

FEBRUARY 2025

Livability Impact Study of the Arts: Relationships between the arts and healthy communities

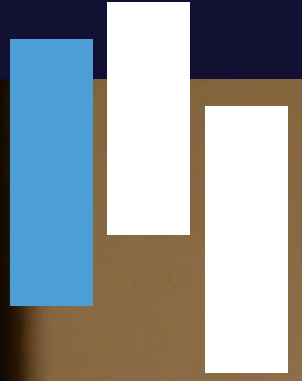
APPENDICES

COMMISSIONED BY

ARTSFUND



APPENDIX A: INTERVIEWEE SNAPSHOTS



Field Arts & Events Hall

Port Angeles, WA
fieldhallevents.org

Steve Raider-Ginsburg, Executive
& Artistic Director

About

Field Arts & Events Hall represents the newest and most significant arts, entertainment and special events facility found anywhere in the region. Field Hall hosts local, regional, national, and international music and performance artists inside the 500-seat Donna M. Morris Theater. Field Hall also includes a cutting-edge waterfront conference and event center suitable for groups from 20 to 300 people, overlooking the Strait of Juan de Fuca.

Field Arts & Events Hall is a private 501(c)3 nonprofit organization. The construction of Field Hall was made possible through the generous donations of Port Angeles locals Donna M. Morris and Dorothy Field, along with corporate and individual donors who value a vibrant arts community on the northern Olympic Peninsula.

Mission

To be a home for arts and events that brings people together and strengthens our community.

Vision

To inspire, nurture, and empower the local arts community, enrich local cultural and educational experiences, and spark economic activity throughout the region.

To learn more visit:
fieldhallevents.org

Northwest Museum of Arts and Culture

Spokane, WA
northwestmuseum.org

Wesley Jessup, Executive Director
Carol Summers, Director of
Marketing & Communications

About

Founded in 1916, the Northwest Museum of Arts and Culture is the largest cultural organization in the Inland Northwest, serving more than 100,000 visitors a year. It is one of Washington State's five Smithsonian affiliates and is accredited by the American Alliance of Museums. The museum resides in the historic Browne's Addition neighborhood of Spokane, Washington.

Commonly referred to as the "MAC," the museum preserves and cultivates the heritage of the Inland Northwest people through collections, exhibitions, and programs that bring their stories to life. Our collection of Plateau Indian art and artifacts is the largest in the world; more than one million objects are maintained and preserved, including fine art, artifacts, documents, photographs, and material culture from the Americas, Europe, and Asia. The world-renowned Joel E. Ferris Research Archives offers researchers from around the world an opportunity to explore our vast collection.

Mission

To engage our audiences in the appreciation of art, history, and culture of the Inland Northwest and beyond through collection stewardship, exhibitions, and programs that enrich and inspire.

Vision

The Museum's leadership, staff, and volunteers are committed to operating transparently and with integrity in all matters, honoring our commitments, listening with empathy, and being approachable, inclusive, and respectful of others.

To learn more visit:
northwestmuseum.org

Seattle Symphony | Benaroya Hall

Seattle, Washington
seattlesymphony.org

Krishna Thiagarajan, President
& CEO, Leslie Jackson Chihuly
Chair (at the time of research)

About

The Seattle Symphony unleashes the power of music, brings people together and lifts the human spirit. Recognized as one of the “most vital American orchestras” (NPR), the Seattle Symphony is internationally acclaimed for its inventive programming, community-minded initiatives, and superb recordings on the Seattle Symphony Media label. With a strong commitment to new music and a legacy of over 150 recordings, the orchestra has garnered five Grammy Awards, 27 Grammy nominations, two Emmy Awards and was named Gramophone’s 2018 Orchestra of the Year. The Symphony performs in Benaroya Hall in the heart of downtown Seattle from September through July, reaching over 750,000 people annually through live performances and radio broadcasts, and through the Seattle Symphony+ streaming service, the orchestra’s concerts reach audiences at home and around the world.

Mission

The Seattle Symphony unleashes the power of music, brings people together, and lifts the human spirit.

Values

Excellence · Innovation · Curiosity · Collaboration
· Respect · Inclusivity · Integrity · Service

To learn more visit:
seattlesymphony.org

YAMA Yakima Music en Acción

Yakima, Washington
yamamusic.org

Stephanie Hsu, Founding
Executive Director

About

The YAMA Preludio Orchestra is where YAMA students begin their musical journeys. A focus on building a strong musical and group foundation is emphasized. Students in the Preludio Orchestra play great music from all around the world, often arranged by YAMA Staff, each chosen specifically to help them reach our musical goals. Every quarter, Preludio students will be nominated by a Teaching Artist to audition for a chance to enter the Chamber Orchestra.

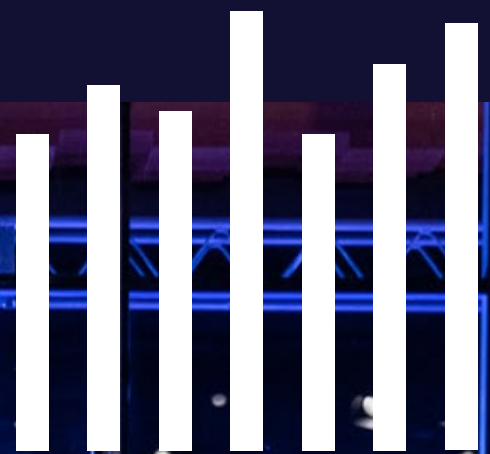
The YAMA Chamber Orchestra consists of our most advanced 1st, 2nd, and 3rd year instrumentalists. Students in the Chamber Orchestra tackle longer pieces (some unarranged classical masterpieces), are required to take their instruments home for practice, and serve as peer teachers to our newer YAMA students when asked.

The YAMA Philharmonia Orchestra, which consists of our most advanced students, is a four day a week intensive workshop to further students’ understanding of their instruments and offer critical thinking and leadership development. Students of Philharmonia will also be offered the chance to travel to the Garfield site to serve as Assistant Teachers.

To learn more visit:
yamamusic.org



APPENDIX B: DETAILED METHODOLOGY



The initial scoping phase of this project involved discussions among SMU DataArts, ArtsFund staff, and an advisory board composed of arts leaders representing different art forms and regions of Washington. Through an iterative discussion, we identified topic areas of interest, explored data availability for those topic areas, and refined the research question and framing to identify what data were available and limitations of the various data sources.

The analysis began with a data integration process that involved cleaning and consolidating county-level data for Washington State. This model examines the impact of arts-related variables at the Census tract level within Washington State. By zooming in to this level of detail, the study provides insights into how arts investments affect individual communities, accounting for local variations that are often masked in broader datasets. This research applied standard processes of outlier identification and mitigation through removal or winsorization where appropriate.

This model utilizes a series of arts input variables and control variables to assess their relationships with 24 different community outcomes. In these models we adjust all relevant values so that they are measured on a per capita basis at the Census tract-level. This multi-layered approach allows for a detailed examination of how arts funding and organizational presence correlate with various indicators of community health and economic prosperity.

What Kinds of Cultural Resources Were Considered?

We tested a wide range of cultural resources (inputs to our model) in three key categories as shown in Table 3, below: dollars flowing through the arts, arts providers, and public support of the arts. We only considered variables which had data available for every census tract or county within Washington State within the 3-year period of 2020-2022. Unfortunately, this set of cultural resources doesn't include measures of arts participation because rates of arts participation aren't available at the county level.

TABLE 3: Arts-Related Inputs

Metric	Measures	Source
Arts Providers		
	Number of Nonprofit Arts Organizations	IRS Business Master File, NTEE "A" Organizations
	Distance between residents and arts orgs	Census Block Group Centroid to Nearest Nonprofit Arts Org
Arts Dollars/ Public Support		
	Dollars awarded by the Washington State Arts Commission	Washington State Arts Commission: https://www.arts.wa.gov/wp-content/uploads/2022/05/GTO_FY22_Webpage-Archive_Full.pdf
	Government Support	As listed on 990 and 990PFs
Controls		
	Population	Census American Community Survey
	Rural vs Non-Rural Communities	US OMB Defines "Rural" as a county that is not part of a Core Based Statistical Area (CBSA)
	Socio-Economics	Census American Community Survey/SMU DataArts
Other		
	Arts Vibrancy Metrics	SMU DataArts

Ultimately, we found that connections between two types of cultural resources and community livability were particularly strong: the concentration of nonprofit arts and culture organizations and the level of state funding of arts and culture in a neighborhood.

A range of twenty-four community livability variables were measured across the state (see table 4 on the next page).

TABLE 4: Community-Related Outputs

Metric	Measures	Source
Social Connection & Cohesion		
	Voting registration/eligibility	Washington Secretary of State
	Volunteerism	Extracted from full 990s of all nonprofits
	Non-arts Nonprofit Gathering Places	IRS Business Master File, NTEE codes: 'B70','P28','X20','X21','X22','X30','X40','X50','X70','P81'
	Rate of living alone	Census American Community Survey
Safety		
	Crime rates	Washington State Statistical Analysis Center
	Government Support	As listed on 990 and 990PFs
Economic Opportunity & Supports		
	Unemployment Rates	Census American Community Survey
	Graduation Rates	Census American Community Survey
	Local Government Tourism Expenses	Washington State Open Data Portal
	Hotel/Motel Tax Revenues	Washington State Open Data Portal
Health		
	Physical Health	CDC PLACES: Local Data for Better Health
	Mental Health	CDC PLACES: Local Data for Better Health
	Overall Health	CDC PLACES: Local Data for Better Health
Housing		
	Subsidized Housing	National Housing Preservation Database
	% Owner Occupied Housing	Census American Community Survey
	% Renter Occupied Housing	Census American Community Survey

Controlling the Analysis to Compare “Like” Communities

We included a range of control variables to ensure that our analysis removed dimensions of communities from consideration that are not the focus of the investigation and might influence the outcomes. This helps ensure that we’re effectively comparing similar communities by holding other dimensions constant while we examine the relationship we’re interested in. The control variables in this study include rural/urban classification as defined by the US Office of Management and Budget, population, and a composite measure of socioeconomic status (income, education, and employment status).

The regression model which includes control variables is provided below in Table 5.



TABLE 5: Regression Model at the Census Block Level in Washington

	P-value	RSquared	Adjusted RSquared	Nonprofit Arts Organizations Per Capita	Rural Flag	ArtsWA Grant Dollars Per Capita	Constant
Active Voters per capita	0	0.95	0.95	14494.57***	-39.28***	1.58***	-15.66**
Count Fair or Poor Health per capita	0	0.11	0.1	0.71	-0.01	-0.0***	0.15***
Count Nonprofit Gathering Space Orgs per capita	0	0.16	0.16	0.32***	0	0	0.0***
Percent of those 65+ Living Alone	0	0.06	0.05	4380.12	54.7**	-0.26***	255.5***
Count Mental Health Not Good per capita	0	0.08	0.07	-2.13	-0.03*	-0.0***	0.12***
Count Physical Health Not Good per capita	0	0.11	0.11	-0.06	-0.01	-0.0***	0.1***
Hotel and Motel Tax Revenue per capita	0	0.99	0.99	3317.51	278.34***	46.01***	-44.72
Income Inequality (Gini Index)	0	0.57	0.57	-4.55***	0.04***	0.0***	0.43***
Nonprofit Volunteer Count per capita	0	0.16	0.16	518.86***	-0.16	0	0

* for p < 0.1, ** for p < 0.05, *** for p < 0.01

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