education (OSRHE) contracted Regional Economic Models, Inc. (REMI) to conduct an analysis of the contribution of the higher education system of the State Oklahoma to the State's economy. In response, REMI developed a single-region, 70-sector Policy Insight model. The single region is the State of Oklahoma and the 70 sectors refer to the number of industrial sectors that the model can independently analyze and for which the user can view separate results. The industrial sectors are based on the North American Industry Classification System (NAICS) codes and the 70 sectors roughly correspond to the three digit detail within the NAICS codes.

Most of the inputs for the Policy Insight model were taken directly from data provided by the OSRHE. These data included employment and graduate numbers and retention rates, construction and capital spending, student spending, and visitor and athletics spending, and were included in the model without manipulation. For the purpose of modeling out to 2048, we assumed no growth in the numbers provided by the OSRHE. The last history year (nearly universally 2006) was used as the input value for all years of the simulation. While it is likely that the number of students and faculty and their associated expenses and expenditures will increase over time, keeping the data constant avoids the necessity of making often messy and subjective assumptions regarding the future rate of growth and the distribution of graduates among degree types. This constancy also provides conservative results that are free from speculative oscillations and can be reliably examined and presented.

Obtaining the inputs for the productivity simulation required numerous steps. We began with the baseline output of each of the 70 industrial sectors for each analysis year (2008 - 2048). Using this data, we obtained each sector's share of the total output. Then, using the baseline labor productivity and average annual compensation of each sector in each analysis year, we obtained the ratio of an employee's output relative to his pay. Using each degree's income differential and the other factors we had already determined, we obtained a sector- and year-specific value that represents each degree's contribution to output, i.e. its productivity, and thus the dollar value of output that must be removed in order to model its effects.

The resulting number was then scaled down to remove intermediate employment and to represent the number of Oklahoma graduates used to fill new jobs. Because we are manipulating output and not value-added, the output of one group of workers is included in the output of other groups because the value of intermediate inputs are not removed. To prevent this double-counting which would artificially inflate the results, we reduced the resulting output by the percentage of

intermediate employment to total employment. Finally, the probability of a new employee being an Oklahoma graduate was used to perform one last adjustment before entering the data into the simulation. The manipulations can be summarized as follows:

$$\Delta Output_t^j = \left[1 - \left(\frac{Intermediate}{Emp} * \frac{Grads}{\Delta Emp} \right) \right] * \left(\frac{Output_t^j}{TotalOutput_t} \right) * \left(\frac{prod_t^j}{comp_t^j} \right) * (DiffIn_t^i)$$

where

$\Delta Output_t^j$ is the change in output of sector j in year t ;

Intermediate is the intermediate demand for employment in 2006;

Emp is total employment in 2006;

Grads is the total number of graduates of all degrees in 2006¹;

ΔEmp is total new employment in 2006;

$Output_t^j$ is the baseline output of sector j in year t ;

$TotalOutput_t$ is the baseline output of the State of Oklahoma in year t ;

$prod_t^j$ is the baseline labor productivity of sector j in year t ;

$comp_t^j$ is the baseline average annual compensation of sector j in year t ;

$DiffIn_t^i$ is the income differential of degree i in year t .

By calculating a sector's share of total output, we were able to obtain a measure that would effectively allocate the total income differential among the various industrial sectors according to their baseline contributions to the economy. However, income alone cannot be used as a measure of an employee's productivity. If employees were to receive their total productivity as their compensation then no company would have any profits, making it necessary to transform the income figure into a measure of productivity. Using the ratio of labor productivity to compensation, we obtain a measure that relates pay to productivity and allows us to upwardly adjust each sector's share of the total income differential into a productivity measure by an amount specific to that sector's compensation ratio in every analysis year.

The data for the income differential and the new employment for 2006 were the only data not obtained from Policy Insight. The income differentials were taken from the 2006 American Community Survey from the Census Bureau, and along with retention rates and graduate numbers, were used to calculate the statewide changes in aggregate disposable income. New employment was calculated directly from data provided by the Bureau of Economic Analysis. Of the data obtained from Policy Insight all but compensation was in 2000 fixed dollars. Average annual compensation is provided in nominal dollars so it was converted to 2000 fixed dollars using the price index provided with Policy Insight.

¹ Because of available data, graduate numbers for master's and doctoral degrees are from 2005 not 2006.

All the inputs to the model were entered as negative values. Because Oklahoma's higher education system is already included in the baseline scenario, the negative values serve to remove its direct effects to allow the simulation to show the total contribution of the system to the State. While the raw results from the model were also negative, which corresponds to the vacuum left by the removal of the contributions of higher education, the signs of the results were changed from negative to positive for the results reporting in order to more clearly represent the contributions of the Oklahoma higher education system. In other words, the negative results represent what is lost from removing the contributions of higher education from an economy that already includes them, while the positive results represent adding the contributions to an economy where they did not previously exist. The results are exactly identical and have only had their signs changed to more directly describe the second case above, which more obviously fits the spirit of this analysis.

It is also important to note that the opportunity cost of the higher education system was not included in this report. A simple example of opportunity cost is choosing between buying a book or a movie ticket. The choice of one implies the loss of the other: the opportunity cost. In the case of our analysis, the opportunity cost of funding a higher education system is all the other projects that could have been funded with the money.

There are both arguments for and against the inclusion of opportunity cost in the analysis. An argument in favor is one for realistically modeling the removal of the higher education system. If the higher education system did not exist, it seems sensible to assume that the money would have been spent elsewhere or the tax burden on the residents of the State would have been lessened. Furthermore, without carrying out a comparison, it cannot be known how funding higher education versus other policy options would differentially impact the economy. Finally, the complete removal of a tertiary education system as vast as Oklahoma's is unrealistic and therefore implies that some sort of opportunity cost should be used.

Ultimately, however, the arguments against the inclusion of opportunity cost more closely matched the spirit and scope of this analysis. The goal of the simulations and analyses carried out and described in this report is not to measure the effect of removing Oklahoma's higher education system but to ascertain its economic footprint. In keeping with that objective, the inclusion of opportunity cost would actually prove detrimental to the analysis because it would inaccurately portray the economic space occupied by Oklahoma's higher education system. This report is concerned with how Oklahoma's economy depends on its higher education system and the graduates it produces; it is about how seemingly unrelated and disconnected jobs rely on the institutions and people who populate the higher education system. The goal is not to determine whether funding another project or program among the infinite number of alternatives helps or hinders the economy relative to funding higher education; that is a complex and entirely different question, the answering of which is the privilege and responsibility of the people of Oklahoma.

V. Results and Analysis

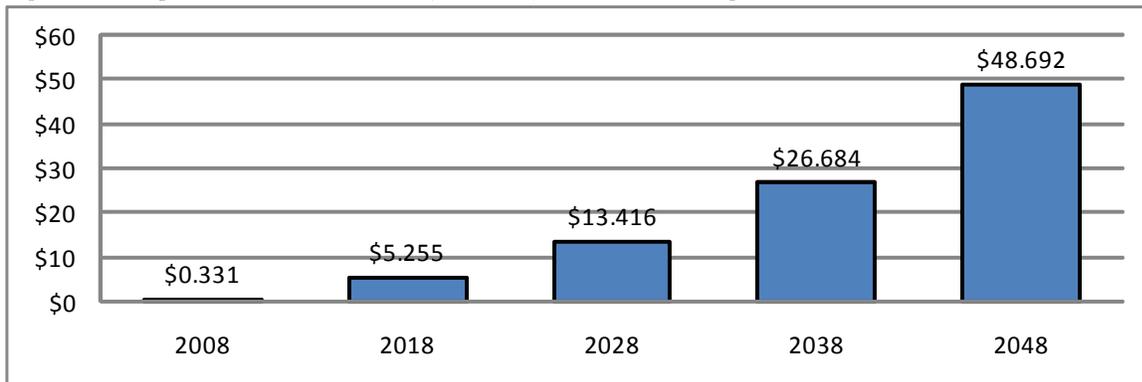
As mentioned in the previous section, the impacts of Oklahoma’s higher education system were divided into six categories. Each group was then run through the model individually to ascertain its particular impact, then run together to quantify the total impact of the State’s higher education system. The results are presented here by the aggregate results of each group and the total impact of all groups. It should be remembered that the results presented herein are in terms of differences from the baseline, i.e. higher education’s contribution above and beyond the business as usual trend of the economy. Additional tables can be found in Section VII. Dollar values in the text are presented in both nominal and fixed dollars in the following format: \$Nominal (\$Fixed 2000).

Graduate Earnings

Graduate earnings are the income differentials between those with no college and those who have completed an associate’s, bachelor’s, or graduate or professional degree. By gaining an education and an expanded skill set, a worker becomes more valuable to employers and is paid a correspondingly higher wage. From the viewpoint of employers, the wage can be seen as compensation for the higher value output produced by a skilled worker, whereas from the viewpoint of employees, it is the return on their investment of the time and money spent attaining those skills. The large lifetime income differential between those with no college and those with a degree compounded with the long timeline of this analysis leads to considerable impacts from graduate earnings.

In following the contributions of graduate earnings through the economy, the first place they appear is in disposable personal income (DPI). This concept measures gross income minus taxes plus government transfers. In other words, DPI is the amount of money that consumers have available to them for the purchase of goods and services and the running of their households.

Figure 5-1: Disposable Personal Income (Bil Nom\$), Graduate Earnings

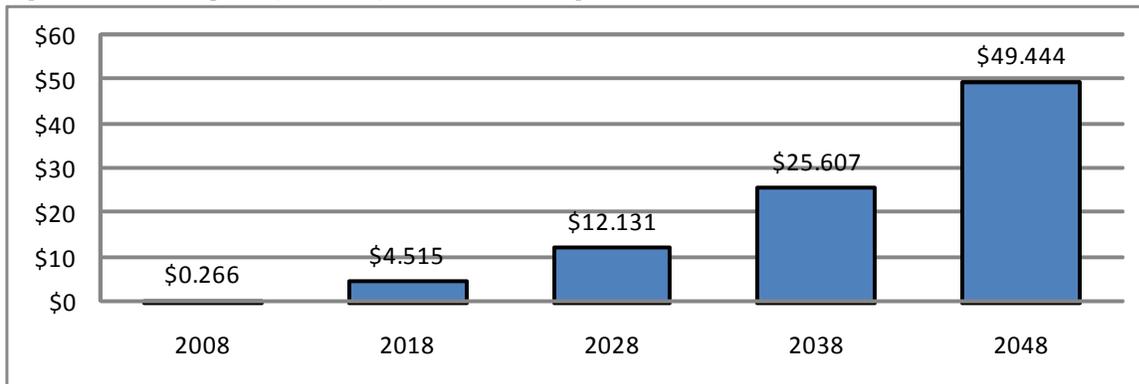


It therefore comes as no surprise that the higher income of college graduates has a pronounced effect on DPI as shown in Figure 5-1. As the addition of graduate earnings compound over the years, there is a steady increase in the total income available in the economy. In 2008 the

contribution is \$331 (\$284) million which grows to reach \$48.692 (\$17.49) billion by 2048. Annually, the average contribution from graduate earnings to Oklahoma’s DPI is \$18.876 (\$8.225) billion.

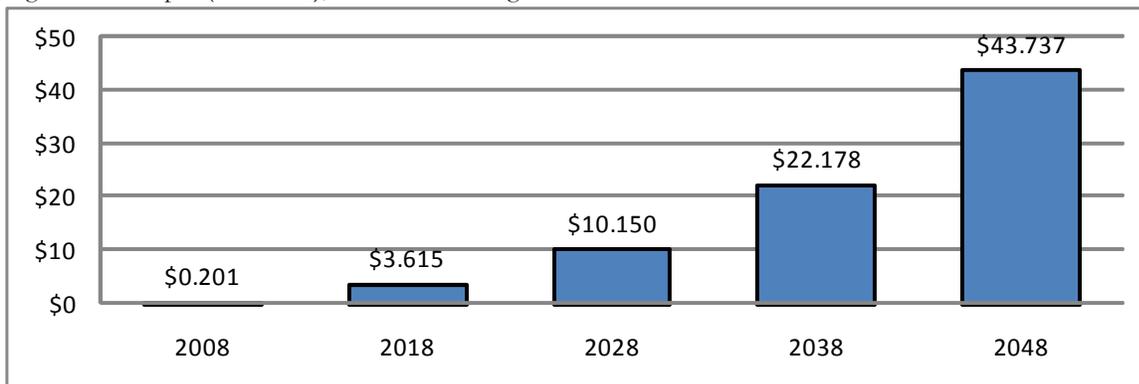
The addition of these incomes into the economy has obvious effects on statewide consumption. With more money in their pockets, consumers gain greater freedom to make the purchases that they desire. Figure 5-2 shows consumption for the analysis period. Mirroring the gains in income, consumption rises from \$266 (\$228) million to \$49.444 (\$17.76) billion. As a major component of the economy, consumption is a reliable proxy for the path of the economy as a whole. Thus these increases bode well for Oklahoma.

Figure 5-2: Consumption (Bil Nom\$), Graduate Earnings



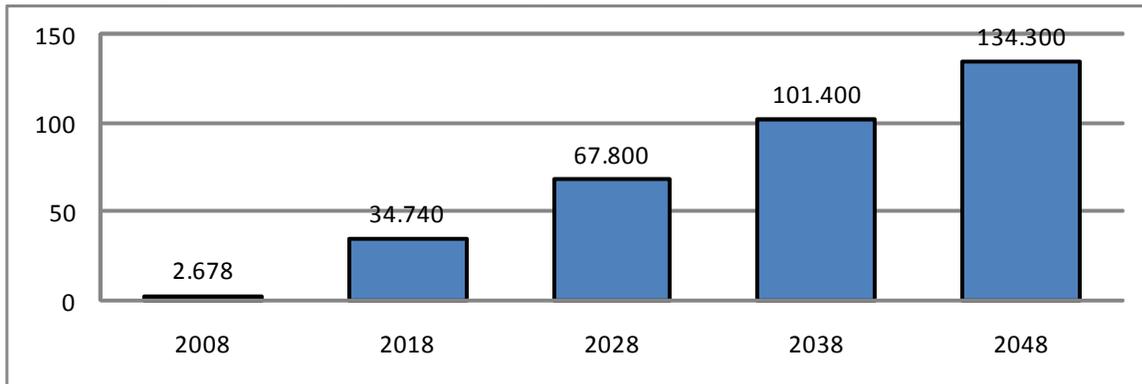
Increased consumption by consumers translates into greater demand for the products desired by the population. On average across all industrial categories, Oklahoma satisfies roughly half of its indigenous demand, with the remainder satisfied by imports from the rest of the nation and world. Even with half of local demand satisfied by out-of-state firms, demand for local goods and services increases. To meet this new demand, businesses increase output, which is shown in Figure 5-3.

Figure 5-3: Output (Bil Nom\$), Graduate Earnings



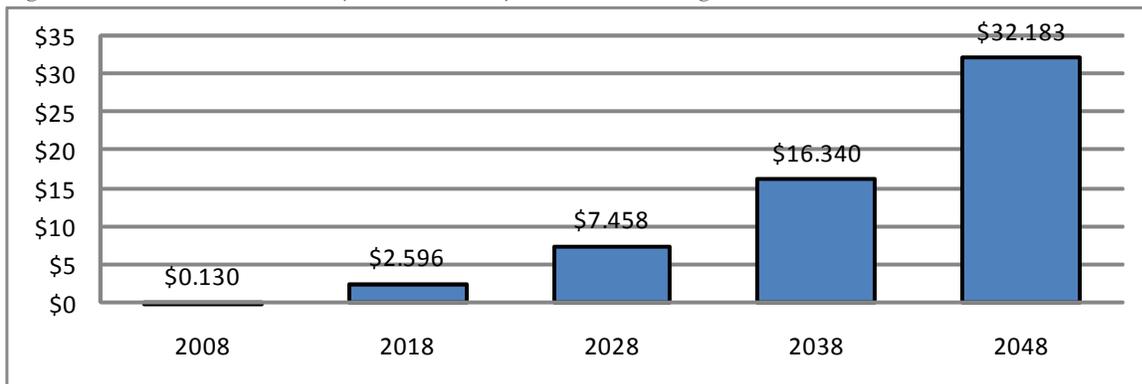
Employment also increases, as it is fundamentally connected to output through productivity. Because every dollar spent by consumers is income for businesses, firms are able to support a larger workforce. In this way, consumption and output increase employment as seen in Figure 5-4. Employment increases by 2,678 jobs in 2008. By 2048 total employment above the baseline is 134,300. The average contribution of graduate earnings to employment is 68,184 jobs.

Figure 5-4: Employment (Thous), Graduate Earnings



Graduate earnings' initial effect on disposable personal income increased consumption, which in turn increased employment. From here a feedback loop can be discerned. The increase in employment itself leads to higher DPI as more people have jobs. This increase flows back into consumption and employment. The net result from this loop on the economy can be seen in gross state product (GSP), which is analogous to gross domestic product. GSP is the value of all goods and services produced in the state's economy, which is output (Figure 5-3) excluding intermediate inputs, and represents compensation and profits or the total value-added. Figure 5-5 shows GSP and its similarity to Figure 5-2. This is due to the fact that consumption is the largest component of GSP. In the first year, the economy sees growth of \$130 (\$112) million over the baseline. Rising at approximately \$778 (\$285) million per annum, GSP in the final year is \$32.183 (\$11.56) billion.

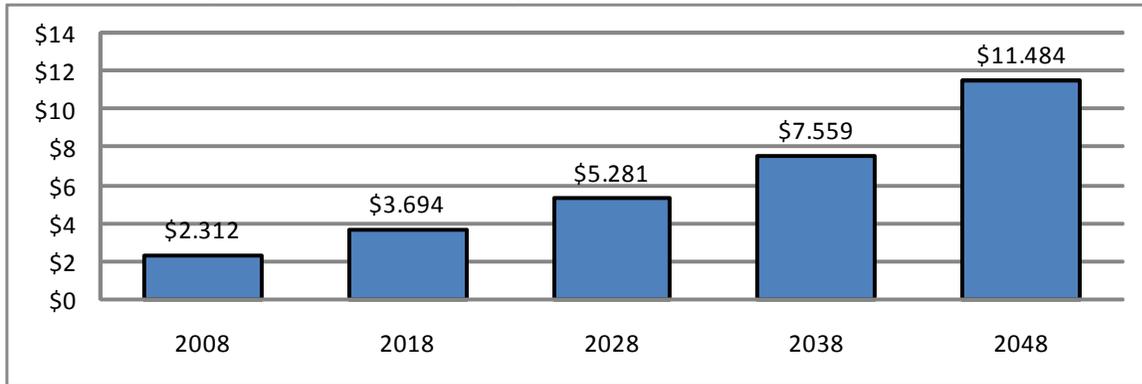
Figure 5-5: Gross State Product (Bil Fixed 2000\$), Graduate Earnings



Student Expenditures

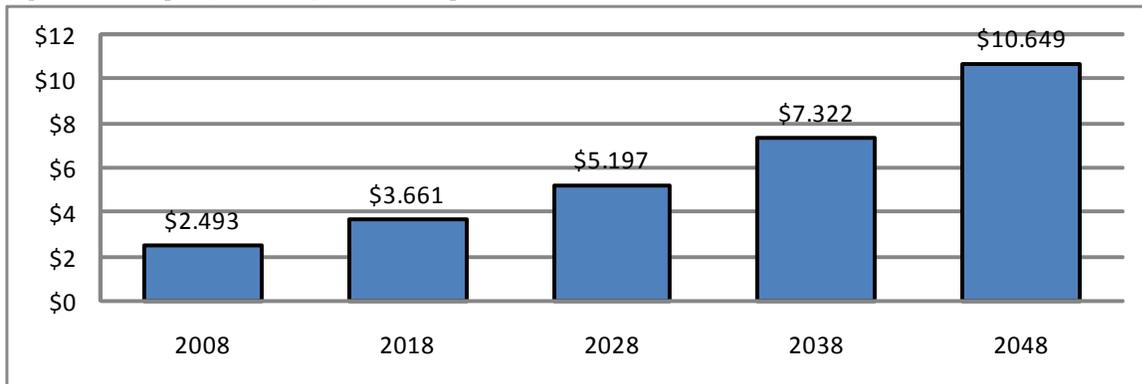
To be able to attend classes students must pay the price of admittance: tuition. In addition, students spend money on textbooks, room and board, and other miscellaneous consumption. The contribution of these factors proves to be significant. Overall, student expenditures contribute \$2.312 (\$1.981) billion of consumption to the economy in 2008. The single largest category is room and board spending which constitutes 45 percent of total student spending. Their combined contribution reaches \$11.484 (\$4.125) billion.

Figure 5-6: Consumption (Bil Nom\$), Student Expenditures



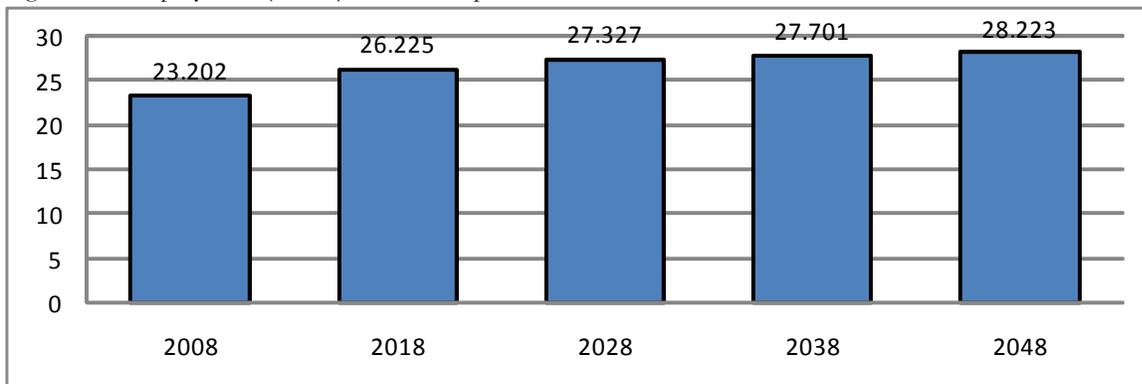
Similar to the scenario described above, a change in consumption leads to increased demand. In response, output increases. Beginning in 2008 with \$2.493 (\$2.136) billion, output climbs by approximately \$200 (\$42) million per annum to reach \$10.649 (\$3.825) billion by 2048.

Figure 5-7: Output (Bil Nom\$), Student Expenditures



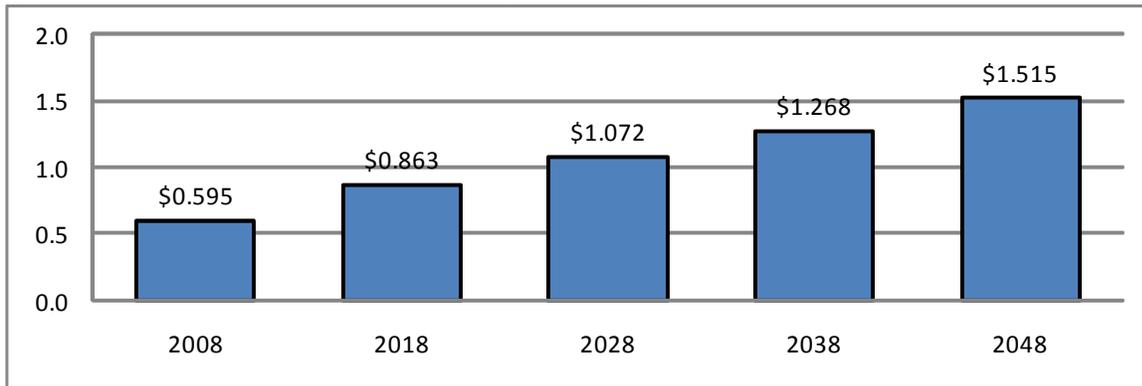
Increased output prompts businesses to raise employment to keep up. The average employment contribution from student expenditures is 26,536. Total jobs above the baseline grow from 23,202 to 28,223 from 2008 to 2048, respectively.

Figure 5-8: Employment (Thous), Student Expenditures



This new economic activity generates \$1.063 billion in average yearly growth. With a strong upward trend, GSP rises from \$595 million to \$1.515 billion. Figure 5-9 shows gross state product.

Figure 5-9: Gross State Product (Bil Fixed 2000\$), Student Expenditures



Employment Effect

At the most basic level, colleges and universities are service providers. While their services are extraordinarily important, like any other service provider they still must employ people to interact with the public. Along this vein, institutions of higher education employ faculty, staff, and students, and each group contributes to the functioning of the system. The previous factors examined, while wholly dependent on institutions of higher education for their existence, were directly caused by the students and graduates. The employment effect is the first and largest of the impacts directly caused by the institutions themselves.

The obvious place to begin the examination of the employment effect is with total employment. Figure 5-10 shows the change in Oklahoma's employment as a result of the addition of direct higher education employment. It should be noted that the numbers in the graphs include employment changes from all sources of employment demand. Figure 5-11 shows intermediate demand employment, a subset of total employment. Intermediate demand employment is the employment needed to satisfy demand for material inputs to the production of final goods. This is the employment require to produce the goods and services that other businesses require to produce the final product for the consumer.

Figure 5-10: Employment (Thous), Employment Effect

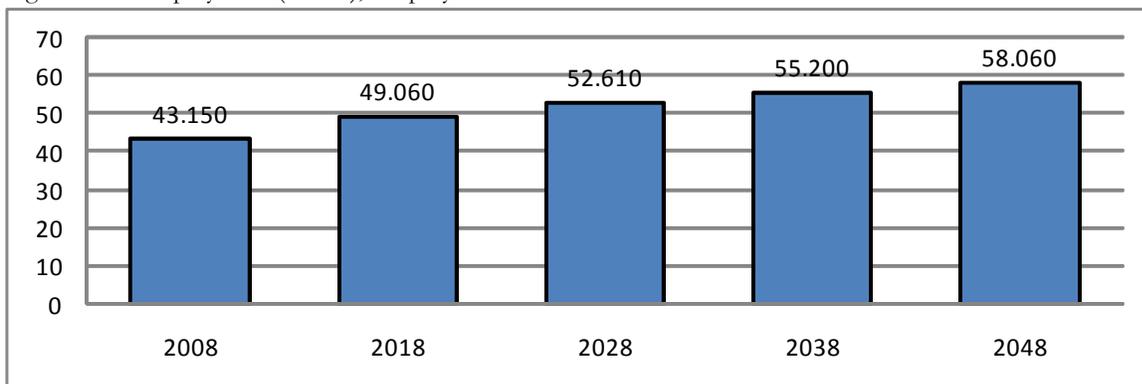
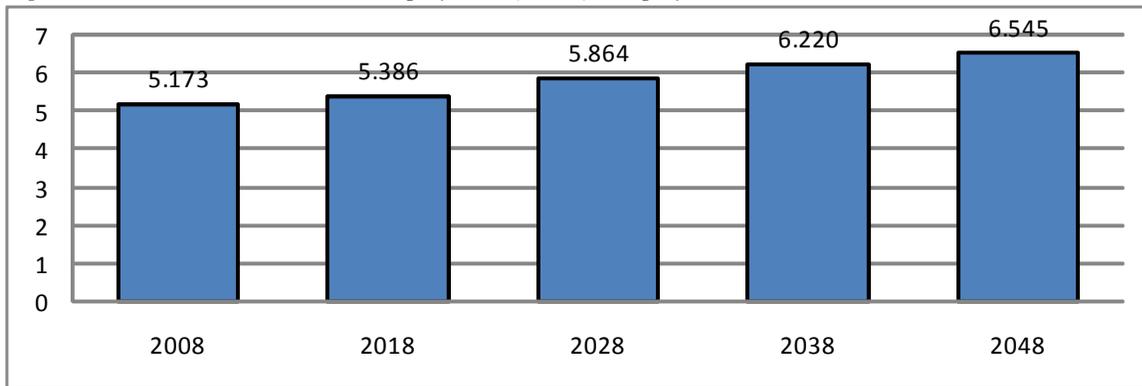
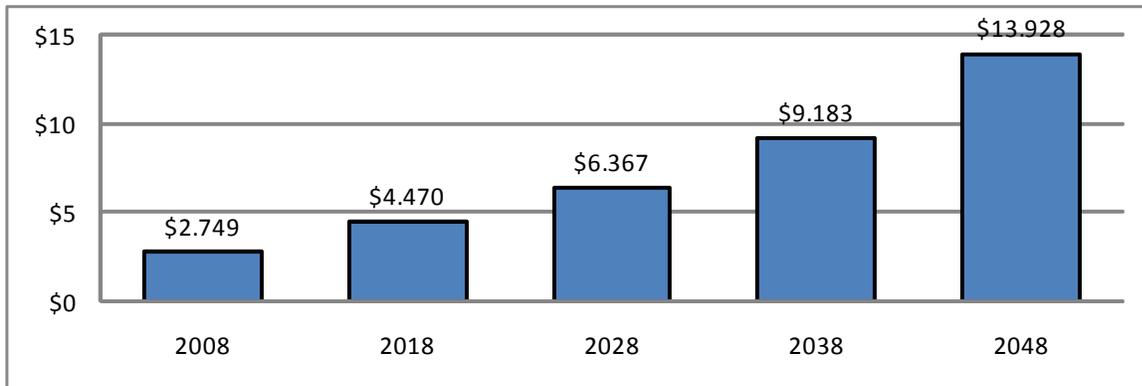


Figure 5-11: Intermediate Demand Employment (Thous), Employment Effect



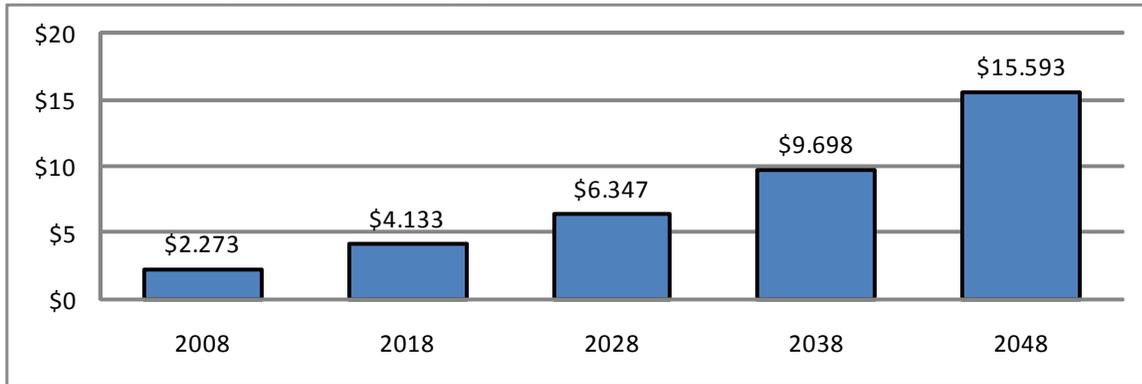
The addition of such a large source of employment filters throughout the economy, causing growth in many other areas, mainly income. An increase in jobs directly leads to an increase in aggregate disposable personal income. With an average of 51,616 jobs over the baseline there is a strong influx of new income into the hands of consumers. This is also good news for local businesses, as demand for their goods and services will rise. DPI, shown in Figure 5-12, steadily rises over the analysis period. By the final analysis year the employment effect of the institutions of higher education will have contributed a cumulative \$288.684 (\$149.425) billion to Oklahoma’s economy, which translates into \$257 (\$59) million in annual growth.

Figure 5-12: Disposable Personal Income (Bil Nom\$), Employment Effect



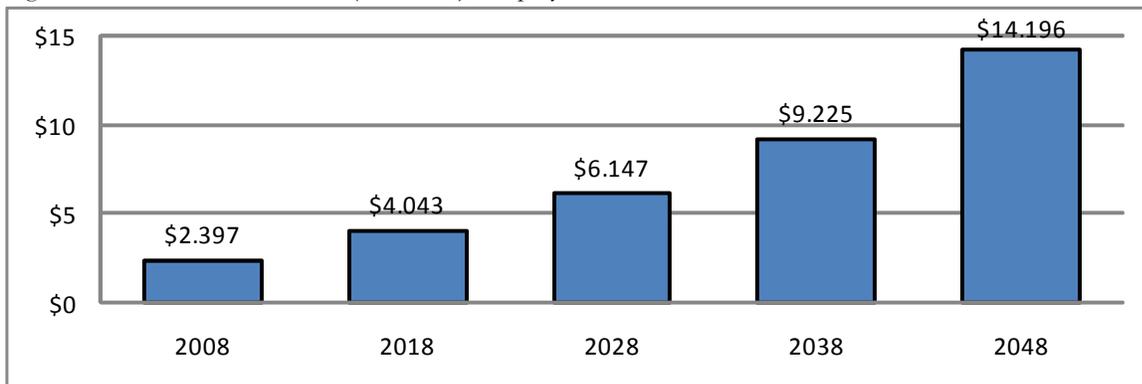
A large amount of the income gain is spent on in-state consumption. The total new consumption is only slightly larger than the DPI gains or \$295.004 (\$149.795) billion. As seen below in Figure 5-13, consumption very closely matches income as seen in Figure 5-12. The average gain over baseline is \$7.609 (\$3.681) billion and the approximate annual rate of growth is \$322 (\$89) million.

Figure 5-13: Consumption (Bil Nom\$), Employment Effect



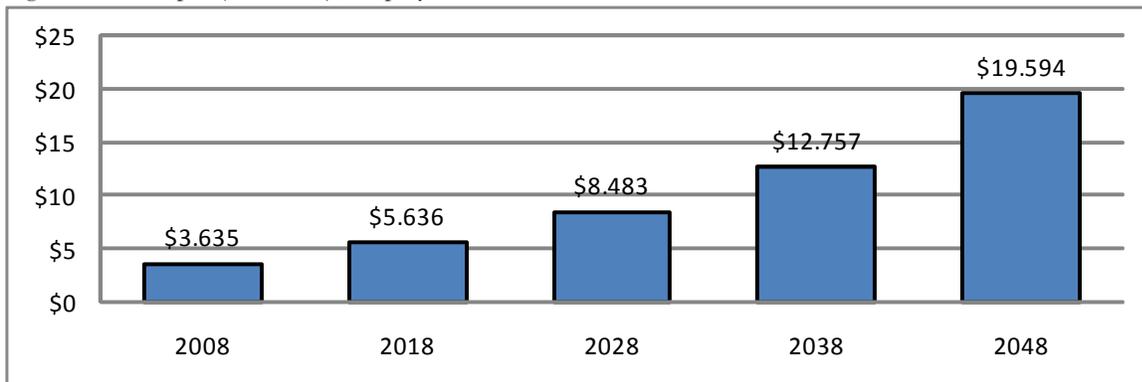
The previous groups examined have shown how closely linked consumption and gross state product are. A large increase in the economy of Oklahoma is thus expected. The State benefits from \$2.397 (\$2.054) billion in growth in 2008. The economy continues to grow at roughly \$288 (\$75) million per year until it reaches its peak of \$14.196 (\$5.099) billion in 2048. GSP averages \$7.202 (\$3.524) billion per year over the baseline for the 41 year analysis period for a cumulative gain of \$281.773 (\$144.140) billion.

Figure 5-14: Gross State Product (Bil Nom\$), Employment Effect



Adding the value of intermediate inputs to GSP gives the total change in output resulting from direct institutional employment. Output averages \$10.021 (\$4.903) billion over the baseline, beginning at \$3.635 (\$3.115) billion in 2008 and ending with \$19.594 (\$7.038) billion by 2048.

Figure 5-15: Output (Bil Nom\$), Employment Effect

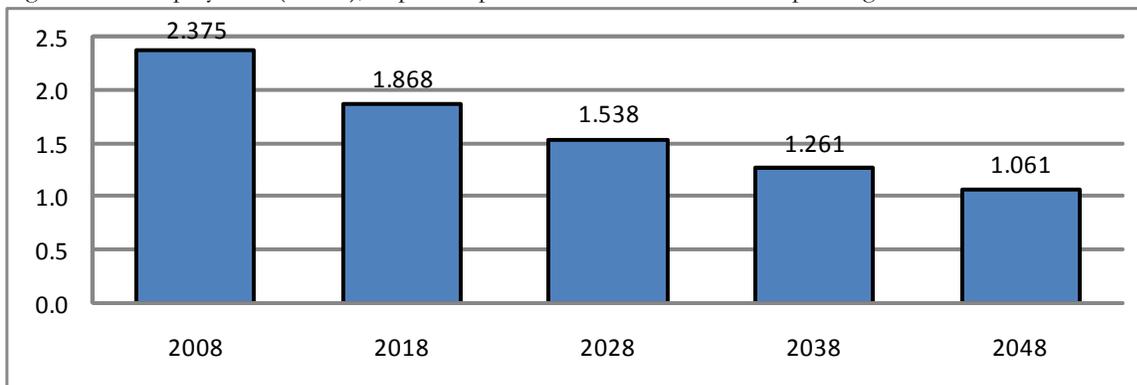


Capital Expenditures and Construction Spending

Every institution in the Oklahoma higher education system spends money on capital improvements. These expenditures represent spending on furniture for faculty, students, and staff; computer equipment for labs and offices; library materials for research and pleasure reading; and finally construction of the roads, buildings, and facilities that round out the campus environment. Each of these categories represents investments in durable, long-term goods that are used to enhance the efforts of the institutions to best carry out their educational mission. These investments also represent demand for goods such as chairs and monitors, and industries like construction. This demand is the second and last factor, after employment, that is directly attributable to the institutions.

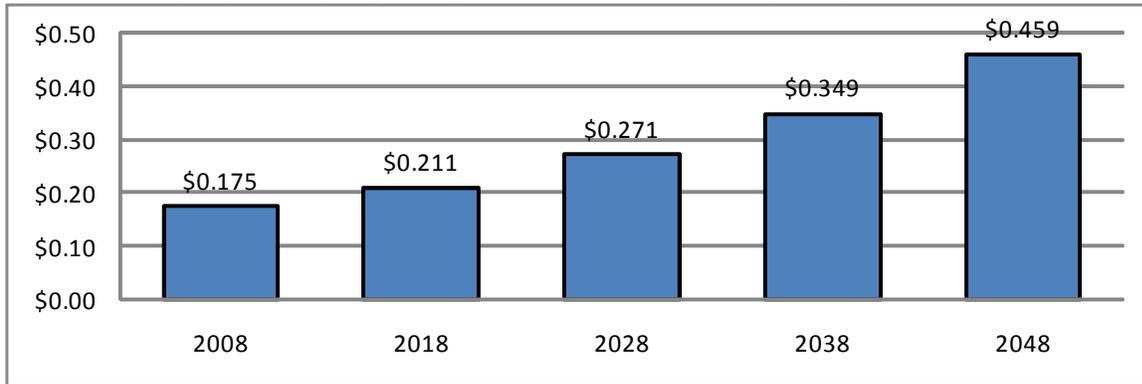
Any increase in demand such as this one will increase business sales and each firm's demand for labor. Employment rises to meet the new output requirements. Interestingly, this is the only case where the factor examined does not show a steady increase (Figure 5-16). While always positive with respect to the baseline, employment gains gradually diminish. This change stems from the particular industries that are the focus of this simulation. While capital expenditures are quite large, together they are just over half of the value of construction spending. Thus construction is the industry that largely determines the results of this simulation. While demand for construction, and consequently construction output and employment, were increased by the higher education institutions, the effect over the baseline decreases over time as the underlying economy adjusts. The relative importance of the contributions of the colleges and universities decreases as the underlying demand for other fixed investments increases. The increase from the schools does little to change the general magnitudes of the demand sources of employment. Investment- and export-driven demands for employment remain relatively flat and serve to pull employment back to its previous equilibrium.

Figure 5-16: Employment (Thous), Capital Expenditures and Construction Spending



Even though output is closely related to employment it does not show the decrease over time that employment does, neither nominally or in real terms. Output gains \$284 (\$15) million between 2008 and 2048.

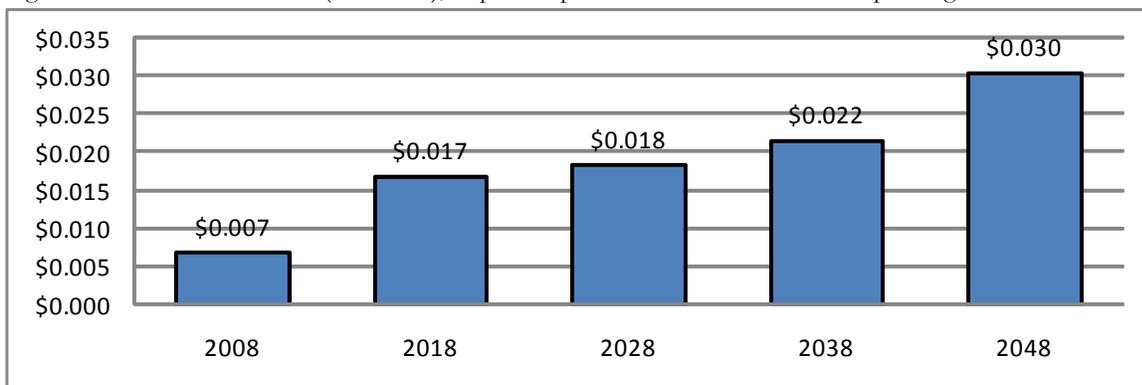
Figure 5-17: Output (Bil Nom\$), Capital Expenditures and Construction Spending



In addition to the changes in employment brought about by the capital expenditures and construction spending, there is a change in fixed investments. As a component of gross state product, it has a direct effect on the economic growth of a region. Fixed investment is the total amount of investment spending on residential structures, nonresidential structures, and equipment. It is important to differentiate this concept of investment from portfolio investment. Fixed investment applies to the construction of new structures and the purchase of new equipment. It is affected by the difference between the actual and the optimal capital stocks. With any change in the economy, the optimal capital stock instantaneously changes. This change between the optimal and the actual prompts new investment. However, since the actual capital stock cannot grow instantaneously there is always a lag time between where the actual capital stock is and where it should be. To complicate matters, during the lag time the optimal capital stock is continuously adjusting with the changes in the economy.

The dynamic between actual and optimal capital stock helps explain Figure 5-18. As the new demand from the institutions of higher education is introduced, optimal capital stock shoots up prompting new fixed investment. Over time the gap between the two stocks steadies and thus leads to the, especially in real terms, relatively flat new fixed investment in the latter years of the analysis.

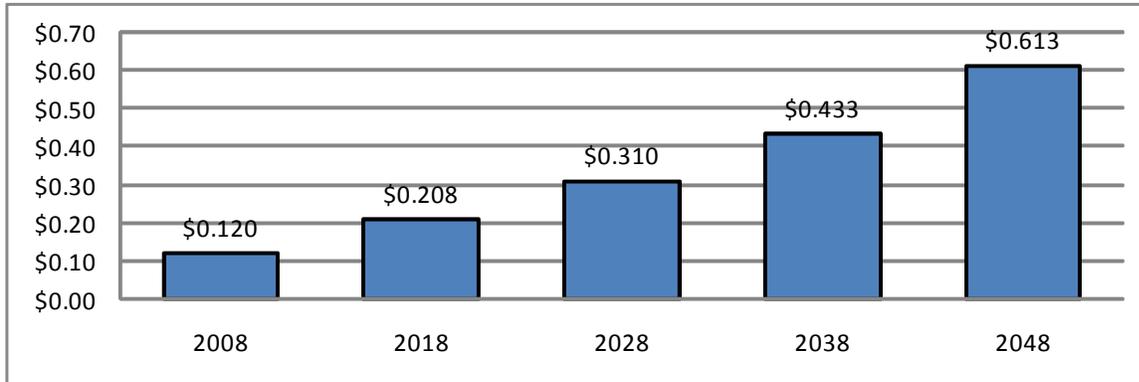
Figure 5-18: Fixed Investment (Bil Nom\$), Capital Expenditures and Construction Spending



Even though the gains of employment diminish over the analysis period, consumption still shows a steady, albeit small, rise. Propelled by both the increase in incomes and a small reduction in

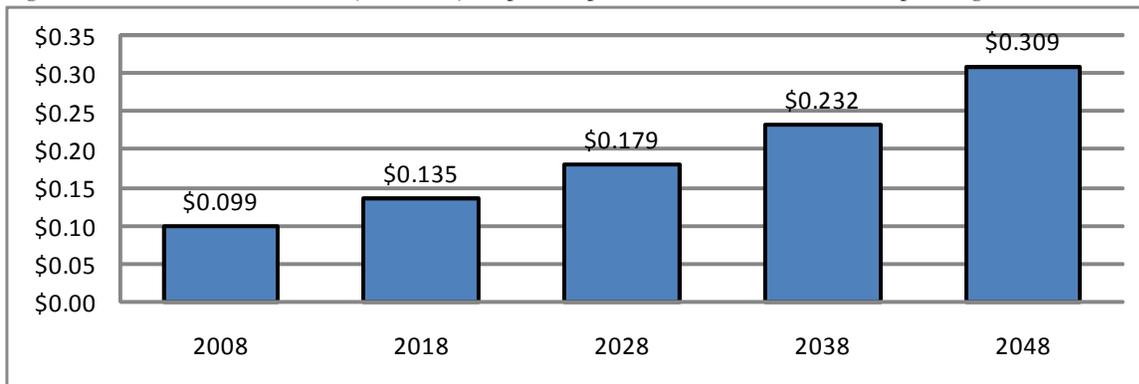
production costs caused by the easing of demand on the labor market, consumption grows by \$12.1 (\$2.9) million each year from 2008 to 2048.

Figure 5-19: Consumption (Bil Nom\$), Capital Expenditures and Construction Spending



In this simulation two different components of gross state product have been examined: fixed investment and consumption. Fixed investment was steadily positive but relatively flat while consumption showed small but continuing increases. As a result GSP is mixture of both. While it increases during the entire analysis period, over the 41 years measured it only increases \$210 (\$26) million, which implies a yearly rate of approximately \$5.2 (\$0.645) million.

Figure 5-20: Gross State Product (Bil Nom\$), Capital Expenditures and Construction Spending



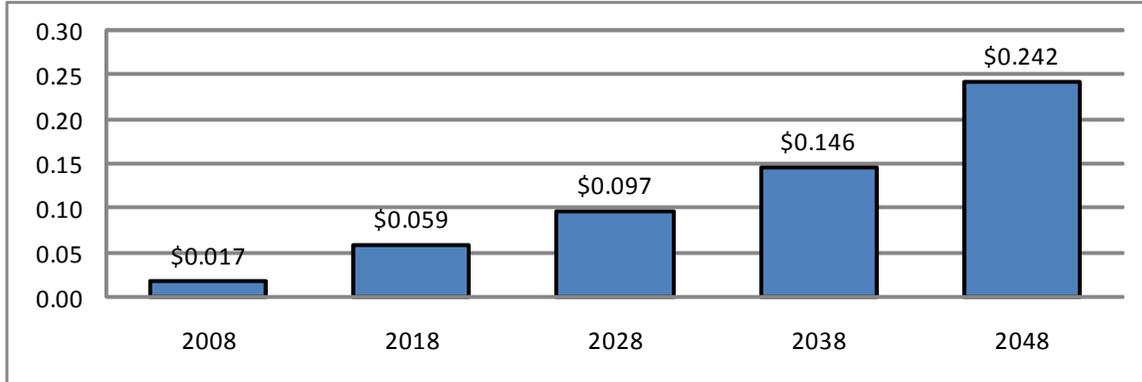
Visitors and Athletics

Not only do the colleges and universities of the Oklahoma higher education system act as centers of learning, they also serve as focal points for cultural and athletic activities. These events draw visitors from different areas to the various campuses. In addition to these visitors, there are the families who accompany their children on campus visits and families who come to the schools to visit their children. All told, the athletics and visitor spending related to higher education contribute additional dollars into the Oklahoma economy that would not have been there otherwise.

Much of athletics and visitor spending flows into consumption. In 2008, they contribute \$17 (\$15) million to the state economy. Averaging \$112 (\$53) million over the baseline, the gains in

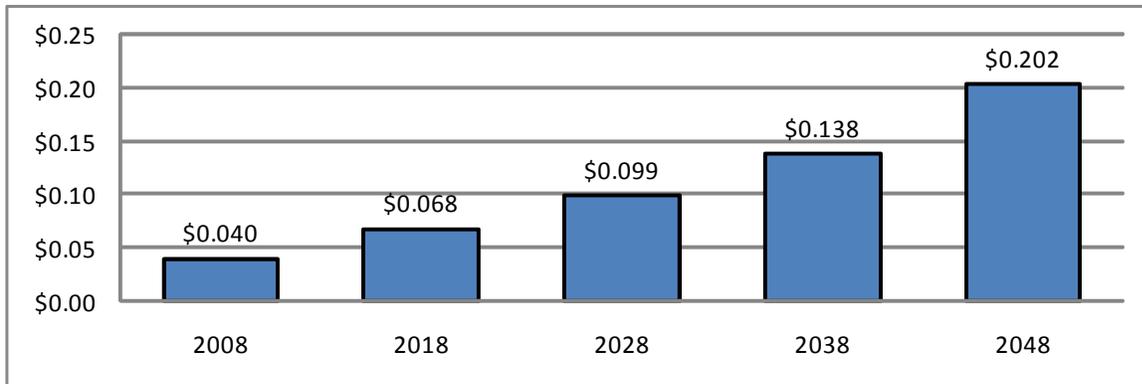
consumption spending grow steadily over the analysis period. At a yearly rate of \$5.4 (\$1.7) million, consumption reaches \$242 (\$87) million over the baseline by 2048.

Figure 5-21: Consumption (Bil Nom\$), Visitors and Athletics



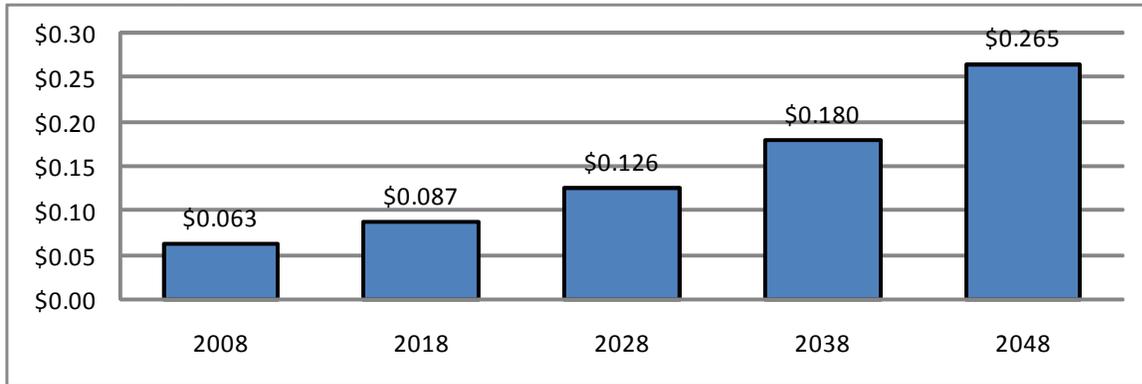
Gross state product (GSP) grows as a result of the gains in consumption. For the first half of the analysis GSP growth is larger than consumption. Later however, consumption gains grow larger as imports to the state increase in order to meet rising consumer demand. Because imports are produced elsewhere they count as a negative toward the calculation of GSP. Gross state product grows at an annual rate of approximately \$4 (\$0.927) million per year to reach \$202 (\$73) million by 2048.

Figure 5-22: Gross State Product (Bil Nom\$), Visitors and Athletics



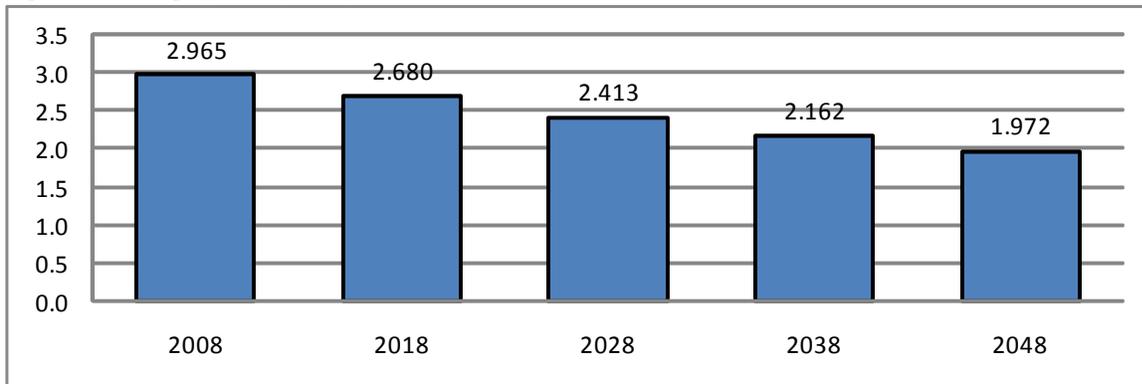
In order to produce the final goods and services shown in Figure 5-22, businesses must purchase inputs from other businesses. These intermediate inputs constitute the difference between output, i.e. sales, and gross state product, i.e. value added. Output, shown below, reflects the general trend of GSP while on average being 35 percent larger due to the addition of intermediate inputs.

Figure 5-23: Output (Bil Nom\$), Visitors and Athletics



While both output and GSP increase in both real and nominal terms, employment gains decrease over time. Although this does not mean that there is an actual decrease in the number of jobs, the smaller gains over the baseline mean that that over time the underlying economy is reacting and shifting such that it grows faster than the contributions of athletics and visitors spending.

Figure 5-24: Employment (Thous), Visitors and Athletics



Productivity

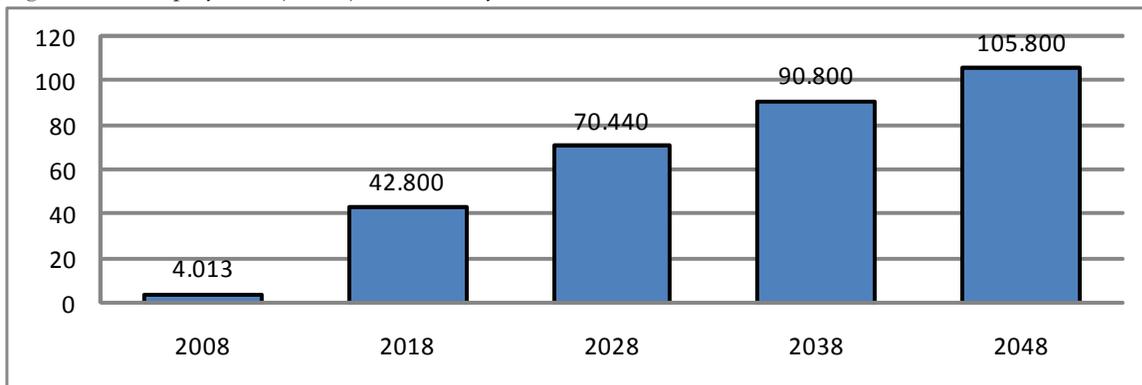
Productivity gains have been one of the strongest forces driving recent economic growth in the United States. The growth in output per employee has meant that the same number of workers has been able to produce more than their counterparts in the past, and that the expanding labor force grows the economy faster than it previously did. While obviously contingent on other factors in the economy, strong productivity growth is a good indicator of future economic growth.

It is no mystery that skilled workers are more productive. The mission of improving productivity is closely tied to furthering knowledge. It falls to the institutes of higher education to prepare students to undertake higher value-added work and correspondingly to increase their productivity. When the opportunity to gain tertiary education increases, the requisite knowledge and skills that the current and future economy will require also increase. Furthermore, the productivity gains will likely compound year after year as skilled labor becomes easier to find and spreads through the labor force.

As mentioned in the simulation inputs section (IV), productivity gains were entered directly into the appropriate output variables in this simulation. It is expected then that output will increase. However, the increase seen is larger than the initial inputs. To find why, the effects of the initial output adjustment must be followed throughout the economy.

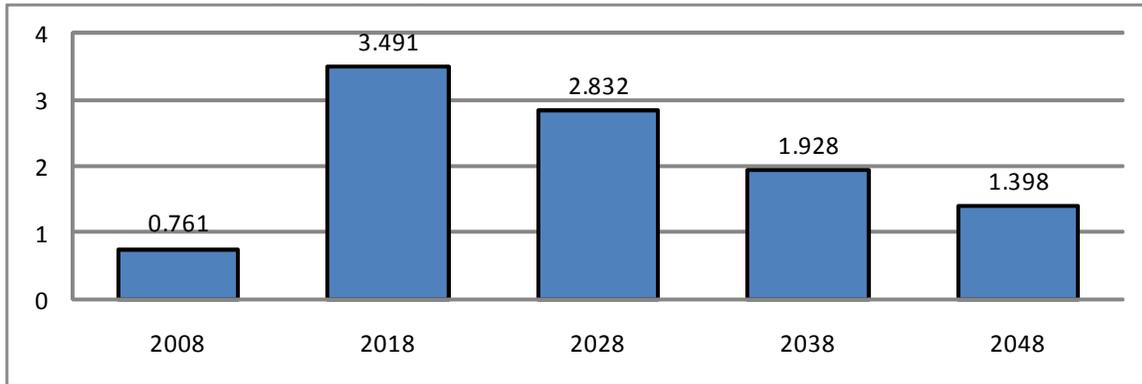
When faced with higher output requirements, businesses will hire the larger workforces needed to meet the new demands. Higher productivity can fill some of the gap but new workers are still required to meet the new demands that result from the economy's feedback loop, or the multiplier effect. As seen in Figure 5-25, the changes in employment in 2008 are relatively small but as the economic gains from higher productivity spread through the economy the employment gains rises dramatically. In 2008, employment increases by 4,013 jobs. The amount above baseline in the final analysis year is 105,800 jobs which implies an annual average of 62,770 jobs above baseline levels as a result of adding the productive contributions of skilled and knowledgeable workers.

Figure 5-25: Employment (Thous), Productivity



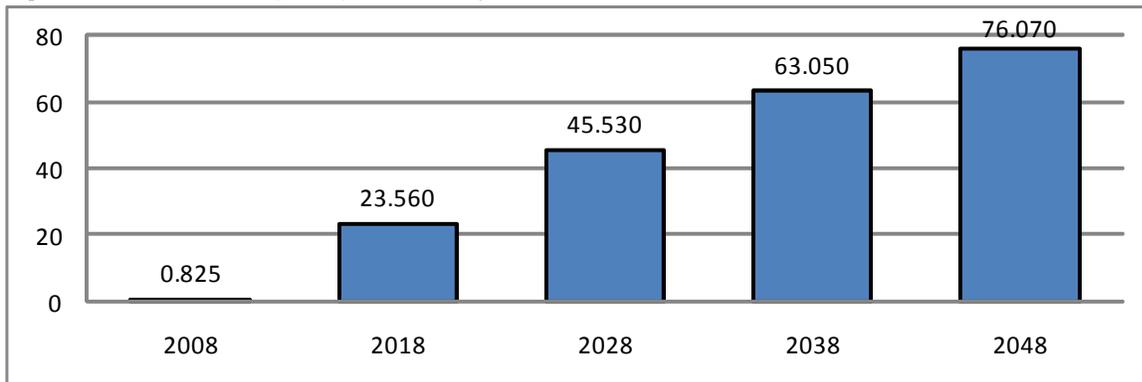
As employment increases throughout the State, the relative economic opportunity (REO) in Oklahoma also rises. In other words, Oklahoma becomes economically more attractive relative to the rest of the nation because its employment market is growing. The rise in REO causes immigration into Oklahoma from other states as people move to take advantage of the growing economy. Figure 5-26 shows the number of *new* economic migrants in five exemplar years. In 2008, 761 economic migrants enter the state. In the accounting of the next year those 761 people are no longer counted as migrants, but as part of the regular population. In Policy Insight, migration is a flow and population a stock.

Figure 5-26: Economic Migrants (Thous), Productivity



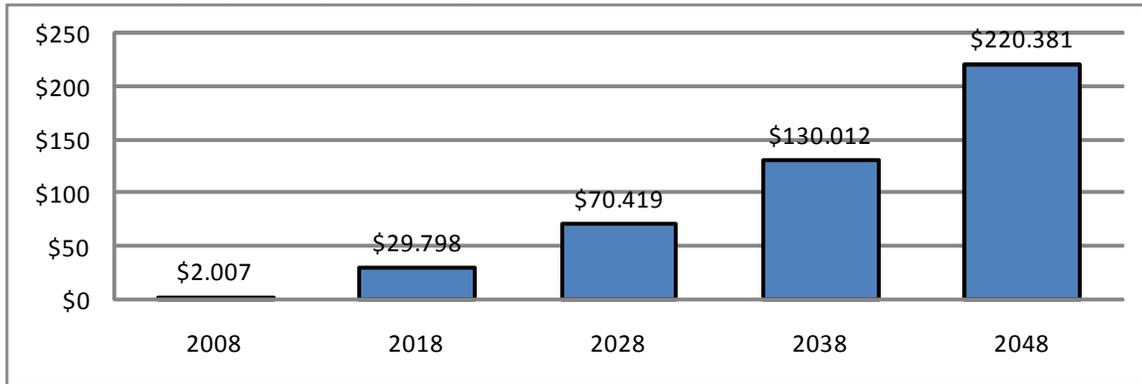
With the growth of the population the labor force also grows. The labor force is a subset of the population aged 16 through 64 that is employed or actively seeking employment. Because economic migrants are moving to the area seeking employment it is no surprise that the majority of them are part of the labor force, as see by the increases in Figure 5-27. Interestingly, there is also a large increase in the number of small children. This is because the prime labor force participation years (ages 25-35) are also the years that people tend to start families. So as the parents move into Oklahoma to take advantage of the rise in REO, their children necessarily move with them.

Figure 5-27: Labor Force (Thous), Productivity



The initial increase in productivity directly increased output. That shock moved through the economy by increasing employment and the population. Finally, an increase in jobs, and thus income, coupled with an increase in the population, unequivocally leads to higher consumption. Demand for producers' output increases as a result of consumption changes. Figure 5-28 shows the final changes in output as a result of the contribution of educated and skilled workers. Output differs from gross state product in that it captures the value of all goods and services produced regardless of whether they are intermediate inputs or final products. In this way output is akin to sales whereas GSP is a measure of value-added, or output minus intermediate inputs.

Figure 5-28: Output (Bil Nom\$), Productivity



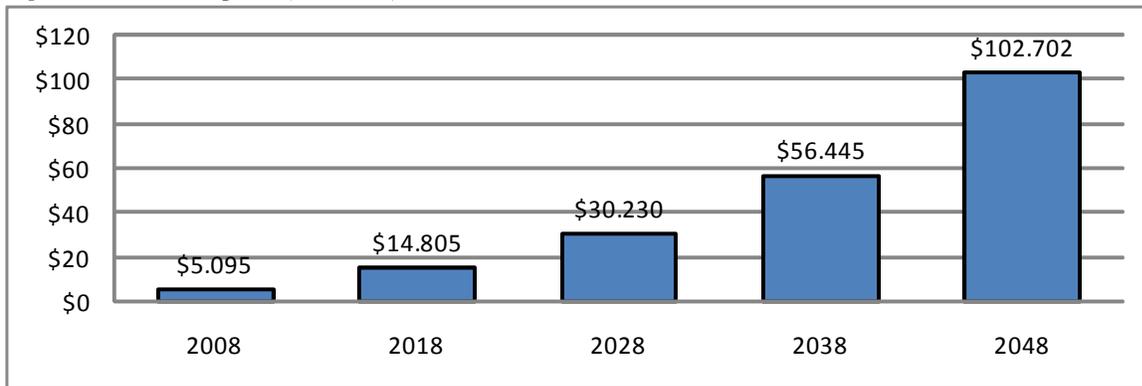
Grand Total

This simulation includes all the previous five simulations and is meant to represent the total contribution of the Oklahoma system of higher education to the State's economy. It should be noted that the results presented herein may not exactly match the sum of the previous simulations due to the feedbacks in the model. Each of the previous simulations was run independently while here they are interacting with and influencing each other.

The economy of any region is best summarized by its gross product. It includes all the new economic activity that takes place through the actions of consumers and businesses. Below the results for the four components of gross state product are presented: consumption, fixed investment, state and local government spending, and net exports. In addition, employment and population are also shown.

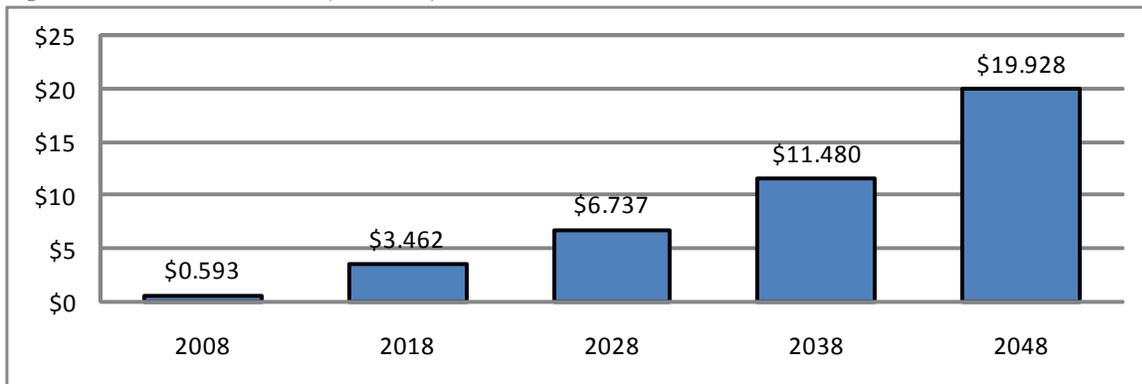
As has been shown throughout this analysis, consumption is heavily affected by changes in the economy. Between the direct spending and employment of the institutions themselves to the larger lifetime incomes of college graduates, a contribution as large as a higher education provides the impetus to substantial growth in consumption. The system causes \$5.095 (\$4.366) billion in additional consumption in 2008 which grows at approximately \$2.098 (\$0.793) billion per annum to reach \$102.702 (\$36.89) billion by 2048. Cumulative consumption gains over the baseline are \$1,563.373 (\$750.492) billion with a yearly average of \$38.131 (\$18.305) billion over the baseline.

Figure 5-29: Consumption (Bil Nom\$), Grand Total



Positive changes in the economy promptly increase the gap between the optimal and actual capital stocks. Because of this the purchase and construction of new residential and nonresidential structures and producers' durable equipment increases. This group of goods falls under fixed investment, as shown in Figure 5-30. Unlike the case in the capital expenditures and construction spending simulation, where over time the initial shock was well incorporated into the economy, this simulation shows sustained growth in fixed investment, meaning that the optimal capital stock continues to increase before actual capital stock has the necessary time to close the gap. This is a sign of a strong, growing economy.

Figure 5-30: Fixed Investment (Bil Nom\$), Grand Total



The change in the relative attractiveness of Oklahoma causes the economic migration previously alluded to in the productivity analysis. Since the improvements are even larger in this simulation a large number of economic migrants are expected. Those migrants increase the population leading to the gains seen below. The sharp rise in population above the baseline causes the large increases in government spending in Figure 5-31. As the population of the State increases there are more demands on state services, which drive up government spending.

Figure 5-31: Population (Thous), Grand Total

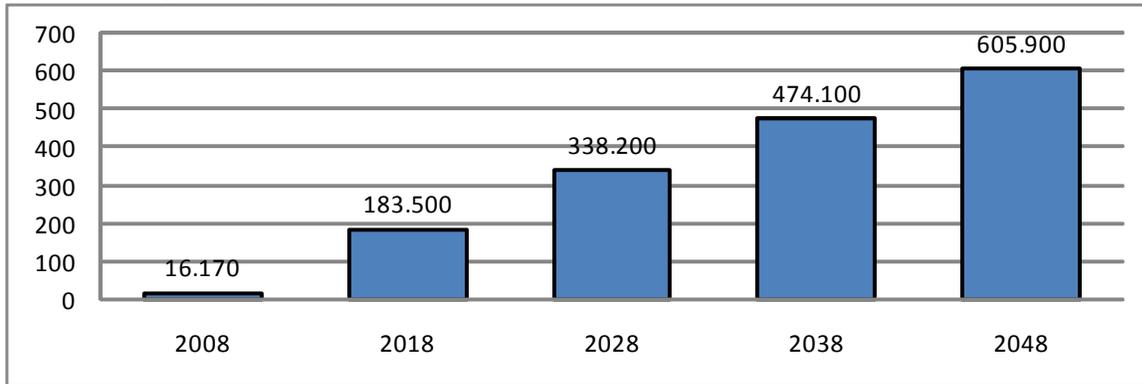
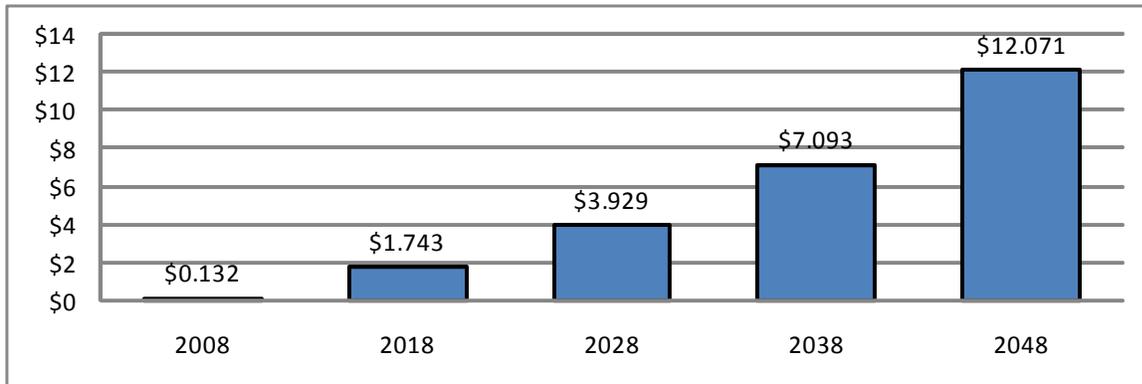
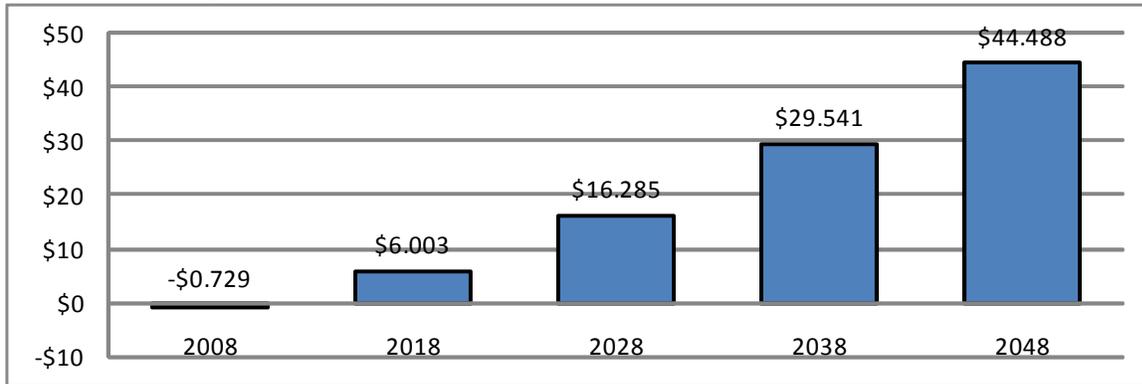


Figure 5-32: State and Local Government Spending (Bil Nom\$), Grand Total



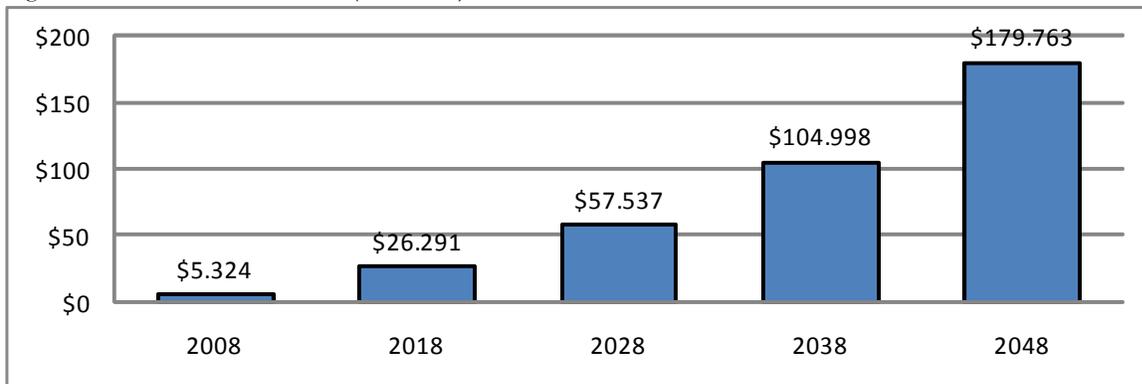
The final component of gross state product is net exports. Subtracting the value of total imports from all sources (the rest of nation and world) from the value of total exports to all destinations gives net exports and results in the net influx of money from trade to the economy. The improvements to the trade balance, shown in Figure 5-33, are caused by a decrease in production costs. Improvements in productivity caused by the contributions of an educated workforce reduce production costs as both labor and machinery become more efficient. Because of its higher education system Oklahoma gains access to a greater variety of skilled labor, which allows for better employee/employer matchups and improved use of equipment. Enhanced labor access reduces the cost of labor to firms. Lower input costs lead to lower production costs relative to the nation, which enhances the attractiveness of Oklahoma's exports.

Figure 5-33: Net Exports (Bil Nom\$), Grand Total



Together the four components cause the growth in gross state product (GSP) seen in Figure 5-34². From the contribution of the higher education system, the economy of Oklahoma gains \$5.324 (\$4.562) billion in the first year and grows at an annual rate of \$2.807 (\$1.490) billion to reach \$179.763 (\$64.57) billion in 2048. Oklahoma sees a cumulative gain of \$2.843 (\$1.361) trillion over 41 years with an average gain of \$69.354 (\$33.199) billion.

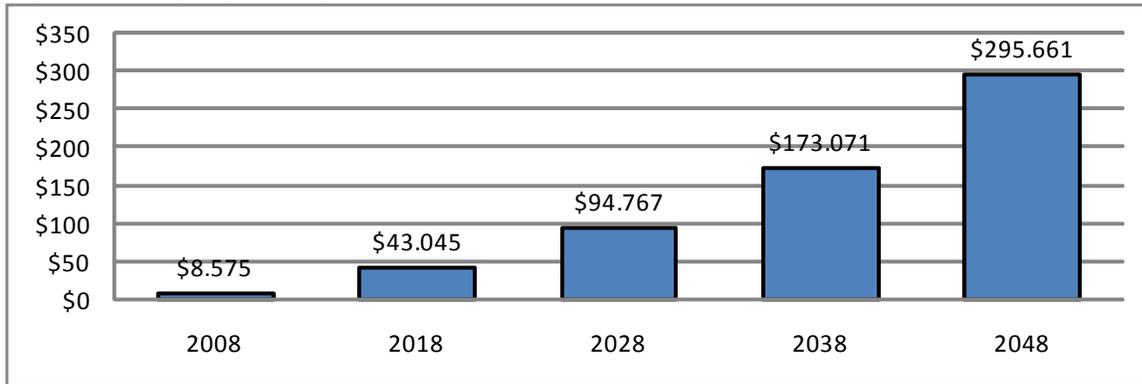
Figure 5-34: Gross State Product (Bil Nom\$), Grand Total



Output, or alternatively sales, which includes GSP, also grows. Starting at \$8.575 (\$7.348) billion in 2008, output increases by over five times in nominal terms in the next ten years to \$43.045 (\$29.830) billion. In the next thirty years from 2018 to 2048, output increases by nearly seven times to \$295.661 (\$106.2) billion. Average annual growth is \$7.042 (\$2.466) billion while the output averages \$123.023 (\$55.120) over the baseline scenario throughout the analysis period.

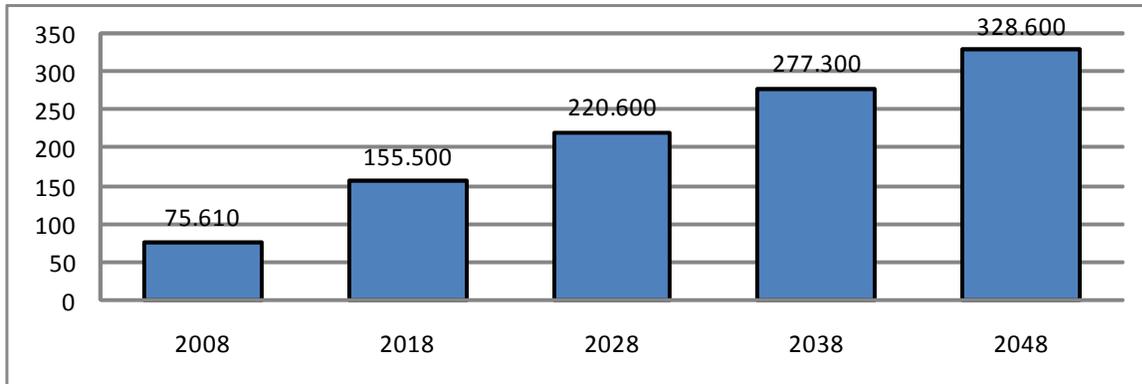
² The sum of consumption, fixed investment, government spending and net exports does not exactly match the total GSP shown in Figure 5-30. The small discrepancy, which at its maximum is 4 percent of the total, is from the change in business inventories and from the exogenous change in demand that was part of the simulation inputs.

Figure 5-35: Output (Bil Nom\$), Grand Total



The growth in output coincides with a large increase in employment. By 2048 there is a 14.7 percent change in employment above the baseline. Starting from 75,610 and rising at a rate of 6,207 jobs per year, employment reaches 328,600 jobs over baseline by 2048. The average employment gain is 214,377 jobs relative to an Oklahoma without its higher education system.

Figure 5-36: Employment (Thous), Grand Total



VI. Conclusion

Maintaining and enhancing the quality of education is paramount to developing Oklahoma's economy. This analysis indicates that long-term economic benefits accrue across the economy and to all its industries when the State makes investments in its higher education system. By providing a balanced analysis, accounting for direct costs and benefits, a clear argument can be made that favors continued and sustained investment in Oklahoma's already top-tier higher education system.

In addition to providing employment and spending directly to the private sector, the universities and colleges take in Oklahoma's youth to teach and train. Productivity is the support mechanism for economic growth, and by bestowing Oklahomans with the knowledge and skills that jobs of the future will require, the 25 institutions that comprise the higher education system are taking a proactive approach that will boost the Oklahoma economy.

This report highlights the fact that jobs that are not obviously connected to the higher education system still depend on it. Businesses depend on the income earned by graduates to keep their doors open. Industry relies on the process improvements devised by engineers and scientists to increase their competitiveness. In short, college graduates are both important consumers and vital producers and as such play a fundamental role on both sides of the economy.

VII. Tables

Table 7-1: Contribution of the Higher Education System, by College Graduate Earnings

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
GRADUATE EARNINGS						
<i>Associate's</i>	\$0.04	\$0.62	\$1.68	\$3.63	\$7.13	\$2.62
<i>Bachelor's</i>	\$0.15	\$2.57	\$6.91	\$14.62	\$28.20	\$10.49
<i>Graduate/Professional</i>	\$0.08	\$1.36	\$3.65	\$7.74	\$14.92	\$5.55
<i>Aggregate</i>	\$0.27	\$4.52	\$12.14	\$25.61	\$49.44	\$18.39

	Employment (Thousands)					
	2008	2018	2028	2038	2048	Average
GRADUATE EARNINGS						
<i>Associate's</i>	0.345	4.465	8.715	13.030	17.240	8.759
<i>Bachelor's</i>	1.527	19.790	38.630	57.760	76.460	38.833
<i>Graduate/Professional</i>	0.807	10.460	20.410	30.520	40.390	20.517
<i>Aggregate</i>	2.678	34.740	67.800	101.400	134.300	68.184

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
GRADUATE EARNINGS						
<i>Associate's</i>	\$0.01	\$0.33	\$0.96	\$2.11	\$4.29	\$1.54
<i>Bachelor's</i>	\$0.07	\$1.49	\$4.25	\$9.32	\$18.32	\$6.69
<i>Graduate/Professional</i>	\$0.04	\$0.78	\$2.25	\$4.92	\$9.69	\$3.54
<i>Aggregate</i>	\$0.13	\$2.60	\$7.46	\$16.33	\$32.18	\$11.74

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
GRADUATE EARNINGS						
<i>Associate's</i>	\$0.03	\$0.46	\$1.30	\$2.85	\$5.61	\$2.05
<i>Bachelor's</i>	\$0.11	\$2.06	\$5.78	\$12.63	\$24.89	\$9.10
<i>Graduate/Professional</i>	\$0.06	\$1.09	\$3.05	\$6.67	\$13.14	\$4.80
<i>Aggregate</i>	\$0.20	\$3.61	\$10.15	\$22.18	\$43.74	\$15.98

Table 7-2: Contribution of the Higher Education System, by Student Expenditures

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
STUDENT EXPENDITURE						
<i>Associate's</i>	\$0.02	\$0.03	\$0.04	\$0.07	\$0.08	\$0.05
<i>Bachelor's</i>	\$0.36	\$1.00	\$1.74	\$2.84	\$4.82	\$2.15
<i>Graduate/Professional</i>	\$1.32	\$1.74	\$2.21	\$2.86	\$3.94	\$2.41
<i>Aggregate</i>	\$0.61	\$0.93	\$1.29	\$1.81	\$2.65	\$1.45

	Employment (Thousands)					
	2008	2018	2028	2038	2048	Average
STUDENT EXPENDITURE						
<i>Associate's</i>	0.892	0.665	0.547	0.461	0.403	0.594
<i>Bachelor's</i>	22.310	25.560	26.780	27.240	27.820	25.942
<i>Graduate/Professional</i>	10.980	10.210	9.551	8.880	8.482	9.621
<i>Aggregate</i>	5.239	5.297	5.094	4.881	4.734	5.049

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
STUDENT EXPENDITURE						
<i>Associate's</i>	\$0.07	\$0.09	\$0.11	\$0.13	\$0.17	\$0.11
<i>Bachelor's</i>	\$0.63	\$1.15	\$1.79	\$2.66	\$4.04	\$2.05
<i>Graduate/Professional</i>	\$0.59	\$0.86	\$1.15	\$1.52	\$2.09	\$1.24
<i>Aggregate</i>	\$0.26	\$0.41	\$0.59	\$0.84	\$1.23	\$0.67

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
STUDENT EXPENDITURE						
<i>Associate's</i>	\$0.12	\$0.14	\$0.18	\$0.23	\$0.30	\$0.19
<i>Bachelor's</i>	\$1.02	\$1.64	\$2.48	\$3.66	\$5.55	\$2.87
<i>Graduate/Professional</i>	\$0.95	\$1.27	\$1.68	\$2.22	\$3.04	\$1.83
<i>Aggregate</i>	\$0.40	\$0.60	\$0.85	\$1.21	\$1.76	\$0.96

Table 7-3: Contribution of the Higher Education System, by Employment

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
EMPLOYMENT EFFECT						
<i>Associate's</i>	\$0.51	\$0.94	\$1.43	\$2.18	\$3.51	\$1.71
<i>Bachelor's</i>	\$1.38	\$2.51	\$3.85	\$5.89	\$9.46	\$4.62
<i>Graduate/Professional</i>	\$0.38	\$0.69	\$1.06	\$1.62	\$2.60	\$1.27
<i>Aggregate</i>	\$2.27	\$4.13	\$6.35	\$9.70	\$15.59	\$7.61

	Employment (Thousands)					
	2008	2018	2028	2038	2048	Average
EMPLOYMENT EFFECT						
<i>Associate's</i>	13.270	14.320	14.760	15.100	15.600	14.610
<i>Bachelor's</i>	33.710	36.340	37.520	38.540	39.900	37.202
<i>Graduate/Professional</i>	9.291	10.010	10.340	10.620	10.990	10.250
<i>Aggregate</i>	56.260	60.660	62.620	64.270	66.520	62.066

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
EMPLOYMENT EFFECT						
<i>Associate's</i>	\$0.44	\$0.74	\$1.10	\$1.61	\$2.46	\$1.27
<i>Bachelor's</i>	\$1.53	\$2.59	\$3.96	\$5.97	\$9.20	\$4.65
<i>Graduate/Professional</i>	\$0.42	\$0.72	\$1.09	\$1.64	\$2.53	\$1.28
<i>Aggregate</i>	\$2.40	\$4.04	\$6.15	\$9.23	\$14.20	\$7.20

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
EMPLOYMENT EFFECT						
<i>Associate's</i>	\$0.71	\$1.05	\$1.54	\$2.26	\$3.42	\$1.80
<i>Bachelor's</i>	\$2.29	\$3.60	\$5.45	\$8.23	\$12.68	\$6.45
<i>Graduate/Professional</i>	\$0.63	\$0.99	\$1.50	\$2.27	\$3.49	\$1.78
<i>Aggregate</i>	\$3.64	\$5.64	\$8.48	\$12.76	\$19.59	\$10.02

Table 7-4: Contribution of the Higher Education System, by Capital Expenditures and Construction

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
CAP. EXPENDITURE/CONSTRUCTION						
<i>Associate's</i>	\$0.07	\$0.14	\$0.23	\$0.35	\$0.47	\$0.25
<i>Bachelor's</i>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Graduate/Professional</i>	\$0.12	\$0.20	\$0.30	\$0.44	\$0.61	\$0.33
<i>Aggregate</i>	\$0.05	\$0.06	\$0.07	\$0.09	\$0.11	\$0.07

	Employment (Thousands)					
	2008	2018	2028	2038	2048	Average
CAP. EXPENDITURE/CONSTRUCTION						
<i>Associate's</i>	0.498	0.599	0.626	0.597	0.549	0.574
<i>Bachelor's</i>	0.050	0.036	0.029	0.024	0.020	0.032
<i>Graduate/Professional</i>	2.325	1.832	1.509	1.237	1.041	1.589
<i>Aggregate</i>	1.827	1.233	0.881	0.637	0.486	1.013

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
CAP. EXPENDITURE/CONSTRUCTION						
<i>Associate's</i>	\$0.02	\$0.06	\$0.09	\$0.13	\$0.19	\$0.10
<i>Bachelor's</i>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<i>Graduate/Professional</i>	\$0.09	\$0.13	\$0.18	\$0.22	\$0.31	\$0.19
<i>Aggregate</i>	\$0.07	\$0.07	\$0.09	\$0.09	\$0.11	\$0.09

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
CAP. EXPENDITURE/CONSTRUCTION						
<i>Associate's</i>	\$0.04	\$0.08	\$0.13	\$0.20	\$0.29	\$0.15
<i>Bachelor's</i>	\$0.01	\$0.01	\$0.01	\$0.01	\$0.02	\$0.01
<i>Graduate/Professional</i>	\$0.17	\$0.20	\$0.26	\$0.34	\$0.44	\$0.28
<i>Aggregate</i>	\$0.13	\$0.12	\$0.13	\$0.14	\$0.15	\$0.13

Table 7-5: Contribution of the Higher Education System, by Athletics and Visitors

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
Athletics and Visitors						
<i>Athletics</i>	\$0.01	\$0.05	\$0.08	\$0.13	\$0.21	\$0.10
<i>Visitors</i>	\$0.00	\$0.01	\$0.01	\$0.02	\$0.03	\$0.01
<i>Both</i>	\$0.02	\$0.06	\$0.10	\$0.15	\$0.24	\$0.11

	Employment (Thousands)					
	2008	2018	2028	2038	2048	Average
Athletics and Visitors						
<i>Athletics</i>	2.760	2.474	2.214	1.973	1.791	2.242
<i>Visitors</i>	0.205	0.204	0.195	0.182	0.173	0.192
<i>Both</i>	2.965	2.680	2.413	2.162	1.972	2.438

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
Athletics and Visitors						
<i>Athletics</i>	\$0.03	\$0.06	\$0.08	\$0.11	\$0.17	\$0.09
<i>Visitors</i>	\$0.01	\$0.01	\$0.02	\$0.02	\$0.03	\$0.02
<i>Both</i>	\$0.04	\$0.07	\$0.10	\$0.14	\$0.20	\$0.11

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
Athletics and Visitors						
<i>Athletics</i>	\$0.05	\$0.07	\$0.10	\$0.14	\$0.22	\$0.12
<i>Visitors</i>	\$0.01	\$0.02	\$0.02	\$0.03	\$0.05	\$0.03
<i>Both</i>	\$0.06	\$0.09	\$0.13	\$0.18	\$0.27	\$0.14

Table 7-6: Contribution of Education-Based Productivity Gains, by Degree Type

	Consumption (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
PRODUCTIVITY						
<i>Associate's</i>	\$0.01	\$0.24	\$0.64	\$1.31	\$2.43	\$0.93
<i>Bachelor's</i>	\$0.06	\$1.08	\$2.85	\$5.81	\$10.79	\$4.12
<i>Graduate/Professional</i>	\$0.03	\$0.57	\$1.50	\$3.07	\$5.70	\$2.17
<i>Aggregate</i>	\$0.10	\$1.89	\$5.00	\$10.20	\$18.97	\$7.23

	Employment (Thous)					
	2008	2018	2028	2038	2048	Average
PRODUCTIVITY						
<i>Associate's</i>	0.516	5.497	9.041	11.650	13.570	8.055
<i>Bachelor's</i>	2.287	24.380	40.110	51.690	60.240	35.741
<i>Graduate/Professional</i>	1.209	12.880	21.180	27.290	31.810	18.874
<i>Aggregate</i>	4.013	42.800	70.440	90.800	105.800	62.771

	Gross State Product (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
PRODUCTIVITY						
<i>Associate's</i>	\$0.14	\$2.17	\$5.14	\$9.48	\$16.06	\$6.60
<i>Bachelor's</i>	\$0.63	\$9.63	\$22.75	\$42.03	\$71.19	\$29.25
<i>Graduate/Professional</i>	\$0.34	\$5.09	\$12.03	\$22.20	\$37.61	\$15.45
<i>Aggregate</i>	\$1.11	\$16.90	\$39.92	\$73.72	\$124.89	\$51.31

	Output (Bil Nom\$)					
	2008	2018	2028	2038	2048	Average
PRODUCTIVITY						
<i>Associate's</i>	\$0.26	\$3.83	\$9.06	\$16.72	\$28.34	\$11.64
<i>Bachelor's</i>	\$1.14	\$16.98	\$40.14	\$74.09	\$125.61	\$51.59
<i>Graduate/Professional</i>	\$0.60	\$8.98	\$21.21	\$39.17	\$66.37	\$27.27
<i>Aggregate</i>	\$2.01	\$29.80	\$70.42	\$130.01	\$220.38	\$90.52

Table 7-7: Contribution of Education-Based Productivity Gains on Sector Productivity, Associate's Degree

Change in Productivity (Thous Nom\$), Associate's					
Industry	2008	2018	2028	2038	2048
Forestry, Fishing, Other	\$0.027	\$0.297	\$0.587	\$0.922	\$1.330
Mining	\$0.334	\$4.061	\$8.483	\$14.212	\$22.272
Utilities	\$0.627	\$7.182	\$15.188	\$25.651	\$39.505
Construction	\$0.025	\$0.313	\$0.664	\$1.106	\$1.666
Manufacturing	\$0.390	\$6.628	\$15.292	\$27.409	\$44.043
Wholesale Trade	\$0.112	\$2.381	\$6.385	\$12.867	\$22.804
Retail Trade	\$0.034	\$0.611	\$1.606	\$3.277	\$5.997
Transp, Warehousing	\$0.111	\$1.697	\$4.058	\$7.583	\$12.659
Information	\$0.286	\$5.094	\$12.661	\$24.134	\$40.646
Finance, Insurance	\$0.089	\$1.396	\$3.369	\$6.269	\$10.496
Real Estate, Rental, Leasing	\$0.846	\$11.141	\$23.993	\$40.399	\$61.304
Profess, Tech Services	\$0.031	\$0.438	\$0.986	\$1.716	\$2.674
Mngmt of Co, Enter	\$0.107	\$2.101	\$5.617	\$11.443	\$20.680
Admin, Waste Services	\$0.018	\$0.254	\$0.572	\$0.999	\$1.562
Educational Services	\$0.009	\$0.093	\$0.179	\$0.272	\$0.375
Health Care, Social Asst	\$0.023	\$0.269	\$0.555	\$0.899	\$1.299
Arts, Enter, Rec	\$0.019	\$0.241	\$0.523	\$0.892	\$1.372
Accom, Food Services	\$0.018	\$0.195	\$0.394	\$0.632	\$0.921
Other Services (excl Gov)	\$0.024	\$0.316	\$0.703	\$1.229	\$1.936

Table 7-8: Contribution of Education-Based Productivity Gains on Sector Productivity, Bachelor's Degree

Change in Productivity (Thous Nom\$), Bachelor's					
Industry	2008	2018	2028	2038	2048
Forestry, Fishing, Other	\$0.118	\$1.321	\$2.617	\$4.119	\$5.947
Mining	\$1.481	\$18.038	\$37.708	\$63.214	\$99.110
Utilities	\$2.781	\$32.136	\$68.399	\$116.010	\$179.011
Construction	\$0.112	\$1.400	\$2.989	\$4.989	\$7.520
Manufacturing	\$1.728	\$29.495	\$68.204	\$122.429	\$196.940
Wholesale Trade	\$0.497	\$10.690	\$28.884	\$58.511	\$103.899
Retail Trade	\$0.152	\$2.729	\$7.203	\$14.755	\$27.044
Transp, Warehousing	\$0.494	\$7.561	\$18.145	\$33.959	\$56.766
Information	\$1.270	\$22.843	\$57.147	\$109.394	\$184.579
Finance, Insurance	\$0.394	\$6.283	\$15.275	\$28.552	\$47.913
Real Estate, Rental, Leasing	\$3.753	\$50.029	\$108.553	\$183.643	\$279.514
Profess, Tech Services	\$0.138	\$1.981	\$4.510	\$7.911	\$12.369
Mngmt of Co, Enter	\$0.475	\$9.534	\$25.818	\$53.016	\$96.159
Admin, Waste Services	\$0.082	\$1.152	\$2.631	\$4.629	\$7.266
Educational Services	\$0.040	\$0.413	\$0.798	\$1.218	\$1.682
Health Care, Social Asst	\$0.102	\$1.195	\$2.474	\$4.018	\$5.816
Arts, Enter, Rec	\$0.082	\$1.083	\$2.369	\$4.060	\$6.267
Accom, Food Services	\$0.078	\$0.870	\$1.772	\$2.855	\$4.170
Other Services (excl Gov)	\$0.106	\$1.411	\$3.159	\$5.546	\$8.756

Table 7-9: Contribution of Education-Based Productivity Gains on Sector Productivity, Graduate and Professional Degrees

Change in Productivity (Thous Nom\$), Graduate/Professional					
Industry	2008	2018	2028	2038	2048
Forestry, Fishing, Other	\$0.062	\$0.696	\$1.377	\$2.165	\$3.126
Mining	\$0.783	\$9.517	\$19.900	\$33.322	\$52.256
Utilities	\$1.468	\$16.883	\$35.794	\$60.555	\$93.292
Construction	\$0.059	\$0.735	\$1.565	\$2.609	\$3.928
Manufacturing	\$0.913	\$15.541	\$35.901	\$64.379	\$103.537
Wholesale Trade	\$0.262	\$5.605	\$15.073	\$30.442	\$53.982
Retail Trade	\$0.080	\$1.435	\$3.778	\$7.724	\$14.140
Transp, Warehousing	\$0.261	\$3.983	\$9.535	\$17.832	\$29.789
Information	\$0.671	\$11.986	\$29.858	\$57.016	\$96.076
Finance, Insurance	\$0.208	\$3.290	\$7.960	\$14.834	\$24.861
Real Estate, Rental, Leasing	\$1.982	\$26.234	\$56.651	\$95.569	\$145.130
Profess, Tech Services	\$0.073	\$1.034	\$2.337	\$4.079	\$6.367
Mngmt of Co, Enter	\$0.251	\$4.967	\$13.341	\$27.255	\$49.332
Admin, Waste Services	\$0.043	\$0.600	\$1.359	\$2.380	\$3.728
Educational Services	\$0.021	\$0.217	\$0.420	\$0.640	\$0.883
Health Care, Social Asst	\$0.054	\$0.630	\$1.303	\$2.113	\$3.054
Arts, Enter, Rec	\$0.043	\$0.568	\$1.235	\$2.110	\$3.252
Accom, Food Services	\$0.041	\$0.458	\$0.929	\$1.492	\$2.175
Other Services (excl Gov)	\$0.056	\$0.742	\$1.656	\$2.899	\$4.571

Table 7-10: Contribution of Education-Based Productivity Gains on Sector Productivity, Aggregate

Change in Productivity (Thous Nom\$), Aggregate					
Industry	2008	2018	2028	2038	2048
Forestry, Fishing, Other	\$0.206	\$2.329	\$4.625	\$7.286	\$10.532
Mining	\$2.599	\$31.717	\$66.379	\$111.329	\$174.612
Utilities	\$4.883	\$56.926	\$121.914	\$207.667	\$321.274
Construction	\$0.197	\$2.482	\$5.325	\$8.913	\$13.441
Manufacturing	\$3.033	\$51.948	\$120.407	\$216.459	\$348.557
Wholesale Trade	\$0.873	\$19.004	\$51.742	\$105.306	\$187.475
Retail Trade	\$0.266	\$4.823	\$12.794	\$26.288	\$48.275
Transp, Warehousing	\$0.867	\$13.341	\$32.109	\$60.225	\$100.753
Information	\$2.230	\$40.548	\$102.138	\$196.325	\$331.853
Finance, Insurance	\$0.693	\$11.190	\$27.413	\$51.477	\$86.555
Real Estate, Rental, Leasing	\$6.594	\$88.932	\$194.388	\$330.579	\$504.182
Profess, Tech Services	\$0.243	\$3.545	\$8.172	\$14.450	\$22.678
Mngmt of Co, Enter	\$0.836	\$17.128	\$47.011	\$97.349	\$177.285
Admin, Waste Services	\$0.144	\$2.071	\$4.795	\$8.504	\$13.399
Educational Services	\$0.071	\$0.727	\$1.411	\$2.156	\$2.982
Health Care, Social Asst	\$0.179	\$2.102	\$4.366	\$7.108	\$10.312
Arts, Enter, Rec	\$0.145	\$1.925	\$4.246	\$7.319	\$11.339
Accom, Food Services	\$0.138	\$1.540	\$3.152	\$5.104	\$7.481
Other Services (excl Gov)	\$0.185	\$2.495	\$5.619	\$9.902	\$15.679

Table 7-11: Inputs, Graduate Earnings, Disposable Income (Fixed 2006\$)

Degree	2008	2009	2010	2011	2012	2013	\$2,014
Associate's	\$33,261,713	\$66,523,425	\$99,785,138	\$133,046,851	\$166,308,563	\$199,570,276	\$232,831,988
Bachelor's	\$147,377,728	\$294,755,456	\$442,133,184	\$589,510,912	\$736,888,640	\$884,266,369	\$1,031,644,097
Graduate/Professional	\$77,891,625	\$155,783,250	\$233,674,874	\$311,566,499	\$389,458,124	\$467,349,749	\$545,241,374

Degree	\$2,015	\$2,016	\$2,017	\$2,018	\$2,019	2020	2021
Associate's	\$266,093,701	\$299,355,414	\$332,617,126	\$365,878,839	\$399,140,552	\$432,402,264	\$465,663,977
Bachelor's	\$1,179,021,825	\$1,326,399,553	\$1,473,777,281	\$1,621,155,009	\$1,768,532,737	\$1,915,910,465	\$2,063,288,193
Graduate/Professional	\$623,132,999	\$701,024,623	\$778,916,248	\$856,807,873	\$934,699,498	\$1,012,591,123	\$1,090,482,747

Degree	2022	2023	2024	2025	2026	2027	2028
Associate's	\$498,925,690	\$532,187,402	\$565,449,115	\$598,710,827	\$631,972,540	\$665,234,253	\$698,495,965
Bachelor's	\$2,210,665,921	\$2,358,043,649	\$2,505,421,377	\$2,652,799,105	\$2,800,176,834	\$2,947,554,562	\$3,094,932,290
Graduate/Professional	\$1,168,374,372	\$1,246,265,997	\$1,324,157,622	\$1,402,049,247	\$1,479,940,871	\$1,557,832,496	\$1,635,724,121

Degree	2029	2030	2031	2032	2033	2034	2035
Associate's	\$731,757,678	\$765,019,391	\$798,281,103	\$831,542,816	\$864,804,528	\$898,066,241	\$931,327,954
Bachelor's	\$3,242,310,018	\$3,389,687,746	\$3,537,065,474	\$3,684,443,202	\$3,831,820,930	\$3,979,198,658	\$4,126,576,386
Graduate/Professional	\$1,713,615,746	\$1,791,507,371	\$1,869,398,995	\$1,947,290,620	\$2,025,182,245	\$2,103,073,870	\$2,180,965,495

Degree	2036	2037	2038	2039	2040	2041	2042
Associate's	\$964,589,666	\$997,851,379	\$1,031,113,092	\$1,064,374,804	\$1,097,636,517	\$1,130,898,229	\$1,164,159,942
Bachelor's	\$4,273,954,114	\$4,421,331,842	\$4,568,709,570	\$4,716,087,299	\$4,863,465,027	\$5,010,842,755	\$5,158,220,483
Graduate/Professional	\$2,258,857,120	\$2,336,748,744	\$2,414,640,369	\$2,492,531,994	\$2,570,423,619	\$2,648,315,244	\$2,726,206,868

Degree	2043	2044	2045	2046	2047	2048
Associate's	\$1,197,421,655	\$1,230,683,367	\$1,263,945,080	\$1,297,206,793	\$1,330,468,505	\$1,363,730,218
Bachelor's	\$5,305,598,211	\$5,452,975,939	\$5,600,353,667	\$5,747,731,395	\$5,895,109,123	\$6,042,486,851
Graduate/Professional	\$2,804,098,493	\$2,881,990,118	\$2,959,881,743	\$3,037,773,368	\$3,115,664,992	\$3,193,556,617

Table 7-12: Inputs, Books and Tuition (Fixed 2006\$)

Variable	Detail	2008-2048
Exogenous Final Demand (amount)	Publishing, exc Internet	\$174,535,644
Industry Sales / Exogenous Production (amount)	Educational services	\$623,170,813
Consumption Reallocation (amount)	All Consumption Sectors	\$586,404,609
Consumer Spending (amount)	Household Operation	\$1,145,416,425

Table 7-13: Inputs, Employment (Employment in Units, Compensation in Fixed 2006\$)

Variable	Detail	Note	2008-2048
Industry Employment	Educational services	Faculty	7,510
Industry Employment	Prof, tech services	Staff	7,638
Industry Employment	Administrative, support services	Staff	10,235
Industry Employment	Prof, tech services	Student	2,105
Industry Employment	Administrative, support services	Student	2,821
Compensation (amount)	Educational services	Faculty	\$445,041,895
Compensation (amount)	Prof, tech services	Staff	\$452,558,942
Compensation (amount)	Administrative, support services	Staff	\$606,553,914
Compensation (amount)	Prof, tech services	Student	\$124,716,522
Compensation (amount)	Administrative, support services	Student	\$167,154,648

Table 7-14: Inputs, Capital Expenditures and Construction (Fixed 2006\$)

Variable	Detail	2008-2043
Output/Sales	Commercial and Institutional Buildings Construction	\$69,178,734
Output/Sales	Highway, Street, Bridge, and Tunnel Construction	\$6,081,300
Output/Sales	Water, Sewer, and Pipeline Construction	\$10,310,013
Consumer Spending	Computers and Furniture	\$35,431,052
Exogenous Final Demand	Publishing, exc Internet	\$9,646,135

Table 7-15: Inputs, Visitor and Athletics (Fixed 2006\$)

Variable	Detail	2008-2048
Exogenous Final Demand (amount)	Retail trade	\$1,260,476.38
Exogenous Final Demand (amount)	Air transportation	\$4,370,473.00
Exogenous Final Demand (amount)	Rail transportation	\$18,001.95
Exogenous Final Demand (amount)	Water transportation	\$242,026.19
Exogenous Final Demand (amount)	Transit, ground pass transp	\$140,015.16
Exogenous Final Demand (amount)	Scenic, sightseeing transp; supp	\$34,003.68
Exogenous Final Demand (amount)	Rental, leasing services	\$196,021.20
Exogenous Final Demand (amount)	Administrative, support services	\$322,034.84
Exogenous Final Demand (amount)	Performing arts, spectator sports	\$314,033.97
Exogenous Final Demand (amount)	Amusement, gambling, recreation	\$1,606,173.88
Exogenous Final Demand (amount)	Accommodation	\$4,530,490.00
Exogenous Final Demand (amount)	Food services, drinking places	\$3,636,393.25
Exogenous Final Demand (amount)	Repair, maintenance	\$246,026.61
Industry Sales / Exogenous Production (amount)	Performing arts, spectator sports	\$33,118,417.00

Table 7-16: Inputs, Productivity, Associate's Degree, Industry Sales/Exog Production without Employment, Investment, and Comp (Fixed 2006\$)

Industry Sector	2008	2009	2010	2011	2012	2013	2014
Forestry et al.	\$194,429	\$384,067	\$567,649	\$745,165	\$919,501	\$1,088,988	\$1,251,729
Agriculture	\$9,570	\$18,582	\$27,258	\$35,511	\$43,499	\$51,141	\$58,359
Oil, gas extraction	\$15,742,624	\$29,229,676	\$43,044,526	\$56,343,008	\$69,277,086	\$81,754,631	\$93,751,969
Mining (except oil, gas)	\$293,826	\$613,240	\$868,809	\$1,093,864	\$1,290,928	\$1,464,430	\$1,611,784
Support activities for mining	\$1,475,526	\$2,916,910	\$4,196,583	\$5,367,777	\$6,452,589	\$7,444,076	\$8,347,616
Utilities	\$5,700,727	\$11,056,775	\$16,139,405	\$20,943,615	\$25,508,304	\$29,831,682	\$33,922,886
Construction	\$2,430,763	\$4,845,396	\$7,106,804	\$9,290,329	\$11,431,408	\$13,511,918	\$15,522,887
Wood product mfg	\$642,923	\$1,295,275	\$1,915,934	\$2,519,897	\$3,104,074	\$3,669,018	\$4,213,930
Nonmetallic mineral prod mfg	\$802,346	\$1,576,828	\$2,342,110	\$3,082,438	\$3,797,143	\$4,476,792	\$5,123,171
Primary metal mfg	\$999,571	\$1,923,018	\$2,832,907	\$3,694,198	\$4,482,540	\$5,203,313	\$5,840,653
Fabricated metal prod mfg	\$2,169,171	\$4,301,933	\$6,368,998	\$8,369,692	\$10,300,628	\$12,137,262	\$13,892,344
Machinery mfg	\$3,883,650	\$7,552,784	\$11,017,971	\$14,188,323	\$16,991,310	\$19,344,657	\$21,252,404
Computer, electronic prod mfg	\$5,237,146	\$13,284,711	\$23,958,081	\$37,722,595	\$54,738,382	\$75,291,410	\$99,926,404
Electrical equip, appliance mfg	\$486,869	\$998,429	\$1,504,962	\$2,001,125	\$2,475,287	\$2,918,754	\$3,322,400
Motor vehicle mfg	\$4,647,639	\$9,221,852	\$13,999,817	\$18,818,750	\$23,675,872	\$28,481,256	\$33,333,991
Transp equip mfg. exc. motor veh	\$655,229	\$1,341,547	\$2,103,174	\$2,919,468	\$3,800,868	\$4,745,560	\$5,747,807
Furniture, related prod mfg	\$224,364	\$458,411	\$681,065	\$889,741	\$1,081,842	\$1,243,482	\$1,382,364
Miscellaneous mfg	\$641,526	\$1,296,877	\$2,007,225	\$2,747,975	\$3,521,239	\$4,314,960	\$5,134,060
Food mfg	\$6,333,707	\$12,556,368	\$18,728,543	\$24,805,349	\$30,866,971	\$36,851,204	\$42,740,253
Beverage, tobacco prod mfg	\$1,279,909	\$2,501,824	\$3,654,933	\$4,754,657	\$5,807,870	\$6,814,801	\$7,776,027
Textile mills	\$14,340	\$28,520	\$39,915	\$53,111	\$61,601	\$68,132	\$79,170
Textile prod mills	\$177,640	\$371,924	\$567,457	\$767,668	\$969,127	\$1,166,023	\$1,369,407
Apparel mfg	\$223,455	\$452,535	\$678,537	\$900,971	\$1,121,808	\$1,338,166	\$1,546,622
Leather, allied prod mfg	\$34,735	\$67,988	\$102,474	\$137,243	\$172,677	\$208,561	\$244,492
Paper mfg	\$1,109,302	\$2,167,104	\$3,159,573	\$4,093,689	\$4,977,215	\$5,798,531	\$6,570,128
Printing, rel supp act	\$255,318	\$502,767	\$739,878	\$969,102	\$1,185,698	\$1,392,228	\$1,590,107
Petroleum, coal prod mfg	\$13,961,574	\$27,595,895	\$41,092,019	\$54,361,973	\$67,480,109	\$80,391,845	\$93,087,548
Chemical mfg	\$1,183,380	\$2,348,612	\$3,501,989	\$4,640,387	\$5,760,166	\$6,849,856	\$7,924,517

Plastics, rubber prod mfg	\$4,199,341	\$8,718,775	\$13,407,783	\$18,291,578	\$23,342,194	\$28,577,427	\$33,954,196
Wholesale trade	\$5,721,838	\$12,281,086	\$19,516,034	\$27,484,881	\$36,218,572	\$45,704,568	\$56,012,493
Retail trade	\$6,802,380	\$14,275,004	\$22,145,678	\$30,517,242	\$39,422,060	\$48,827,320	\$58,784,257
Air transportation	\$2,339,321	\$4,879,402	\$7,695,745	\$10,771,899	\$14,133,536	\$17,777,290	\$21,741,157
Rail transportation	\$198,876	\$412,469	\$634,957	\$869,252	\$1,114,672	\$1,370,466	\$1,634,075
Water transportation	\$993	\$1,917	\$2,796	\$3,622	\$4,411	\$5,158	\$5,854
Truck transp; Couriers, msngrs	\$2,135,215	\$4,359,340	\$6,625,559	\$8,938,709	\$11,305,989	\$13,707,035	\$16,144,149
Transit, ground pass transp	\$28,627	\$55,883	\$83,774	\$109,741	\$135,168	\$162,266	\$186,205
Pipeline transportation	\$1,057,666	\$2,010,533	\$2,875,841	\$3,651,756	\$4,356,146	\$4,988,905	\$5,547,490
Scenic, sightseeing transp; supp	\$176,675	\$367,714	\$574,485	\$797,005	\$1,035,725	\$1,291,680	\$1,565,884
Warehousing, storage	\$66,772	\$136,819	\$209,579	\$284,802	\$363,384	\$444,483	\$529,052
Publishing, exc Internet	\$985,142	\$2,079,560	\$3,278,492	\$4,583,251	\$5,991,461	\$7,492,817	\$9,108,266
Motion picture, sound rec	\$49,171	\$101,697	\$154,807	\$209,080	\$265,189	\$322,516	\$380,387
Internet serv, data proc, other	\$526,829	\$1,139,726	\$1,850,015	\$2,655,945	\$3,563,417	\$4,575,006	\$5,697,967
Broadcasting, exc Int; Telecomm	\$7,000,822	\$14,447,450	\$22,378,392	\$30,753,693	\$39,630,636	\$48,948,462	\$58,756,892
Monetary authorities, et al.	\$3,960,045	\$8,019,639	\$12,237,606	\$16,593,723	\$21,114,258	\$25,771,645	\$30,583,304
Sec, comm contracts, inv	\$352,616	\$740,464	\$1,169,153	\$1,631,765	\$2,131,991	\$2,663,515	\$3,229,106
Ins carriers, rel act	\$1,540,789	\$3,020,999	\$4,478,094	\$5,901,424	\$7,299,507	\$8,664,983	\$9,998,224
Real estate	\$39,851,348	\$78,934,549	\$117,433,751	\$155,349,802	\$192,923,855	\$229,955,200	\$266,458,614
Rental, leasing services	\$10,389,558	\$21,926,742	\$34,983,571	\$49,360,636	\$65,088,557	\$82,098,046	\$100,493,572
Prof, tech services	\$2,786,012	\$5,623,514	\$8,556,574	\$11,558,452	\$14,639,831	\$17,775,912	\$20,970,815
Mgmnt of companies, enterprises	\$1,207,713	\$2,523,147	\$3,937,556	\$5,453,225	\$7,076,222	\$8,798,937	\$10,631,618
Administrative, support services	\$1,948,080	\$3,938,818	\$5,991,260	\$8,096,086	\$10,267,977	\$12,490,372	\$14,771,744
Waste mgmnt, remed services	\$240,008	\$466,289	\$686,106	\$896,956	\$1,100,022	\$1,298,028	\$1,490,367
Educational services	\$219,112	\$426,334	\$626,932	\$821,139	\$1,008,993	\$1,190,115	\$1,366,990
Ambulatory health care services	\$2,311,815	\$4,567,550	\$6,858,830	\$9,154,640	\$11,466,913	\$13,784,788	\$16,123,347
Hospitals	\$1,341,975	\$2,678,259	\$4,061,574	\$5,470,944	\$6,912,698	\$8,379,219	\$9,877,105
Nursing, residential care facilities	\$315,836	\$608,492	\$890,112	\$1,158,362	\$1,415,608	\$1,659,564	\$1,890,716
Social assistance	\$287,595	\$562,416	\$831,544	\$1,093,046	\$1,349,132	\$1,597,992	\$1,842,037
Performing arts, spectator sports	\$59,469	\$118,809	\$177,914	\$236,543	\$295,567	\$354,340	\$412,232

Museums et al.	\$13,939	\$27,773	\$41,767	\$54,288	\$68,139	\$82,032	\$95,807
Amusement, gambling, recreation	\$516,349	\$1,037,715	\$1,571,902	\$2,115,289	\$2,676,628	\$3,244,394	\$3,829,238
Accommodation	\$213,257	\$425,375	\$636,668	\$847,684	\$1,058,562	\$1,270,500	\$1,479,531
Food services, drinking places	\$1,936,933	\$3,788,110	\$5,555,268	\$7,245,429	\$8,879,218	\$10,445,546	\$11,944,271
Repair, maintenance	\$1,039,689	\$2,044,410	\$3,028,888	\$3,988,515	\$4,928,555	\$5,841,828	\$6,732,573
Personal, laundry services	\$686,947	\$1,385,645	\$2,113,395	\$2,864,827	\$3,647,233	\$4,450,264	\$5,281,240
Membership assoc, organ	\$440,324	\$871,996	\$1,302,828	\$1,731,345	\$2,161,949	\$2,589,749	\$3,016,354
Private households	\$27,686	\$53,250	\$77,392	\$99,203	\$120,426	\$139,313	\$156,482

Industry Sector	2015	2016	2017	2018	2019	2020	2021
Forestry et al.	\$1,415,567	\$1,589,019	\$1,745,893	\$1,903,020	\$2,074,142	\$2,228,442	\$2,399,262
Agriculture	\$66,514	\$73,632	\$81,519	\$88,428	\$96,282	\$104,186	\$110,774
Oil, gas extraction	\$105,110,417	\$116,064,253	\$126,705,601	\$137,158,370	\$147,386,421	\$157,497,035	\$167,478,154
Mining (except oil, gas)	\$1,841,292	\$2,073,360	\$2,299,418	\$2,528,861	\$2,756,991	\$2,986,926	\$3,216,043
Support activities for mining	\$9,425,912	\$10,475,693	\$11,498,523	\$12,500,650	\$13,481,617	\$14,443,150	\$15,384,069
Utilities	\$38,534,287	\$43,092,304	\$47,591,267	\$52,030,393	\$56,413,217	\$60,745,848	\$65,023,768
Construction	\$17,435,231	\$19,317,195	\$21,162,666	\$22,963,818	\$24,717,551	\$26,423,907	\$28,082,560
Wood product mfg	\$4,821,775	\$5,431,744	\$6,039,569	\$6,651,303	\$7,268,375	\$7,884,056	\$8,498,550
Nonmetallic mineral prod mfg	\$5,878,455	\$6,631,796	\$7,398,314	\$8,166,612	\$8,939,878	\$9,717,414	\$10,501,567
Primary metal mfg	\$6,814,446	\$7,814,314	\$8,848,956	\$9,914,011	\$11,005,926	\$12,136,923	\$13,286,402
Fabricated metal prod mfg	\$16,033,664	\$18,206,255	\$20,415,464	\$22,653,148	\$24,928,019	\$27,232,906	\$29,566,565
Machinery mfg	\$24,985,249	\$28,870,724	\$32,902,006	\$37,081,535	\$41,395,353	\$45,831,703	\$50,378,567
Computer, electronic prod mfg	\$117,346,852	\$135,448,050	\$154,200,205	\$173,631,052	\$193,661,830	\$214,250,543	\$235,334,141
Electrical equip, appliance mfg	\$3,905,480	\$4,511,589	\$5,141,333	\$5,790,132	\$6,461,613	\$7,163,225	\$7,879,525
Motor vehicle mfg	\$38,621,483	\$44,020,520	\$49,543,417	\$55,167,725	\$60,916,741	\$66,757,437	\$72,695,056
Transp equip mfg. exc. motor veh	\$6,585,487	\$7,419,186	\$8,261,999	\$9,102,572	\$9,954,070	\$10,801,134	\$11,654,528
Furniture, related prod mfg	\$1,645,347	\$1,923,117	\$2,215,909	\$2,518,754	\$2,841,197	\$3,170,685	\$3,520,528
Miscellaneous mfg	\$5,935,407	\$6,749,805	\$7,578,969	\$8,416,918	\$9,269,093	\$10,137,847	\$11,013,618
Food mfg	\$48,094,538	\$53,274,930	\$58,299,651	\$63,171,572	\$67,913,895	\$72,508,741	\$76,986,909
Beverage, tobacco prod mfg	\$8,750,990	\$9,681,403	\$10,579,740	\$11,437,655	\$12,264,651	\$13,063,858	\$13,836,604

Textile mills	\$87,919	\$96,095	\$112,408	\$120,448	\$137,872	\$145,720	\$153,155
Textile prod mills	\$1,579,234	\$1,790,019	\$2,013,362	\$2,243,659	\$2,463,401	\$2,700,567	\$2,925,683
Apparel mfg	\$1,727,193	\$1,898,354	\$2,072,581	\$2,220,819	\$2,373,475	\$2,508,579	\$2,650,973
Leather, allied prod mfg	\$271,511	\$296,759	\$320,435	\$343,354	\$364,950	\$385,724	\$405,403
Paper mfg	\$7,518,298	\$8,467,316	\$9,420,366	\$10,374,993	\$11,326,082	\$12,286,298	\$13,244,748
Printing, rel supp act	\$1,818,885	\$2,050,152	\$2,280,797	\$2,511,015	\$2,740,262	\$2,971,611	\$3,202,434
Petroleum, coal prod mfg	\$106,031,870	\$118,855,859	\$131,570,949	\$144,237,404	\$156,770,613	\$169,235,498	\$181,632,568
Chemical mfg	\$9,035,254	\$10,132,285	\$11,235,854	\$12,327,046	\$13,418,243	\$14,505,093	\$15,595,993
Plastics, rubber prod mfg	\$39,125,497	\$44,351,426	\$49,643,687	\$55,009,978	\$60,433,699	\$65,913,389	\$71,457,614
Wholesale trade	\$64,492,757	\$73,065,813	\$81,730,610	\$90,485,325	\$99,316,878	\$108,223,761	\$117,195,381
Retail trade	\$67,387,283	\$76,054,039	\$84,751,871	\$93,472,483	\$102,210,694	\$110,986,870	\$119,788,790
Air transportation	\$24,896,676	\$28,056,365	\$31,222,187	\$34,390,643	\$37,556,819	\$40,726,643	\$43,889,165
Rail transportation	\$1,868,276	\$2,105,118	\$2,341,209	\$2,576,462	\$2,816,127	\$3,052,596	\$3,288,393
Water transportation	\$6,501	\$7,105	\$7,672	\$8,221	\$8,738	\$9,235	\$9,706
Truck transp; Couriers, msngrs	\$18,508,077	\$20,877,735	\$23,259,714	\$25,650,802	\$28,055,703	\$30,463,514	\$32,883,466
Transit, ground pass transp	\$212,956	\$239,506	\$262,256	\$288,820	\$315,283	\$337,614	\$364,056
Pipeline transportation	\$6,316,994	\$7,075,403	\$7,824,506	\$8,581,968	\$9,322,020	\$10,064,308	\$10,800,243
Scenic, sightseeing transp; supp	\$1,794,686	\$2,025,415	\$2,255,935	\$2,487,791	\$2,722,777	\$2,953,196	\$3,187,113
Warehousing, storage	\$606,203	\$685,266	\$764,438	\$845,367	\$926,444	\$1,008,673	\$1,091,133
Publishing, exc Internet	\$10,584,154	\$12,094,842	\$13,635,513	\$15,212,067	\$16,808,003	\$18,431,480	\$20,072,593
Motion picture, sound rec	\$443,545	\$512,494	\$578,308	\$646,380	\$721,105	\$792,158	\$864,110
Internet serv, data proc, other	\$6,501,999	\$7,311,290	\$8,107,957	\$8,908,326	\$9,711,656	\$10,502,961	\$11,299,124
Broadcasting, exc Int; Telecomm	\$67,113,815	\$75,439,934	\$83,741,292	\$92,009,188	\$100,253,810	\$108,457,364	\$116,641,479
Monetary authorities, et al.	\$34,840,550	\$39,081,907	\$43,294,368	\$47,493,459	\$51,667,545	\$55,823,506	\$59,965,105
Sec, comm contracts, inv	\$3,640,572	\$4,046,759	\$4,455,544	\$4,861,692	\$5,265,354	\$5,668,510	\$6,071,870
Ins carriers, rel act	\$11,425,033	\$12,849,936	\$14,274,174	\$15,693,933	\$17,113,709	\$18,531,281	\$19,947,641
Real estate	\$302,977,981	\$339,135,791	\$374,846,759	\$410,050,816	\$444,842,121	\$479,181,404	\$513,150,358
Rental, leasing services	\$114,828,857	\$129,106,307	\$143,386,842	\$157,686,077	\$171,966,550	\$186,252,831	\$200,553,688
Prof, tech services	\$23,995,790	\$27,021,153	\$30,053,408	\$33,090,689	\$36,130,224	\$39,172,604	\$42,215,334
Mgmnt of companies, enterprises	\$12,194,188	\$13,760,849	\$15,330,788	\$16,912,291	\$18,502,638	\$20,094,838	\$21,692,715

Administrative, support services	\$16,875,495	\$18,973,657	\$21,067,386	\$23,157,431	\$25,240,699	\$27,321,927	\$29,396,999
Waste mgmnt, remed services	\$1,696,168	\$1,898,815	\$2,103,215	\$2,305,614	\$2,505,874	\$2,701,591	\$2,900,788
Educational services	\$1,556,818	\$1,745,718	\$1,934,547	\$2,119,885	\$2,305,320	\$2,489,313	\$2,671,778
Ambulatory health care services	\$18,456,532	\$20,795,376	\$23,132,029	\$25,449,169	\$27,757,292	\$30,059,082	\$32,351,295
Hospitals	\$11,295,012	\$12,720,837	\$14,138,256	\$15,546,669	\$16,946,716	\$18,343,633	\$19,730,183
Nursing, residential care facilities	\$2,161,419	\$2,431,687	\$2,700,489	\$2,965,566	\$3,230,735	\$3,495,441	\$3,756,280
Social assistance	\$2,096,936	\$2,350,115	\$2,602,676	\$2,851,336	\$3,097,120	\$3,340,937	\$3,582,356
Performing arts, spectator sports	\$472,653	\$529,602	\$585,887	\$642,828	\$699,244	\$755,939	\$812,261
Museums et al.	\$109,055	\$122,103	\$134,984	\$148,002	\$160,886	\$173,823	\$186,663
Amusement, gambling, recreation	\$4,356,236	\$4,879,342	\$5,396,046	\$5,913,278	\$6,419,180	\$6,920,266	\$7,415,951
Accommodation	\$1,683,607	\$1,887,677	\$2,086,156	\$2,283,004	\$2,481,132	\$2,675,881	\$2,868,652
Food services, drinking places	\$13,428,097	\$14,865,812	\$16,255,909	\$17,595,072	\$18,885,287	\$20,136,997	\$21,345,584
Repair, maintenance	\$7,652,331	\$8,560,571	\$9,465,739	\$10,354,397	\$11,236,247	\$12,107,651	\$12,975,266
Personal, laundry services	\$6,010,514	\$6,733,436	\$7,452,920	\$8,158,978	\$8,861,981	\$9,554,507	\$10,239,652
Membership assoc, organ	\$3,434,845	\$3,851,550	\$4,263,884	\$4,674,079	\$5,077,317	\$5,479,045	\$5,877,050
Private households	\$177,421	\$197,904	\$216,561	\$236,660	\$254,813	\$272,770	\$290,316

Industry Sector	2022	2023	2024	2025	2026	2027	2028
Forestry et al.	\$2,549,737	\$2,718,516	\$2,865,312	\$3,010,677	\$3,177,684	\$3,321,337	\$3,485,701
Agriculture	\$118,546	\$126,274	\$132,532	\$140,175	\$147,814	\$155,462	\$161,362
Oil, gas extraction	\$177,395,338	\$187,258,306	\$197,119,241	\$207,006,401	\$216,956,342	\$227,009,349	\$237,175,818
Mining (except oil, gas)	\$3,444,604	\$3,672,130	\$3,906,257	\$4,133,484	\$4,360,713	\$4,588,325	\$4,820,766
Support activities for mining	\$16,311,173	\$17,219,429	\$18,111,791	\$18,997,233	\$19,871,747	\$20,742,823	\$21,610,376
Utilities	\$69,266,608	\$73,456,877	\$77,605,076	\$81,714,606	\$85,784,640	\$89,836,698	\$93,869,219
Construction	\$29,702,339	\$31,286,160	\$32,840,371	\$34,363,759	\$35,872,002	\$37,360,373	\$38,831,843
Wood product mfg	\$9,121,358	\$9,733,747	\$10,364,430	\$10,987,437	\$11,611,756	\$12,238,324	\$12,867,951
Nonmetallic mineral prod mfg	\$11,287,488	\$12,086,427	\$12,880,571	\$13,685,341	\$14,493,729	\$15,306,780	\$16,134,856
Primary metal mfg	\$14,464,241	\$15,668,219	\$16,899,830	\$18,138,594	\$19,394,000	\$20,654,261	\$21,926,031
Fabricated metal prod mfg	\$31,924,589	\$34,308,828	\$36,715,657	\$39,135,727	\$41,566,379	\$44,009,400	\$46,469,034
Machinery mfg	\$55,035,433	\$59,782,272	\$64,595,394	\$69,453,572	\$74,329,242	\$79,210,322	\$84,089,223

Computer, electronic prod mfg	\$256,910,796	\$278,889,300	\$301,240,413	\$323,840,995	\$346,611,521	\$369,464,885	\$392,440,554
Electrical equip, appliance mfg	\$8,619,798	\$9,372,595	\$10,137,807	\$10,927,415	\$11,730,032	\$12,545,887	\$13,363,901
Motor vehicle mfg	\$78,721,693	\$84,823,961	\$90,994,766	\$97,218,180	\$103,441,823	\$109,681,112	\$115,950,813
Transp equip mfg. exc. motor veh	\$12,508,208	\$13,368,491	\$14,229,081	\$15,083,540	\$15,948,884	\$16,808,400	\$17,666,806
Furniture, related prod mfg	\$3,873,467	\$4,246,665	\$4,621,458	\$5,011,131	\$5,415,774	\$5,821,380	\$6,237,096
Miscellaneous mfg	\$11,906,171	\$12,804,351	\$13,719,276	\$14,643,181	\$15,575,280	\$16,516,434	\$17,464,414
Food mfg	\$81,338,509	\$85,558,039	\$89,674,681	\$93,681,464	\$97,594,409	\$101,409,843	\$105,160,331
Beverage, tobacco prod mfg	\$14,585,771	\$15,296,439	\$15,985,147	\$16,656,150	\$17,310,320	\$17,950,204	\$18,562,282
Textile mills	\$171,661	\$178,833	\$185,655	\$204,996	\$211,664	\$231,702	\$238,067
Textile prod mills	\$3,167,181	\$3,410,540	\$3,639,458	\$3,886,775	\$4,136,410	\$4,388,584	\$4,639,567
Apparel mfg	\$2,773,216	\$2,904,777	\$3,031,892	\$3,155,386	\$3,275,442	\$3,392,557	\$3,522,636
Leather, allied prod mfg	\$424,098	\$441,816	\$458,670	\$474,800	\$490,244	\$514,105	\$528,228
Paper mfg	\$14,202,391	\$15,167,760	\$16,121,571	\$17,088,301	\$18,056,920	\$19,028,894	\$20,001,077
Printing, rel supp act	\$3,432,970	\$3,662,720	\$3,892,069	\$4,128,337	\$4,358,406	\$4,589,047	\$4,816,508
Petroleum, coal prod mfg	\$193,987,061	\$206,236,720	\$218,407,811	\$230,591,020	\$242,740,392	\$254,879,249	\$267,063,912
Chemical mfg	\$16,682,192	\$17,761,509	\$18,848,849	\$19,935,861	\$21,022,268	\$22,109,948	\$23,209,899
Plastics, rubber prod mfg	\$77,060,840	\$82,712,208	\$88,406,460	\$94,143,539	\$99,919,329	\$105,724,590	\$111,581,660
Wholesale trade	\$126,232,638	\$135,324,574	\$144,459,530	\$153,633,923	\$162,821,625	\$172,030,467	\$181,270,289
Retail trade	\$128,609,386	\$137,483,225	\$146,396,745	\$155,342,673	\$164,331,325	\$173,384,269	\$182,476,805
Air transportation	\$47,057,982	\$50,216,802	\$53,370,849	\$56,518,034	\$59,668,012	\$62,813,553	\$65,965,379
Rail transportation	\$3,530,217	\$3,764,947	\$4,006,116	\$4,240,755	\$4,475,499	\$4,718,408	\$4,950,500
Water transportation	\$10,154	\$10,578	\$10,982	\$11,368	\$23,475	\$24,186	\$24,850
Truck transp; Couriers, msngrs	\$35,312,503	\$37,746,002	\$40,180,734	\$42,623,487	\$45,073,117	\$47,524,721	\$49,981,712
Transit, ground pass transp	\$385,664	\$411,821	\$432,745	\$458,757	\$479,252	\$505,244	\$530,921
Pipeline transportation	\$11,530,981	\$12,255,160	\$12,986,951	\$13,704,190	\$14,418,949	\$15,146,500	\$15,861,579
Scenic, sightseeing transp; supp	\$3,421,162	\$3,654,814	\$3,888,425	\$4,122,662	\$4,357,424	\$4,588,122	\$4,820,720
Warehousing, storage	\$1,173,875	\$1,256,700	\$1,339,713	\$1,423,130	\$1,506,905	\$1,591,147	\$1,674,536
Publishing, exc Internet	\$21,740,887	\$23,422,911	\$25,119,717	\$26,823,781	\$28,532,503	\$30,234,917	\$31,950,690
Motion picture, sound rec	\$943,546	\$1,017,335	\$1,098,961	\$1,174,543	\$1,258,511	\$1,335,904	\$1,421,046
Internet serv, data proc, other	\$12,092,459	\$12,881,343	\$13,678,167	\$14,464,040	\$15,249,283	\$16,035,269	\$16,821,315

Broadcasting, exc Int; Telecomm	\$124,779,158	\$132,895,289	\$140,964,023	\$149,010,143	\$157,030,374	\$165,021,195	\$172,998,060
Monetary authorities, et al.	\$64,083,374	\$68,179,368	\$72,262,553	\$76,338,098	\$80,415,376	\$84,482,184	\$88,522,397
Sec, comm contracts, inv	\$6,476,961	\$6,877,887	\$7,281,724	\$7,684,222	\$8,085,352	\$8,485,906	\$8,886,017
Ins carriers, rel act	\$21,365,163	\$22,781,534	\$24,199,874	\$25,613,773	\$27,033,955	\$28,451,198	\$29,872,836
Real estate	\$546,682,603	\$579,898,378	\$612,744,165	\$645,240,432	\$677,427,566	\$709,367,884	\$741,042,317
Rental, leasing services	\$214,846,059	\$229,128,835	\$243,432,969	\$257,780,174	\$272,110,903	\$286,475,220	\$300,882,268
Prof, tech services	\$45,262,748	\$48,304,909	\$51,342,774	\$54,380,680	\$57,412,157	\$60,431,054	\$63,443,258
Mgmnt of companies, enterprises	\$23,298,506	\$24,909,372	\$26,521,456	\$28,139,210	\$29,761,853	\$31,384,022	\$33,002,829
Administrative, support services	\$31,469,019	\$33,534,228	\$35,596,902	\$37,655,235	\$39,712,780	\$41,763,685	\$43,816,547
Waste mgmnt, remed services	\$3,098,742	\$3,295,076	\$3,490,205	\$3,684,810	\$3,878,868	\$4,072,753	\$4,263,182
Educational services	\$2,850,476	\$3,030,006	\$3,208,346	\$3,386,127	\$3,563,333	\$3,740,312	\$3,914,054
Ambulatory health care services	\$34,622,439	\$36,895,642	\$39,169,150	\$41,431,064	\$43,696,032	\$45,972,555	\$48,241,350
Hospitals	\$21,107,597	\$22,480,572	\$23,852,202	\$25,218,802	\$26,588,484	\$27,959,496	\$29,327,887
Nursing, residential care facilities	\$4,015,798	\$4,273,483	\$4,532,599	\$4,791,461	\$5,047,078	\$5,305,692	\$5,563,263
Social assistance	\$3,821,785	\$4,058,792	\$4,290,709	\$4,524,712	\$4,757,702	\$4,990,158	\$5,221,715
Performing arts, spectator sports	\$868,289	\$923,914	\$979,247	\$1,034,477	\$1,089,595	\$1,144,703	\$1,198,875
Museums et al.	\$199,425	\$212,085	\$224,669	\$237,221	\$249,740	\$262,249	\$269,453
Amusement, gambling, recreation	\$7,913,594	\$8,399,633	\$8,881,423	\$9,360,777	\$9,845,209	\$10,320,957	\$10,794,971
Accommodation	\$3,059,774	\$3,248,906	\$3,431,592	\$3,618,145	\$3,803,850	\$3,983,700	\$4,165,136
Food services, drinking places	\$22,509,957	\$23,642,922	\$24,734,509	\$25,795,329	\$26,826,092	\$27,830,154	\$28,803,407
Repair, maintenance	\$13,828,457	\$14,678,513	\$15,528,269	\$16,367,001	\$17,193,986	\$18,025,867	\$18,848,912
Personal, laundry services	\$10,918,618	\$11,590,209	\$12,256,013	\$12,918,527	\$13,577,766	\$14,235,120	\$14,887,639
Membership assoc, organ	\$6,268,960	\$6,659,971	\$7,048,074	\$7,431,289	\$7,816,260	\$8,196,894	\$8,573,711
Private households	\$307,499	\$324,301	\$340,778	\$357,012	\$373,013	\$388,828	\$404,154

Industry Sector	2029	2030	2031	2032	2033	2034	2035
Forestry et al.	\$3,647,315	\$3,784,057	\$3,942,619	\$4,097,790	\$4,249,271	\$4,424,801	\$4,572,434
Agriculture	\$168,715	\$176,095	\$183,320	\$190,382	\$197,267	\$203,988	\$210,666
Oil, gas extraction	\$247,440,304	\$257,901,522	\$268,538,690	\$279,299,368	\$290,225,872	\$301,331,713	\$312,856,040
Mining (except oil, gas)	\$5,049,677	\$5,279,804	\$5,505,721	\$5,736,020	\$5,970,723	\$6,201,316	\$6,431,423

Support activities for mining	\$22,479,622	\$23,352,437	\$24,222,457	\$25,101,619	\$25,984,573	\$26,880,434	\$27,777,037
Utilities	\$97,892,736	\$101,904,933	\$105,921,212	\$109,927,978	\$113,938,669	\$117,965,833	\$121,988,892
Construction	\$40,286,210	\$41,726,535	\$43,144,876	\$44,571,062	\$46,006,400	\$47,475,501	\$48,944,075
Wood product mfg	\$13,510,917	\$14,147,231	\$14,784,793	\$15,435,116	\$16,086,021	\$16,738,720	\$17,391,017
Nonmetallic mineral prod mfg	\$16,961,654	\$17,795,372	\$18,642,235	\$19,485,415	\$20,340,525	\$21,209,475	\$22,079,178
Primary metal mfg	\$23,206,243	\$24,489,780	\$25,763,547	\$27,038,813	\$28,313,157	\$29,558,878	\$30,850,641
Fabricated metal prod mfg	\$48,932,058	\$51,392,438	\$53,857,750	\$56,316,417	\$58,764,282	\$61,204,629	\$63,673,930
Machinery mfg	\$88,940,458	\$93,743,010	\$98,482,708	\$103,127,717	\$107,664,541	\$112,083,436	\$116,566,644
Computer, electronic prod mfg	\$415,474,302	\$438,412,672	\$461,265,371	\$483,942,873	\$506,391,128	\$528,622,310	\$551,132,444
Electrical equip, appliance mfg	\$14,206,214	\$15,048,921	\$15,901,065	\$16,774,691	\$17,641,941	\$18,516,444	\$19,408,978
Motor vehicle mfg	\$122,204,314	\$128,421,710	\$134,615,993	\$140,761,126	\$146,827,091	\$152,837,681	\$158,919,176
Transp equip mfg. exc. motor veh	\$18,532,452	\$19,393,665	\$20,260,858	\$21,112,757	\$21,969,054	\$22,820,901	\$23,682,121
Furniture, related prod mfg	\$6,654,341	\$7,086,735	\$7,527,116	\$7,966,628	\$8,420,720	\$8,873,061	\$9,336,997
Miscellaneous mfg	\$18,429,340	\$19,392,699	\$20,358,532	\$21,338,537	\$22,318,693	\$23,300,137	\$24,283,217
Food mfg	\$108,829,738	\$112,446,672	\$115,984,813	\$119,482,649	\$122,906,779	\$126,290,741	\$129,588,482
Beverage, tobacco prod mfg	\$19,163,187	\$19,737,780	\$20,320,142	\$20,894,021	\$21,441,139	\$22,002,117	\$22,534,179
Textile mills	\$258,338	\$264,402	\$285,008	\$290,455	\$310,986	\$315,787	\$336,371
Textile prod mills	\$4,907,695	\$5,179,239	\$5,428,762	\$5,715,567	\$5,979,113	\$6,260,489	\$6,542,836
Apparel mfg	\$3,648,027	\$3,791,687	\$3,931,347	\$4,087,007	\$4,259,499	\$4,429,227	\$4,619,853
Leather, allied prod mfg	\$550,859	\$573,509	\$595,596	\$627,210	\$658,548	\$689,611	\$720,783
Paper mfg	\$20,971,821	\$21,948,601	\$22,922,158	\$23,905,364	\$24,883,766	\$25,859,128	\$26,847,156
Printing, rel supp act	\$5,047,611	\$5,280,042	\$5,508,366	\$5,740,136	\$5,967,265	\$6,198,210	\$6,428,682
Petroleum, coal prod mfg	\$279,230,912	\$291,496,104	\$303,789,345	\$316,110,148	\$328,449,882	\$340,898,992	\$353,374,385
Chemical mfg	\$24,321,534	\$25,424,279	\$26,537,541	\$27,661,483	\$28,795,496	\$29,926,096	\$31,071,455
Plastics, rubber prod mfg	\$117,480,980	\$123,403,013	\$129,371,502	\$135,347,484	\$141,339,670	\$147,357,484	\$153,398,304
Wholesale trade	\$190,513,994	\$199,761,583	\$209,020,809	\$218,273,653	\$227,528,876	\$236,791,977	\$246,117,344
Retail trade	\$191,602,659	\$200,796,221	\$210,074,403	\$219,477,219	\$229,050,391	\$238,800,156	\$248,610,730
Air transportation	\$69,119,113	\$72,277,265	\$75,432,211	\$78,596,113	\$81,752,193	\$84,907,050	\$88,055,170
Rail transportation	\$5,194,775	\$5,432,463	\$5,674,303	\$5,911,818	\$6,153,264	\$6,390,461	\$6,627,143
Water transportation	\$25,468	\$26,066	\$26,619	\$27,127	\$27,592	\$28,018	\$28,424

Truck transp; Couriers, msngrs	\$52,448,956	\$54,924,145	\$57,405,570	\$59,891,911	\$62,370,782	\$64,866,191	\$67,359,020
Transit, ground pass transp	\$550,168	\$575,456	\$600,295	\$618,207	\$641,910	\$665,122	\$688,236
Pipeline transportation	\$16,576,998	\$17,309,583	\$18,027,376	\$18,760,456	\$19,477,477	\$20,211,605	\$20,943,621
Scenic, sightseeing transp; supp	\$5,054,997	\$5,290,743	\$5,527,937	\$5,760,983	\$6,000,656	\$6,236,324	\$6,471,617
Warehousing, storage	\$1,760,907	\$1,843,859	\$1,929,709	\$2,014,234	\$2,101,654	\$2,187,786	\$2,269,351
Publishing, exc Internet	\$33,652,353	\$35,345,982	\$37,043,620	\$38,717,861	\$40,391,073	\$42,039,298	\$43,713,783
Motion picture, sound rec	\$1,506,028	\$1,592,191	\$1,677,842	\$1,762,789	\$1,855,780	\$1,948,153	\$2,040,973
Internet serv, data proc, other	\$17,606,362	\$18,395,014	\$19,181,621	\$19,965,821	\$20,746,781	\$21,526,243	\$22,303,383
Broadcasting, exc Int; Telecomm	\$180,967,307	\$188,915,585	\$196,844,944	\$204,789,802	\$212,707,215	\$220,615,929	\$228,517,754
Monetary authorities, et al.	\$92,550,959	\$96,571,392	\$100,563,128	\$104,558,923	\$108,556,211	\$112,565,664	\$116,536,689
Sec, comm contracts, inv	\$9,285,249	\$9,685,657	\$10,084,813	\$10,482,629	\$10,878,767	\$11,274,229	\$11,668,090
Ins carriers, rel act	\$31,297,079	\$32,729,134	\$34,161,962	\$35,594,943	\$37,019,695	\$38,438,991	\$39,833,643
Real estate	\$772,413,218	\$803,501,458	\$834,483,324	\$865,549,627	\$896,696,930	\$927,966,900	\$958,876,446
Rental, leasing services	\$315,344,105	\$329,858,201	\$344,441,119	\$359,023,082	\$373,655,591	\$388,337,689	\$403,066,150
Prof, tech services	\$66,443,683	\$69,432,383	\$72,397,307	\$75,347,378	\$78,273,434	\$81,181,556	\$84,091,827
Mgmnt of companies, enterprises	\$34,631,238	\$36,262,588	\$37,901,084	\$39,528,842	\$41,169,567	\$42,800,469	\$44,438,214
Administrative, support services	\$45,868,705	\$47,915,432	\$49,963,338	\$52,011,909	\$54,053,992	\$56,094,176	\$58,123,072
Waste mgmnt, remed services	\$4,457,006	\$4,651,501	\$4,841,914	\$5,027,987	\$5,225,234	\$5,410,566	\$5,603,163
Educational services	\$4,087,299	\$4,260,940	\$4,433,944	\$4,602,917	\$4,777,835	\$4,949,041	\$5,119,472
Ambulatory health care services	\$50,516,409	\$52,798,345	\$55,093,273	\$57,386,827	\$59,657,306	\$61,894,098	\$64,019,483
Hospitals	\$30,696,410	\$32,071,205	\$33,449,525	\$34,826,022	\$36,188,904	\$37,530,210	\$38,807,924
Nursing, residential care facilities	\$5,819,377	\$6,076,518	\$6,335,119	\$6,591,817	\$6,849,739	\$7,099,072	\$7,343,854
Social assistance	\$5,448,375	\$5,675,355	\$5,900,779	\$6,124,612	\$6,346,669	\$6,571,652	\$6,795,536
Performing arts, spectator sports	\$1,251,977	\$1,305,202	\$1,357,220	\$1,407,966	\$1,463,660	\$1,518,286	\$1,566,239
Museums et al.	\$281,363	\$293,300	\$304,964	\$321,892	\$333,058	\$343,932	\$354,721
Amusement, gambling, recreation	\$11,258,616	\$11,731,013	\$12,192,298	\$12,650,577	\$13,114,336	\$13,576,318	\$14,035,944
Accommodation	\$4,348,169	\$4,525,752	\$4,704,769	\$4,885,371	\$5,061,415	\$5,239,467	\$5,416,603
Food services, drinking places	\$29,745,420	\$30,656,473	\$31,548,719	\$32,423,819	\$33,295,460	\$34,149,438	\$34,968,312
Repair, maintenance	\$19,669,996	\$20,492,367	\$21,312,328	\$22,129,905	\$22,944,573	\$23,767,634	\$24,586,999
Personal, laundry services	\$15,525,793	\$16,173,323	\$16,805,363	\$17,439,579	\$18,066,504	\$18,706,792	\$19,334,298

Membership assoc, organ	\$8,949,890	\$9,322,902	\$9,694,896	\$10,061,861	\$10,435,682	\$10,805,295	\$11,168,861
Private households	\$418,964	\$433,670	\$447,841	\$464,006	\$479,702	\$494,964	\$510,092

Industry Sector	2036	2037	2038	2039	2040	2041	2042
Forestry et al.	\$4,741,800	\$4,881,149	\$5,047,531	\$5,212,687	\$5,347,003	\$5,503,518	\$5,657,975
Agriculture	\$217,042	\$223,319	\$229,510	\$237,564	\$243,598	\$249,293	\$256,868
Oil, gas extraction	\$324,650,532	\$336,850,232	\$349,534,185	\$362,714,558	\$376,434,496	\$390,600,177	\$405,374,564
Mining (except oil, gas)	\$6,662,482	\$6,891,307	\$7,127,964	\$7,353,145	\$7,585,987	\$7,809,023	\$8,039,151
Support activities for mining	\$28,670,488	\$29,564,159	\$30,460,319	\$31,359,376	\$32,260,486	\$33,156,511	\$34,058,646
Utilities	\$125,970,451	\$129,933,276	\$133,870,006	\$137,797,962	\$141,696,027	\$145,556,316	\$149,375,456
Construction	\$50,426,061	\$51,928,230	\$53,436,662	\$54,964,985	\$56,512,279	\$58,080,017	\$59,663,746
Wood product mfg	\$18,046,243	\$18,708,845	\$19,380,184	\$20,047,468	\$20,709,736	\$21,385,238	\$22,053,661
Nonmetallic mineral prod mfg	\$22,957,388	\$23,829,855	\$24,715,894	\$25,606,554	\$26,491,517	\$27,390,067	\$28,280,005
Primary metal mfg	\$32,136,244	\$33,460,141	\$34,794,859	\$36,140,212	\$37,510,039	\$38,912,621	\$40,320,327
Fabricated metal prod mfg	\$66,151,464	\$68,640,676	\$71,155,765	\$73,677,037	\$76,211,502	\$78,752,482	\$81,309,138
Machinery mfg	\$121,080,733	\$125,640,023	\$130,241,833	\$134,886,682	\$139,581,237	\$144,322,241	\$149,099,629
Computer, electronic prod mfg	\$573,921,788	\$596,885,856	\$620,059,864	\$643,493,561	\$667,110,797	\$690,998,819	\$715,049,347
Electrical equip, appliance mfg	\$20,323,298	\$21,250,007	\$22,175,845	\$23,129,230	\$24,094,867	\$25,077,190	\$26,053,800
Motor vehicle mfg	\$165,059,499	\$171,266,562	\$177,533,428	\$183,879,953	\$190,300,108	\$196,774,261	\$203,303,815
Transp equip mfg. exc. motor veh	\$24,534,732	\$25,379,158	\$26,216,800	\$27,059,092	\$27,893,526	\$28,715,045	\$29,537,714
Furniture, related prod mfg	\$9,818,198	\$10,299,458	\$10,789,901	\$11,289,432	\$11,797,506	\$12,310,939	\$12,831,183
Miscellaneous mfg	\$25,264,447	\$26,253,490	\$27,251,969	\$28,245,847	\$29,233,653	\$30,227,982	\$31,227,219
Food mfg	\$132,771,413	\$135,857,142	\$138,856,112	\$141,751,040	\$144,537,841	\$147,208,912	\$149,784,687
Beverage, tobacco prod mfg	\$23,068,337	\$23,588,430	\$24,076,305	\$24,572,461	\$25,056,487	\$25,503,547	\$25,958,053
Textile mills	\$340,525	\$360,782	\$381,122	\$384,797	\$405,085	\$424,975	\$444,812
Textile prod mills	\$6,839,389	\$7,113,243	\$7,408,057	\$7,724,353	\$8,017,359	\$8,323,372	\$8,627,217
Apparel mfg	\$4,826,395	\$5,032,251	\$5,259,427	\$5,508,445	\$5,779,533	\$6,067,044	\$6,376,381
Leather, allied prod mfg	\$761,877	\$803,064	\$844,353	\$896,780	\$949,402	\$1,001,174	\$1,064,211
Paper mfg	\$27,829,253	\$28,802,424	\$29,797,767	\$30,771,215	\$31,751,066	\$32,735,426	\$33,708,274
Printing, rel supp act	\$6,659,032	\$6,895,617	\$7,121,945	\$7,355,025	\$7,586,045	\$7,816,022	\$8,043,182

Petroleum, coal prod mfg	\$365,801,208	\$378,221,834	\$390,599,713	\$402,997,695	\$415,339,036	\$427,645,385	\$439,921,742
Chemical mfg	\$32,210,089	\$33,355,404	\$34,492,579	\$35,655,991	\$36,792,582	\$37,952,079	\$39,116,176
Plastics, rubber prod mfg	\$159,455,108	\$165,527,378	\$171,605,742	\$177,708,425	\$183,808,803	\$189,912,712	\$196,014,000
Wholesale trade	\$255,469,923	\$264,863,010	\$274,302,054	\$283,787,501	\$293,320,423	\$302,897,824	\$312,494,457
Retail trade	\$258,521,515	\$268,559,296	\$278,696,582	\$288,952,477	\$299,354,027	\$309,878,767	\$320,529,363
Air transportation	\$91,188,819	\$94,276,427	\$97,352,691	\$100,387,528	\$103,376,329	\$106,335,801	\$109,254,638
Rail transportation	\$6,873,285	\$7,108,077	\$7,350,258	\$7,581,233	\$7,819,415	\$8,057,028	\$8,291,745
Water transportation	\$28,775	\$29,101	\$29,405	\$29,688	\$29,951	\$30,165	\$30,359
Truck transp; Couriers, msngrs	\$69,855,025	\$72,349,636	\$74,837,063	\$77,327,400	\$79,807,266	\$82,289,554	\$84,753,586
Transit, ground pass transp	\$710,396	\$732,260	\$760,853	\$782,285	\$803,435	\$823,491	\$843,193
Pipeline transportation	\$21,663,895	\$22,392,840	\$23,098,598	\$23,814,628	\$24,523,273	\$25,234,079	\$25,935,357
Scenic, sightseeing transp; supp	\$6,704,308	\$6,934,755	\$7,163,343	\$7,390,037	\$7,614,523	\$7,841,337	\$8,059,073
Warehousing, storage	\$2,357,108	\$2,444,217	\$2,526,104	\$2,612,091	\$2,702,188	\$2,784,090	\$2,869,837
Publishing, exc Internet	\$45,401,642	\$47,104,621	\$48,825,911	\$50,565,792	\$52,322,525	\$54,100,010	\$55,889,358
Motion picture, sound rec	\$2,131,622	\$2,221,955	\$2,321,607	\$2,421,161	\$2,520,462	\$2,616,858	\$2,712,574
Internet serv, data proc, other	\$23,078,977	\$23,860,695	\$24,635,768	\$25,404,105	\$26,179,523	\$26,935,630	\$27,711,687
Broadcasting, exc Int; Telecomm	\$236,363,385	\$244,160,935	\$251,926,019	\$259,618,976	\$267,290,365	\$274,874,085	\$282,413,733
Monetary authorities, et al.	\$120,483,081	\$124,408,413	\$128,320,917	\$132,208,502	\$136,066,256	\$139,910,506	\$143,726,551
Sec, comm contracts, inv	\$12,053,905	\$12,443,060	\$12,820,111	\$13,193,126	\$13,569,996	\$13,937,136	\$14,298,668
Ins carriers, rel act	\$41,210,650	\$42,565,320	\$43,885,201	\$45,177,008	\$46,438,589	\$47,667,686	\$48,869,649
Real estate	\$989,449,681	\$1,019,861,586	\$1,049,989,294	\$1,079,837,425	\$1,109,368,792	\$1,138,604,085	\$1,167,506,268
Rental, leasing services	\$417,796,778	\$432,535,513	\$447,274,159	\$462,012,966	\$476,734,205	\$491,468,112	\$506,177,169
Prof, tech services	\$87,007,954	\$89,922,831	\$92,836,502	\$95,761,783	\$98,689,446	\$101,626,263	\$104,570,025
Mgmnt of companies, enterprises	\$46,082,234	\$47,721,127	\$49,357,709	\$51,001,319	\$52,631,162	\$54,269,748	\$55,889,340
Administrative, support services	\$60,140,491	\$62,147,404	\$64,136,369	\$66,112,971	\$68,074,669	\$70,022,337	\$71,955,001
Waste mgmnt, remed services	\$5,796,389	\$5,979,124	\$6,168,355	\$6,355,802	\$6,541,211	\$6,726,586	\$6,918,089
Educational services	\$5,289,922	\$5,454,674	\$5,621,253	\$5,786,088	\$5,948,960	\$6,111,319	\$6,275,008
Ambulatory health care services	\$66,090,850	\$68,088,906	\$69,975,306	\$71,763,375	\$73,454,090	\$75,061,945	\$76,581,370
Hospitals	\$40,052,932	\$41,248,126	\$42,378,464	\$43,448,290	\$44,460,676	\$45,427,014	\$46,337,560
Nursing, residential care facilities	\$7,582,013	\$7,813,403	\$8,034,726	\$8,245,796	\$8,449,880	\$8,645,924	\$8,834,263

Social assistance	\$7,014,099	\$7,233,979	\$7,451,469	\$7,666,579	\$7,879,026	\$8,089,638	\$8,301,400
Performing arts, spectator sports	\$1,618,477	\$1,670,080	\$1,727,872	\$1,778,473	\$1,828,470	\$1,876,004	\$1,929,700
Museums et al.	\$364,988	\$375,076	\$391,028	\$400,872	\$410,551	\$425,823	\$434,769
Amusement, gambling, recreation	\$14,485,008	\$14,927,946	\$15,375,109	\$15,817,330	\$16,263,593	\$16,697,618	\$17,134,542
Accommodation	\$5,586,109	\$5,759,652	\$5,931,258	\$6,094,323	\$6,261,799	\$6,420,784	\$6,577,047
Food services, drinking places	\$35,769,456	\$36,548,144	\$37,314,347	\$38,048,258	\$38,769,737	\$39,468,773	\$40,147,294
Repair, maintenance	\$25,399,926	\$26,202,718	\$27,015,920	\$27,811,438	\$28,616,854	\$29,413,229	\$30,217,601
Personal, laundry services	\$19,953,976	\$20,565,240	\$21,179,390	\$21,786,695	\$22,396,523	\$22,996,633	\$23,597,716
Membership assoc, organ	\$11,533,781	\$11,893,998	\$12,250,258	\$12,602,580	\$12,950,499	\$13,298,842	\$13,646,325
Private households	\$524,460	\$538,561	\$552,434	\$568,861	\$582,299	\$594,913	\$610,084

Industry Sector	2043	2044	2045	2046	2047	2048
Forestry et al.	\$5,834,996	\$5,978,596	\$6,120,209	\$6,282,142	\$6,442,284	\$6,595,535
Agriculture	\$262,114	\$267,184	\$274,171	\$278,700	\$285,162	\$291,319
Oil, gas extraction	\$420,642,946	\$436,457,513	\$452,961,402	\$469,947,213	\$487,683,933	\$506,188,625
Mining (except oil, gas)	\$8,268,991	\$8,483,770	\$8,705,934	\$8,924,292	\$9,140,070	\$9,366,367
Support activities for mining	\$34,961,058	\$35,861,142	\$36,762,517	\$37,656,579	\$38,559,111	\$39,472,164
Utilities	\$153,186,044	\$156,934,962	\$160,648,829	\$164,311,000	\$167,924,518	\$171,513,480
Construction	\$61,260,450	\$62,910,815	\$64,600,311	\$66,344,131	\$68,115,189	\$69,859,556
Wood product mfg	\$22,720,834	\$23,388,052	\$24,061,733	\$24,724,113	\$25,393,015	\$26,061,794
Nonmetallic mineral prod mfg	\$29,181,697	\$30,076,120	\$30,971,353	\$31,865,169	\$32,759,681	\$33,667,011
Primary metal mfg	\$41,741,947	\$43,188,136	\$44,638,893	\$46,099,131	\$47,594,781	\$49,119,533
Fabricated metal prod mfg	\$83,866,890	\$86,427,939	\$89,005,442	\$91,566,781	\$94,144,337	\$96,757,025
Machinery mfg	\$153,925,579	\$158,769,757	\$163,663,434	\$168,559,069	\$173,526,959	\$178,594,851
Computer, electronic prod mfg	\$739,315,930	\$763,641,957	\$788,179,501	\$812,793,397	\$837,661,759	\$862,906,124
Electrical equip, appliance mfg	\$27,059,122	\$28,065,378	\$29,094,834	\$30,124,319	\$31,161,093	\$32,225,244
Motor vehicle mfg	\$209,913,175	\$216,540,891	\$223,245,599	\$229,934,267	\$236,718,340	\$243,647,019
Transp equip mfg. exc. motor veh	\$30,345,904	\$31,135,529	\$31,927,084	\$32,691,341	\$33,458,038	\$34,224,854
Furniture, related prod mfg	\$13,364,366	\$13,900,220	\$14,442,281	\$14,990,092	\$15,543,485	\$16,108,552
Miscellaneous mfg	\$32,216,392	\$33,201,524	\$34,191,590	\$35,171,247	\$36,170,321	\$37,160,086

Food mfg	\$152,247,248	\$154,582,710	\$156,816,611	\$158,909,436	\$160,890,708	\$162,816,116
Beverage, tobacco prod mfg	\$26,417,661	\$26,837,990	\$27,268,728	\$27,675,434	\$28,073,272	\$28,461,657
Textile mills	\$464,158	\$466,021	\$484,980	\$503,197	\$521,287	\$538,829
Textile prod mills	\$8,943,485	\$9,254,976	\$9,587,108	\$9,904,345	\$10,218,958	\$10,545,871
Apparel mfg	\$6,701,594	\$7,046,740	\$7,413,682	\$7,792,542	\$8,215,522	\$8,652,981
Leather, allied prod mfg	\$1,126,247	\$1,199,300	\$1,283,750	\$1,366,418	\$1,460,348	\$1,552,815
Paper mfg	\$34,683,854	\$35,654,063	\$36,628,719	\$37,591,313	\$38,543,176	\$39,515,779
Printing, rel supp act	\$8,277,749	\$8,507,377	\$8,734,367	\$8,965,334	\$9,193,747	\$9,421,313
Petroleum, coal prod mfg	\$452,207,372	\$464,283,019	\$476,340,792	\$488,218,736	\$500,085,241	\$512,000,608
Chemical mfg	\$40,266,056	\$41,427,703	\$42,594,753	\$43,765,792	\$44,924,500	\$46,107,148
Plastics, rubber prod mfg	\$202,124,925	\$208,197,769	\$214,249,182	\$220,278,593	\$226,306,108	\$232,371,067
Wholesale trade	\$322,128,496	\$331,779,550	\$341,453,843	\$351,143,096	\$360,855,589	\$370,595,646
Retail trade	\$331,299,820	\$342,296,842	\$353,393,289	\$364,724,369	\$376,092,754	\$387,380,654
Air transportation	\$112,139,123	\$114,938,536	\$117,684,417	\$120,365,510	\$122,995,296	\$125,586,761
Rail transportation	\$8,525,449	\$8,753,996	\$8,979,770	\$9,200,908	\$9,419,372	\$9,647,301
Water transportation	\$30,506	\$30,628	\$30,736	\$30,791	\$30,834	\$30,844
Truck transp; Couriers, msngrs	\$87,204,737	\$89,635,691	\$92,060,359	\$94,455,939	\$96,835,226	\$99,229,072
Transit, ground pass transp	\$861,760	\$887,032	\$904,743	\$928,286	\$944,242	\$966,498
Pipeline transportation	\$26,620,306	\$27,306,305	\$27,983,452	\$28,650,855	\$29,309,868	\$29,955,076
Scenic, sightseeing transp; supp	\$8,272,530	\$8,487,119	\$8,692,692	\$8,896,827	\$9,092,049	\$9,290,089
Warehousing, storage	\$2,956,805	\$3,042,038	\$3,126,351	\$3,210,596	\$3,293,931	\$3,378,669
Publishing, exc Internet	\$57,695,928	\$59,527,785	\$61,386,681	\$63,251,152	\$65,142,288	\$67,052,101
Motion picture, sound rec	\$2,814,918	\$2,915,783	\$3,015,911	\$3,121,335	\$3,225,950	\$3,327,155
Internet serv, data proc, other	\$28,482,221	\$29,235,436	\$30,009,846	\$30,766,805	\$31,514,883	\$32,275,138
Broadcasting, exc Int; Telecomm	\$289,874,267	\$297,238,376	\$304,505,360	\$311,679,239	\$318,761,560	\$325,815,696
Monetary authorities, et al.	\$147,523,834	\$151,308,185	\$155,043,365	\$158,765,702	\$162,441,619	\$166,035,344
Sec, comm contracts, inv	\$14,658,362	\$15,008,815	\$15,362,808	\$15,700,610	\$16,042,357	\$16,366,844
Ins carriers, rel act	\$50,044,701	\$51,180,076	\$52,290,040	\$53,361,240	\$54,416,261	\$55,435,692
Real estate	\$1,196,012,564	\$1,224,713,381	\$1,252,864,584	\$1,281,253,570	\$1,308,850,193	\$1,335,313,084
Rental, leasing services	\$520,835,183	\$535,368,924	\$549,925,358	\$564,281,706	\$578,627,598	\$593,071,477

Prof, tech services	\$107,518,701	\$110,472,592	\$113,430,469	\$116,393,111	\$119,367,469	\$122,355,602
Mgmnt of companies, enterprises	\$57,514,710	\$59,134,868	\$60,746,622	\$62,349,278	\$63,943,937	\$65,538,678
Administrative, support services	\$73,870,595	\$75,770,222	\$77,651,217	\$79,514,709	\$81,366,904	\$83,197,524
Waste mgmnt, remed services	\$7,100,624	\$7,278,757	\$7,463,327	\$7,644,756	\$7,823,958	\$7,994,763
Educational services	\$6,434,239	\$6,593,231	\$6,746,217	\$6,903,592	\$7,055,105	\$7,202,859
Ambulatory health care services	\$78,037,504	\$79,435,004	\$80,732,224	\$82,014,761	\$83,238,844	\$84,383,226
Hospitals	\$47,206,864	\$48,043,844	\$48,821,851	\$49,588,895	\$50,322,713	\$51,007,623
Nursing, residential care facilities	\$9,018,142	\$9,192,175	\$9,362,799	\$9,529,607	\$9,689,592	\$9,842,928
Social assistance	\$8,506,658	\$8,715,480	\$8,921,401	\$9,126,420	\$9,328,742	\$9,525,544
Performing arts, spectator sports	\$1,980,896	\$2,030,868	\$2,080,173	\$2,133,165	\$2,178,493	\$2,228,528
Museums et al.	\$443,116	\$457,427	\$471,612	\$478,752	\$492,049	\$504,820
Amusement, gambling, recreation	\$17,568,320	\$18,000,830	\$18,427,356	\$18,853,633	\$19,264,497	\$19,674,339
Accommodation	\$6,731,292	\$6,881,197	\$7,035,548	\$7,178,494	\$7,319,260	\$7,458,999
Food services, drinking places	\$40,811,594	\$41,468,616	\$42,102,120	\$42,737,686	\$43,337,994	\$43,891,115
Repair, maintenance	\$31,002,074	\$31,796,783	\$32,571,263	\$33,342,803	\$34,104,562	\$34,869,389
Personal, laundry services	\$24,198,685	\$24,794,858	\$25,393,225	\$25,982,001	\$26,573,580	\$27,136,611
Membership assoc, organ	\$13,984,857	\$14,328,208	\$14,662,215	\$15,000,017	\$15,324,209	\$15,645,681
Private households	\$624,444	\$638,403	\$652,138	\$664,814	\$677,285	\$689,025

Table 7-17: Inputs, Productivity, Bachelor's Degree, Industry Sales/Exog Production without Employment, Investment, and Comp (Fixed 2006\$)

Industry Sector	2008	2009	2010	2011	2012	2013	2014
Forestry et al.	\$861,487	\$1,701,743	\$2,515,170	\$3,301,715	\$4,074,174	\$4,825,146	\$5,546,226
Agriculture	\$42,404	\$82,335	\$120,778	\$157,345	\$192,739	\$226,597	\$258,582
Oil, gas extraction	\$69,753,237	\$129,512,372	\$190,723,929	\$249,647,534	\$306,956,521	\$362,242,675	\$415,401,105
Mining (except oil, gas)	\$1,301,898	\$2,717,177	\$3,849,565	\$4,846,749	\$5,719,912	\$6,488,674	\$7,141,577
Support activities for mining	\$6,537,838	\$12,924,398	\$18,594,438	\$23,783,825	\$28,590,466	\$32,983,597	\$36,987,051
Utilities	\$25,259,079	\$48,990,936	\$71,511,316	\$92,798,061	\$113,023,523	\$132,179,768	\$150,307,288
Construction	\$10,770,352	\$21,469,231	\$31,489,198	\$41,164,074	\$50,650,876	\$59,869,311	\$68,779,615
Wood product mfg	\$2,848,699	\$5,739,170	\$8,489,220	\$11,165,293	\$13,753,692	\$16,256,877	\$18,671,301
Nonmetallic mineral prod mfg	\$3,555,078	\$6,986,693	\$10,377,544	\$13,657,825	\$16,824,579	\$19,836,004	\$22,700,012
Primary metal mfg	\$4,428,953	\$8,520,606	\$12,552,191	\$16,368,445	\$19,861,470	\$23,055,111	\$25,879,070
Fabricated metal prod mfg	\$9,611,277	\$19,061,231	\$28,220,089	\$37,084,868	\$45,640,559	\$53,778,414	\$61,554,921
Machinery mfg	\$17,207,877	\$33,465,267	\$48,818,999	\$62,866,359	\$75,285,982	\$85,713,312	\$94,166,258
Computer, electronic prod mfg	\$23,205,020	\$58,862,591	\$106,154,714	\$167,143,237	\$242,537,671	\$333,605,101	\$442,759,113
Electrical equip, appliance mfg	\$2,157,244	\$4,423,893	\$6,668,265	\$8,866,690	\$10,967,631	\$12,932,567	\$14,721,062
Motor vehicle mfg	\$20,593,002	\$40,860,663	\$62,031,118	\$83,383,096	\$104,904,287	\$126,196,231	\$147,697,984
Transp equip mfg. exc. motor veh	\$2,903,225	\$5,944,198	\$9,318,854	\$12,935,730	\$16,841,083	\$21,026,873	\$25,467,681
Furniture, related prod mfg	\$994,124	\$2,031,153	\$3,017,700	\$3,942,309	\$4,793,483	\$5,509,686	\$6,125,049
Miscellaneous mfg	\$2,842,506	\$5,746,269	\$8,893,716	\$12,175,870	\$15,602,087	\$19,118,951	\$22,748,259
Food mfg	\$28,063,718	\$55,635,407	\$82,983,405	\$109,908,834	\$136,766,982	\$163,282,235	\$189,375,738
Beverage, tobacco prod mfg	\$5,671,086	\$11,085,213	\$16,194,467	\$21,067,183	\$25,733,815	\$30,195,374	\$34,454,426
Textile mills	\$63,539	\$126,366	\$176,860	\$235,325	\$272,943	\$301,882	\$350,791
Textile prod mills	\$787,097	\$1,647,938	\$2,514,319	\$3,401,425	\$4,294,060	\$5,166,476	\$6,067,640
Apparel mfg	\$990,096	\$2,005,114	\$3,006,498	\$3,992,068	\$4,970,563	\$5,929,217	\$6,852,854
Leather, allied prod mfg	\$153,905	\$301,245	\$454,048	\$608,103	\$765,105	\$924,101	\$1,083,307
Paper mfg	\$4,915,153	\$9,602,116	\$13,999,602	\$18,138,529	\$22,053,305	\$25,692,432	\$29,111,267
Printing, rel supp act	\$1,131,277	\$2,227,687	\$3,278,290	\$4,293,947	\$5,253,651	\$6,168,758	\$7,045,529
Petroleum, coal prod mfg	\$61,861,667	\$122,273,330	\$182,072,655	\$240,869,862	\$298,994,382	\$356,204,374	\$412,457,153
Chemical mfg	\$5,243,381	\$10,406,354	\$15,516,795	\$20,560,870	\$25,522,443	\$30,350,699	\$35,112,361

Plastics, rubber prod mfg	\$18,606,657	\$38,631,600	\$59,407,903	\$81,047,277	\$103,425,808	\$126,622,351	\$150,446,020
Wholesale trade	\$25,352,617	\$54,415,676	\$86,472,659	\$121,781,443	\$160,479,136	\$202,510,179	\$248,183,072
Retail trade	\$30,140,339	\$63,250,432	\$98,124,221	\$135,217,385	\$174,673,314	\$216,346,630	\$260,464,345
Air transportation	\$10,365,184	\$21,619,910	\$34,098,706	\$47,728,692	\$62,623,605	\$78,768,540	\$96,331,851
Rail transportation	\$881,190	\$1,827,587	\$2,813,401	\$3,851,525	\$4,938,946	\$6,072,330	\$7,240,343
Water transportation	\$4,401	\$8,495	\$12,388	\$16,047	\$19,546	\$22,852	\$25,937
Truck transp; Couriers, msngrs	\$9,460,823	\$19,315,592	\$29,356,870	\$39,606,095	\$50,095,165	\$60,733,845	\$71,532,338
Transit, ground pass transp	\$126,844	\$247,610	\$371,189	\$486,246	\$598,909	\$718,978	\$825,048
Pipeline transportation	\$4,686,364	\$8,908,373	\$12,742,424	\$16,180,390	\$19,301,437	\$22,105,099	\$24,580,108
Scenic, sightseeing transp; supp	\$782,820	\$1,629,287	\$2,545,457	\$3,531,413	\$4,589,143	\$5,723,242	\$6,938,198
Warehousing, storage	\$295,856	\$606,227	\$928,616	\$1,261,918	\$1,610,099	\$1,969,438	\$2,344,151
Publishing, exc Internet	\$4,365,020	\$9,214,222	\$14,526,515	\$20,307,705	\$26,547,278	\$33,199,563	\$40,357,378
Motion picture, sound rec	\$217,871	\$450,604	\$685,928	\$926,404	\$1,175,012	\$1,429,019	\$1,685,437
Internet serv, data proc, other	\$2,334,303	\$5,049,958	\$8,197,142	\$11,768,099	\$15,788,975	\$20,271,177	\$25,246,851
Broadcasting, exc Int; Telecomm	\$31,019,608	\$64,014,513	\$99,155,344	\$136,265,065	\$175,597,486	\$216,883,394	\$260,343,095
Monetary authorities, et al.	\$17,546,374	\$35,533,832	\$54,223,023	\$73,524,333	\$93,554,154	\$114,190,344	\$135,510,096
Sec, comm contracts, inv	\$1,562,387	\$3,280,884	\$5,180,343	\$7,230,107	\$9,446,537	\$11,801,639	\$14,307,690
Ins carriers, rel act	\$6,827,010	\$13,385,599	\$19,841,773	\$26,148,336	\$32,343,037	\$38,393,258	\$44,300,651
Real estate	\$176,575,427	\$349,747,311	\$520,331,577	\$688,331,991	\$854,817,060	\$1,018,897,474	\$1,180,638,699
Rental, leasing services	\$46,034,595	\$97,154,152	\$155,007,027	\$218,709,676	\$288,397,767	\$363,764,297	\$445,272,150
Prof, tech services	\$12,344,408	\$24,916,957	\$37,912,914	\$51,213,791	\$64,866,927	\$78,762,438	\$92,918,577
Mgmnt of companies, enterprises	\$5,351,200	\$11,179,690	\$17,446,727	\$24,162,435	\$31,353,691	\$38,986,787	\$47,107,127
Administrative, support services	\$8,631,654	\$17,452,320	\$26,546,385	\$35,872,561	\$45,495,888	\$55,342,992	\$65,451,414
Waste mgmnt, remed services	\$1,063,441	\$2,066,056	\$3,040,033	\$3,974,279	\$4,874,034	\$5,751,370	\$6,603,594
Educational services	\$970,854	\$1,889,021	\$2,777,842	\$3,638,345	\$4,470,699	\$5,273,223	\$6,056,929
Ambulatory health care services	\$10,243,312	\$20,238,139	\$30,390,462	\$40,562,854	\$50,808,197	\$61,078,356	\$71,440,163
Hospitals	\$5,946,092	\$11,866,971	\$17,996,235	\$24,240,942	\$30,629,144	\$37,127,078	\$43,763,992
Nursing, residential care facilities	\$1,399,423	\$2,696,137	\$3,943,955	\$5,132,531	\$6,272,349	\$7,353,282	\$8,377,483
Social assistance	\$1,274,291	\$2,491,984	\$3,684,447	\$4,843,124	\$5,977,802	\$7,080,465	\$8,161,795
Performing arts, spectator sports	\$263,500	\$526,427	\$788,312	\$1,048,085	\$1,309,612	\$1,570,027	\$1,826,540

Museums et al.	\$61,763	\$123,056	\$185,062	\$240,541	\$301,912	\$363,471	\$424,506
Amusement, gambling, recreation	\$2,287,868	\$4,597,962	\$6,964,866	\$9,372,532	\$11,859,741	\$14,375,430	\$16,966,787
Accommodation	\$944,909	\$1,884,776	\$2,820,981	\$3,755,964	\$4,690,333	\$5,629,399	\$6,555,585
Food services, drinking places	\$8,582,263	\$16,784,553	\$24,614,571	\$32,103,422	\$39,342,501	\$46,282,668	\$52,923,299
Repair, maintenance	\$4,606,710	\$9,058,479	\$13,420,554	\$17,672,518	\$21,837,700	\$25,884,277	\$29,831,034
Personal, laundry services	\$3,043,759	\$6,139,587	\$9,364,142	\$12,693,625	\$16,160,350	\$19,718,463	\$23,400,394
Membership assoc, organ	\$1,951,011	\$3,863,686	\$5,772,638	\$7,671,335	\$9,579,274	\$11,474,794	\$13,365,017
Private households	\$122,671	\$235,942	\$342,914	\$439,554	\$533,588	\$617,273	\$693,347

Industry Sector	2015	2016	2017	2018	2019	2020	2021
Forestry et al.	\$6,272,167	\$7,040,708	\$7,735,796	\$8,432,000	\$9,190,217	\$9,873,896	\$10,630,774
Agriculture	\$294,715	\$326,251	\$361,198	\$391,810	\$426,612	\$461,631	\$490,825
Oil, gas extraction	\$465,728,708	\$514,263,535	\$561,413,773	\$607,728,448	\$653,047,426	\$697,846,063	\$742,070,925
Mining (except oil, gas)	\$8,158,491	\$9,186,751	\$10,188,380	\$11,205,008	\$12,215,821	\$13,234,626	\$14,249,810
Support activities for mining	\$41,764,820	\$46,416,247	\$50,948,253	\$55,388,531	\$59,735,049	\$63,995,459	\$68,164,533
Utilities	\$170,739,727	\$190,935,622	\$210,869,862	\$230,538,974	\$249,958,619	\$269,155,868	\$288,110,695
Construction	\$77,252,930	\$85,591,635	\$93,768,644	\$101,749,279	\$109,519,813	\$117,080,424	\$124,429,668
Wood product mfg	\$21,364,570	\$24,067,256	\$26,760,435	\$29,470,939	\$32,205,094	\$34,933,084	\$37,655,818
Nonmetallic mineral prod mfg	\$26,046,564	\$29,384,507	\$32,780,836	\$36,185,051	\$39,611,276	\$43,056,424	\$46,530,890
Primary metal mfg	\$30,193,804	\$34,624,071	\$39,208,417	\$43,927,517	\$48,765,628	\$53,776,912	\$58,870,083
Fabricated metal prod mfg	\$71,042,791	\$80,669,221	\$90,457,902	\$100,372,748	\$110,452,363	\$120,664,978	\$131,005,075
Machinery mfg	\$110,705,941	\$127,921,905	\$145,783,923	\$164,302,796	\$183,416,684	\$203,073,498	\$223,219,976
Computer, electronic prod mfg	\$519,946,542	\$600,150,274	\$683,238,296	\$769,333,507	\$858,086,918	\$949,312,460	\$1,042,730,762
Electrical equip, appliance mfg	\$17,304,604	\$19,990,182	\$22,780,488	\$25,655,220	\$28,630,451	\$31,739,192	\$34,913,009
Motor vehicle mfg	\$171,126,078	\$195,048,410	\$219,519,550	\$244,440,027	\$269,913,066	\$295,792,327	\$322,101,039
Transp equip mfg. exc. motor veh	\$29,179,320	\$32,873,314	\$36,607,696	\$40,332,152	\$44,105,012	\$47,858,228	\$51,639,490
Furniture, related prod mfg	\$7,290,290	\$8,521,046	\$9,818,367	\$11,160,226	\$12,588,923	\$14,048,838	\$15,598,939
Miscellaneous mfg	\$26,298,911	\$29,907,389	\$33,581,291	\$37,294,119	\$41,069,981	\$44,919,299	\$48,799,711
Food mfg	\$213,099,782	\$236,053,335	\$258,317,130	\$279,903,888	\$300,916,421	\$321,275,503	\$341,117,605
Beverage, tobacco prod mfg	\$38,774,343	\$42,896,862	\$46,877,261	\$50,678,556	\$54,342,856	\$57,884,021	\$61,307,947

Textile mills	\$389,558	\$425,783	\$498,065	\$533,688	\$610,892	\$645,665	\$678,607
Textile prod mills	\$6,997,352	\$7,931,309	\$8,920,909	\$9,941,320	\$10,914,965	\$11,965,811	\$12,963,268
Apparel mfg	\$7,652,936	\$8,411,325	\$9,183,301	\$9,840,120	\$10,516,516	\$11,115,141	\$11,746,070
Leather, allied prod mfg	\$1,203,026	\$1,314,897	\$1,419,801	\$1,521,349	\$1,617,040	\$1,709,086	\$1,796,283
Paper mfg	\$33,312,468	\$37,517,424	\$41,740,250	\$45,970,058	\$50,184,193	\$54,438,767	\$58,685,520
Printing, rel supp act	\$8,059,211	\$9,083,920	\$10,105,872	\$11,125,934	\$12,141,694	\$13,166,767	\$14,189,510
Petroleum, coal prod mfg	\$469,811,531	\$526,632,728	\$582,971,411	\$639,094,599	\$694,627,392	\$749,857,454	\$804,787,039
Chemical mfg	\$40,033,874	\$44,894,657	\$49,784,409	\$54,619,316	\$59,454,248	\$64,269,921	\$69,103,538
Plastics, rubber prod mfg	\$173,359,291	\$196,514,607	\$219,963,833	\$243,741,075	\$267,772,780	\$292,052,475	\$316,618,116
Wholesale trade	\$285,757,864	\$323,743,809	\$362,136,241	\$400,927,087	\$440,058,393	\$479,523,477	\$519,275,397
Retail trade	\$298,583,081	\$336,984,195	\$375,523,004	\$414,162,745	\$452,880,466	\$491,766,404	\$530,766,409
Air transportation	\$110,313,490	\$124,313,603	\$138,340,891	\$152,379,850	\$166,408,708	\$180,453,731	\$194,466,397
Rail transportation	\$8,278,054	\$9,327,468	\$10,373,552	\$11,415,920	\$12,477,843	\$13,525,601	\$14,570,384
Water transportation	\$28,803	\$31,482	\$33,993	\$36,425	\$38,716	\$40,919	\$43,007
Truck transp; Couriers, msngrs	\$82,006,551	\$92,506,153	\$103,060,351	\$113,654,909	\$124,310,669	\$134,979,322	\$145,701,774
Transit, ground pass transp	\$943,577	\$1,061,215	\$1,162,018	\$1,279,717	\$1,396,971	\$1,495,918	\$1,613,076
Pipeline transportation	\$27,989,665	\$31,350,066	\$34,669,230	\$38,025,431	\$41,304,490	\$44,593,459	\$47,854,278
Scenic, sightseeing transp; supp	\$7,951,987	\$8,974,313	\$9,995,714	\$11,023,033	\$12,064,220	\$13,085,175	\$14,121,626
Warehousing, storage	\$2,685,997	\$3,036,313	\$3,387,113	\$3,745,696	\$4,104,937	\$4,469,281	\$4,834,650
Publishing, exc Internet	\$46,896,822	\$53,590,455	\$60,416,941	\$67,402,418	\$74,473,776	\$81,667,161	\$88,938,690
Motion picture, sound rec	\$1,965,284	\$2,270,784	\$2,562,397	\$2,864,016	\$3,195,108	\$3,509,933	\$3,828,744
Internet serv, data proc, other	\$28,809,397	\$32,395,246	\$35,925,157	\$39,471,476	\$43,030,910	\$46,537,065	\$50,064,745
Broadcasting, exc Int; Telecomm	\$297,371,386	\$334,263,190	\$371,045,277	\$407,679,099	\$444,209,799	\$480,558,536	\$516,821,140
Monetary authorities, et al.	\$154,373,321	\$173,166,148	\$191,830,938	\$210,436,489	\$228,931,248	\$247,345,699	\$265,696,510
Sec, comm contracts, inv	\$16,130,835	\$17,930,592	\$19,741,855	\$21,541,438	\$23,330,007	\$25,116,331	\$26,903,558
Ins carriers, rel act	\$50,622,631	\$56,936,165	\$63,246,754	\$69,537,495	\$75,828,311	\$82,109,363	\$88,385,046
Real estate	\$1,342,450,613	\$1,502,660,520	\$1,660,890,537	\$1,816,874,504	\$1,971,029,632	\$2,123,181,915	\$2,273,693,323
Rental, leasing services	\$508,789,677	\$572,050,947	\$635,325,887	\$698,683,678	\$761,958,345	\$825,258,740	\$888,623,721
Prof, tech services	\$106,321,796	\$119,726,733	\$133,162,203	\$146,619,947	\$160,087,676	\$173,568,011	\$187,049,901
Mgmnt of companies, enterprises	\$54,030,645	\$60,972,285	\$67,928,454	\$74,935,861	\$81,982,452	\$89,037,253	\$96,117,213

Administrative, support services	\$74,772,820	\$84,069,467	\$93,346,471	\$102,607,152	\$111,837,803	\$121,059,416	\$130,253,754
Waste mgmnt, remed services	\$7,515,468	\$8,413,370	\$9,319,034	\$10,215,836	\$11,103,157	\$11,970,348	\$12,852,962
Educational services	\$6,898,032	\$7,735,018	\$8,571,693	\$9,392,895	\$10,214,532	\$11,029,777	\$11,838,254
Ambulatory health care services	\$81,778,161	\$92,141,235	\$102,494,598	\$112,761,505	\$122,988,456	\$133,187,343	\$143,343,803
Hospitals	\$50,046,526	\$56,364,145	\$62,644,520	\$68,884,992	\$75,088,393	\$81,277,925	\$87,421,523
Nursing, residential care facilities	\$9,576,928	\$10,774,445	\$11,965,466	\$13,139,985	\$14,314,907	\$15,487,784	\$16,643,523
Social assistance	\$9,291,215	\$10,413,013	\$11,532,071	\$12,633,846	\$13,722,883	\$14,803,196	\$15,872,891
Performing arts, spectator sports	\$2,094,254	\$2,346,587	\$2,595,978	\$2,848,277	\$3,098,246	\$3,349,454	\$3,599,009
Museums et al.	\$483,205	\$541,021	\$598,093	\$655,774	\$712,863	\$770,184	\$827,076
Amusement, gambling, recreation	\$19,301,839	\$21,619,642	\$23,909,080	\$26,200,858	\$28,442,436	\$30,662,674	\$32,858,980
Accommodation	\$7,459,815	\$8,364,019	\$9,243,450	\$10,115,653	\$10,993,529	\$11,856,434	\$12,710,574
Food services, drinking places	\$59,497,912	\$65,868,214	\$72,027,529	\$77,961,159	\$83,677,913	\$89,224,054	\$94,579,126
Repair, maintenance	\$33,906,348	\$37,930,625	\$41,941,289	\$45,878,802	\$49,786,150	\$53,647,211	\$57,491,483
Personal, laundry services	\$26,631,697	\$29,834,859	\$33,022,787	\$36,151,227	\$39,266,129	\$42,334,605	\$45,370,384
Membership assoc, organ	\$15,219,289	\$17,065,648	\$18,892,641	\$20,710,153	\$22,496,842	\$24,276,837	\$26,040,340
Private households	\$786,124	\$876,882	\$959,550	\$1,048,607	\$1,129,038	\$1,208,604	\$1,286,346

Industry Sector	2022	2023	2024	2025	2026	2027	2028
Forestry et al.	\$11,297,507	\$12,045,344	\$12,695,775	\$13,339,866	\$14,079,849	\$14,716,354	\$15,444,623
Agriculture	\$525,262	\$559,503	\$587,230	\$621,096	\$654,942	\$688,829	\$714,973
Oil, gas extraction	\$786,012,498	\$829,713,852	\$873,406,198	\$917,214,738	\$961,301,454	\$1,005,844,844	\$1,050,890,963
Mining (except oil, gas)	\$15,262,533	\$16,270,663	\$17,308,047	\$18,314,856	\$19,321,673	\$20,330,189	\$21,360,101
Support activities for mining	\$72,272,396	\$76,296,745	\$80,250,665	\$84,173,929	\$88,048,769	\$91,908,382	\$95,752,378
Utilities	\$306,910,095	\$325,476,556	\$343,856,612	\$362,065,329	\$380,099,048	\$398,053,117	\$415,920,623
Construction	\$131,606,671	\$138,624,345	\$145,510,828	\$152,260,732	\$158,943,534	\$165,538,285	\$172,058,151
Wood product mfg	\$40,415,388	\$43,128,792	\$45,923,256	\$48,683,707	\$51,449,974	\$54,226,205	\$57,015,987
Nonmetallic mineral prod mfg	\$50,013,190	\$53,553,168	\$57,071,904	\$60,637,724	\$64,219,567	\$67,822,077	\$71,491,160
Primary metal mfg	\$64,088,914	\$69,423,561	\$74,880,648	\$80,369,429	\$85,931,944	\$91,515,977	\$97,150,998
Fabricated metal prod mfg	\$141,453,130	\$152,017,342	\$162,681,645	\$173,404,617	\$184,174,477	\$194,999,142	\$205,897,417
Machinery mfg	\$243,853,860	\$264,886,403	\$286,212,635	\$307,738,501	\$329,341,876	\$350,969,219	\$372,586,907

Computer, electronic prod mfg	\$1,138,333,731	\$1,235,717,230	\$1,334,751,707	\$1,434,891,543	\$1,535,784,375	\$1,637,044,247	\$1,738,846,039
Electrical equip, appliance mfg	\$38,193,049	\$41,528,580	\$44,919,124	\$48,417,761	\$51,974,035	\$55,588,968	\$59,213,469
Motor vehicle mfg	\$348,804,175	\$375,842,421	\$403,184,349	\$430,759,374	\$458,335,417	\$485,980,780	\$513,760,898
Transp equip mfg. exc. motor veh	\$55,422,020	\$59,233,806	\$63,046,955	\$66,832,932	\$70,667,146	\$74,475,536	\$78,279,002
Furniture, related prod mfg	\$17,162,758	\$18,816,347	\$20,476,996	\$22,203,578	\$23,996,491	\$25,793,674	\$27,635,651
Miscellaneous mfg	\$52,754,483	\$56,734,186	\$60,788,083	\$64,881,771	\$69,011,761	\$73,181,875	\$77,382,234
Food mfg	\$360,398,902	\$379,095,015	\$397,335,244	\$415,088,709	\$432,426,388	\$449,332,011	\$465,949,868
Beverage, tobacco prod mfg	\$64,627,395	\$67,776,257	\$70,827,823	\$73,800,937	\$76,699,469	\$79,534,697	\$82,246,727
Textile mills	\$760,606	\$792,382	\$822,611	\$908,308	\$937,853	\$1,026,637	\$1,054,838
Textile prod mills	\$14,033,308	\$15,111,600	\$16,125,899	\$17,221,724	\$18,327,821	\$19,445,165	\$20,557,236
Apparel mfg	\$12,287,708	\$12,870,637	\$13,433,863	\$13,981,048	\$14,512,999	\$15,031,918	\$15,608,281
Leather, allied prod mfg	\$1,879,113	\$1,957,619	\$2,032,300	\$2,103,769	\$2,172,197	\$2,277,925	\$2,340,499
Paper mfg	\$62,928,695	\$67,206,102	\$71,432,298	\$75,715,734	\$80,007,541	\$84,314,212	\$88,621,814
Printing, rel supp act	\$15,210,982	\$16,228,970	\$17,245,181	\$18,292,050	\$19,311,453	\$20,333,390	\$21,341,235
Petroleum, coal prod mfg	\$859,527,971	\$913,804,398	\$967,732,700	\$1,021,714,695	\$1,075,546,766	\$1,129,332,246	\$1,183,320,685
Chemical mfg	\$73,916,323	\$78,698,617	\$83,516,463	\$88,332,852	\$93,146,561	\$97,965,907	\$102,839,631
Plastics, rubber prod mfg	\$341,445,183	\$366,485,558	\$391,715,944	\$417,136,096	\$442,727,767	\$468,450,018	\$494,401,827
Wholesale trade	\$559,318,143	\$599,603,167	\$640,078,806	\$680,729,185	\$721,438,534	\$762,241,549	\$803,181,836
Retail trade	\$569,849,165	\$609,167,833	\$648,662,322	\$688,300,404	\$728,127,789	\$768,240,046	\$808,527,729
Air transportation	\$208,506,958	\$222,503,220	\$236,478,337	\$250,423,045	\$264,380,135	\$278,317,560	\$292,282,836
Rail transportation	\$15,641,868	\$16,681,925	\$17,750,509	\$18,790,158	\$19,830,276	\$20,906,566	\$21,934,934
Water transportation	\$44,990	\$46,870	\$48,658	\$50,369	\$104,015	\$107,164	\$110,108
Truck transp; Couriers, msngrs	\$156,464,477	\$167,246,949	\$178,034,890	\$188,858,367	\$199,712,312	\$210,575,009	\$221,461,570
Transit, ground pass transp	\$1,708,819	\$1,824,716	\$1,917,428	\$2,032,685	\$2,123,493	\$2,238,661	\$2,352,433
Pipeline transportation	\$51,092,069	\$54,300,802	\$57,543,259	\$60,721,240	\$63,888,232	\$67,111,901	\$70,280,309
Scenic, sightseeing transp; supp	\$15,158,663	\$16,193,942	\$17,229,036	\$18,266,905	\$19,307,102	\$20,329,290	\$21,359,899
Warehousing, storage	\$5,201,268	\$5,568,252	\$5,936,070	\$6,305,678	\$6,676,871	\$7,050,135	\$7,419,622
Publishing, exc Internet	\$96,330,654	\$103,783,453	\$111,301,752	\$118,852,205	\$126,423,302	\$133,966,443	\$141,568,779
Motion picture, sound rec	\$4,180,711	\$4,507,659	\$4,869,336	\$5,204,227	\$5,576,276	\$5,919,193	\$6,296,444
Internet serv, data proc, other	\$53,579,897	\$57,075,327	\$60,605,934	\$64,088,024	\$67,567,318	\$71,049,905	\$74,532,757

Broadcasting, exc Int; Telecomm	\$552,877,991	\$588,839,363	\$624,590,730	\$660,241,898	\$695,778,356	\$731,184,502	\$766,528,809
Monetary authorities, et al.	\$283,943,949	\$302,092,694	\$320,184,680	\$338,242,817	\$356,308,634	\$374,328,058	\$392,229,647
Sec, comm contracts, inv	\$28,698,458	\$30,474,901	\$32,264,242	\$34,047,652	\$35,825,000	\$37,599,793	\$39,372,625
Ins carriers, rel act	\$94,665,877	\$100,941,609	\$107,226,064	\$113,490,838	\$119,783,454	\$126,063,049	\$132,362,118
Real estate	\$2,422,269,741	\$2,569,443,923	\$2,714,978,749	\$2,858,964,901	\$3,001,581,329	\$3,143,104,153	\$3,283,448,881
Rental, leasing services	\$951,951,104	\$1,015,235,973	\$1,078,615,474	\$1,142,185,815	\$1,205,683,159	\$1,269,329,318	\$1,333,164,818
Prof, tech services	\$200,552,539	\$214,031,905	\$227,492,235	\$240,952,749	\$254,384,776	\$267,761,059	\$281,107,690
Mgmnt of companies, enterprises	\$103,232,236	\$110,369,745	\$117,512,650	\$124,680,675	\$131,870,368	\$139,057,957	\$146,230,653
Administrative, support services	\$139,434,569	\$148,585,201	\$157,724,608	\$166,844,774	\$175,961,452	\$185,048,711	\$194,144,638
Waste mgmnt, remed services	\$13,730,068	\$14,599,995	\$15,464,584	\$16,326,848	\$17,186,691	\$18,045,767	\$18,889,530
Educational services	\$12,630,037	\$13,425,509	\$14,215,706	\$15,003,426	\$15,788,601	\$16,572,770	\$17,342,595
Ambulatory health care services	\$153,406,905	\$163,479,130	\$173,552,709	\$183,574,916	\$193,610,652	\$203,697,588	\$213,750,283
Hospitals	\$93,524,638	\$99,608,087	\$105,685,580	\$111,740,782	\$117,809,641	\$123,884,392	\$129,947,528
Nursing, residential care facilities	\$17,793,406	\$18,935,170	\$20,083,278	\$21,230,256	\$22,362,857	\$23,508,735	\$24,649,994
Social assistance	\$16,933,765	\$17,983,907	\$19,011,499	\$20,048,328	\$21,080,672	\$22,110,651	\$23,136,645
Performing arts, spectator sports	\$3,847,262	\$4,093,726	\$4,338,900	\$4,583,616	\$4,827,835	\$5,072,009	\$5,312,039
Museums et al.	\$883,623	\$939,717	\$995,476	\$1,051,092	\$1,106,561	\$1,161,987	\$1,193,906
Amusement, gambling, recreation	\$35,063,965	\$37,217,532	\$39,352,273	\$41,476,220	\$43,622,663	\$45,730,632	\$47,830,921
Accommodation	\$13,557,407	\$14,395,422	\$15,204,875	\$16,031,465	\$16,854,295	\$17,651,187	\$18,455,100
Food services, drinking places	\$99,738,291	\$104,758,288	\$109,594,951	\$114,295,287	\$118,862,446	\$123,311,294	\$127,623,634
Repair, maintenance	\$61,271,847	\$65,038,320	\$68,803,461	\$72,519,759	\$76,184,008	\$79,869,949	\$83,516,739
Personal, laundry services	\$48,378,780	\$51,354,501	\$54,304,581	\$57,240,082	\$60,161,073	\$63,073,710	\$65,964,926
Membership assoc, organ	\$27,776,835	\$29,509,348	\$31,228,971	\$32,926,942	\$34,632,691	\$36,319,225	\$37,988,843
Private households	\$1,362,484	\$1,436,929	\$1,509,939	\$1,581,869	\$1,652,766	\$1,722,837	\$1,790,747

Industry Sector	2029	2030	2031	2032	2033	2034	2035
Forestry et al.	\$16,160,711	\$16,766,598	\$17,469,161	\$18,156,699	\$18,827,893	\$19,605,639	\$20,259,779
Agriculture	\$747,553	\$780,249	\$812,264	\$843,554	\$874,061	\$903,839	\$933,431
Oil, gas extraction	\$1,096,371,380	\$1,142,723,491	\$1,189,855,209	\$1,237,534,181	\$1,285,947,905	\$1,335,156,240	\$1,386,218,831
Mining (except oil, gas)	\$22,374,371	\$23,394,032	\$24,395,037	\$25,415,458	\$26,455,390	\$27,477,115	\$28,496,684

Support activities for mining	\$99,603,878	\$103,471,192	\$107,326,126	\$111,221,560	\$115,133,801	\$119,103,227	\$123,075,940
Utilities	\$433,748,233	\$451,525,682	\$469,321,220	\$487,074,607	\$504,845,389	\$522,689,156	\$540,514,735
Construction	\$178,502,237	\$184,884,105	\$191,168,561	\$197,487,781	\$203,847,554	\$210,356,921	\$216,863,954
Wood product mfg	\$59,864,874	\$62,684,286	\$65,509,228	\$68,390,714	\$71,274,778	\$74,166,791	\$77,057,023
Nonmetallic mineral prod mfg	\$75,154,580	\$78,848,662	\$82,600,987	\$86,336,989	\$90,125,855	\$93,976,044	\$97,829,572
Primary metal mfg	\$102,823,431	\$108,510,591	\$114,154,467	\$119,804,980	\$125,451,409	\$130,971,015	\$136,694,626
Fabricated metal prod mfg	\$216,810,709	\$227,712,288	\$238,635,724	\$249,529,714	\$260,375,842	\$271,188,659	\$282,129,762
Machinery mfg	\$394,082,013	\$415,361,407	\$436,362,310	\$456,943,658	\$477,045,655	\$496,625,122	\$516,489,555
Computer, electronic prod mfg	\$1,840,905,168	\$1,942,541,691	\$2,043,798,620	\$2,144,279,279	\$2,243,744,177	\$2,342,247,252	\$2,441,986,328
Electrical equip, appliance mfg	\$62,945,635	\$66,679,544	\$70,455,267	\$74,326,176	\$78,168,830	\$82,043,623	\$85,998,312
Motor vehicle mfg	\$541,469,237	\$569,017,599	\$596,463,549	\$623,691,727	\$650,569,119	\$677,201,155	\$704,147,360
Transp equip mfg. exc. motor veh	\$82,114,553	\$85,930,463	\$89,772,865	\$93,547,503	\$97,341,626	\$101,116,035	\$104,931,975
Furniture, related prod mfg	\$29,484,399	\$31,400,275	\$33,351,537	\$35,298,951	\$37,310,964	\$39,315,218	\$41,370,853
Miscellaneous mfg	\$81,657,681	\$85,926,180	\$90,205,644	\$94,547,901	\$98,890,827	\$103,239,459	\$107,595,341
Food mfg	\$482,208,470	\$498,234,570	\$513,911,548	\$529,409,942	\$544,581,754	\$559,575,589	\$574,187,393
Beverage, tobacco prod mfg	\$84,909,248	\$87,455,185	\$90,035,545	\$92,578,315	\$95,002,513	\$97,488,125	\$99,845,613
Textile mills	\$1,144,658	\$1,171,525	\$1,262,829	\$1,286,961	\$1,377,932	\$1,399,203	\$1,490,410
Textile prod mills	\$21,745,271	\$22,948,442	\$24,054,043	\$25,324,833	\$26,492,564	\$27,739,299	\$28,990,340
Apparel mfg	\$16,163,869	\$16,800,404	\$17,419,216	\$18,108,923	\$18,873,212	\$19,625,248	\$20,469,884
Leather, allied prod mfg	\$2,440,776	\$2,541,134	\$2,638,996	\$2,779,075	\$2,917,927	\$3,055,564	\$3,193,685
Paper mfg	\$92,923,038	\$97,251,004	\$101,564,693	\$105,921,131	\$110,256,285	\$114,577,970	\$118,955,777
Printing, rel supp act	\$22,365,218	\$23,395,087	\$24,406,757	\$25,433,693	\$26,440,069	\$27,463,351	\$28,484,539
Petroleum, coal prod mfg	\$1,237,230,865	\$1,291,576,114	\$1,346,045,647	\$1,400,637,302	\$1,455,312,839	\$1,510,473,002	\$1,565,749,625
Chemical mfg	\$107,765,121	\$112,651,219	\$117,583,918	\$122,563,937	\$127,588,581	\$132,598,103	\$137,673,020
Plastics, rubber prod mfg	\$520,540,845	\$546,780,496	\$573,225,987	\$599,704,680	\$626,255,168	\$652,919,212	\$679,685,192
Wholesale trade	\$844,139,326	\$885,114,023	\$926,140,282	\$967,138,266	\$1,008,146,790	\$1,049,190,218	\$1,090,509,541
Retail trade	\$848,963,036	\$889,698,352	\$930,808,602	\$972,471,087	\$1,014,888,398	\$1,058,088,162	\$1,101,557,364
Air transportation	\$306,256,564	\$320,249,868	\$334,228,968	\$348,247,751	\$362,231,875	\$376,210,577	\$390,159,431
Rail transportation	\$23,017,279	\$24,070,439	\$25,141,997	\$26,194,391	\$27,264,202	\$28,315,186	\$29,363,890
Water transportation	\$112,845	\$115,494	\$117,943	\$120,197	\$122,258	\$124,146	\$125,941

Truck transp; Couriers, msngrs	\$232,393,566	\$243,360,762	\$254,355,589	\$265,372,197	\$276,355,707	\$287,412,497	\$298,457,855
Transit, ground pass transp	\$2,437,712	\$2,549,762	\$2,659,820	\$2,739,182	\$2,844,210	\$2,947,057	\$3,049,471
Pipeline transportation	\$73,450,225	\$76,696,203	\$79,876,636	\$83,124,805	\$86,301,821	\$89,554,631	\$92,798,084
Scenic, sightseeing transp; supp	\$22,397,945	\$23,442,501	\$24,493,473	\$25,526,063	\$26,588,019	\$27,632,230	\$28,674,776
Warehousing, storage	\$7,802,316	\$8,169,868	\$8,550,254	\$8,924,773	\$9,312,118	\$9,693,755	\$10,055,158
Publishing, exc Internet	\$149,108,596	\$156,612,817	\$164,134,800	\$171,553,114	\$178,966,871	\$186,269,909	\$193,689,307
Motion picture, sound rec	\$6,672,989	\$7,054,764	\$7,434,269	\$7,810,658	\$8,222,688	\$8,631,978	\$9,043,250
Internet serv, data proc, other	\$78,011,187	\$81,505,584	\$84,990,926	\$88,465,600	\$91,925,920	\$95,379,598	\$98,822,989
Broadcasting, exc Int; Telecomm	\$801,839,368	\$837,057,010	\$872,190,827	\$907,393,318	\$942,474,205	\$977,516,545	\$1,012,528,360
Monetary authorities, et al.	\$410,079,607	\$427,893,551	\$445,580,342	\$463,285,118	\$480,996,513	\$498,761,803	\$516,356,831
Sec, comm contracts, inv	\$41,141,563	\$42,915,715	\$44,684,314	\$46,446,978	\$48,202,205	\$49,954,439	\$51,699,580
Ins carriers, rel act	\$138,672,729	\$145,017,951	\$151,366,599	\$157,715,925	\$164,028,794	\$170,317,485	\$176,496,981
Real estate	\$3,422,448,703	\$3,560,196,096	\$3,697,472,157	\$3,835,122,353	\$3,973,131,443	\$4,111,684,054	\$4,248,639,678
Rental, leasing services	\$1,397,243,077	\$1,461,552,891	\$1,526,167,641	\$1,590,778,165	\$1,655,612,648	\$1,720,666,850	\$1,785,926,482
Prof, tech services	\$294,402,129	\$307,644,619	\$320,781,759	\$333,853,086	\$346,818,005	\$359,703,467	\$372,598,446
Mgmnt of companies, enterprises	\$153,445,892	\$160,674,162	\$167,934,097	\$175,146,453	\$182,416,262	\$189,642,548	\$196,899,152
Administrative, support services	\$203,237,448	\$212,306,190	\$221,380,161	\$230,457,076	\$239,505,241	\$248,544,996	\$257,534,733
Waste mgmnt, remed services	\$19,748,333	\$20,610,113	\$21,453,806	\$22,278,268	\$23,152,240	\$23,973,417	\$24,826,786
Educational services	\$18,110,218	\$18,879,595	\$19,646,149	\$20,394,846	\$21,169,879	\$21,928,467	\$22,683,622
Ambulatory health care services	\$223,830,736	\$233,941,656	\$244,110,144	\$254,272,541	\$264,332,695	\$274,243,591	\$283,660,860
Hospitals	\$136,011,250	\$142,102,766	\$148,209,896	\$154,308,951	\$160,347,682	\$166,290,808	\$171,952,172
Nursing, residential care facilities	\$25,784,799	\$26,924,152	\$28,069,973	\$29,207,366	\$30,350,179	\$31,454,938	\$32,539,530
Social assistance	\$24,140,945	\$25,146,658	\$26,145,481	\$27,137,248	\$28,121,153	\$29,118,019	\$30,110,013
Performing arts, spectator sports	\$5,547,324	\$5,783,155	\$6,013,640	\$6,238,491	\$6,485,262	\$6,727,303	\$6,939,775
Museums et al.	\$1,246,678	\$1,299,568	\$1,351,251	\$1,426,255	\$1,475,731	\$1,523,910	\$1,571,715
Amusement, gambling, recreation	\$49,885,261	\$51,978,385	\$54,022,267	\$56,052,836	\$58,107,681	\$60,154,658	\$62,191,194
Accommodation	\$19,266,093	\$20,052,937	\$20,846,136	\$21,646,357	\$22,426,380	\$23,215,304	\$24,000,166
Food services, drinking places	\$131,797,555	\$135,834,297	\$139,787,706	\$143,665,145	\$147,527,256	\$151,311,110	\$154,939,417
Repair, maintenance	\$87,154,840	\$90,798,645	\$94,431,772	\$98,054,337	\$101,664,010	\$105,310,869	\$108,941,356
Personal, laundry services	\$68,792,490	\$71,661,603	\$74,462,075	\$77,272,194	\$80,050,008	\$82,887,030	\$85,667,414

Membership assoc, organ	\$39,655,639	\$41,308,399	\$42,956,652	\$44,582,618	\$46,238,963	\$47,876,666	\$49,487,570
Private households	\$1,856,367	\$1,921,529	\$1,984,318	\$2,055,942	\$2,125,488	\$2,193,111	\$2,260,142

Industry Sector	2036	2037	2038	2039	2040	2041	2042
Forestry et al.	\$21,010,216	\$21,627,650	\$22,364,865	\$23,096,643	\$23,691,778	\$24,385,272	\$25,069,649
Agriculture	\$961,683	\$989,491	\$1,016,923	\$1,052,613	\$1,079,347	\$1,104,583	\$1,138,144
Oil, gas extraction	\$1,438,478,480	\$1,492,533,545	\$1,548,734,264	\$1,607,134,548	\$1,667,925,562	\$1,730,691,601	\$1,796,154,725
Mining (except oil, gas)	\$29,520,471	\$30,534,362	\$31,582,956	\$32,580,699	\$33,612,386	\$34,600,625	\$35,620,289
Support activities for mining	\$127,034,691	\$130,994,417	\$134,965,166	\$138,948,756	\$142,941,442	\$146,911,593	\$150,908,820
Utilities	\$558,156,434	\$575,715,125	\$593,158,191	\$610,562,386	\$627,834,133	\$644,938,503	\$661,860,549
Construction	\$223,430,415	\$230,086,306	\$236,769,943	\$243,541,717	\$250,397,550	\$257,343,965	\$264,361,234
Wood product mfg	\$79,960,231	\$82,896,123	\$85,870,727	\$88,827,367	\$91,761,774	\$94,754,826	\$97,716,510
Nonmetallic mineral prod mfg	\$101,720,790	\$105,586,561	\$109,512,470	\$113,458,851	\$117,379,992	\$121,361,337	\$125,304,518
Primary metal mfg	\$142,390,942	\$148,256,935	\$154,170,874	\$160,131,933	\$166,201,434	\$172,416,066	\$178,653,404
Fabricated metal prod mfg	\$293,107,350	\$304,136,681	\$315,280,666	\$326,452,053	\$337,681,893	\$348,940,599	\$360,268,762
Machinery mfg	\$536,490,815	\$556,692,355	\$577,082,296	\$597,662,932	\$618,463,811	\$639,470,499	\$660,638,397
Computer, electronic prod mfg	\$2,542,962,538	\$2,644,712,928	\$2,747,393,529	\$2,851,224,775	\$2,955,869,252	\$3,061,713,547	\$3,168,277,874
Electrical equip, appliance mfg	\$90,049,525	\$94,155,637	\$98,257,889	\$102,482,196	\$106,760,789	\$111,113,320	\$115,440,533
Motor vehicle mfg	\$731,354,223	\$758,856,799	\$786,624,357	\$814,744,869	\$843,191,625	\$871,877,643	\$900,809,129
Transp equip mfg. exc. motor veh	\$108,709,768	\$112,451,297	\$116,162,763	\$119,894,833	\$123,592,088	\$127,232,116	\$130,877,242
Furniture, related prod mfg	\$43,502,982	\$45,635,374	\$47,808,457	\$50,021,804	\$52,273,003	\$54,547,950	\$56,853,074
Miscellaneous mfg	\$111,943,026	\$116,325,328	\$120,749,443	\$125,153,168	\$129,529,994	\$133,935,717	\$138,363,187
Food mfg	\$588,290,491	\$601,962,897	\$615,250,889	\$628,077,887	\$640,425,791	\$652,260,910	\$663,673,788
Beverage, tobacco prod mfg	\$102,212,390	\$104,516,842	\$106,678,544	\$108,876,939	\$111,021,587	\$113,002,443	\$115,016,294
Textile mills	\$1,508,816	\$1,598,570	\$1,688,697	\$1,704,980	\$1,794,871	\$1,883,000	\$1,970,896
Textile prod mills	\$30,304,322	\$31,517,729	\$32,824,007	\$34,225,468	\$35,523,731	\$36,879,631	\$38,225,920
Apparel mfg	\$21,385,041	\$22,297,161	\$23,303,743	\$24,407,104	\$25,608,258	\$26,882,173	\$28,252,801
Leather, allied prod mfg	\$3,375,763	\$3,558,257	\$3,741,203	\$3,973,500	\$4,206,661	\$4,436,056	\$4,715,360
Paper mfg	\$123,307,304	\$127,619,280	\$132,029,496	\$136,342,702	\$140,684,278	\$145,045,831	\$149,356,376
Printing, rel supp act	\$29,505,186	\$30,553,460	\$31,556,285	\$32,589,026	\$33,612,644	\$34,631,639	\$35,638,151

Petroleum, coal prod mfg	\$1,620,811,039	\$1,675,844,994	\$1,730,689,544	\$1,785,623,169	\$1,840,305,823	\$1,894,833,439	\$1,949,228,160
Chemical mfg	\$142,718,139	\$147,792,860	\$152,831,516	\$157,986,423	\$163,022,490	\$168,160,046	\$173,317,990
Plastics, rubber prod mfg	\$706,521,995	\$733,427,326	\$760,359,656	\$787,399,741	\$814,429,612	\$841,475,134	\$868,509,038
Wholesale trade	\$1,131,949,436	\$1,173,568,813	\$1,215,391,822	\$1,257,420,435	\$1,299,659,402	\$1,342,095,451	\$1,384,616,709
Retail trade	\$1,145,470,590	\$1,189,946,513	\$1,234,863,325	\$1,280,305,678	\$1,326,393,408	\$1,373,026,976	\$1,420,218,188
Air transportation	\$404,044,165	\$417,724,901	\$431,355,370	\$444,802,288	\$458,045,222	\$471,158,203	\$484,091,140
Rail transportation	\$30,454,509	\$31,494,836	\$32,567,907	\$33,591,323	\$34,646,670	\$35,699,501	\$36,739,497
Water transportation	\$127,496	\$128,940	\$130,288	\$131,544	\$132,710	\$133,657	\$134,515
Truck transp; Couriers, msngrs	\$309,517,284	\$320,570,534	\$331,591,953	\$342,626,269	\$353,614,191	\$364,612,839	\$375,530,601
Transit, ground pass transp	\$3,147,662	\$3,244,536	\$3,371,229	\$3,466,189	\$3,559,903	\$3,648,766	\$3,736,061
Pipeline transportation	\$95,989,512	\$99,219,362	\$102,346,471	\$105,519,095	\$108,658,997	\$111,808,471	\$114,915,732
Scenic, sightseeing transp; supp	\$29,705,795	\$30,726,875	\$31,739,712	\$32,744,159	\$33,738,823	\$34,743,805	\$35,708,558
Warehousing, storage	\$10,443,995	\$10,829,964	\$11,192,795	\$11,573,787	\$11,972,994	\$12,335,892	\$12,715,821
Publishing, exc Internet	\$201,167,958	\$208,713,606	\$216,340,387	\$224,049,544	\$231,833,369	\$239,709,141	\$247,637,478
Motion picture, sound rec	\$9,444,903	\$9,845,154	\$10,286,696	\$10,727,808	\$11,167,796	\$11,594,909	\$12,019,012
Internet serv, data proc, other	\$102,259,532	\$105,723,211	\$109,157,444	\$112,561,832	\$115,997,595	\$119,347,794	\$122,786,383
Broadcasting, exc Int; Telecomm	\$1,047,291,192	\$1,081,840,985	\$1,116,246,919	\$1,150,333,275	\$1,184,324,066	\$1,217,926,405	\$1,251,333,471
Monetary authorities, et al.	\$533,842,709	\$551,235,271	\$568,571,001	\$585,796,314	\$602,889,450	\$619,922,755	\$636,831,087
Sec, comm contracts, inv	\$53,409,070	\$55,133,359	\$56,804,015	\$58,456,788	\$60,126,646	\$61,753,389	\$63,355,284
Ins carriers, rel act	\$182,598,294	\$188,600,635	\$194,448,835	\$200,172,640	\$205,762,518	\$211,208,465	\$216,534,184
Real estate	\$4,384,105,161	\$4,518,855,814	\$4,652,347,227	\$4,784,599,885	\$4,915,449,003	\$5,044,986,263	\$5,173,047,560
Rental, leasing services	\$1,851,195,717	\$1,916,500,868	\$1,981,805,631	\$2,047,111,106	\$2,112,338,736	\$2,177,622,501	\$2,242,796,154
Prof, tech services	\$385,519,375	\$398,434,763	\$411,344,806	\$424,306,295	\$437,278,334	\$450,290,937	\$463,334,310
Mgmnt of companies, enterprises	\$204,183,562	\$211,445,255	\$218,696,705	\$225,979,302	\$233,200,895	\$240,461,227	\$247,637,399
Administrative, support services	\$266,473,621	\$275,365,952	\$284,178,762	\$292,936,793	\$301,628,788	\$310,258,615	\$318,821,964
Waste mgmnt, remed services	\$25,682,943	\$26,492,613	\$27,331,069	\$28,161,620	\$28,983,138	\$29,804,505	\$30,653,028
Educational services	\$23,438,860	\$24,168,852	\$24,906,941	\$25,637,302	\$26,358,961	\$27,078,348	\$27,803,632
Ambulatory health care services	\$292,838,777	\$301,691,869	\$310,050,227	\$317,972,900	\$325,464,205	\$332,588,372	\$339,320,720
Hospitals	\$177,468,617	\$182,764,345	\$187,772,704	\$192,512,945	\$196,998,677	\$201,280,377	\$205,314,872
Nursing, residential care facilities	\$33,594,779	\$34,620,031	\$35,600,684	\$36,535,902	\$37,440,168	\$38,308,811	\$39,143,313

Social assistance	\$31,078,436	\$32,052,690	\$33,016,355	\$33,969,477	\$34,910,797	\$35,843,988	\$36,782,275
Performing arts, spectator sports	\$7,171,233	\$7,399,876	\$7,655,946	\$7,880,152	\$8,101,679	\$8,312,297	\$8,550,213
Museums et al.	\$1,617,208	\$1,661,907	\$1,732,585	\$1,776,204	\$1,819,090	\$1,886,761	\$1,926,397
Amusement, gambling, recreation	\$64,180,928	\$66,143,522	\$68,124,834	\$70,084,250	\$72,061,574	\$73,984,676	\$75,920,622
Accommodation	\$24,751,223	\$25,520,165	\$26,280,528	\$27,003,045	\$27,745,106	\$28,449,544	\$29,141,923
Food services, drinking places	\$158,489,170	\$161,939,421	\$165,334,351	\$168,586,200	\$171,782,968	\$174,880,296	\$177,886,721
Repair, maintenance	\$112,543,314	\$116,100,369	\$119,703,543	\$123,228,369	\$126,797,045	\$130,325,666	\$133,889,721
Personal, laundry services	\$88,413,114	\$91,121,538	\$93,842,744	\$96,533,624	\$99,235,682	\$101,894,679	\$104,557,990
Membership assoc, organ	\$51,104,476	\$52,700,546	\$54,279,080	\$55,840,167	\$57,381,747	\$58,925,201	\$60,464,846
Private households	\$2,323,804	\$2,386,283	\$2,447,755	\$2,520,538	\$2,580,080	\$2,635,972	\$2,703,191

Industry Sector	2043	2044	2045	2046	2047	2048
Forestry et al.	\$25,854,004	\$26,490,276	\$27,117,740	\$27,835,240	\$28,544,809	\$29,223,839
Agriculture	\$1,161,388	\$1,183,854	\$1,214,813	\$1,234,877	\$1,263,513	\$1,290,792
Oil, gas extraction	\$1,863,806,665	\$1,933,878,674	\$2,007,004,963	\$2,082,266,578	\$2,160,855,362	\$2,242,846,915
Mining (except oil, gas)	\$36,638,676	\$37,590,329	\$38,574,707	\$39,542,219	\$40,498,298	\$41,500,987
Support activities for mining	\$154,907,277	\$158,895,413	\$162,889,273	\$166,850,729	\$170,849,717	\$174,895,319
Utilities	\$678,744,701	\$695,355,600	\$711,811,198	\$728,037,732	\$744,048,699	\$759,950,857
Construction	\$271,435,991	\$278,748,514	\$286,234,421	\$293,961,028	\$301,808,324	\$309,537,356
Wood product mfg	\$100,672,654	\$103,628,999	\$106,613,977	\$109,548,886	\$112,512,691	\$115,475,954
Nonmetallic mineral prod mfg	\$129,299,782	\$133,262,837	\$137,229,484	\$141,189,850	\$145,153,300	\$149,173,547
Primary metal mfg	\$184,952,392	\$191,360,244	\$197,788,330	\$204,258,428	\$210,885,432	\$217,641,383
Fabricated metal prod mfg	\$371,601,783	\$382,949,411	\$394,369,946	\$405,718,859	\$417,139,630	\$428,716,063
Machinery mfg	\$682,021,471	\$703,485,307	\$725,168,465	\$746,860,300	\$768,872,284	\$791,327,366
Computer, electronic prod mfg	\$3,275,799,513	\$3,383,584,544	\$3,492,306,769	\$3,601,367,300	\$3,711,555,335	\$3,823,409,382
Electrical equip, appliance mfg	\$119,894,968	\$124,353,536	\$128,914,905	\$133,476,399	\$138,070,191	\$142,785,289
Motor vehicle mfg	\$930,094,222	\$959,460,652	\$989,168,222	\$1,018,804,723	\$1,048,863,946	\$1,079,563,895
Transp equip mfg. exc. motor veh	\$134,458,213	\$137,956,922	\$141,464,185	\$144,850,497	\$148,247,618	\$151,645,267
Furniture, related prod mfg	\$59,215,530	\$61,589,817	\$63,991,612	\$66,418,881	\$68,870,883	\$71,374,611
Miscellaneous mfg	\$142,746,067	\$147,111,043	\$151,497,879	\$155,838,591	\$160,265,344	\$164,650,845

Food mfg	\$674,585,031	\$684,933,119	\$694,831,204	\$704,104,201	\$712,882,924	\$721,414,122
Beverage, tobacco prod mfg	\$117,052,748	\$118,915,162	\$120,823,700	\$122,625,755	\$124,388,516	\$126,109,391
Textile mills	\$2,056,613	\$2,064,871	\$2,148,875	\$2,229,592	\$2,309,747	\$2,387,471
Textile prod mills	\$39,627,260	\$41,007,428	\$42,479,057	\$43,884,687	\$45,278,693	\$46,727,194
Apparel mfg	\$29,693,769	\$31,223,063	\$32,848,930	\$34,527,602	\$36,401,761	\$38,340,078
Leather, allied prod mfg	\$4,990,232	\$5,313,920	\$5,688,108	\$6,054,397	\$6,470,585	\$6,880,292
Paper mfg	\$153,679,026	\$157,977,877	\$162,296,434	\$166,561,545	\$170,779,110	\$175,088,570
Printing, rel supp act	\$36,677,482	\$37,694,928	\$38,700,688	\$39,724,070	\$40,736,132	\$41,744,444
Petroleum, coal prod mfg	\$2,003,663,965	\$2,057,169,373	\$2,110,595,582	\$2,163,224,994	\$2,215,803,725	\$2,268,598,952
Chemical mfg	\$178,412,938	\$183,560,022	\$188,731,047	\$193,919,751	\$199,053,813	\$204,293,953
Plastics, rubber prod mfg	\$895,585,642	\$922,493,515	\$949,306,430	\$976,021,857	\$1,002,728,886	\$1,029,601,824
Wholesale trade	\$1,427,303,711	\$1,470,066,106	\$1,512,931,463	\$1,555,863,112	\$1,598,897,733	\$1,642,054,483
Retail trade	\$1,467,940,491	\$1,516,666,669	\$1,565,833,382	\$1,616,039,723	\$1,666,411,355	\$1,716,426,370
Air transportation	\$496,871,863	\$509,275,651	\$521,442,243	\$533,321,769	\$544,973,962	\$556,456,358
Rail transportation	\$37,775,003	\$38,787,661	\$39,788,034	\$40,767,861	\$41,735,845	\$42,745,764
Water transportation	\$135,167	\$135,709	\$136,186	\$136,429	\$136,623	\$136,665
Truck transp; Couriers, msngrs	\$386,391,288	\$397,162,487	\$407,905,832	\$418,520,294	\$429,062,559	\$439,669,339
Transit, ground pass transp	\$3,818,332	\$3,930,309	\$4,008,784	\$4,113,096	\$4,183,798	\$4,282,409
Pipeline transportation	\$117,950,640	\$120,990,197	\$123,990,537	\$126,947,702	\$129,867,687	\$132,726,508
Scenic, sightseeing transp; supp	\$36,654,356	\$37,605,170	\$38,516,032	\$39,420,523	\$40,285,526	\$41,163,008
Warehousing, storage	\$13,101,166	\$13,478,819	\$13,852,397	\$14,225,674	\$14,594,919	\$14,970,384
Publishing, exc Internet	\$255,642,120	\$263,758,810	\$271,995,302	\$280,256,496	\$288,635,841	\$297,097,938
Motion picture, sound rec	\$12,472,484	\$12,919,403	\$13,363,057	\$13,830,174	\$14,293,705	\$14,742,132
Internet serv, data proc, other	\$126,200,507	\$129,537,893	\$132,969,187	\$136,323,162	\$139,637,784	\$143,006,362
Broadcasting, exc Int; Telecomm	\$1,284,389,992	\$1,317,019,271	\$1,349,218,204	\$1,381,004,600	\$1,412,385,315	\$1,443,641,149
Monetary authorities, et al.	\$653,656,284	\$670,424,185	\$686,974,212	\$703,467,338	\$719,754,781	\$735,678,046
Sec, comm contracts, inv	\$64,949,032	\$66,501,837	\$68,070,332	\$69,567,079	\$71,081,312	\$72,519,063
Ins carriers, rel act	\$221,740,667	\$226,771,345	\$231,689,434	\$236,435,762	\$241,110,405	\$245,627,351
Real estate	\$5,299,354,739	\$5,426,523,813	\$5,551,257,629	\$5,677,045,025	\$5,799,321,581	\$5,916,574,736
Rental, leasing services	\$2,307,743,646	\$2,372,140,503	\$2,436,637,907	\$2,500,248,760	\$2,563,813,286	\$2,627,811,979

Prof, tech services	\$476,399,459	\$489,487,714	\$502,593,628	\$515,720,656	\$528,899,596	\$542,139,570
Mgmt of companies, enterprises	\$254,839,171	\$262,017,850	\$269,159,294	\$276,260,429	\$283,326,126	\$290,392,188
Administrative, support services	\$327,309,679	\$335,726,642	\$344,061,053	\$352,317,911	\$360,524,714	\$368,635,922
Waste mgmnt, remed services	\$31,461,814	\$32,251,094	\$33,068,896	\$33,872,785	\$34,666,801	\$35,423,612
Educational services	\$28,509,161	\$29,213,629	\$29,891,489	\$30,588,796	\$31,260,125	\$31,914,803
Ambulatory health care services	\$345,772,637	\$351,964,752	\$357,712,543	\$363,395,271	\$368,819,003	\$373,889,591
Hospitals	\$209,166,632	\$212,875,164	\$216,322,400	\$219,721,059	\$222,972,499	\$226,007,232
Nursing, residential care facilities	\$39,958,052	\$40,729,166	\$41,485,176	\$42,224,277	\$42,933,150	\$43,612,556
Social assistance	\$37,691,744	\$38,617,003	\$39,529,407	\$40,437,817	\$41,334,278	\$42,206,275
Performing arts, spectator sports	\$8,777,059	\$8,998,474	\$9,216,938	\$9,451,739	\$9,652,582	\$9,874,278
Museums et al.	\$1,963,381	\$2,026,793	\$2,089,641	\$2,121,281	\$2,180,194	\$2,236,783
Amusement, gambling, recreation	\$77,842,627	\$79,759,014	\$81,648,889	\$83,537,657	\$85,358,138	\$87,174,084
Accommodation	\$29,825,359	\$30,489,564	\$31,173,472	\$31,806,845	\$32,430,558	\$33,049,721
Food services, drinking places	\$180,830,137	\$183,741,302	\$186,548,267	\$189,364,363	\$192,024,241	\$194,475,036
Repair, maintenance	\$137,365,602	\$140,886,840	\$144,318,447	\$147,737,028	\$151,112,269	\$154,501,105
Personal, laundry services	\$107,220,792	\$109,862,348	\$112,513,625	\$115,122,402	\$117,743,603	\$120,238,310
Membership assoc, organ	\$61,964,832	\$63,486,171	\$64,966,107	\$66,462,854	\$67,899,301	\$69,323,697
Private households	\$2,766,820	\$2,828,667	\$2,889,528	\$2,945,691	\$3,000,952	\$3,052,968

Table 7-18: Inputs, Productivity, Graduate and Professional Degrees, Industry Sales/Exog Production without Employment, Investment, and Comp (Fixed 2006\$)

Industry Sector	2008	2009	2010	2011	2012	2013	2014
Forestry et al.	\$455,310	\$899,400	\$1,329,310	\$1,745,012	\$2,153,270	\$2,550,171	\$2,931,275
Agriculture	\$22,411	\$43,515	\$63,833	\$83,159	\$101,866	\$119,760	\$136,665
Oil, gas extraction	\$36,865,767	\$68,449,482	\$100,800,826	\$131,942,949	\$162,231,719	\$191,451,387	\$219,546,518
Mining (except oil, gas)	\$688,075	\$1,436,074	\$2,034,560	\$2,561,589	\$3,023,071	\$3,429,374	\$3,774,444
Support activities for mining	\$3,455,358	\$6,830,763	\$9,827,475	\$12,570,154	\$15,110,546	\$17,432,390	\$19,548,283
Utilities	\$13,349,851	\$25,892,539	\$37,794,941	\$49,045,347	\$59,734,846	\$69,859,246	\$79,439,947
Construction	\$5,692,313	\$11,346,852	\$16,642,574	\$21,755,910	\$26,769,846	\$31,641,945	\$36,351,191
Wood product mfg	\$1,505,585	\$3,033,248	\$4,486,697	\$5,901,046	\$7,269,059	\$8,592,035	\$9,868,099
Nonmetallic mineral prod mfg	\$1,878,919	\$3,692,586	\$5,484,708	\$7,218,392	\$8,892,075	\$10,483,664	\$11,997,341
Primary metal mfg	\$2,340,777	\$4,503,285	\$6,634,046	\$8,651,001	\$10,497,123	\$12,185,017	\$13,677,527
Fabricated metal prod mfg	\$5,079,723	\$10,074,183	\$14,914,795	\$19,599,981	\$24,121,808	\$28,422,803	\$32,532,818
Machinery mfg	\$9,094,655	\$17,686,960	\$25,801,668	\$33,225,935	\$39,789,916	\$45,300,937	\$49,768,462
Computer, electronic prod mfg	\$12,264,246	\$31,109,876	\$56,104,564	\$88,338,031	\$128,185,266	\$176,315,945	\$234,005,688
Electrical equip, appliance mfg	\$1,140,140	\$2,338,102	\$3,524,291	\$4,686,196	\$5,796,579	\$6,835,081	\$7,780,330
Motor vehicle mfg	\$10,883,750	\$21,595,552	\$32,784,496	\$44,069,378	\$55,443,692	\$66,696,845	\$78,060,885
Transp equip mfg. exc. motor veh	\$1,534,404	\$3,141,609	\$4,925,172	\$6,836,752	\$8,900,797	\$11,113,059	\$13,460,101
Furniture, related prod mfg	\$525,411	\$1,073,499	\$1,594,906	\$2,083,577	\$2,533,437	\$2,911,962	\$3,237,192
Miscellaneous mfg	\$1,502,313	\$3,037,000	\$4,700,480	\$6,435,153	\$8,245,967	\$10,104,690	\$12,022,840
Food mfg	\$14,832,150	\$29,404,255	\$43,858,135	\$58,088,680	\$72,283,666	\$86,297,426	\$100,088,284
Beverage, tobacco prod mfg	\$2,997,265	\$5,858,723	\$8,559,050	\$11,134,363	\$13,600,757	\$15,958,766	\$18,209,748
Textile mills	\$33,582	\$66,787	\$93,473	\$124,373	\$144,255	\$159,550	\$185,399
Textile prod mills	\$415,994	\$870,963	\$1,328,860	\$1,797,711	\$2,269,483	\$2,730,570	\$3,206,850
Apparel mfg	\$523,283	\$1,059,737	\$1,588,985	\$2,109,875	\$2,627,027	\$3,133,692	\$3,621,850
Leather, allied prod mfg	\$81,341	\$159,213	\$239,972	\$321,393	\$404,371	\$488,403	\$572,546
Paper mfg	\$2,597,742	\$5,074,881	\$7,399,027	\$9,586,520	\$11,655,545	\$13,578,885	\$15,385,797
Printing, rel supp act	\$597,899	\$1,177,370	\$1,732,632	\$2,269,424	\$2,776,643	\$3,260,293	\$3,723,682
Petroleum, coal prod mfg	\$32,694,939	\$64,623,525	\$96,228,481	\$127,303,801	\$158,023,594	\$188,260,043	\$217,990,590
Chemical mfg	\$2,771,216	\$5,499,934	\$8,200,889	\$10,866,768	\$13,489,043	\$16,040,859	\$18,557,477

Plastics, rubber prod mfg	\$9,833,933	\$20,417,455	\$31,398,083	\$42,834,858	\$54,662,291	\$66,922,056	\$79,513,269
Wholesale trade	\$13,399,287	\$28,759,606	\$45,702,264	\$64,363,555	\$84,815,941	\$107,030,059	\$131,168,956
Retail trade	\$15,929,680	\$33,428,924	\$51,860,312	\$71,464,677	\$92,317,804	\$114,342,857	\$137,659,817
Air transportation	\$5,478,175	\$11,426,488	\$18,021,744	\$25,225,422	\$33,097,636	\$41,630,507	\$50,913,014
Rail transportation	\$465,724	\$965,911	\$1,486,930	\$2,035,596	\$2,610,317	\$3,209,329	\$3,826,644
Water transportation	\$2,326	\$4,490	\$6,547	\$8,481	\$10,330	\$12,078	\$13,708
Truck transp; Couriers, msngrs	\$5,000,205	\$10,208,617	\$15,515,603	\$20,932,492	\$26,476,143	\$32,098,866	\$37,806,052
Transit, ground pass transp	\$67,039	\$130,866	\$196,180	\$256,989	\$316,534	\$379,992	\$436,052
Pipeline transportation	\$2,476,823	\$4,708,226	\$6,734,587	\$8,551,610	\$10,201,136	\$11,682,919	\$12,991,003
Scenic, sightseeing transp; supp	\$413,734	\$861,106	\$1,345,317	\$1,866,412	\$2,425,440	\$3,024,830	\$3,666,955
Warehousing, storage	\$156,365	\$320,401	\$490,789	\$666,945	\$850,964	\$1,040,881	\$1,238,923
Publishing, exc Internet	\$2,306,987	\$4,869,872	\$7,677,509	\$10,732,966	\$14,030,686	\$17,546,531	\$21,329,558
Motion picture, sound rec	\$115,148	\$238,152	\$362,525	\$489,620	\$621,014	\$755,261	\$890,782
Internet serv, data proc, other	\$1,233,718	\$2,668,989	\$4,332,328	\$6,219,639	\$8,344,740	\$10,713,660	\$13,343,388
Broadcasting, exc Int; Telecomm	\$16,394,388	\$33,832,754	\$52,405,278	\$72,018,394	\$92,806,245	\$114,626,546	\$137,595,734
Monetary authorities, et al.	\$9,273,556	\$18,780,232	\$28,657,786	\$38,858,855	\$49,444,954	\$60,351,531	\$71,619,380
Sec, comm contracts, inv	\$825,748	\$1,734,003	\$2,737,899	\$3,821,234	\$4,992,655	\$6,237,366	\$7,561,856
Ins carriers, rel act	\$3,608,190	\$7,074,516	\$10,486,713	\$13,819,838	\$17,093,843	\$20,291,487	\$23,413,644
Real estate	\$93,323,103	\$184,847,376	\$275,004,049	\$363,795,113	\$451,785,291	\$538,504,568	\$623,987,544
Rental, leasing services	\$24,330,063	\$51,347,614	\$81,923,839	\$115,591,767	\$152,423,103	\$192,255,590	\$235,333,871
Prof, tech services	\$6,524,229	\$13,169,034	\$20,037,617	\$27,067,356	\$34,283,269	\$41,627,282	\$49,109,041
Mgmnt of companies, enterprises	\$2,828,200	\$5,908,655	\$9,220,891	\$12,770,256	\$16,570,957	\$20,605,177	\$24,896,914
Administrative, support services	\$4,561,975	\$9,223,847	\$14,030,214	\$18,959,256	\$24,045,347	\$29,249,708	\$34,592,180
Waste mgmnt, remed services	\$562,047	\$1,091,946	\$1,606,709	\$2,100,474	\$2,576,010	\$3,039,696	\$3,490,111
Educational services	\$513,113	\$998,379	\$1,468,136	\$1,922,927	\$2,362,840	\$2,786,988	\$3,201,190
Ambulatory health care services	\$5,413,764	\$10,696,199	\$16,061,874	\$21,438,155	\$26,852,993	\$32,280,945	\$37,757,336
Hospitals	\$3,142,610	\$6,271,895	\$9,511,315	\$12,811,749	\$16,188,021	\$19,622,290	\$23,130,011
Nursing, residential care facilities	\$739,619	\$1,424,954	\$2,084,447	\$2,712,629	\$3,315,042	\$3,886,334	\$4,427,642
Social assistance	\$673,484	\$1,317,056	\$1,947,293	\$2,559,673	\$3,159,370	\$3,742,146	\$4,313,647
Performing arts, spectator sports	\$139,264	\$278,225	\$416,636	\$553,931	\$692,152	\$829,786	\$965,358

Museums et al.	\$32,643	\$65,037	\$97,808	\$127,130	\$159,566	\$192,101	\$224,359
Amusement, gambling, recreation	\$1,209,177	\$2,430,101	\$3,681,049	\$4,953,542	\$6,268,074	\$7,597,658	\$8,967,234
Accommodation	\$499,401	\$996,136	\$1,490,936	\$1,985,090	\$2,478,920	\$2,975,233	\$3,464,738
Food services, drinking places	\$4,535,871	\$8,870,921	\$13,009,218	\$16,967,202	\$20,793,178	\$24,461,174	\$27,970,860
Repair, maintenance	\$2,434,724	\$4,787,559	\$7,092,990	\$9,340,225	\$11,541,594	\$13,680,279	\$15,766,207
Personal, laundry services	\$1,608,678	\$3,244,876	\$4,949,107	\$6,708,796	\$8,541,019	\$10,421,541	\$12,367,504
Membership assoc, organ	\$1,031,143	\$2,042,024	\$3,050,937	\$4,054,431	\$5,062,809	\$6,064,623	\$7,063,638
Private households	\$64,834	\$124,699	\$181,236	\$232,312	\$282,010	\$326,239	\$366,446

Industry Sector	2015	2016	2017	2018	2019	2020	2021
Forestry et al.	\$3,314,947	\$3,721,133	\$4,088,499	\$4,456,455	\$4,857,185	\$5,218,521	\$5,618,544
Agriculture	\$155,762	\$172,429	\$190,899	\$207,078	\$225,471	\$243,980	\$259,409
Oil, gas extraction	\$246,145,508	\$271,796,986	\$296,716,685	\$321,194,775	\$345,146,622	\$368,823,461	\$392,197,049
Mining (except oil, gas)	\$4,311,901	\$4,855,353	\$5,384,731	\$5,922,037	\$6,456,268	\$6,994,724	\$7,531,266
Support activities for mining	\$22,073,414	\$24,531,772	\$26,927,014	\$29,273,777	\$31,570,985	\$33,822,684	\$36,026,110
Utilities	\$90,238,837	\$100,912,709	\$111,448,292	\$121,843,751	\$132,107,363	\$142,253,434	\$152,271,381
Construction	\$40,829,482	\$45,236,628	\$49,558,316	\$53,776,217	\$57,883,075	\$61,878,986	\$65,763,187
Wood product mfg	\$11,291,537	\$12,719,952	\$14,143,343	\$15,575,890	\$17,020,938	\$18,462,727	\$19,901,738
Nonmetallic mineral prod mfg	\$13,766,050	\$15,530,210	\$17,325,227	\$19,124,412	\$20,935,230	\$22,756,049	\$24,592,363
Primary metal mfg	\$15,957,936	\$18,299,408	\$20,722,312	\$23,216,437	\$25,773,460	\$28,422,009	\$31,113,836
Fabricated metal prod mfg	\$37,547,318	\$42,635,049	\$47,808,533	\$53,048,697	\$58,375,944	\$63,773,484	\$69,238,400
Machinery mfg	\$58,509,964	\$67,608,893	\$77,049,272	\$86,836,810	\$96,938,823	\$107,327,782	\$117,975,537
Computer, electronic prod mfg	\$274,800,552	\$317,189,582	\$361,103,008	\$406,605,785	\$453,513,466	\$501,727,710	\$551,100,864
Electrical equip, appliance mfg	\$9,145,776	\$10,565,150	\$12,039,874	\$13,559,218	\$15,131,678	\$16,774,700	\$18,452,116
Motor vehicle mfg	\$90,443,030	\$103,086,387	\$116,019,799	\$129,190,693	\$142,653,626	\$156,331,253	\$170,235,853
Transp equip mfg. exc. motor veh	\$15,421,765	\$17,374,103	\$19,347,787	\$21,316,225	\$23,310,246	\$25,293,884	\$27,292,345
Furniture, related prod mfg	\$3,853,042	\$4,503,517	\$5,189,173	\$5,898,368	\$6,653,459	\$7,425,049	\$8,244,303
Miscellaneous mfg	\$13,899,420	\$15,806,562	\$17,748,281	\$19,710,573	\$21,706,180	\$23,740,610	\$25,791,474
Food mfg	\$112,626,843	\$124,758,185	\$136,524,977	\$147,933,944	\$159,039,424	\$169,799,544	\$180,286,430
Beverage, tobacco prod mfg	\$20,492,897	\$22,671,718	\$24,775,426	\$26,784,475	\$28,721,120	\$30,592,685	\$32,402,288

Textile mills	\$205,888	\$225,034	\$263,236	\$282,063	\$322,867	\$341,245	\$358,655
Textile prod mills	\$3,698,219	\$4,191,831	\$4,714,852	\$5,254,156	\$5,768,744	\$6,324,134	\$6,851,307
Apparel mfg	\$4,044,706	\$4,445,528	\$4,853,530	\$5,200,670	\$5,558,157	\$5,874,540	\$6,207,997
Leather, allied prod mfg	\$635,820	\$694,945	\$750,389	\$804,059	\$854,633	\$903,281	\$949,366
Paper mfg	\$17,606,204	\$19,828,594	\$22,060,429	\$24,295,954	\$26,523,196	\$28,771,810	\$31,016,291
Printing, rel supp act	\$4,259,429	\$4,801,006	\$5,341,124	\$5,880,245	\$6,417,091	\$6,958,859	\$7,499,396
Petroleum, coal prod mfg	\$248,303,349	\$278,334,314	\$308,110,262	\$337,772,317	\$367,122,339	\$396,312,362	\$425,343,577
Chemical mfg	\$21,158,580	\$23,727,587	\$26,311,903	\$28,867,234	\$31,422,577	\$33,967,742	\$36,522,390
Plastics, rubber prod mfg	\$91,623,321	\$103,861,297	\$116,254,610	\$128,821,286	\$141,522,449	\$154,354,678	\$167,338,035
Wholesale trade	\$151,027,870	\$171,104,085	\$191,395,135	\$211,896,754	\$232,578,312	\$253,436,277	\$274,445,840
Retail trade	\$157,806,214	\$178,101,853	\$198,470,266	\$218,892,024	\$239,354,995	\$259,906,872	\$280,519,035
Air transportation	\$58,302,547	\$65,701,844	\$73,115,503	\$80,535,331	\$87,949,820	\$95,372,852	\$102,778,784
Rail transportation	\$4,375,092	\$4,929,725	\$5,482,598	\$6,033,507	\$6,594,751	\$7,148,509	\$7,700,695
Water transportation	\$15,223	\$16,639	\$17,966	\$19,251	\$20,462	\$21,627	\$22,730
Truck transp; Couriers, msngrs	\$43,341,851	\$48,891,068	\$54,469,140	\$60,068,544	\$65,700,293	\$71,338,857	\$77,005,854
Transit, ground pass transp	\$498,696	\$560,870	\$614,146	\$676,352	\$738,323	\$790,618	\$852,538
Pipeline transportation	\$14,793,012	\$16,569,041	\$18,323,275	\$20,097,084	\$21,830,123	\$23,568,398	\$25,291,796
Scenic, sightseeing transp; supp	\$4,202,760	\$4,743,076	\$5,282,904	\$5,825,859	\$6,376,145	\$6,915,736	\$7,463,519
Warehousing, storage	\$1,419,595	\$1,604,743	\$1,790,146	\$1,979,664	\$2,169,529	\$2,362,090	\$2,555,195
Publishing, exc Internet	\$24,785,765	\$28,323,463	\$31,931,376	\$35,623,319	\$39,360,652	\$43,162,477	\$47,005,604
Motion picture, sound rec	\$1,038,686	\$1,200,148	\$1,354,270	\$1,513,681	\$1,688,669	\$1,855,059	\$2,023,556
Internet serv, data proc, other	\$15,226,254	\$17,121,436	\$18,987,054	\$20,861,344	\$22,742,565	\$24,595,627	\$26,460,065
Broadcasting, exc Int; Telecomm	\$157,165,813	\$176,663,756	\$196,103,712	\$215,465,307	\$234,772,401	\$253,983,324	\$273,148,724
Monetary authorities, et al.	\$81,588,914	\$91,521,241	\$101,385,899	\$111,219,248	\$120,994,041	\$130,726,390	\$140,425,105
Sec, comm contracts, inv	\$8,525,419	\$9,476,622	\$10,433,904	\$11,385,015	\$12,330,304	\$13,274,406	\$14,218,986
Ins carriers, rel act	\$26,754,918	\$30,091,727	\$33,426,980	\$36,751,743	\$40,076,547	\$43,396,189	\$46,712,994
Real estate	\$709,507,880	\$794,181,529	\$877,808,772	\$960,248,940	\$1,041,722,536	\$1,122,137,594	\$1,201,685,421
Rental, leasing services	\$268,903,959	\$302,338,612	\$335,780,489	\$369,266,155	\$402,707,887	\$436,163,218	\$469,652,683
Prof, tech services	\$56,192,869	\$63,277,606	\$70,378,479	\$77,491,125	\$84,609,047	\$91,733,633	\$98,859,040
Mgmnt of companies, enterprises	\$28,556,111	\$32,224,885	\$35,901,338	\$39,604,871	\$43,329,114	\$47,057,696	\$50,799,574

Administrative, support services	\$39,518,702	\$44,432,137	\$49,335,191	\$54,229,617	\$59,108,173	\$63,981,951	\$68,841,315
Waste mgmnt, remed services	\$3,972,052	\$4,446,608	\$4,925,267	\$5,399,243	\$5,868,206	\$6,326,532	\$6,793,008
Educational services	\$3,645,727	\$4,088,088	\$4,530,285	\$4,964,304	\$5,398,553	\$5,829,424	\$6,256,718
Ambulatory health care services	\$43,221,143	\$48,698,203	\$54,170,131	\$59,596,365	\$65,001,482	\$70,391,766	\$75,759,627
Hospitals	\$26,450,436	\$29,789,405	\$33,108,689	\$36,406,885	\$39,685,487	\$42,956,760	\$46,203,755
Nursing, residential care facilities	\$5,061,569	\$5,694,476	\$6,323,951	\$6,944,704	\$7,565,671	\$8,185,556	\$8,796,384
Social assistance	\$4,910,564	\$5,503,454	\$6,094,895	\$6,677,202	\$7,252,776	\$7,823,740	\$8,389,092
Performing arts, spectator sports	\$1,106,848	\$1,240,211	\$1,372,018	\$1,505,362	\$1,637,476	\$1,770,243	\$1,902,137
Museums et al.	\$255,382	\$285,939	\$316,102	\$346,588	\$376,760	\$407,055	\$437,123
Amusement, gambling, recreation	\$10,201,349	\$11,426,347	\$12,636,354	\$13,847,597	\$15,032,309	\$16,205,742	\$17,366,527
Accommodation	\$3,942,639	\$4,420,526	\$4,885,320	\$5,346,294	\$5,810,266	\$6,266,326	\$6,717,754
Food services, drinking places	\$31,445,654	\$34,812,467	\$38,067,769	\$41,203,793	\$44,225,194	\$47,156,423	\$49,986,669
Repair, maintenance	\$17,920,079	\$20,046,977	\$22,166,681	\$24,247,723	\$26,312,823	\$28,353,459	\$30,385,222
Personal, laundry services	\$14,075,303	\$15,768,228	\$17,453,102	\$19,106,535	\$20,752,814	\$22,374,556	\$23,979,016
Membership assoc, organ	\$8,043,652	\$9,019,484	\$9,985,081	\$10,945,666	\$11,889,962	\$12,830,720	\$13,762,761
Private households	\$415,480	\$463,447	\$507,138	\$554,207	\$596,716	\$638,768	\$679,856

Industry Sector	2022	2023	2024	2025	2026	2027	2028
Forestry et al.	\$5,970,924	\$6,366,168	\$6,709,932	\$7,050,345	\$7,441,438	\$7,777,842	\$8,162,745
Agriculture	\$277,610	\$295,707	\$310,361	\$328,260	\$346,148	\$364,058	\$377,875
Oil, gas extraction	\$415,420,914	\$438,517,820	\$461,609,965	\$484,763,520	\$508,064,096	\$531,606,032	\$555,413,669
Mining (except oil, gas)	\$8,066,507	\$8,599,321	\$9,147,596	\$9,679,712	\$10,211,831	\$10,744,849	\$11,289,175
Support activities for mining	\$38,197,185	\$40,324,121	\$42,413,835	\$44,487,347	\$46,535,265	\$48,575,136	\$50,606,753
Utilities	\$162,207,182	\$172,019,871	\$181,734,042	\$191,357,657	\$200,888,783	\$210,377,812	\$219,821,092
Construction	\$69,556,354	\$73,265,314	\$76,904,936	\$80,472,375	\$84,004,349	\$87,489,787	\$90,935,646
Wood product mfg	\$21,360,217	\$22,794,297	\$24,271,218	\$25,730,164	\$27,192,182	\$28,659,468	\$30,133,915
Nonmetallic mineral prod mfg	\$26,432,818	\$28,303,756	\$30,163,468	\$32,048,064	\$33,941,129	\$35,845,116	\$37,784,289
Primary metal mfg	\$33,872,076	\$36,691,527	\$39,575,691	\$42,476,604	\$45,416,488	\$48,367,743	\$51,345,947
Fabricated metal prod mfg	\$74,760,374	\$80,343,739	\$85,980,004	\$91,647,276	\$97,339,330	\$103,060,348	\$108,820,271
Machinery mfg	\$128,880,894	\$139,996,949	\$151,268,224	\$162,645,009	\$174,062,758	\$185,493,175	\$196,918,489

Computer, electronic prod mfg	\$601,628,652	\$653,097,480	\$705,438,878	\$758,364,478	\$811,688,047	\$865,205,604	\$919,009,575
Electrical equip, appliance mfg	\$20,185,673	\$21,948,558	\$23,740,518	\$25,589,607	\$27,469,157	\$29,379,711	\$31,295,321
Motor vehicle mfg	\$184,348,913	\$198,639,084	\$213,089,755	\$227,663,623	\$242,238,029	\$256,849,071	\$271,531,334
Transp equip mfg. exc. motor veh	\$29,291,476	\$31,306,069	\$33,321,383	\$35,322,336	\$37,348,783	\$39,361,582	\$41,371,778
Furniture, related prod mfg	\$9,070,808	\$9,944,758	\$10,822,439	\$11,734,967	\$12,682,552	\$13,632,393	\$14,605,909
Miscellaneous mfg	\$27,881,638	\$29,984,978	\$32,127,531	\$34,291,114	\$36,473,884	\$38,677,860	\$40,897,821
Food mfg	\$190,476,922	\$200,358,135	\$209,998,404	\$219,381,411	\$228,544,668	\$237,479,576	\$246,262,395
Beverage, tobacco prod mfg	\$34,156,672	\$35,820,900	\$37,433,704	\$39,005,045	\$40,536,968	\$42,035,434	\$43,468,788
Textile mills	\$401,993	\$418,788	\$434,764	\$480,056	\$495,671	\$542,595	\$557,500
Textile prod mills	\$7,416,841	\$7,986,736	\$8,522,810	\$9,101,973	\$9,686,564	\$10,277,099	\$10,864,847
Apparel mfg	\$6,494,262	\$6,802,350	\$7,100,024	\$7,389,221	\$7,670,366	\$7,944,623	\$8,249,241
Leather, allied prod mfg	\$993,143	\$1,034,635	\$1,074,105	\$1,111,878	\$1,148,043	\$1,203,922	\$1,236,993
Paper mfg	\$33,258,881	\$35,519,563	\$37,753,179	\$40,017,047	\$42,285,340	\$44,561,489	\$46,838,129
Printing, rel supp act	\$8,039,262	\$8,577,286	\$9,114,370	\$9,667,658	\$10,206,430	\$10,746,541	\$11,279,204
Petroleum, coal prod mfg	\$454,275,087	\$482,961,098	\$511,463,119	\$539,993,517	\$568,444,678	\$596,871,215	\$625,405,019
Chemical mfg	\$39,066,028	\$41,593,552	\$44,139,865	\$46,685,408	\$49,229,535	\$51,776,641	\$54,352,486
Plastics, rubber prod mfg	\$180,459,561	\$193,693,823	\$207,028,509	\$220,463,490	\$233,989,121	\$247,583,767	\$261,299,737
Wholesale trade	\$295,609,110	\$316,900,427	\$338,292,487	\$359,776,901	\$381,292,481	\$402,857,565	\$424,495,200
Retail trade	\$301,174,933	\$321,955,514	\$342,829,021	\$363,778,419	\$384,827,865	\$406,027,872	\$427,320,595
Air transportation	\$110,199,458	\$117,596,719	\$124,982,805	\$132,352,820	\$139,729,378	\$147,095,543	\$154,476,428
Rail transportation	\$8,266,992	\$8,816,680	\$9,381,445	\$9,930,917	\$10,480,637	\$11,049,474	\$11,592,984
Water transportation	\$23,778	\$24,772	\$25,717	\$26,621	\$54,974	\$56,638	\$58,194
Truck transp; Couriers, msngrs	\$82,694,125	\$88,392,845	\$94,094,454	\$99,814,845	\$105,551,339	\$111,292,458	\$117,046,190
Transit, ground pass transp	\$903,140	\$964,393	\$1,013,393	\$1,074,309	\$1,122,302	\$1,183,170	\$1,243,301
Pipeline transportation	\$27,003,024	\$28,698,893	\$30,412,587	\$32,092,204	\$33,766,012	\$35,469,776	\$37,144,333
Scenic, sightseeing transp; supp	\$8,011,610	\$8,558,772	\$9,105,837	\$9,654,369	\$10,204,130	\$10,744,374	\$11,289,068
Warehousing, storage	\$2,748,958	\$2,942,915	\$3,137,313	\$3,332,658	\$3,528,839	\$3,726,116	\$3,921,396
Publishing, exc Internet	\$50,912,382	\$54,851,312	\$58,824,860	\$62,815,403	\$66,816,856	\$70,803,533	\$74,821,497
Motion picture, sound rec	\$2,209,576	\$2,382,374	\$2,573,526	\$2,750,522	\$2,947,156	\$3,128,394	\$3,327,777
Internet serv, data proc, other	\$28,317,883	\$30,165,277	\$32,031,262	\$33,871,606	\$35,710,472	\$37,551,078	\$39,391,824

Broadcasting, exc Int; Telecomm	\$292,205,380	\$311,211,574	\$330,106,777	\$348,949,023	\$367,730,643	\$386,443,390	\$405,123,455
Monetary authorities, et al.	\$150,069,185	\$159,661,104	\$169,223,025	\$178,767,056	\$188,315,146	\$197,838,717	\$207,300,010
Sec, comm contracts, inv	\$15,167,621	\$16,106,501	\$17,052,198	\$17,994,761	\$18,934,119	\$19,872,127	\$20,809,099
Ins carriers, rel act	\$50,032,519	\$53,349,350	\$56,670,790	\$59,981,830	\$63,307,584	\$66,626,456	\$69,955,621
Real estate	\$1,280,210,574	\$1,357,994,622	\$1,434,912,242	\$1,511,011,361	\$1,586,386,557	\$1,661,183,766	\$1,735,358,332
Rental, leasing services	\$503,122,278	\$536,569,403	\$570,066,542	\$603,664,544	\$637,223,965	\$670,862,038	\$704,600,180
Prof, tech services	\$105,995,413	\$113,119,486	\$120,233,498	\$127,347,608	\$134,446,662	\$141,516,254	\$148,570,174
Mgmnt of companies, enterprises	\$54,559,984	\$58,332,279	\$62,107,425	\$65,895,848	\$69,695,722	\$73,494,485	\$77,285,376
Administrative, support services	\$73,693,531	\$78,529,795	\$83,360,126	\$88,180,288	\$92,998,607	\$97,801,377	\$102,608,728
Waste mgmnt, remed services	\$7,256,574	\$7,716,345	\$8,173,294	\$8,629,015	\$9,083,457	\$9,537,493	\$9,983,436
Educational services	\$6,675,189	\$7,095,609	\$7,513,241	\$7,929,565	\$8,344,543	\$8,758,989	\$9,165,855
Ambulatory health care services	\$81,078,147	\$86,401,488	\$91,725,546	\$97,022,451	\$102,326,508	\$107,657,625	\$112,970,644
Hospitals	\$49,429,355	\$52,644,561	\$55,856,619	\$59,056,895	\$62,264,390	\$65,474,999	\$68,679,469
Nursing, residential care facilities	\$9,404,116	\$10,007,558	\$10,614,352	\$11,220,550	\$11,819,149	\$12,424,765	\$13,027,939
Social assistance	\$8,949,781	\$9,504,800	\$10,047,899	\$10,595,881	\$11,141,492	\$11,685,854	\$12,228,109
Performing arts, spectator sports	\$2,033,343	\$2,163,603	\$2,293,182	\$2,422,519	\$2,551,593	\$2,680,643	\$2,807,502
Museums et al.	\$467,010	\$496,656	\$526,126	\$555,520	\$584,836	\$614,130	\$631,000
Amusement, gambling, recreation	\$18,531,899	\$19,670,096	\$20,798,343	\$21,920,885	\$23,055,316	\$24,169,413	\$25,279,452
Accommodation	\$7,165,319	\$7,608,224	\$8,036,034	\$8,472,900	\$8,907,780	\$9,328,951	\$9,753,833
Food services, drinking places	\$52,713,375	\$55,366,529	\$57,922,788	\$60,406,994	\$62,820,815	\$65,172,107	\$67,451,251
Repair, maintenance	\$32,383,209	\$34,373,853	\$36,363,794	\$38,327,920	\$40,264,538	\$42,212,621	\$44,140,011
Personal, laundry services	\$25,569,005	\$27,141,723	\$28,700,891	\$30,252,353	\$31,796,146	\$33,335,524	\$34,863,581
Membership assoc, organ	\$14,680,527	\$15,596,190	\$16,505,040	\$17,402,446	\$18,303,963	\$19,195,326	\$20,077,747
Private households	\$720,096	\$759,441	\$798,028	\$836,045	\$873,515	\$910,549	\$946,440

Industry Sector	2029	2030	2031	2032	2033	2034	2035
Forestry et al.	\$8,541,209	\$8,861,431	\$9,232,747	\$9,596,123	\$9,950,860	\$10,361,912	\$10,707,636
Agriculture	\$395,094	\$412,375	\$429,295	\$445,833	\$461,956	\$477,694	\$493,334
Oil, gas extraction	\$579,450,839	\$603,948,715	\$628,858,625	\$654,057,769	\$679,645,243	\$705,652,681	\$732,640,125
Mining (except oil, gas)	\$11,825,234	\$12,364,142	\$12,893,190	\$13,432,500	\$13,982,121	\$14,522,121	\$15,060,980

Support activities for mining	\$52,642,336	\$54,686,277	\$56,723,675	\$58,782,478	\$60,850,163	\$62,948,072	\$65,047,718
Utilities	\$229,243,286	\$238,638,969	\$248,044,212	\$257,427,177	\$266,819,336	\$276,250,069	\$285,671,190
Construction	\$94,341,455	\$97,714,380	\$101,035,821	\$104,375,636	\$107,736,884	\$111,177,195	\$114,616,272
Wood product mfg	\$31,639,599	\$33,129,707	\$34,622,736	\$36,145,650	\$37,669,927	\$39,198,405	\$40,725,942
Nonmetallic mineral prod mfg	\$39,720,468	\$41,672,853	\$43,656,020	\$45,630,561	\$47,633,041	\$49,667,931	\$51,704,585
Primary metal mfg	\$54,343,924	\$57,349,685	\$60,332,569	\$63,318,961	\$66,303,194	\$69,220,399	\$72,245,424
Fabricated metal prod mfg	\$114,588,131	\$120,349,800	\$126,123,021	\$131,880,679	\$137,613,041	\$143,327,798	\$149,110,357
Machinery mfg	\$208,279,017	\$219,525,537	\$230,624,870	\$241,502,461	\$252,126,706	\$262,474,786	\$272,973,476
Computer, electronic prod mfg	\$972,949,553	\$1,026,666,176	\$1,080,182,178	\$1,133,287,907	\$1,185,856,790	\$1,237,917,334	\$1,290,631,124
Electrical equip, appliance mfg	\$33,267,834	\$35,241,268	\$37,236,802	\$39,282,643	\$41,313,551	\$43,361,444	\$45,451,564
Motor vehicle mfg	\$286,175,660	\$300,735,436	\$315,241,085	\$329,631,638	\$343,836,795	\$357,912,277	\$372,153,803
Transp equip mfg. exc. motor veh	\$43,398,932	\$45,415,705	\$47,446,479	\$49,441,439	\$51,446,698	\$53,441,537	\$55,458,326
Furniture, related prod mfg	\$15,583,004	\$16,595,577	\$17,626,852	\$18,656,093	\$19,719,477	\$20,778,759	\$21,865,196
Miscellaneous mfg	\$43,157,467	\$45,413,441	\$47,675,210	\$49,970,167	\$52,265,477	\$54,563,802	\$56,865,960
Food mfg	\$254,855,341	\$263,325,407	\$271,610,955	\$279,802,118	\$287,820,678	\$295,745,174	\$303,467,760
Beverage, tobacco prod mfg	\$44,875,975	\$46,221,546	\$47,585,310	\$48,929,207	\$50,210,437	\$51,524,125	\$52,770,097
Textile mills	\$604,971	\$619,171	\$667,426	\$680,181	\$728,260	\$739,503	\$787,707
Textile prod mills	\$11,492,744	\$12,128,640	\$12,712,969	\$13,384,603	\$14,001,769	\$14,660,689	\$15,321,886
Apparel mfg	\$8,542,879	\$8,879,298	\$9,206,350	\$9,570,873	\$9,974,812	\$10,372,276	\$10,818,680
Leather, allied prod mfg	\$1,289,991	\$1,343,032	\$1,394,754	\$1,468,788	\$1,542,174	\$1,614,917	\$1,687,917
Paper mfg	\$49,111,399	\$51,398,802	\$53,678,660	\$55,981,111	\$58,272,314	\$60,556,397	\$62,870,143
Printing, rel supp act	\$11,820,397	\$12,364,700	\$12,899,384	\$13,442,137	\$13,974,024	\$14,514,846	\$15,054,561
Petroleum, coal prod mfg	\$653,897,462	\$682,619,846	\$711,407,917	\$740,260,531	\$769,157,478	\$798,310,558	\$827,525,190
Chemical mfg	\$56,955,691	\$59,538,077	\$62,145,092	\$64,777,116	\$67,432,726	\$70,080,343	\$72,762,522
Plastics, rubber prod mfg	\$275,114,651	\$288,982,751	\$302,959,640	\$316,954,078	\$330,986,461	\$345,078,860	\$359,225,133
Wholesale trade	\$446,141,927	\$467,797,749	\$489,480,821	\$511,148,950	\$532,822,649	\$554,514,796	\$576,352,758
Retail trade	\$448,691,340	\$470,220,644	\$491,948,107	\$513,967,436	\$536,385,703	\$559,217,510	\$582,191,720
Air transportation	\$161,861,780	\$169,257,478	\$176,645,669	\$184,054,833	\$191,445,679	\$198,833,660	\$206,205,866
Rail transportation	\$12,165,022	\$12,721,634	\$13,287,971	\$13,844,179	\$14,409,592	\$14,965,055	\$15,519,313
Water transportation	\$59,641	\$61,041	\$62,335	\$63,526	\$64,616	\$65,613	\$66,562

Truck transp; Couriers, msngrs	\$122,823,935	\$128,620,283	\$134,431,236	\$140,253,700	\$146,058,671	\$151,902,371	\$157,740,030
Transit, ground pass transp	\$1,288,372	\$1,347,592	\$1,405,760	\$1,447,704	\$1,503,213	\$1,557,570	\$1,611,697
Pipeline transportation	\$38,819,688	\$40,535,242	\$42,216,155	\$43,932,867	\$45,611,974	\$47,331,139	\$49,045,359
Scenic, sightseeing transp; supp	\$11,837,693	\$12,389,758	\$12,945,215	\$13,490,956	\$14,052,218	\$14,604,101	\$15,155,104
Warehousing, storage	\$4,123,656	\$4,317,913	\$4,518,954	\$4,716,894	\$4,921,612	\$5,123,314	\$5,314,321
Publishing, exc Internet	\$78,806,418	\$82,772,526	\$86,748,021	\$90,668,725	\$94,587,022	\$98,446,801	\$102,368,078
Motion picture, sound rec	\$3,526,788	\$3,728,562	\$3,929,137	\$4,128,065	\$4,345,830	\$4,562,147	\$4,779,511
Internet serv, data proc, other	\$41,230,233	\$43,077,081	\$44,919,143	\$46,755,568	\$48,584,405	\$50,409,733	\$52,229,623
Broadcasting, exc Int; Telecomm	\$423,785,683	\$442,398,804	\$460,967,621	\$479,572,733	\$498,113,576	\$516,634,046	\$535,138,383
Monetary authorities, et al.	\$216,734,016	\$226,148,987	\$235,496,756	\$244,854,030	\$254,214,802	\$263,604,058	\$272,903,328
Sec, comm contracts, inv	\$21,744,013	\$22,681,682	\$23,616,416	\$24,548,014	\$25,475,682	\$26,401,767	\$27,324,103
Ins carriers, rel act	\$73,290,886	\$76,644,443	\$79,999,811	\$83,355,537	\$86,691,995	\$90,015,675	\$93,281,643
Real estate	\$1,808,822,091	\$1,881,623,921	\$1,954,176,643	\$2,026,927,103	\$2,099,867,244	\$2,173,094,645	\$2,245,478,012
Rental, leasing services	\$738,466,625	\$772,455,451	\$806,605,440	\$840,753,196	\$875,019,319	\$909,401,566	\$943,892,387
Prof, tech services	\$155,596,510	\$162,595,390	\$169,538,591	\$176,447,009	\$183,299,188	\$190,109,373	\$196,924,588
Mgmnt of companies, enterprises	\$81,098,752	\$84,919,015	\$88,756,014	\$92,567,866	\$96,410,083	\$100,229,298	\$104,064,536
Administrative, support services	\$107,414,433	\$112,207,416	\$117,003,164	\$121,800,467	\$126,582,576	\$131,360,239	\$136,111,467
Waste mgmnt, remed services	\$10,437,328	\$10,892,794	\$11,338,700	\$11,774,442	\$12,236,351	\$12,670,357	\$13,121,377
Educational services	\$9,571,557	\$9,978,186	\$10,383,322	\$10,779,021	\$11,188,640	\$11,589,566	\$11,988,678
Ambulatory health care services	\$118,298,334	\$123,642,126	\$129,016,345	\$134,387,343	\$139,704,305	\$144,942,382	\$149,919,568
Hospitals	\$71,884,249	\$75,103,718	\$78,331,440	\$81,554,893	\$84,746,465	\$87,887,508	\$90,879,635
Nursing, residential care facilities	\$13,627,703	\$14,229,870	\$14,835,456	\$15,436,587	\$16,040,584	\$16,624,467	\$17,197,693
Social assistance	\$12,758,898	\$13,290,434	\$13,818,329	\$14,342,495	\$14,862,505	\$15,389,366	\$15,913,652
Performing arts, spectator sports	\$2,931,855	\$3,056,495	\$3,178,311	\$3,297,148	\$3,427,571	\$3,555,493	\$3,667,789
Museums et al.	\$658,891	\$686,844	\$714,159	\$753,800	\$779,949	\$805,412	\$830,678
Amusement, gambling, recreation	\$26,365,205	\$27,471,457	\$28,551,683	\$29,624,873	\$30,710,893	\$31,792,755	\$32,869,099
Accommodation	\$10,182,457	\$10,598,317	\$11,017,536	\$11,440,466	\$11,852,722	\$12,269,681	\$12,684,494
Food services, drinking places	\$69,657,239	\$71,790,726	\$73,880,170	\$75,929,462	\$77,970,653	\$79,970,484	\$81,888,105
Repair, maintenance	\$46,062,809	\$47,988,622	\$49,908,791	\$51,823,377	\$53,731,151	\$55,658,578	\$57,577,352
Personal, laundry services	\$36,357,996	\$37,874,371	\$39,354,468	\$40,839,663	\$42,307,785	\$43,807,199	\$45,276,679

Membership assoc, organ	\$20,958,677	\$21,832,188	\$22,703,318	\$23,562,669	\$24,438,075	\$25,303,628	\$26,155,019
Private households	\$981,122	\$1,015,560	\$1,048,746	\$1,086,600	\$1,123,356	\$1,159,096	\$1,194,523

Industry Sector	2036	2037	2038	2039	2040	2041	2042
Forestry et al.	\$11,104,255	\$11,430,579	\$11,820,210	\$12,206,967	\$12,521,506	\$12,888,029	\$13,249,734
Agriculture	\$508,266	\$522,963	\$537,461	\$556,324	\$570,453	\$583,791	\$601,529
Oil, gas extraction	\$760,260,234	\$788,829,251	\$818,532,283	\$849,397,822	\$881,526,902	\$914,699,816	\$949,298,186
Mining (except oil, gas)	\$15,602,069	\$16,137,927	\$16,692,127	\$17,219,451	\$17,764,715	\$18,287,016	\$18,825,926
Support activities for mining	\$67,139,985	\$69,232,767	\$71,331,375	\$73,436,770	\$75,546,972	\$77,645,265	\$79,757,867
Utilities	\$294,995,127	\$304,275,192	\$313,494,148	\$322,692,560	\$331,820,970	\$340,860,919	\$349,804,507
Construction	\$118,086,758	\$121,604,509	\$125,136,924	\$128,715,921	\$132,339,345	\$136,010,643	\$139,719,389
Wood product mfg	\$42,260,336	\$43,812,005	\$45,384,134	\$46,946,767	\$48,497,652	\$50,079,530	\$51,644,830
Nonmetallic mineral prod mfg	\$53,761,160	\$55,804,285	\$57,879,195	\$59,964,924	\$62,037,313	\$64,141,521	\$66,225,560
Primary metal mfg	\$75,256,024	\$78,356,301	\$81,481,917	\$84,632,438	\$87,840,272	\$91,124,811	\$94,421,349
Fabricated metal prod mfg	\$154,912,197	\$160,741,386	\$166,631,171	\$172,535,438	\$178,470,598	\$184,421,015	\$190,408,141
Machinery mfg	\$283,544,480	\$294,221,336	\$304,997,765	\$315,874,979	\$326,868,596	\$337,970,987	\$349,158,579
Computer, electronic prod mfg	\$1,343,998,761	\$1,397,775,565	\$1,452,044,001	\$1,506,920,573	\$1,562,226,951	\$1,618,167,453	\$1,674,488,504
Electrical equip, appliance mfg	\$47,592,699	\$49,762,848	\$51,930,958	\$54,163,576	\$56,424,885	\$58,725,271	\$61,012,276
Motor vehicle mfg	\$386,533,091	\$401,068,668	\$415,744,293	\$430,606,459	\$445,641,051	\$460,802,098	\$476,092,878
Transp equip mfg. exc. motor veh	\$57,454,953	\$59,432,414	\$61,393,987	\$63,366,450	\$65,320,511	\$67,244,328	\$69,170,839
Furniture, related prod mfg	\$22,992,063	\$24,119,068	\$25,267,579	\$26,437,370	\$27,627,167	\$28,829,515	\$30,047,812
Miscellaneous mfg	\$59,163,785	\$61,479,906	\$63,818,125	\$66,145,569	\$68,458,795	\$70,787,294	\$73,127,287
Food mfg	\$310,921,486	\$318,147,584	\$325,170,513	\$331,949,798	\$338,475,875	\$344,730,935	\$350,762,835
Beverage, tobacco prod mfg	\$54,020,979	\$55,238,921	\$56,381,417	\$57,543,306	\$58,676,788	\$59,723,705	\$60,788,059
Textile mills	\$797,435	\$844,871	\$892,505	\$901,111	\$948,620	\$995,197	\$1,041,652
Textile prod mills	\$16,016,347	\$16,657,653	\$17,348,043	\$18,088,739	\$18,774,893	\$19,491,509	\$20,203,046
Apparel mfg	\$11,302,356	\$11,784,427	\$12,316,423	\$12,899,568	\$13,534,398	\$14,207,683	\$14,932,084
Leather, allied prod mfg	\$1,784,148	\$1,880,599	\$1,977,289	\$2,100,062	\$2,223,292	\$2,344,531	\$2,492,147
Paper mfg	\$65,169,998	\$67,448,951	\$69,779,824	\$72,059,427	\$74,354,023	\$76,659,178	\$78,937,374
Printing, rel supp act	\$15,593,990	\$16,148,021	\$16,678,031	\$17,223,852	\$17,764,851	\$18,303,408	\$18,835,366

Petroleum, coal prod mfg	\$856,626,079	\$885,712,456	\$914,698,729	\$943,732,080	\$972,632,789	\$1,001,451,557	\$1,030,200,089
Chemical mfg	\$75,428,953	\$78,111,029	\$80,774,044	\$83,498,500	\$86,160,146	\$88,875,432	\$91,601,492
Plastics, rubber prod mfg	\$373,408,838	\$387,628,761	\$401,862,953	\$416,154,096	\$430,439,841	\$444,733,857	\$459,021,733
Wholesale trade	\$598,254,444	\$620,250,989	\$642,355,158	\$664,567,992	\$686,892,001	\$709,320,171	\$731,793,376
Retail trade	\$605,400,603	\$628,906,881	\$652,646,177	\$676,663,230	\$701,021,376	\$725,668,006	\$750,609,360
Air transportation	\$213,544,183	\$220,774,684	\$227,978,617	\$235,085,541	\$242,084,656	\$249,015,088	\$255,850,364
Rail transportation	\$16,095,724	\$16,645,554	\$17,212,690	\$17,753,583	\$18,311,352	\$18,867,791	\$19,417,446
Water transportation	\$67,384	\$68,147	\$68,859	\$69,523	\$70,139	\$70,640	\$71,093
Truck transp; Couriers, msngrs	\$163,585,126	\$169,426,956	\$175,251,962	\$181,083,785	\$186,891,087	\$192,704,060	\$198,474,281
Transit, ground pass transp	\$1,663,593	\$1,714,792	\$1,781,751	\$1,831,940	\$1,881,469	\$1,928,434	\$1,974,572
Pipeline transportation	\$50,732,083	\$52,439,113	\$54,091,843	\$55,768,628	\$57,428,120	\$59,092,670	\$60,734,910
Scenic, sightseeing transp; supp	\$15,700,016	\$16,239,674	\$16,774,975	\$17,305,843	\$17,831,539	\$18,362,689	\$18,872,578
Warehousing, storage	\$5,519,828	\$5,723,819	\$5,915,582	\$6,116,942	\$6,327,930	\$6,519,728	\$6,720,527
Publishing, exc Internet	\$106,320,672	\$110,308,675	\$114,339,558	\$118,413,978	\$122,527,861	\$126,690,340	\$130,880,600
Motion picture, sound rec	\$4,991,791	\$5,203,331	\$5,436,693	\$5,669,828	\$5,902,369	\$6,128,106	\$6,352,251
Internet serv, data proc, other	\$54,045,894	\$55,876,507	\$57,691,557	\$59,490,834	\$61,306,693	\$63,077,330	\$64,894,683
Broadcasting, exc Int; Telecomm	\$553,511,129	\$571,771,279	\$589,955,398	\$607,970,614	\$625,935,323	\$643,694,728	\$661,350,928
Monetary authorities, et al.	\$282,144,911	\$291,337,175	\$300,499,401	\$309,603,271	\$318,637,283	\$327,639,673	\$336,576,013
Sec, comm contracts, inv	\$28,227,598	\$29,138,914	\$30,021,884	\$30,895,402	\$31,777,951	\$32,637,712	\$33,484,340
Ins carriers, rel act	\$96,506,290	\$99,678,629	\$102,769,502	\$105,794,630	\$108,748,975	\$111,627,250	\$114,441,983
Real estate	\$2,317,073,814	\$2,388,291,815	\$2,458,844,287	\$2,528,742,056	\$2,597,898,031	\$2,666,360,666	\$2,734,043,229
Rental, leasing services	\$978,388,282	\$1,012,903,161	\$1,047,417,833	\$1,081,932,883	\$1,116,406,790	\$1,150,910,365	\$1,185,355,744
Prof, tech services	\$203,753,517	\$210,579,519	\$217,402,695	\$224,253,062	\$231,109,004	\$237,986,385	\$244,880,028
Mgmnt of companies, enterprises	\$107,914,470	\$111,752,398	\$115,584,912	\$119,433,887	\$123,250,622	\$127,087,830	\$130,880,559
Administrative, support services	\$140,835,821	\$145,535,569	\$150,193,288	\$154,822,056	\$159,415,922	\$163,976,932	\$168,502,807
Waste mgmnt, remed services	\$13,573,870	\$14,001,795	\$14,444,933	\$14,883,893	\$15,318,079	\$15,752,186	\$16,200,644
Educational services	\$12,387,835	\$12,773,647	\$13,163,740	\$13,549,748	\$13,931,157	\$14,311,366	\$14,694,690
Ambulatory health care services	\$154,770,252	\$159,449,261	\$163,866,795	\$168,054,062	\$172,013,343	\$175,778,587	\$179,336,746
Hospitals	\$93,795,169	\$96,594,051	\$99,241,053	\$101,746,351	\$104,117,137	\$106,380,088	\$108,512,387
Nursing, residential care facilities	\$17,755,410	\$18,297,273	\$18,815,564	\$19,309,843	\$19,787,763	\$20,246,855	\$20,687,904

Social assistance	\$16,425,480	\$16,940,389	\$17,449,703	\$17,953,444	\$18,450,947	\$18,944,155	\$19,440,055
Performing arts, spectator sports	\$3,790,118	\$3,910,960	\$4,046,297	\$4,164,794	\$4,281,874	\$4,393,190	\$4,518,932
Museums et al.	\$854,722	\$878,346	\$915,701	\$938,754	\$961,420	\$997,185	\$1,018,133
Amusement, gambling, recreation	\$33,920,707	\$34,957,972	\$36,005,129	\$37,040,713	\$38,085,762	\$39,102,154	\$40,125,334
Accommodation	\$13,081,441	\$13,487,839	\$13,889,704	\$14,271,567	\$14,663,758	\$15,036,066	\$15,402,000
Food services, drinking places	\$83,764,210	\$85,587,726	\$87,382,004	\$89,100,662	\$90,790,207	\$92,427,198	\$94,016,144
Repair, maintenance	\$59,481,047	\$61,361,011	\$63,265,349	\$65,128,279	\$67,014,385	\$68,879,321	\$70,762,985
Personal, laundry services	\$46,727,828	\$48,159,276	\$49,597,479	\$51,019,655	\$52,447,738	\$53,853,063	\$55,260,668
Membership assoc, organ	\$27,009,581	\$27,853,131	\$28,687,413	\$29,512,474	\$30,327,225	\$31,142,966	\$31,956,695
Private households	\$1,228,170	\$1,261,191	\$1,293,680	\$1,332,147	\$1,363,616	\$1,393,156	\$1,428,682

Industry Sector	2043	2044	2045	2046	2047	2048
Forestry et al.	\$13,664,279	\$14,000,559	\$14,332,185	\$14,711,395	\$15,086,415	\$15,445,294
Agriculture	\$613,813	\$625,687	\$642,049	\$652,653	\$667,788	\$682,205
Oil, gas extraction	\$985,053,382	\$1,022,087,625	\$1,060,736,107	\$1,100,513,145	\$1,142,048,648	\$1,185,382,572
Mining (except oil, gas)	\$19,364,161	\$19,867,126	\$20,387,386	\$20,898,732	\$21,404,036	\$21,933,975
Support activities for mining	\$81,871,119	\$83,978,917	\$86,089,739	\$88,183,436	\$90,296,969	\$92,435,137
Utilities	\$358,728,067	\$367,507,209	\$376,204,271	\$384,780,269	\$393,242,336	\$401,646,896
Construction	\$143,458,518	\$147,323,309	\$151,279,738	\$155,363,381	\$159,510,810	\$163,595,734
Wood product mfg	\$53,207,202	\$54,769,681	\$56,347,292	\$57,898,441	\$59,464,862	\$61,030,997
Nonmetallic mineral prod mfg	\$68,337,124	\$70,431,666	\$72,528,106	\$74,621,226	\$76,715,977	\$78,840,745
Primary metal mfg	\$97,750,471	\$101,137,129	\$104,534,482	\$107,954,038	\$111,456,522	\$115,027,156
Fabricated metal prod mfg	\$196,397,834	\$202,395,248	\$208,431,194	\$214,429,287	\$220,465,358	\$226,583,699
Machinery mfg	\$360,459,896	\$371,803,897	\$383,263,813	\$394,728,315	\$406,362,021	\$418,229,912
Computer, electronic prod mfg	\$1,731,315,511	\$1,788,281,725	\$1,845,743,262	\$1,903,383,600	\$1,961,619,841	\$2,020,736,600
Electrical equip, appliance mfg	\$63,366,521	\$65,722,950	\$68,133,710	\$70,544,537	\$72,972,434	\$75,464,443
Motor vehicle mfg	\$491,570,546	\$507,091,201	\$522,792,155	\$538,455,548	\$554,342,355	\$570,567,798
Transp equip mfg. exc. motor veh	\$71,063,442	\$72,912,569	\$74,766,217	\$76,555,940	\$78,351,376	\$80,147,091
Furniture, related prod mfg	\$31,296,410	\$32,551,261	\$33,820,651	\$35,103,503	\$36,399,428	\$37,722,691
Miscellaneous mfg	\$75,443,713	\$77,750,677	\$80,069,194	\$82,363,334	\$84,702,948	\$87,020,760

Food mfg	\$356,529,612	\$361,998,751	\$367,230,057	\$372,130,993	\$376,770,697	\$381,279,579
Beverage, tobacco prod mfg	\$61,864,359	\$62,848,677	\$63,857,371	\$64,809,788	\$65,741,437	\$66,650,948
Textile mills	\$1,086,955	\$1,091,319	\$1,135,717	\$1,178,377	\$1,220,741	\$1,261,819
Textile prod mills	\$20,943,678	\$21,673,120	\$22,450,901	\$23,193,800	\$23,930,556	\$24,696,113
Apparel mfg	\$15,693,660	\$16,501,918	\$17,361,216	\$18,248,422	\$19,238,947	\$20,263,380
Leather, allied prod mfg	\$2,637,422	\$2,808,497	\$3,006,261	\$3,199,851	\$3,419,814	\$3,636,351
Paper mfg	\$81,221,968	\$83,493,983	\$85,776,414	\$88,030,597	\$90,259,651	\$92,537,274
Printing, rel supp act	\$19,384,670	\$19,922,408	\$20,453,969	\$20,994,844	\$21,529,735	\$22,062,645
Petroleum, coal prod mfg	\$1,058,970,333	\$1,087,248,847	\$1,115,485,503	\$1,143,301,039	\$1,171,089,788	\$1,198,992,960
Chemical mfg	\$94,294,259	\$97,014,580	\$99,747,554	\$102,489,872	\$105,203,311	\$107,972,813
Plastics, rubber prod mfg	\$473,332,176	\$487,553,443	\$501,724,522	\$515,844,078	\$529,959,195	\$544,161,998
Wholesale trade	\$754,354,179	\$776,954,829	\$799,609,897	\$822,300,000	\$845,044,526	\$867,853,599
Retail trade	\$775,831,406	\$801,584,016	\$827,569,456	\$854,104,358	\$880,726,618	\$907,160,400
Air transportation	\$262,605,193	\$269,160,805	\$275,591,055	\$281,869,586	\$288,027,967	\$294,096,608
Rail transportation	\$19,964,729	\$20,499,936	\$21,028,650	\$21,546,505	\$22,058,101	\$22,591,860
Water transportation	\$71,438	\$71,725	\$71,977	\$72,105	\$72,208	\$72,230
Truck transp; Couriers, msngrs	\$204,214,338	\$209,907,099	\$215,585,139	\$221,195,062	\$226,766,828	\$232,372,690
Transit, ground pass transp	\$2,018,053	\$2,077,235	\$2,118,710	\$2,173,841	\$2,211,208	\$2,263,326
Pipeline transportation	\$62,338,910	\$63,945,368	\$65,531,098	\$67,094,010	\$68,637,272	\$70,148,207
Scenic, sightseeing transp; supp	\$19,372,448	\$19,874,969	\$20,356,375	\$20,834,414	\$21,291,582	\$21,755,347
Warehousing, storage	\$6,924,188	\$7,123,784	\$7,321,227	\$7,518,510	\$7,713,662	\$7,912,102
Publishing, exc Internet	\$135,111,189	\$139,400,997	\$143,754,123	\$148,120,304	\$152,548,929	\$157,021,291
Motion picture, sound rec	\$6,591,919	\$6,828,123	\$7,062,602	\$7,309,481	\$7,554,465	\$7,791,466
Internet serv, data proc, other	\$66,699,105	\$68,462,970	\$70,276,467	\$72,049,099	\$73,800,933	\$75,581,284
Broadcasting, exc Int; Telecomm	\$678,821,859	\$696,066,986	\$713,084,667	\$729,884,315	\$746,469,555	\$762,988,792
Monetary authorities, et al.	\$345,468,414	\$354,330,534	\$363,077,504	\$371,794,400	\$380,402,589	\$388,818,304
Sec, comm.. contracts, inv	\$34,326,663	\$35,147,347	\$35,976,323	\$36,767,379	\$37,567,677	\$38,327,553
Ins carriers, rel act	\$117,193,697	\$119,852,496	\$122,451,789	\$124,960,304	\$127,430,931	\$129,818,214
Real estate	\$2,800,798,712	\$2,868,009,722	\$2,933,933,656	\$3,000,414,425	\$3,065,039,654	\$3,127,009,932
Rental, leasing services	\$1,219,681,593	\$1,253,716,423	\$1,287,804,393	\$1,321,423,806	\$1,355,018,734	\$1,388,843,127

Prof, tech services	\$251,785,181	\$258,702,545	\$265,629,243	\$272,567,099	\$279,532,392	\$286,529,943
Mgmnt of companies, enterprises	\$134,686,817	\$138,480,870	\$142,255,245	\$146,008,315	\$149,742,655	\$153,477,189
Administrative, support services	\$172,988,707	\$177,437,215	\$181,842,093	\$186,205,982	\$190,543,416	\$194,830,327
Waste mgmnt, remed services	\$16,628,101	\$17,045,249	\$17,477,472	\$17,902,340	\$18,321,991	\$18,721,979
Educational services	\$15,067,574	\$15,439,898	\$15,798,158	\$16,166,697	\$16,521,505	\$16,867,514
Ambulatory health care services	\$182,746,693	\$186,019,331	\$189,057,136	\$192,060,554	\$194,927,088	\$197,606,980
Hospitals	\$110,548,107	\$112,508,129	\$114,330,051	\$116,126,300	\$117,844,741	\$119,448,649
Nursing, residential care facilities	\$21,118,507	\$21,526,054	\$21,925,618	\$22,316,245	\$22,690,897	\$23,049,975
Social assistance	\$19,920,725	\$20,409,740	\$20,891,961	\$21,372,071	\$21,845,866	\$22,306,731
Performing arts, spectator sports	\$4,638,824	\$4,755,846	\$4,871,308	\$4,995,404	\$5,101,553	\$5,218,723
Museums et al.	\$1,037,680	\$1,071,194	\$1,104,411	\$1,121,133	\$1,152,270	\$1,182,178
Amusement, gambling, recreation	\$41,141,147	\$42,153,989	\$43,152,820	\$44,151,066	\$45,113,221	\$46,072,979
Accommodation	\$15,763,207	\$16,114,251	\$16,475,708	\$16,810,456	\$17,140,099	\$17,467,337
Food services, drinking places	\$95,571,789	\$97,110,389	\$98,593,918	\$100,082,272	\$101,488,063	\$102,783,349
Repair, maintenance	\$72,600,047	\$74,461,080	\$76,274,743	\$78,081,521	\$79,865,393	\$81,656,450
Personal, laundry services	\$56,668,004	\$58,064,111	\$59,465,356	\$60,844,139	\$62,229,488	\$63,547,983
Membership assoc, organ	\$32,749,463	\$33,553,517	\$34,335,687	\$35,126,744	\$35,885,930	\$36,638,748
Private households	\$1,462,311	\$1,494,999	\$1,527,165	\$1,556,848	\$1,586,054	\$1,613,545

VIII. Overview of REMI Policy Insight

Policy Insight is a structural economic forecasting and policy analysis model. It integrates input-output, computable general equilibrium, econometric, and economic geography methodologies. The model is dynamic, with forecasts and simulations generated on an annual basis and behavioral responses to wage, price, and other economic factors.

The REMI model consists of thousands of simultaneous equations with a structure that is relatively straightforward. The exact number of equations used varies depending on the extent of industry, demographic, demand, and other detail in the model. The overall structure of the model can be summarized in five major blocks: (1) Output and Demand, (2) Labor and Capital Demand, (3) Population and Labor Supply, (4) Wages, Prices and Costs, and (5) Market Shares. The blocks and their key interactions are shown in Figures 1 and 2.

REMI Model Linkages (Excluding Economic Geography Linkages)

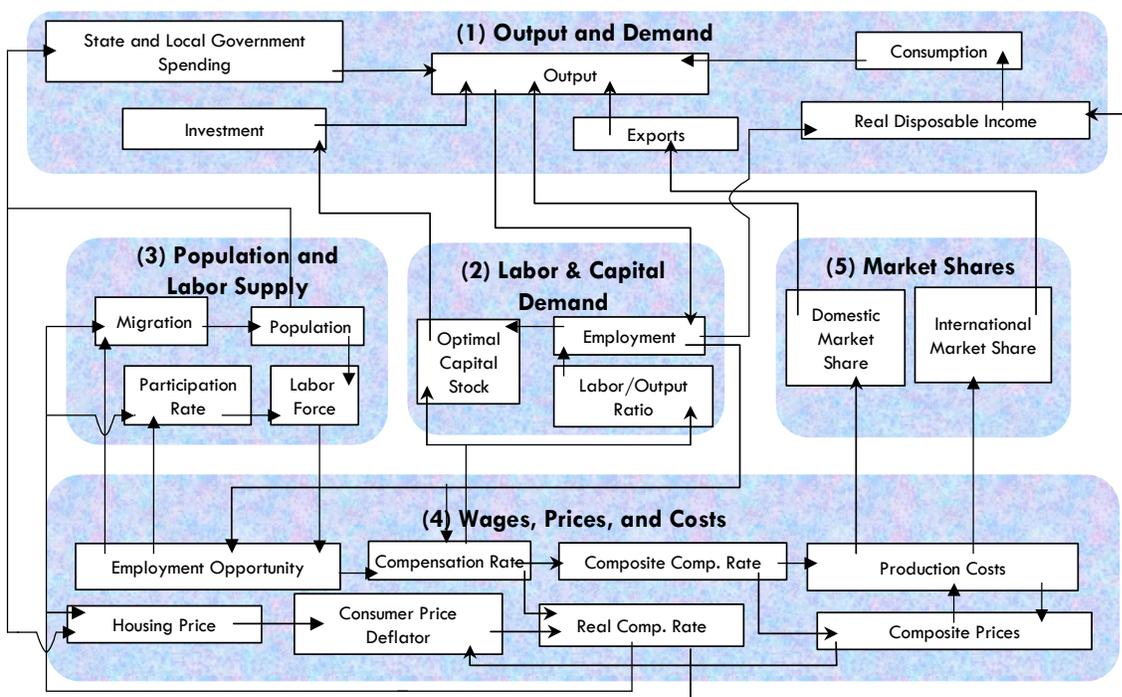


Figure 1

Block 1. Output and Demand

This block includes output, demand, consumption, investment, government spending, import, product access, and export concepts. For each industry, demand is determined by the amount of output, consumption, investment and capital demand on that industry. Consumption depends on

real disposable income per capita, relative prices, differential income elasticities and population. Input productivity depends on access to inputs because the larger the choice set of inputs, the more likely that the input with the specific characteristics required for the job will be formed. In the capital stock adjustment process, investment occurs to fill the difference between optimal and actual capital stock for residential, non-residential, and equipment investment. Government spending changes are determined by changes in the population.

Block 2. Labor and Capital Demand

The Labor and Capital Demand block includes the determination of labor productivity, labor intensity and the optimal capital stocks. Industry-specific labor productivity depends on the availability of workers with differentiated skills for the occupations used in each industry. The occupational labor supply and commuting costs determine firms' access to a specialized labor force. Labor intensity is determined by the cost of labor relative to the other factor inputs, capital and fuel. Demand for capital is driven by the optimal capital stock equation for both non-residential capital and equipment. Optimal capital stock for each industry depends on the relative cost of labor and capital, and the employment weighted by capital use for each industry. Employment in private industries is determined by the value added and employment per unit of value added in each industry.

Block 3. Population and Labor Supply

The Population and Labor Supply block includes detailed demographic information about the region. Population data is given for age and gender, with birth and survival rates for each group. The size and labor force participation rate of each group determines the labor supply. These participation rates respond to changes in employment relative to the potential labor force and to changes in the real after tax compensation rate. Migration includes retirement, military, international and economic migration. Economic migration is determined by the relative real after tax compensation rate, relative employment opportunity and consumer access to variety.

Block 4. Wages, Prices, and Costs

This block includes delivered prices, production costs, equipment cost, the consumption deflator, consumer prices, the price of housing, and the wage equation. Economic geography concepts account for the productivity and price effects of access to specialized labor, goods and services. These prices measure the price of the industry output, taking into account the access to production locations. This access is important due to the specialization of production that takes place within each industry, and because transportation and transaction costs of distance are significant. Composite prices for each industry are then calculated based on the production costs of supplying regions, the effective distance to these regions, and the index of access to the variety of output in the industry relative to the access by other uses of the product.

The cost of production for each industry is determined by cost of labor, capital, fuel and intermediate inputs. Labor costs reflect a productivity adjustment to account for access to specialized labor, as well as underlying compensation rates. Capital costs include costs of non-

residential structures and equipment, while fuel costs incorporate electricity, natural gas and residual fuels.

The consumption deflator converts industry prices to prices for consumption commodities. For potential migrants, the consumer price is additionally calculated to include housing prices. Housing price changes from their initial level depend on changes in income and population density.

Compensation changes are due to changes in labor demand and supply conditions and changes in the national compensation rate. Changes in employment opportunities relative to the labor force and occupational demand change determine compensation rates by industry.

Block 5. Market Shares

The Market Shares equations measure the proportion of local and export markets that are captured by each industry. These depend on relative production costs, the estimated price elasticity of demand, and effective distance between the home region and each of the other regions. The change in share of a specific area in any region depends on changes in its delivered price and the quantity it produces compared with the same factors for competitors in that market. The share of local and external markets then drives the exports from and imports to the home economy.

Economic Geography Linkages

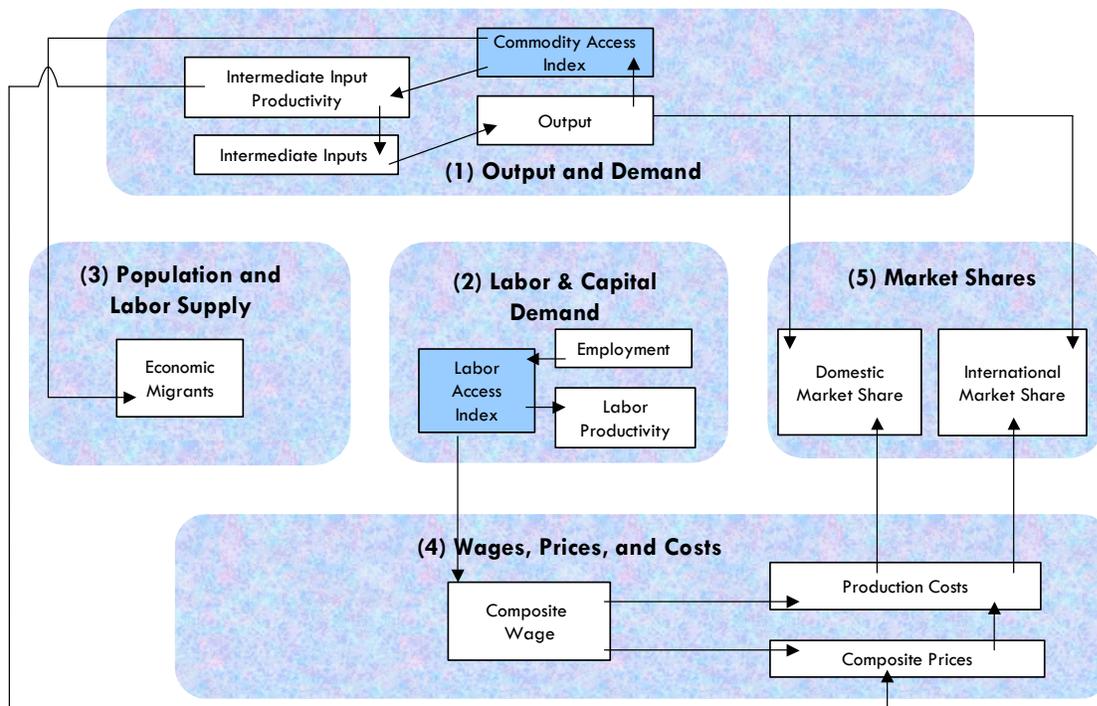


Figure 2

As shown in Figure 2, the Labor and Capital Demand block includes labor intensity and productivity as well as demand for labor and capital. Labor force participation rate and migration equations are in the Population and Labor Supply block. The Wages, Prices, and Costs block includes composite prices, determinants of production costs, the consumption price deflator, housing prices, and the wage equations. The proportion of local, inter-regional and export markets captured by each region is included in the Market Shares block.

IX. Contact Information

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