



ARTS &

The Economic Impact of Nonprofit
Arts and Culture Organizations
and Their Audiences

ECONOMIC PROSPERITY ^{IV}

in PINE CITY, MN



Arts and Economic Prosperity IV was conducted by Americans for the Arts, the nation's leading nonprofit organization for advancing the arts in America. Established in 1960, we are dedicated to representing and serving local communities and creating opportunities for every American to participate in and appreciate all forms of the arts.

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The Health and Impacts of the Nonprofit Arts and Culture Sector in Minnesota

By Sheila Smith, Executive Director of Minnesota Citizens for the Arts

This economic impact study was commissioned as part of a larger effort called *Creative Minnesota*.

We have known for a long time that the arts and culture are important to Minnesota. They enhance our quality of life, bring diverse communities together, and make our state a magnet for jobs and businesses. However, we have not had enough data to *measure* the impact of the arts and culture on an ongoing basis.

Now we can quantify that, in addition to its stages and museums, the nonprofit arts and culture sector is also a substantial industry in the State of Minnesota generating **\$1.2 billion in total economic impact annually**.

As the most comprehensive report ever done of the creative sector, *Creative Minnesota* is a new effort to fill the gaps in available information about Minnesota's cultural field and to improve our understanding of its importance to our quality of life and economy. It kicks off a new centralized, concentrated and long term endeavor to collect and report data on the creative sector every two years for analysis, education and advocacy.

Our first *Creative Minnesota* report is a snapshot of the health and impacts of nonprofit arts and culture organizations in 2013 and looks at their spending and their audiences as well as other indicators of the sector's health and impact on the economy.

The report leverages new in-depth research made possible because of Minnesota's participation in the Cultural Data Project (culturaldata.org).

The benefits of the arts and culture are not limited to our metropolitan areas. The first round of *Creative Minnesota* released February 2015 showed **substantial economic impact from the arts and culture in every corner of the state**, from the Arrowhead to the plains of Southwest Minnesota and from the Red River Valley to the river lands of the Southeast.

This second round of studies done in October 2015 looking at cities and counties across the state also finds the arts and culture impacting economies everywhere. The 29 state, regional and local reports done to date and more can be found at creativemn.org.

Creative Minnesota was developed by a collaborative of arts and culture funders in partnership with **Minnesota Citizens for the Arts (MCA)**. The *Creative Minnesota* team includes: Minnesota Citizens for the Arts, **the McKnight Foundation**, the **Minnesota State Arts Board**, the **Forum of Regional Arts Councils of Minnesota**, **Target**, the **Bush Foundation**, **Mardag Foundation**, and **Jerome Foundation** with in-kind support from the **Minnesota Historical Society** and others.

We hope that arts advocates, legislators, local governments and others will use these reports to find new ways to improve their lives and local economies with the arts and culture.

The rest of *Creative Minnesota* and other research about Minnesota's arts community can be found at: creativemn.org.

The Arts Mean Business

By Robert L. Lynch, President and CEO, Americans for the Arts

America's artists and arts organizations live and work in every community from coast-to-coast—fueling creativity, beautifying our cities, and improving our quality of life. In my travels across the country, business and government leaders often talk to me about the challenges of funding the arts amid shrinking resources and alongside other pressing needs. They worry about jobs and the economy. Is their region a magnet for attracting and retaining a skilled and innovative workforce? How well are they competing in the high-stakes race to attract new businesses? The findings from *Arts & Economic Prosperity IV* send a clear and welcome message: leaders who care about community and economic vitality can feel good about choosing to invest in the arts.

Arts & Economic Prosperity IV is our fourth study of the nonprofit arts and culture industry's impact on the economy. The most comprehensive study of its kind ever conducted, it features customized findings on 182 study regions representing all 50 states and the District of Columbia as well as estimates of economic impact nationally. Despite the economic headwinds that our country faced in 2010, the results are impressive. Nationally, the industry generated \$135.2 billion in total economic activity—\$61.1 billion by the nation's nonprofit arts and culture organizations in addition to \$74.1 billion in event-related expenditures by their audiences. This economic activity supports 4.1 million full-time jobs. Our industry also generates \$22.3 billion in revenue to local, state, and federal governments every year—a yield well beyond their collective \$4 billion in arts allocations.

Arts and culture organizations are resilient and entrepreneurial businesses. They employ people locally, purchase goods and services from within the community, and market and promote their regions. Arts organizations are rooted locally; these are jobs that cannot be shipped overseas. Like most industries, the Great Recession left a measurable financial impact on the arts—erasing the gains made during the pre-recession years, and leaving 2010 expenditures three percent behind their 2005 levels. The biggest effect of the recession was on attendance and audience spending. Inevitably, as people lost jobs and worried about losing their houses, arts attendance—like attendance to sports events and leisure travel—waned as well. Yet, even in a down economy, some communities saw an increase in their arts spending and employment. As the economy rebounds, the arts are well poised for growth. They are already producing new and exciting work—performances and exhibitions and festivals that entertain, inspire, and attract audiences.

Arts & Economic Prosperity IV shows that arts and culture organizations leverage additional event-related spending by their audiences that pumps revenue into the local economy. When patrons attend an arts event they may pay for parking, eat dinner at a restaurant, shop in local retail stores, and have dessert on the way home. Based on the 151,802 audience-intercept surveys conducted for this study, the typical arts attendee spends \$24.60 per person, per event, beyond the cost of admission.

Communities that draw cultural tourists experience an additional boost of economic activity. Tourism industry research has repeatedly demonstrated that arts tourists stay longer and spend more than the average traveler. *Arts & Economic Prosperity IV* reflects those findings: 32 percent of attendees live outside the county in which the arts event took place, and their event-related spending is more than twice that of their local counterparts (nonlocal: \$39.96 vs. local: \$17.42). The message is clear: a vibrant arts community not only keeps residents and their discretionary spending close to home, it also attracts visitors who spend money and help local businesses thrive.

Arts & Economic Prosperity IV demonstrates that America's arts industry is not only resilient in times of economic uncertainty, but also a key component to our nation's economic recovery and future prosperity. Business and elected leaders need not feel that a choice must be made between arts funding and economic prosperity. This study proves that they can choose both. Nationally, as well as locally, **the arts mean business.**

"The economic impacts of the arts in Minnesota are very important; their contributions to the quality of people's lives are priceless. Arts organizations are strongly supported throughout Minnesota, and they help make successful communities. Their continuing growth and vitality will be critical to our state's economic and social well-being."

- Minnesota Governor **Mark Dayton**

“The arts are truly a business that impacts all of the Pine City area. This study shows the impact of community members engaged in arts events and art making which leads to vital economic growth and community development. Not only do the arts play a critical role in stimulating creativity and in developing vital communities, they also are important for discovery, learning, and achievement. The active arts scene makes Pine City a place where people want to live, work, and visit! ”

- **Mary Minnick-Daniels**, Executive Director,
East Central Regional Arts Council

The Economic Impact of the Nonprofit Arts and Culture Industry in Pine City, MN

Arts & Economic Prosperity IV provides compelling new evidence that the nonprofit arts and culture are a significant industry in Pine City—one that generates \$986,727 in total economic activity. This spending—\$425,217 by nonprofit arts and culture organizations and an additional \$561,510 in event-related spending by their audiences—supports 18 full-time equivalent jobs, generates \$442,000 in household income to local residents, and delivers \$93,000 in local and state government revenue. This economic impact study sends a strong signal that when we support the arts, we not only enhance our quality of life, but we also invest in Pine City’s economic well-being.

In 2012, Americans for the Arts published *Arts & Economic Prosperity IV*, the most comprehensive study of its kind ever conducted. It documented the economic impact of the nonprofit arts and culture sector in 139 cities and counties, 31 multi-city or multi-county regions, 10 states, and two individual arts districts—representing all 50 U.S. states and the District of Columbia. The diverse study regions ranged in population (1,600 to four million) and type (rural to large urban). Project economists customized input-output models to calculate specific and reliable findings for each study region. This study focused solely on the economic impact of nonprofit arts and culture organizations and event-related spending by their audiences. Spending by individual artists and the for-profit arts and culture sector were excluded.

This report presents the findings of a new study to evaluate the economic impact of the nonprofit arts and culture industry in Pine City. The methodology used is identical to the national study, providing results that can be compared to those of the 182 national study participants.

Defining Economic Impact

This proprietary study uses four economic measures to define economic impact: full-time equivalent jobs, resident household income, and revenues generated for local and state government sources.

(1) Full-Time Equivalent (FTE) Jobs describes the total amount of labor employed. Economists measure FTE jobs, not the total number of employees, because it is a more accurate measure that accounts for part-time employment.

(2) Resident Household Income (often called Personal Income) includes salaries, wages, and entrepreneurial income paid to local residents. It is the money residents earn and use to pay for food, mortgages, and other living expenses.

Revenue to (3) Local and (4) State Government includes revenue from local and state taxes (e.g., income, property, sales, and lodging) as well as funds from license fees, utility fees, filing fees, and other similar sources.

Economic Impact of the ENTIRE Nonprofit Arts and Culture Industry (Combined Spending by Both Organizations and Their Audiences) in Pine City, MN

During fiscal year 2013, aggregate nonprofit sector spending by both Pine City’s nonprofit arts and culture organizations and their audiences totaled \$986,727. The table below shows the total economic impact of this spending.

TOTAL Economic Impact of the Nonprofit Arts and Culture Industry in Pine City (Spending by Nonprofit Arts and Culture Organizations <u>and</u> Their Audiences)		
	Pine City	Median of Similar Study Regions <i>Pop. = Fewer than 50,000</i>
Direct Expenditures	\$986,727	\$9,053,126
Full-Time Equivalent Jobs	18	287
Resident Household Income	\$442,000	\$5,646,000
Local Government Revenue	\$15,000	\$357,000
State Government Revenue	\$78,000	\$372,000

Direct and Indirect Economic Impact: How a Dollar is Re-spent in the Economy

Arts & Economic Prosperity IV uses a sophisticated economic analysis called input-output analysis to measure economic impact. It is a system of mathematical equations that combines statistical methods and economic theory. Input-output analysis enables economists to track how many times a dollar is “re-spent” within the local economy, and the economic impact generated by each round of spending. How can a dollar be re-spent? Consider the following example:

A theater company in Pine City purchases several gallons of paint from a local hardware store for \$200. The hardware store then uses a portion of the \$200 to pay the sales clerk; the sales clerk re-spends some of the money at a grocery store; the grocery store uses some to pay its cashier; the cashier spends some on rent; and so on ...

Thus, the initial expenditure by the theater company was followed by four additional rounds of local spending (by the hardware store, the sales clerk, the grocery store, and the cashier).

- The economic impact of the theater company’s initial \$200 expenditure is the direct economic impact.
- The economic impacts of the subsequent rounds of local spending are the indirect and induced impacts.
- Eventually, the \$200 dollars will “leak out” of the local economy (i.e., be spent non-locally) and cease to have a local economic impact. In this example, if the theater company purchased the paint from a non-local hardware store there would be no local economic impact. Since the hardware store is located in East Central Minnesota, the dollars remain within the regional economy and create at least one more round of regional spending by the hardware company.
- The total impact is the sum of the direct impact plus all indirect impacts. **This report provides the total impact.**

A dollar “ripples” very differently through each region, which is why a customized input-output model was created for East Central Minnesota (defined as Chisago, Isanti, Kanabec, Mille Lacs, and Pine Counties).

“Like other entrepreneurs and small business owners, artists add significant economic and creative value across the entire state. Backed by hard data, *Creative Minnesota* reveals important truths about how our state’s artists and arts and culture organizations are making dynamic contributions to our economic vitality and to our high quality of life.”

- **Kate Wolford**, President,
The McKnight Foundation

Economic Impact of Spending by Nonprofit Arts and Culture ORGANIZATIONS in Pine City, MN

Nonprofit arts and culture organizations are active contributors to their business community. They are employers, producers, and consumers. They are members of the Chamber of Commerce as well as key partners in the marketing and promotion of their cities, regions, and states. Spending by nonprofit arts and culture organizations totaled \$425,217 in Pine City during fiscal year 2013. This spending is far-reaching: organizations pay employees, purchase supplies, contract for services, and acquire assets within their community. These actions, in turn, support jobs, create household income, and generate revenue to the local and state governments.

Pine City’s nonprofit arts and culture organizations provide rewarding employment for more than just administrators, artists, curators, choreographers, and musicians. They also employ financial staff, facility managers, and salespeople. In addition, the spending by these organizations directly supports a wide array of other occupations spanning many industries (e.g., printing, event planning, legal, construction, and accounting).

Data were collected from 5 eligible nonprofit arts and culture organizations in Pine City, including detailed budget information about more than 40 expenditure categories for fiscal year 2013 (e.g., labor, payments to local and nonlocal artists, operations, administration, programming, facilities, and capital expenditures/asset acquisition). The following table shows the total economic impact of their aggregate spending.

TOTAL Economic Impact of Spending by Nonprofit Arts and Culture ORGANIZATIONS in Pine City		
	Pine City	Median of Similar Study Regions <i>Pop. = Fewer than 50,000</i>
Direct Expenditures	\$425,217	\$5,429,833
Full-Time Equivalent Jobs	10	205
Resident Household Income	\$255,000	\$4,214,000
Local Government Revenue	\$7,000	\$174,000
State Government Revenue	\$33,000	\$205,000

“The arts are a consideration for visitors, business owners and residents considering relocating to an area. They promote tourism and have a positive impact on economic development. The arts are vital to our long-term future growth and they enhance the quality of life for all fortunate enough to experience them.”

- **Frank Christopherson**, Bank Manager, US Bank; Chair, Pine City Planning Commission; and Vice-Chair, Pine City EDA.

Economic Impact of Spending by Nonprofit Arts and Culture AUDIENCES in Pine City, MN

The nonprofit arts and culture industry, unlike most industries, leverages a significant amount of event-related spending by its audiences. For example, when patrons attend a cultural event, they may pay to park their car, purchase dinner at a restaurant, shop in nearby stores, eat dessert after the show, and pay a babysitter upon their return home. Attendees from out of town may spend the night in a hotel. This spending generates related commerce for local businesses such as restaurants, parking garages, retail stores, and hotels.

To measure the impact of nonprofit arts and culture audiences in Pine City, data were collected from 274 attendees to cultural events that took place in East Central Minnesota during calendar year 2014. Researchers used an audience-intercept methodology, a standard technique in which patrons complete a written survey about their event-related spending while attending the event. In East Central Minnesota, arts attendees spend an average of \$25.68 per person, per event as a direct result of their attendance to the event. Local businesses that cater to arts and culture audiences reap the rewards of this economic activity.

Pine City’s 5 participating nonprofit arts and culture organizations reported that the aggregate attendance to their events was 21,150 during 2013. These attendees spent an estimated total of \$561,510, excluding the cost of event admission. The following table demonstrate the total impacts of this spending.

TOTAL Economic Impact of Spending by Nonprofit Arts and Culture AUDIENCES in Pine City (excluding the cost of event admission*)		
	Pine City	Median of Similar Study Regions <i>Pop. = Fewer than 50,000</i>
Direct Expenditures	\$561,510	\$3,695,946
Full-Time Equivalent Jobs	8	100
Resident Household Income	\$187,000	\$2,007,000
Local Government Revenue	\$8,000	\$208,000
State Government Revenue	\$45,000	\$203,000

* Why exclude the cost of admission? The admissions paid by attendees are excluded from the analysis because those dollars are captured in the operating budgets of the participating nonprofit arts and culture organizations and, in turn, are spent by the organization. This methodology avoids “double-counting” those dollars in the study analysis.

Cultural Tourists Spend More

The 274 audience survey respondents were asked to provide the ZIP code of their primary residence, enabling researchers to determine which attendees were regional residents (live within East Central Minnesota) and which were non-residents (live outside East Central Minnesota). Based on these survey responses, researchers estimate that 60.2 percent of Pine City’s 21,150 nonprofit arts attendees were residents of East Central Minnesota and 39.8 percent were non-residents of East Central Minnesota. Non-resident attendees spend an average of 190 percent more per person than local attendees (\$43.85 vs. \$15.11) as a result of their attendance to cultural events. As would be expected from a traveler, higher spending was typically found in the categories of lodging, meals, and transportation. When a community attracts cultural tourists, it harnesses significant economic rewards.

Event-Related Spending by Arts and Culture Event Attendees Totaled \$561,510 in Pine City (excluding the cost of event admission)			
	Residents of East Central Minnesota	Non-Residents of East Central Minnesota	All Pine City Event Attendees
Total Attendance	12,732	8,418	21,150
Percent of Attendees	60.2%	39.8%	100.0%
Average Dollars Spent Per Attendee	\$15.11	\$43.85	\$25.68
Direct Event-Related Expenditures	\$192,381	\$369,129	\$561,510

Nonprofit Arts and Culture Event Attendees Spend an Average of \$25.68 Per Person in Pine City (excluding the cost of event admission)			
	Residents	Non-Residents	All Pine City Event Attendees
Refreshments/Snacks During Event	\$3.10	\$2.48	\$2.87
Meals Before/After Event	\$4.09	\$7.83	\$5.47
Souvenirs and Gifts	\$4.57	\$17.39	\$9.29
Clothing and Accessories	\$0.67	\$0.41	\$0.57
Ground Transportation	\$2.32	\$6.67	\$3.92
Event-Related Child Care	\$0.06	\$0.42	\$0.19
Overnight Lodging (<i>one night only</i>)	\$0.29	\$8.65	\$3.37
Other	\$0.01	\$0.00	\$0.00
Total Per Person Spending	\$15.11	\$43.85	\$25.68

Cultural Events Attract New Dollars and Retain Local Dollars

Pine City’s nonprofit arts and culture sector provides attractions that draw visitors to the region. In fact, 61.1 percent of East Central Minnesota’s non-resident audience survey respondents reported that the primary reason for their trip was “specifically to attend this arts/cultural event.”

In addition, 7.9 percent of the non-resident survey respondents reported that they will spend at least one night away from home in East Central Minnesota as a direct result of attending the cultural event. Non-resident attendees who stay overnight in paid lodging spend an average of \$205.10 per person as a result of their attendance—significantly more than the overall per person average of \$43.85 for all non-resident attendees.

Finally, the audience survey respondents were asked, “If this event were not happening, would you have traveled to another community to attend a similar cultural experience?”

- 43.3 percent of East Central Minnesota’s resident cultural attendees report that *they would have traveled to a different community in order to attend a similar cultural experience.*
- 53.1 percent of East Central Minnesota’s non-resident cultural attendees report *the same.*

These figures demonstrate the economic impact of the nonprofit arts and culture in the purest sense. If a community does not provide a variety of artistic and cultural experiences, it will fail to attract the new dollars of cultural tourists. It will also lose the discretionary spending of its local residents who will travel elsewhere to experience the arts.

“The arts are not only integral to our lifestyle; they are a powerful agent for economic development and property values. A community without them is hollow and lacks the vibrant texture that attracts employers to grow business and in turn, create demand for services.”

- **Mary Kay Brautigan**, Coldwell Banker Burnet, Pine City

Many Cultural Attendees are Artists, Too!

- 54.9 percent of East Central Minnesota’s cultural audiences report that they actively participate in the creation of the arts (e.g., sing in a choir, play an instrument , act in a community play, paint or draw).

Conclusion

The nonprofit arts and culture are a \$986,727 industry in Pine City—one that supports 18 full-time equivalent jobs and generates \$93,000 in local and state government revenue. Nonprofit arts and culture organizations, which spend \$425,217 annually, leverage \$561,510 in additional spending by arts and culture audiences—spending that pumps vital revenue into local restaurants, hotels, retail stores, parking garages, and other businesses. By demonstrating that investing in the arts and culture yields economic benefits, *Arts & Economic Prosperity IV* lays to rest a common misconception: that communities support the arts and culture at the expense of local economic development. In fact, they are investing in an industry that supports jobs, generates government revenue, and is a cornerstone of tourism. This report shows conclusively that **the arts mean business in Pine City!**

"Disney has a rich legacy in animation, film and storytelling, so naturally we consider the arts to be an essential part of our business, as well as an essential element of our communities. We have seen how the arts not only enrich American life, but also support millions of jobs across the country, generate billions of dollars in economic impact, and help drive the family-vacation industry. By investing in the arts, we plant seeds for the future and make our communities better places to live."

— **Meg Crofton**, President
Walt Disney World Parks & Resorts Operations, U.S. and France

“Many, if not most Minnesotans value the statewide scope and local and national significance of the arts in Minnesota. What is less discussed is the economic impact of the arts. Annually, nearly 20 million people (including many visitors to our state) attend arts performances and events here. That relationship directly helps employ well over 30,000 people while directly creating related opportunities for things like hundreds of thousands of dollars in restaurant sales. In addition to inspiring and entertaining, the arts are also one of the most important contributors to Minnesota’s continued post-recession economic growth.”

- Minnesota State Senator **Richard Cohen**
Chair of the Senate Finance Committee

“As a past and current chair of the Legacy Committee in the Minnesota House of Representatives it has been my pleasure to witness the impact of appropriations from Legacy Amendment funding on our economy. In Greater Minnesota our libraries and historical societies have certainly benefited. But in a larger sense money for the arts has spurred local projects throughout central and southwestern Minnesota. Certainly there have been immediate economic results, but long term I see even more significant impact. I’m aware of restoration of historic buildings that are intended to eventually become local art centers. We have just touched the surface of the legacy amendment’s future possibilities for economic growth.”

- Minnesota State Representative **Dean Urdahl**,
Chair of the House Legacy Committee

The Arts & Economic Prosperity IV Calculator

To make it easier to compare the different organizations within Pine City (and East Central Minnesota), the project researchers calculated the economic impact per \$100,000 of direct spending by nonprofit arts and culture organizations and their audiences.

Economic Impact Per \$100,000 of Direct Spending by ORGANIZATIONS

For every \$100,000 in direct spending by a nonprofit arts and culture organization in Pine City, there was the following total economic impact.

TABLE 1:
Ratios of Economic Impact Per \$100,000 of Direct Spending by Nonprofit Arts and Culture Organizations in Pine City

	Pine City	Median of Similar Study Regions <i>Pop. = Fewer than 50,000</i>	National Median
Full-Time Equivalent Jobs	2.31	3.24	3.46
Resident Household Income	\$59,908	\$73,227	\$82,084
Local Government Revenue	\$1,709	\$3,537	\$3,819
State Government Revenue	\$7,811	\$4,284	\$4,656

An Example of How to Use the Organizational Spending Calculator Table (above):

An administrator from a nonprofit arts and culture organization that has total expenditures of \$250,000 wants to determine the organization’s total economic impact on full-time equivalent (FTE) employment in Pine City. The administrator would:

1. Determine the amount spent by the nonprofit arts and culture organization;
2. Divide the total expenditure by 100,000; and
3. Multiply that figure by the FTE employment ratio per \$100,000 for Pine City.

Thus, \$250,000 divided by 100,000 equals 2.5; 2.5 times 2.31 (from the top row of data on Table 1 above) equals a total of 5.8 full-time equivalent jobs supported (both directly and indirectly) within Pine City by that nonprofit arts and culture organization. Using the same procedure, the estimate can be calculated for resident household income as well as for local and state government revenue.

Economic Impact Per \$100,000 of Direct Spending by AUDIENCES

The economic impact of event-related spending by arts audiences can also be derived for individual or groups of nonprofit arts and culture organizations and events in Pine City.

The first step is to determine the total estimated event-related spending by arts and culture event attendees (excluding the cost of admission). To derive this figure, multiply the average per person event-related expenditure in East Central Minnesota by the total event attendance. The ratios of economic impact per \$100,000 in direct spending can then be used to determine the total economic impact of the total estimated audience spending.

TABLE 2:
Average Per Person Event-Related Spending by All Arts and Culture Event Attendees in Pine City (excluding the cost of event admission)

	Pine City	Average of Similar Study Regions <i>Pop. = Fewer than 50,000</i>	National Average
Refreshments/Snacks During Event	\$2.87	\$2.93	\$3.02
Meals Before/After Event	\$5.47	\$9.63	\$10.12
Souvenirs and Gifts	\$9.29	\$3.59	\$2.74
Clothing and Accessories	\$0.57	\$1.29	\$1.31
Ground Transportation	\$3.92	\$2.15	\$2.65
Event-Related Child Care	\$0.19	\$0.31	\$0.36
Overnight Lodging (<i>one night only</i>)	\$3.37	\$3.71	\$3.51
Other	\$0.00	\$1.04	\$0.89
Total Per Person Spending	\$25.68	\$22.47	\$24.60

TABLE 3:
Ratios of Economic Impact Per \$100,000 of Direct Spending by Nonprofit Arts and Culture Audiences in Pine City

	Pine City	Median of Similar Study Regions <i>Pop. = Fewer than 50,000</i>	National Median
Full-Time Equivalent Jobs	1.42	2.50	2.69
Resident Household Income	\$33,252	\$50,122	\$57,140
Local Government Revenue	\$1,435	\$4,977	\$5,100
State Government Revenue	\$8,068	\$4,837	\$5,802

An Example of How to Use the Audience Spending Calculator Tables (on the preceding page):

An administrator wants to determine the total economic impact of the 25,000 total attendees to his/her organization's nonprofit arts and culture events on full-time equivalent (FTE) employment in Pine City. The administrator would:

1. Determine the total estimated audience spending by multiplying the average per person expenditure for East Central Minnesota by the total attendance to nonprofit arts and culture events;
2. Divide the resulting total estimated audience spending by 100,000; and
3. Multiply that figure by the FTE employment ratio per \$100,000 for Pine City.

Thus, 25,000 times \$25.68 (from the bottom row of data on Table 2 on the preceding page) equals \$642,000; \$642,000 divided by 100,000 equals 6.42; 6.42 times 1.42 (from the top row of data on Table 3 on the preceding page) equals a total of 9.1 full-time equivalent jobs supported (both directly and indirectly) within Pine City by that nonprofit arts and culture organization. Using the same procedure, the estimate can be calculated for resident household income and local and state government revenue.

Making Comparisons with Similar Study Regions

For the purpose of this customized research report, the analyzed region is defined as Pine City. According to the most recent data available from the United States Census Bureau, the population of Pine City was estimated to be 3,076 during 2014. Audience surveys were collected from attendees to cultural events that took place in East Central Minnesota (defined as Chisago, Isanti, Kanabec, Mille Lacs, and Pine Counties). For comparison purposes, more than 300 pages of detailed data tables containing the study results for all 182 study regions that participated in the 2012 *Arts & Economic Prosperity IV* national study can be found in Appendix B of the National Statistical Report. The data tables are stratified by population, making it easy to compare the findings for Pine City to the findings for similarly populated study regions (as well as any other participating study regions that are considered valid comparison cohorts).

All of the national study publications are available both by download (free) and hardcopy (for purchase) at www.AmericansForTheArts.org/EconomicImpact.

"The success of my family's business depends on finding and cultivating a creative and innovative workforce. I have witnessed firsthand the power of the arts in building these business skills. When we participate personally in the arts, we strengthen our 'creativity muscles,' which makes us not just a better ceramicist or chorus member, but a more creative worker—better able to identify challenges and innovative business solutions. This is one reason why the arts remain an important part of my personal and corporate philanthropy."

— **Christopher Forbes**, Vice Chairman, Forbes, Inc.

About This Study

The *Arts & Economic Prosperity IV* study was conducted by Americans for the Arts to document the economic impact of the nonprofit arts and culture industry in 182 communities and regions (139 cities and counties, 31 multi-city or multi-county regions, 10 states, and two individual arts districts)—representing all 50 U.S. states and the District of Columbia.

The diverse communities range in population (1,600 to four million) and type (rural to urban). The study focuses solely on nonprofit arts and culture organizations and their audiences. Public arts councils and public presenting facilities/institutions are included, as are select programs embedded within another organization (that have their own budget and play a substantial role in the cultural life of the community). The study excludes spending by individual artists and the for-profit arts and entertainment sector (e.g., Broadway or the motion picture industry). Detailed expenditure data were collected from 9,721 arts and culture organizations and 151,802 of their attendees. The project economists, from the Georgia Institute of Technology, customized input-output analysis models for each study region to provide specific and reliable economic impact data about their nonprofit arts and culture industry, specifically full-time equivalent jobs, household income, and local and state government revenue.

The 182 Local, Regional, and Statewide Study Partners

Americans for the Arts published a Call for Participants in 2010 seeking communities interested in participating in the *Arts & Economic Prosperity IV* study. Of the more than 200 potential partners that expressed interest, 182 agreed to participate and complete four participation criteria: (1) identify and code the universe of nonprofit arts and culture organizations in their study region; (2) assist researchers with the collection of detailed financial

and attendance data from those organizations; (3) conduct audience-intercept surveys at cultural events; and (4) pay a modest cost-sharing fee (no community was refused participation for an inability to pay).

Minnesota Citizens for the Arts contracted with Americans for the Arts to conduct a separate economic impact analysis focused solely on the nonprofit arts and culture industry in the City of Pine City. The methodology used is identical to the national study methodology, making it possible to compare the results for the City of Pine City with those of the national study participants.

Surveys of ORGANIZATIONS

Each of the 182 study regions attempted to identify its comprehensive universe of nonprofit arts and culture organizations using the Urban Institute’s National Taxonomy of Exempt Entity (NTEE) coding system as a guideline. The NTEE system—developed by the National Center for Charitable Statistics at the Urban Institute—is a definitive classification system for nonprofit organizations recognized as tax exempt by the Internal Revenue Code. This system divides the entire universe of nonprofit organizations into 10 Major categories, including “Arts, Culture, and Humanities.” The Urban Institute reports that 113,000 nonprofit arts and culture organizations were registered with the IRS in 2010, up from 94,450 in 2005.

The following NTEE “Arts, Culture, and Humanities” subcategories were included:

- A01 – Alliances and Advocacy
- A02 – Management and Technical Assistance
- A03 – Professional Societies and Associations
- A05 – Research Institutes and Public Policy Analysis
- A11 – Single Organization Support
- A12 – Fund Raising and Fund Distribution
- A19 – Support (not elsewhere classified)
- A20 – Arts and Culture (general)
- A23 – Cultural and Ethnic Awareness
- A24 – Folk Arts
- A25 – Arts Education
- A26 – Arts and Humanities Councils and Agencies
- A27 – Community Celebrations
- A30 – Media and Communications (general)
- A31 – Film and Video
- A32 – Television
- A33 – Printing and Publishing
- A34 – Radio
- A40 – Visual Arts (general)
- A50 – Museums (general)
- A51 – Art Museums
- A52 – Children’s Museums
- A53 – Folk Arts Museums
- A54 – History Museums
- A56 – Natural History and Natural Science Museums
- A57 – Science and Technology Museums
- A60 – Performing Arts (general)
- A61 – Performing Arts Centers
- A62 – Dance
- A63 – Ballet
- A65 – Theatre
- A68 – Music
- A69 – Symphony Orchestras
- A6A – Opera
- A6B – Singing and Choral Groups
- A6C – Bands and Ensembles
- A6E – Performing Arts Schools
- A70 – Humanities (general)
- A80 – Historical Organizations (general)
- A82 – Historical Societies and Historic Preservation
- A84 – Commemorative Events
- A90 – Arts Services (general)
- A99 – Arts, Culture, and Humanities (miscellaneous)

In addition, the study partners were encouraged to include other types of eligible organizations if they play a substantial role in the cultural life of the

community or if their primary purpose is to promote participation in, appreciation for, and understanding of the visual, performing, folk, and media arts. These include government-owned or government-operated cultural facilities and institutions, municipal arts agencies and councils, private community arts organizations, unincorporated arts groups, living collections (such as zoos, aquariums, and botanical gardens), university presenters, and arts programs that are embedded under the umbrella of a non-arts organization or facility (such as a community center or church). In short, if it displays the characteristics of a nonprofit arts and culture organization, it is included. For-profit businesses and individual artists were excluded from this study.

Nationally, detailed information was collected from 9,721 eligible organizations about their fiscal year 2010 expenditures in more than 40 expenditure categories (e.g., labor, local and non-local artists, operations, materials, facilities, and asset acquisition) as well as about their event attendance, in-kind contributions, and volunteerism. Responding organizations had budgets ranging from a low of \$0 to a high of \$239.7 million. Response rates for the 182 communities averaged 43.2 percent and ranged from 5.3 percent to 100 percent. It is important to note that each study region’s results are based solely on the actual survey data collected. No estimates have been made to account for non-respondents. Therefore, the less-than-100 percent response rates suggest an understatement of the economic impact findings in most of the individual study regions.

In the City of Pine City, all 5 of the total eligible nonprofit arts and culture organizations identified by Minnesota Citizens for the Arts participated in this study—an overall participation rate of 100.0 percent. The Minnesota Cultural Data Project (CDP) was the primary source of information about the universe of eligible organizations. The CDP data were supplemented using both data collected through a proprietary web-based survey process as well as

grant application data. The most recently-available financial and attendance data were used for each of the 5 participating organizations in this analysis. In most cases, the most recently-available data are from fiscal year 2013 (the organization's fiscal year that ended between January 1 and December 31, 2013). In some cases, however, data were used from fiscal year 2012 or earlier.

Surveys of AUDIENCES

Audience-intercept surveying, a common and accepted research method, was conducted in all 182 of the study regions to measure event-related spending by nonprofit arts and culture audiences. Patrons were asked to complete a short survey while attending an event. Nationally, a total of 151,802 valid and usable surveys were completed for an average of 834 surveys per study region. The randomly selected respondents provided itemized expenditure data on attendance-related activities such as meals, souvenirs, transportation, and lodging. Data were collected throughout 2011 (to guard against seasonal spikes or drop-offs in attendance) as well as at a broad range of both paid and free events (a night at the opera will typically yield more spending than a weekend children's theater production or a free community music festival, for example). The survey respondents provided information about the entire party with whom they were attending the event. With an overall average travel party size of 2.69 people, these data actually represent the spending patterns of more than 408,000 attendees.

A total of 274 valid audience-intercept surveys were collected from attendees to arts and culture performances, events, and exhibits that took place in East Central Minnesota during 2014.

Economic Analysis

A common theory of community growth is that an area must export goods and services if it is to prosper economically. This theory is called

economic-base theory, and it depends on dividing the economy into two sectors: the export sector and the local sector. Exporters, such as automobile manufacturers, hotels, and department stores, obtain income from customers outside of the community. This "export income" then enters the economy in the form of salaries, purchases of materials, dividends, and so forth, and becomes income to local residents. Much of it is re-spent locally; some, however, is spent for goods imported from outside of the community. The dollars re-spent locally have an economic impact as they continue to circulate through the economy. This theory applies to arts organizations as well as to other producers.

The Input-Output Process

To derive the most reliable economic impact data, input-output analysis is used to measure the impact of expenditures by nonprofit arts and culture organizations and their audiences. This is a highly regarded type of economic analysis that has been the basis for two Nobel Prizes. The models are systems of mathematical equations that combine statistical methods and economic theory in an area of study called econometrics. They trace how many times a dollar is re-spent within the local economy before it leaks out, and it quantifies the economic impact of each round of spending. This form of economic analysis is well suited for this study because it can be customized specifically to each study region.

To complete the analysis for the City of Pine City, project economists customized an input-output model based on the local dollar flow between 533 finely detailed industries within the regional economy that includes East Central Minnesota (defined as including Chisago, Isanti, Kanabec, Mille Lacs, and Pine Counties). This was accomplished by using detailed data on employment, incomes, and government revenues provided by the U.S. Department of Commerce (County Business Patterns, the Regional Economic Information System, and the Survey of State and Local Finance) and local tax data

(sales taxes, property taxes, and miscellaneous local option taxes), as well as the survey data from the responding nonprofit arts and culture organizations and their audiences.

The input-output model is based on a table of 533 finely detailed industries showing local sales and purchases. The local and state economy of each community is researched so the table can be customized for each community. The basic purchase patterns for local industries are derived from a similar table for the U.S. economy for 2007 (the latest detailed data available from the U.S. Department of Commerce). The table is first reduced to reflect the unique size and industry mix of the local economy, based on data from County Business Patterns and the Regional Economic Information System of the U.S. Department of Commerce. It is then adjusted so that only transactions with local businesses are recorded in the inter-industry part of the table. This technique compares supply and demand and estimates the additional imports or exports required to make total supply equal total demand. The resulting table shows the detailed sales and purchase patterns of the local industries. The 533-industry table is then aggregated to reflect the general activities of 32 industries plus local households, creating a total of 33 industries. To trace changes in the economy, each column is converted to show the direct requirements per dollar of gross output for each sector. This direct-requirements table represents the “recipe” for producing the output of each industry.

The economic impact findings were computed using what is called an “iterative” procedure. This process uses the sum of a power series to approximate the solution to the economic model. This is what it looks like in matrix algebra:

$$T = IX + AX + A^2X + A^3X + \dots + A^nX.$$

T is the solution, a column vector of changes in each industry’s outputs caused by the changes represented in the column vector X. A is the 33 by 33 direct-requirements matrix. This equation is used to trace the direct expenditures attributable to nonprofit arts organizations and their audiences. A multiplier effect table is produced that displays the results of this equation. The total column is T. The initial expenditure to be traced is IX (I is the identity matrix, which is operationally equivalent to the number 1 in ordinary algebra). Round 1 is AX, the result of multiplying the matrix A by the vector X (the outputs required of each supplier to produce the goods and services purchased in the initial change under study). Round 2 is A²X, which is the result of multiplying the matrix A by Round 1 (it answers the same question applied to Round 1: “What are the outputs required of each supplier to produce the goods and services purchased in Round 1 of this chain of events?”). Each of columns 1 through 12 in the multiplier effects table represents one of the elements in the continuing but diminishing chain of expenditures on the right side of the equation. Their sum, T, represents the total production required in the local economy in response to arts activities.

Calculation of the total impact of the nonprofit arts on the outputs of other industries (T) can now be converted to impacts on the final incomes to local residents by multiplying the outputs produced by the ratios of household income to output and employment to output. Thus, the employment impact of changes in outputs due to arts expenditures is calculated by multiplying elements in the column of total outputs by the ratio of employment to output for the 32 industries in the region. Changes in household incomes, local government revenues, and state government revenues due to nonprofit arts expenditures are similarly transformed.

A comprehensive description of the methodology used to complete the national study is available at www.AmericansForTheArts.org/EconomicImpact.

Frequently Used Terms

This section provides a glossary of economic impact terminology.

Cultural Tourism

Travel directed toward experiencing the arts, heritage, and special character of a place.

Direct Economic Impact

A measure of the economic effect of the initial expenditure within a community. For example, when the symphony pays its players, each musician's salary, the associated government taxes, and full-time equivalent employment status represent the direct economic impact.

Direct Expenditures

The first round of expenditures in the economic cycle. A paycheck from the symphony to the violin player and a ballet company's purchase of dance shoes are examples of direct expenditures.

Econometrics

The process of using statistical methods and economic theory to develop a system of mathematical equations that measures the flow of dollars between local industries. The input-output model developed for this study is an example of an econometric model.

Econometrician

An economist who designs, builds, and maintains econometric models.

Full-Time Equivalent (FTE) Jobs

A term that describes the total amount of labor employed. Economists measure FTE jobs—not the total number of employees—because it is a more accurate measure of total employment. It is a manager's discretion to hire one full-time employee, two half-time employees, four quarter-time employees, etc. Almost always, more people are affected than are reflected in the number of FTE jobs reported due to the abundance of part-time employment, especially in the nonprofit arts and culture industry.

Indirect Economic Impact

Each time a dollar changes hands, there is a measurable economic impact. When people and businesses receive money, they re-spend much of that money locally. Indirect impact measures the effect of this re-spending on jobs, household income, and revenue to local and state government. It is often referred to as secondary spending or the dollars “rippling” through a community. When funds are eventually spent non-locally, they are considered to have “leaked” out of the community and therefore cease to have a local economic impact. Indirect impact includes the impact of all rounds of spending (except for the initial expenditure) until the dollars have completely “leaked out” of the local economy.

Input-Output Analysis

A system of mathematical equations that combines statistical methods and economic theory in an area of economic study called econometrics. Economists use this model (occasionally called an inter-industry model) to measure how many times a dollar is re-spent in, or “ripples” through, a community before it “leaks out” of the local economy by being spent non-locally (see Leakage below). The model is based on a matrix that tracks the dollar flow between 533 finely detailed industries in each community. It allows researchers to determine the economic impact of local spending by nonprofit arts and culture organizations on jobs, household income, and government revenue.

Leakage

The money that community members spend outside of the local economy. This non-local spending has no economic impact within the community. A ballet company purchasing shoes from a non-local manufacturer is an example of leakage. If the shoe company were local, the expenditure would remain within the community and create another round of spending by the shoe company.

Multiplier (often called Economic Activity Multiplier)

An estimate of the number of times that a dollar changes hands within the community before it leaks out of the community (for example, the theater pays the actor, the actor spends money at the grocery store, the grocery store pays its cashier, and so on). This estimate is quantified as one number by which all expenditures are multiplied. For example, if the arts are a \$10 million industry and a multiplier of three is used, then it is estimated that these arts organizations have a total economic impact of \$30 million. The convenience of a multiplier is that it is one simple number; its shortcoming, however, is its reliability. Users rarely note, however, that the multiplier is developed by making gross estimates of the industries within the local economy with no allowance for differences in the characteristics of those industries, usually resulting in an overestimation of the economic impact. In contrast, the input-output model employed in *Arts & Economic Prosperity IV* is a type of economic analysis tailored specifically to each community and, as such, provides more reliable and specific economic impact results.

Resident Household Income (often called Personal Income)

The salaries, wages, and entrepreneurial income residents earn and use to pay for food, mortgages, and other living expenses. It is important to note that resident household income is not just salary. When a business receives money, for example, the owner usually takes a percentage of the profit, resulting in income for the owner.

Revenue to Local and State Government

Local and state government revenue is not derived exclusively from income, property, sales, and other taxes. It also includes license fees, utility fees, user fees, and filing fees. Local government revenue includes funds to city and county government, schools, and special districts.

Frequently Asked Questions

This section answers some common questions about this study and the methodology used to complete it.

How were the eligible nonprofit arts organizations in each community selected?

Local partners attempted to identify their universe of nonprofit arts and culture organizations using the Urban Institute’s National Taxonomy of Exempt Entity (NTEE) codes as a guideline. Eligible organizations included those whose primary purpose is to promote appreciation for and understanding of the visual, performing, folk, and media arts. Public arts councils, public presenting facilities or institutions, and embedded organizations that have their own budget also were included if they play a substantial role in the cultural life of the community. For-profit businesses and individual artists are excluded from this study.

What type of economic analysis was done to determine the study results?

An input-output analysis model was customized for each of the participating communities and regions to determine the local economic impact their nonprofit arts and culture organizations and arts audiences. Americans for the Arts, which conducted the research, worked with highly regarded economists to design the input-output model used for this study.

What other information was collected in addition to the arts surveys?

In addition to detailed expenditure data provided by the surveyed organizations, extensive wage, labor, tax, and commerce data were collected from local, state, and federal governments for use in the input-output model.

Why doesn’t this study use a multiplier?

When many people hear about an economic impact study, they expect the result to be quantified in what is often called a multiplier or an economic activity multiplier. The economic activity multiplier is an estimate of the number of times a dollar changes hands within the community (e.g., a theater pays its actor, the actor spends money at the grocery store, the grocery store pays the cashier, and so on). It is quantified as one number by which expenditures are multiplied. The convenience of the multiplier is that it is one simple number. Users rarely note, however, that the multiplier is developed by making gross estimates of the industries within the local economy and does not allow for differences in the characteristics of those industries. Using an economic activity multiplier usually results in an overestimation of the economic impact and therefore lacks reliability.

Why are the admissions expenses excluded from the analysis of audience spending?

Researchers make the assumption that any admissions dollars paid by event attendees are typically collected as revenue for the organization that is presenting the event. The organization then spends those dollars. The admissions paid by audiences are excluded because those dollars are captured in the operating budgets of the participating nonprofit arts and culture organizations. This methodology avoids “double-counting” those dollars in the analysis.

How is the economic impact of arts and culture organizations different from other industries?

Any time money changes hands there is a measurable economic impact. Social service organizations, libraries, and all entities that spend money have an economic impact. What makes the economic impact of arts and culture organizations unique is that, unlike most other industries, they induce large amounts of related spending by their audiences. For example, when patrons attend a performing arts event, they may purchase dinner at a restaurant, eat dessert after the show, and return home and pay the baby-sitter. All of these expenditures have a positive and measurable impact on the economy.

Will my local legislators believe these results?

Yes, this study makes a strong argument to legislators, but you may need to provide them with some extra help. It will be up to the user of this report to educate the public about economic impact studies in general and the results of this study in particular. The user may need to explain (1) the study methodology used; (2) that economists created an input-output model for each community and region in the study; and (3) the difference between input-output analysis and a multiplier. The good news is that as the number of economic impact studies completed by arts organizations and other special interest areas increases, so does the sophistication of community leaders whose influence these studies are meant to affect. Today, most decision makers want to know what methodology is being used and how and where the data were gathered.

You can be confident that the input-output analysis used in this study is a highly regarded model in the field of economics (the basis of two Nobel Prizes in economics). However, as in any professional field, there is disagreement about procedures, jargon, and the best way to determine results. Ask 12 artists to define art and you may get 12 answers; expect the same of economists. You may meet an economist who believes that these studies should be done differently (for example, a cost-benefit analysis of the arts).

How can a community not participating in the Arts and Economic Prosperity IV study apply these results?

Because of the variety of communities studied and the rigor with which the *Arts & Economic Prosperity IV* study was conducted, nonprofit arts and culture organizations located in communities that were not part of the study can estimate their local economic impact. Estimates can be derived by using the *Arts & Economic Prosperity IV* Calculator (found at www.AmericansForTheArts.org/EconomicImpact). Additionally, users will find sample PowerPoint presentations, press releases, Opinion-Editorials (i.e., Op-Eds), and other strategies for proper application of their estimated economic impact data.

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- The McKnight Foundation: www.mcknight.org
- Target: <https://corporate.target.com/corporate-responsibility/>
- Bush Foundation: www.bushfoundation.org
- Mardag Foundation: <http://www.mardag.org/>
- Jerome Foundation: <http://www.jeromefdn.org/>
- Minnesota State Arts Board: <http://www.arts.state.mn.us/>
- Forum of Regional Arts Councils of Minnesota: <http://www.arts.state.mn.us/racs/forum.htm>
- Minnesota Historical Society: <http://www.mnhs.org/about>
- Ideas that Kick: www.ideasthatkick.com

Local Organizer:

Nathan Johnson, Pine City Community Development Director

Local Sponsors:



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Pine City's Participating Nonprofit Arts and Culture Organizations

This study could not have been completed without the cooperation of the 5 eligible nonprofit arts and culture organizations in Pine City, listed below, that provided detailed financial and event attendance information about their organization.

East Central Minnesota Pride; Northwest Company Fur Post; Pine Center for the Arts; Pine City Arts Council; and Pine City Heritage Players.

Pine City's Participating Nonprofit Arts and Culture Patrons

Additionally, this study could not have been completed without the cooperation of the 274 arts and culture audience members who generously took the time to complete the audience-intercept survey while attending a performance, event, or exhibit within East Central Minnesota.

“The arts are a powerful agent of community change; what was once considered radical in Pine City now has its place in the plans and policies that serve our community. A part of our pursuit is to enhance our emerging reputation as a small-town arts destination. What the arts do in Pine City is allow us to escape our small town, if but for a moment, without leaving home.”

- **Nathan Johnson**, Community Development Director, Pine City

“The arts in Pine City are a mirror and a window – they help us discover who we are and where we came from, and give us a vision of what we want our community to be in years to come. With five strong, independent arts organizations in our town of just over 3,000, Pine City keeps building on its tradition of art and community as a key to growth and progress.”

- **Mike Gainor**, Editor, Pine City Pioneer

“A thriving arts community makes a thriving town, a thriving region, and a thriving state. Every playwright, actor, potter, guitarist, jeweler, knitter, painter, carver, dancer – as well as every audience member, every customer, and every supplier – give and receive mutual benefits. The arts encourage both work and play, and they promote cultural and economic vitality for our East Central region and all of Minnesota.”

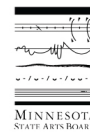
- **Tony Lourey**, Minnesota State Senator (District 11-Kerrick)

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