



# Washington, D.C.

## Performing Arts Research Coalition Community Report

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THE PEW CHARITABLE TRUSTS



## Performing Arts Research Coalition Community Report

Findings from a 2002 Household Survey of the Greater  
Washington Metropolitan Area

*Mary Kopczynski and Mark Hager of the Urban Institute*

A collaborative project of the Association of Performing Arts  
Presenters, American Symphony Orchestra League, Dance/USA,  
OPERA America, and Theatre Communications Group, Supported  
by The Pew Charitable Trusts

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Mary Kopczynski and Mark Hager  
The Urban Institute



## ABOUT THE PARC PROJECT

The Performing Arts Research Coalition (PARC) brings together five major national service organizations (NSOs) in the performing arts—the American Symphony Orchestra League, the Association of Performing Arts Presenters, Dance/USA, OPERA America, and Theatre Communications Group—to improve and coordinate the way performing arts organizations gather information on their sector.

This unprecedented collaborative effort is coordinated by OPERA America and supported by a three-year, \$2.7 million grant to OPERA America from The Pew Charitable Trusts.

Working with the Urban Institute, a leading nonprofit research organization in Washington, D.C., the project is collecting data in 10 pilot communities: Alaska, Cincinnati, Denver, Pittsburgh, Seattle, Austin, Boston, Minneapolis–St. Paul, Sarasota (FL), and Washington, D.C.

Information is being gathered on administrative expenditures and revenues of performing arts organizations, the value of the performing arts as experienced by both attenders and nonattenders of arts events, and audience and subscriber satisfaction with performances and related activities.

The findings from these various research activities are expected to help performing arts organizations across the country improve their management capacity, strengthen their cross-disciplinary collaboration, increase their responsiveness to their communities, and strengthen local and national advocacy efforts on behalf of American arts and culture.

Research findings will be available each year of the initiative, and a summary analysis will be released in 2004. The national service organizations are regularly sharing findings with their members, policymakers, and the press, indicating how this information could be used to increase participation in and support for the arts, locally and nationally.

For further information, please contact OPERA America at (202) 293-4466.

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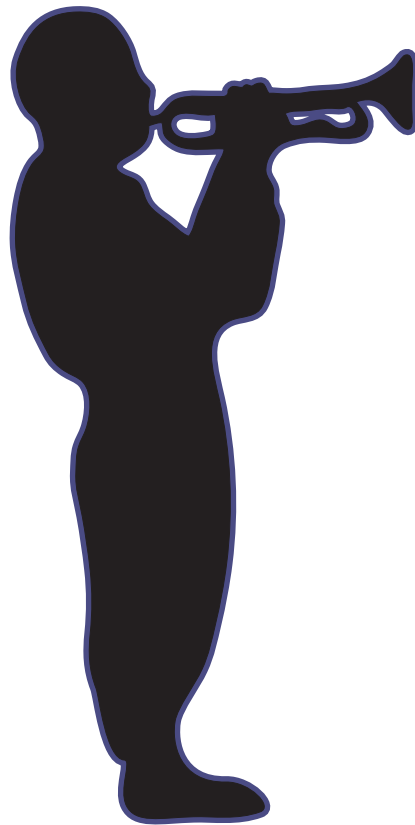
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# Foreword

Washington, D.C., is much more than the nation's capital. It is part of a region of multiple dimensions and of considerable complexity, a diverse network of neighborhoods, civic associations, and cultural organizations. To better understand this community and how people in greater Washington perceive the performing arts, the member organizations of the Washington Area Performing Arts Research Coalition (DC-PARC) came together in 2001 to conduct audience and subscriber surveys and to consider findings from the area's first cross-discipline survey of the performing arts. The initial results of that household survey are presented in this report.

*Washington area residents care deeply about the performing arts.* The study dispels the myth of an "arts elite," painting a picture of an audience for the performing arts that is *economically diverse with adult participants representing all education levels and ages.* In large part this report reinforces the "coming of age" of the performing arts community in greater Washington in the past generation. The greater Washington region is alive with arts performances. It continues to grow, as witnessed by the opening of five major performing arts centers in the past ten years (and one more under construction)!

Consider these results:

- Greater Washington residents attend live performances in numbers far higher than the national average...and even more than they attend professional sporting events.
- One out of every six Washington area residents attends professional performing arts events at least once a month.
- Greater Washington residents believe that the performing arts are valuable to the education and development of children and to the region's quality of life.

The study has also identified opportunities to strengthen the greater Washington cultural community. A recent economic impact study found that the region's 26,000 full-time arts jobs created nearly \$896 million in personal income for residents.<sup>1</sup> Despite this strong evidence of economic impact, the DC-PARC survey results show that only 44 percent of respondents believe strongly that the performing arts contribute to the area economy.

The DC-PARC collaboration is only the beginning of long-term partnerships that will sustain and strengthen the arts in the Washington area for years to come. Its innovative audience survey methodology has increased the response rate so that new voices can be heard. Teams of American University graduate arts management students assisted several DC-PARC organizations to administer surveys, providing a valuable resource for smaller-staffed organizations and introducing a new generation of arts leaders to the processes and benefits of audience research.

Robert Goler, Arts Management Program, American University  
Jo Hodgkin, Wolf Trap Foundation for the Performing Arts  
on behalf of the Greater Washington Area PARC Working Group

<sup>1</sup>American for the Arts. 2001. Economic Impact Study of the Arts and Culture in Greater Washington. Washington, D.C.: Author.

# Preface

The Performing Arts Research Coalition—PARC—provides a historic opportunity for five national service organizations to work together in an unprecedented three-year project to measure the level of participation in and support for the arts in 10 communities across the country.

A second set of findings from this project—the results of household surveys conducted in the metropolitan areas of Austin, Boston, Minneapolis–St. Paul, Sarasota, and Washington, D.C.—are now available. They enable us to draw a detailed picture of the value of the performing arts to individuals and their communities, and to offer a greater understanding of the perceived obstacles to greater attendance.

The findings are extremely encouraging. They reveal an arts audience far larger and more diverse than currently believed, comparable in size to audiences for sports. Support for the performing arts also appears to be broad, with far-reaching cultural, social, and educational implications. Attendance at arts events, for example, was perceived by attenders and nonattenders alike to be of significant value to communities, and especially important to the development and education of children. Several attendance barriers cited were primarily perceptual; for example, potential audiences did not fully appreciate the ease of attending performances and the accessibility of the arts experience.

Such information should be useful to a variety of stakeholders, including policymakers evaluating the role of government in supporting the arts; funders needing hard data on which to base and increase their financial support of the arts; media seeking a wider consumer base; and managers of arts organizations tackling the twin challenges of increasing and diversifying their audiences.

The size and breadth of the performing arts audience also suggest an appetite for expanded arts coverage in newspapers, radio, and television, and that arts coverage should perhaps be considered in broader terms than performance reviews. Grantmakers may be interested in placing their arts support in the larger context of the range of civic benefits that derive from arts attendance.

Local initiatives that improve parking and reduce perceived and real obstacles to convenience and safety could have a significant impact on the size of the arts audience and frequency of attendance, particularly if such efforts are combined with communication strategies that introduce more people to the arts experience.

We invite you to review on the following pages these common threads and to reflect on the vibrant picture they paint of the high levels of participation in and appreciation for the performing arts in these five communities. In closing, PARC wishes to convey how indebted the coalition is to the generous support of The Pew Charitable Trusts and to the outstanding service of the Urban Institute in designing and administering this project.

Marc A. Scorca  
OPERA America President and CEO  
PARC Project Coordinator

# Highlights from Five Communities

Following are the key findings from the five household surveys conducted in the metropolitan areas of Austin, Boston, Minneapolis–St. Paul, Sarasota, and Washington, D.C. The findings cover participation rates, characteristics of attenders, perceived value of the performing arts to individuals and to communities, and barriers to greater attendance.

## PARTICIPATION RATES

The research indicates that attendance at live professional performing arts events, at least on an occasional basis, is an activity enjoyed by a significant majority of adults in the five communities studied. The notion that the performing arts only appeal to a narrow segment of the general public does not appear to be accurate.

- **Attendance Levels:** Approximately three-quarters of respondents reported attending a live professional performing arts event in the past 12 months. These numbers range from 78 percent (in the Boston metro area) to 71 percent (in Sarasota-Manatee). Frequent attenders, defined as those who attended at least 12 performances over the past year, range from 17 percent of respondents (in the Washington, D.C., metro area) to 11 percent (in the Minneapolis–St. Paul metro area).
- **Arts vs. Sporting Events:** In all five communities, more people have attended a live performing arts event at least once in the past year than have attended a professional sporting event. However, arts attenders are active citizens who participate in a wide range of activities and volunteer for organizations in their community.



- ***Performing Arts and Leisure Activities:*** The research confirms that frequent performing arts attenders are also the most frequent attenders of other leisure activities, including sporting events, movies, festivals, museums, and popular concerts. Attenders were generally more involved with these activities than nonattenders of performing arts events. Rather than an “arts” versus “other activities” distinction, the findings suggest that people generally are either involved in community activities (be it attendance at performing arts activities or otherwise) or they are not.
- ***Performing Arts and Volunteering:*** In all five communities, arts attenders and frequent arts attenders are considerably more likely to volunteer than are nonattenders—not just for arts organizations, but generally in their communities. Although there is clear evidence to support this relationship, the data cannot be used to suggest that attendance at performing arts results in higher levels of volunteerism. Nonetheless, arts attenders display characteristics that are conducive to greater civic engagement and stronger communities.

### CHARACTERISTICS OF ATTENDERS

The arts audience is diverse. It includes people from all age groups and income levels, and is not limited, as is commonly believed, to older and affluent individuals.

- ***Age and Attendance:*** The most noteworthy finding from the surveys is the lack of a strong relationship between age and level of attendance.
- ***Household Income and Attendance:*** Nonattenders show a trend toward lower incomes and frequent attenders show a trend toward higher incomes. The finding is stronger in some communities than in others, and is weakest in Austin where respondents from the lowest income households are as likely to be frequent attenders as respondents from highest income households.
- ***Education and Attendance:*** There is a strong relationship between education level and category of attendance. That is, as education level increases, so also does the percentage of respondents who are attenders or frequent attenders.

### VALUE OF THE PERFORMING ARTS TO THE INDIVIDUAL

The research indicates clearly that arts attenders place a very high value on the role of the arts in their lives in terms of enjoyment, their understanding of themselves and other cultures, creativity, and connection to their communities. This holds true across age groups, income levels, and the presence or absence of children at home.

- ***Offers Enjoyment:*** A strong majority of respondents have strong opinions about the level of enjoyment derived from live performing arts. More than 80 percent of respondents strongly agree or agree that the arts are enjoyable.

- **Factors Related to Enjoyment:** As level of education increases, so does the percentage of respondents who strongly agree with the statement that attending live performances is enjoyable. Enjoyment is unrelated to household income level, except in Sarasota where higher household incomes are associated with greater levels of arts enjoyment.
- **Factors Unrelated to Enjoyment:** Age and the presence of children at home are largely unrelated to the degree to which respondents find live performing arts to be enjoyable.
- **Stimulates Critical Thinking:** In all cities, more than three-quarters of respondents also strongly agree or agree that attending live performing arts is thought provoking.
- **Factors Related to Critical Thinking:** The strong belief that the performing arts are thought provoking does not differ substantially by household income level, age, or the presence of children in the home. However, consistent with expectations, this belief is held most commonly by frequent attenders and least commonly by nonattenders.
- **Increases Cultural Understanding:** Respondents in each of the five communities have similar views regarding the extent to which live performing arts help them better understand other cultures. Overall, between 70 percent (in the Minneapolis–St. Paul metro area) and 79 percent (in the Washington, D.C., metro area) of respondents strongly agree or agree with this statement. This strong level of agreement holds regardless of education, income, age, or whether or not there are children at home.
- **Encourages Creativity:** More than 60 percent of respondents in each community strongly agree or agree that attending live performing arts encourages them to be more creative. Education level and household income (except in greater Austin) play little role in whether one feels strongly that attending live performing arts encourages higher levels of creativity. However, younger respondents are more inclined to agree than are older respondents that attending live performing arts encourages them to be more creative.

## VALUE OF PERFORMING ARTS TO COMMUNITIES

Attenders place an even greater value on the arts in their communities than they do in their own lives. They believe strongly that the arts *improve the quality of life* and are a *source of community pride, promote understanding of other people and different ways of life, help preserve and share cultural heritage, provide opportunities to socialize, and contribute to lifelong learning in adults.* Above all, they believe that the arts *contribute to the education and development of children.* Especially noteworthy is the fact that many nonattenders also share similar views.

- **Individual vs. Community Value:** The percentage of respondents with positive opinions about the value of the arts to their community is even higher than that reported in the preceding section. This suggests that people place a higher value on the arts in their communities than they place on the value of the performing arts in their own lives.

Combining the percentages of respondents who strongly agree and agree with each of these statements, more than three-quarters are in agreement, in every community, with every statement in the survey about community values.

- **Value to Children:** At least 9 out of 10 respondents in each of the five communities either strongly agree or agree that the performing arts contribute to the education and development of children. These opinions about the contributions made by the performing arts to the education and development of children are held consistently, regardless of education level, income, age, presence of children, or frequency of attendance.
- **Increased Quality of Life:** More than 8 out of 10 respondents strongly agree or agree that the performing arts improve the quality of life in their community.
- **Preserves Cultural Heritage:** At least 9 out of 10 respondents in each of the five communities strongly agree or agree with the statement that the arts help preserve and share cultural heritage. Among these respondents, the research finds no relationship between this belief and education level, income level, or the presence of children at home. Even nonattenders strongly agree or agree with this statement in relatively large numbers.
- **Strengthens Local Economy:** The percentage of respondents who strongly agree or agree that the performing arts contribute to the local economy is slightly lower than for other community values considered in this study. However, the percentage of respondents that strongly agree is considerably lower than for most of the other community values.

## BARRIERS TO ATTENDANCE

There are, of course, barriers to arts attendance among nonattenders and barriers to more frequent attendance among those who already attend arts performances. What is particularly interesting is that, despite what some might suspect, the cost of tickets is not the leading barrier.

- **Key Barriers:** Of the 11 barriers suggested in the survey, only *prefer to spend leisure time in other ways* and *hard to make time to go out* are cited by a majority of respondents in all five communities as a big or moderate reason. *Cost of tickets* is cited by a majority in all communities except Sarasota, and *difficulty or cost of getting to or parking at events* is a big or moderate issue for a majority of respondents in Austin and Boston. *Cost of tickets* ranks second or third across the sites, never first.
- **Prefer Spending Time Elsewhere:** Between one-quarter and one-third of respondents in each community indicate that their *preference to spend leisure time in other ways* is a big reason why they do not attend more performing arts events. The preference to spend leisure

time in other ways is the factor that most clearly differentiates attenders from nonattenders in all five communities.

- **Difficulty Finding Time:** Interestingly, attenders and frequent attenders are almost as likely as nonattenders to say that *hard to make time to go out* is a substantial barrier. The main variable that makes this a big factor for more people is the presence or absence of children in the home.
- **Cost of Tickets:** The cost of tickets is the only “big” barrier that attenders cite more often than nonattenders or frequent attenders. Especially noteworthy is the fact that *cost of tickets* as a barrier to performing arts attendance is substantially unrelated to education level, age, or whether there are children in the home.

The research makes clear that attenders and frequent attenders share the same concerns about limited time and the cost of tickets with nonattenders. Yet the first two groups find attendance at the arts sufficiently rewarding to overcome these obstacles. Artists and arts organizations have the challenge of offering performances of sufficient quality, supported by strong customer service and community programs, to help potential attenders and frequent attenders overcome these barriers.

Other obstacles cited less often by attenders and nonattenders also offer arts organizations an opportunity to build audiences by overcoming barriers of perception.

- **Lack of Appeal:** The statement that the *performing arts do not appeal* is cited as a big barrier by between 6 and 12 percent of respondents in the five communities. This barrier clearly is tied to education level and, as might be expected, clearly differentiates attenders from nonattenders. Performing arts organizations might consider increasing community programs and adult education activities that could help build an interest in the arts among nonattenders.
- **Feel Out of Place:** A number of nonattenders said they *feel uncomfortable or out of place at performing arts events*, although fewer people cite this as a big barrier, and the relationship with education is much weaker in all communities. Performing arts organizations might wish to examine the way audiences are greeted and made to feel welcome upon entering the theater and before performances, during intermissions, and at the conclusion of the event.

An additional barrier is the *difficulty or cost of getting to or parking at events*, which varies in importance by community. This particular obstacle could be addressed by arts organizations if they are in a position to make special parking arrangements for their audiences. Similarly, the belief that *performances are in unsafe or unfamiliar locations* could be mitigated by improved lighting, more visible security, and general awareness of the needs of the audience beyond the final applause.

# Greater Washington Household Survey Findings

From October to December of 2002, 821 residents of the greater Washington, D.C., area responded to a telephone household survey designed by the Urban Institute in collaboration with PARC to elicit information about the frequency and pattern of their attendance at live performing arts events. The survey also probed their attitudes toward the value of the performing arts to their personal lives and to their community. This report provides the key findings from that survey.

Findings from the greater Washington survey should interest participating members of the performing arts collaborative, local businesses, government officials, and residents of the Washington area. By using this information, arts organizations will be better positioned to enhance their leadership role in the Washington community and nationally. They also may find the information helpful in efforts to improve their organizational management and identify opportunities for greater participation of individuals in performing arts activities.

## HOW THE REPORT IS ORGANIZED

The report provides a snapshot of the level of attendance at and appreciation for the performing arts in the greater Washington area. It is organized around four key topics:

- **Attendance at Performing Arts Events:** How often do Washington area residents attend live performing arts events? Does frequency differ by income, age, education, the presence of children in the household, or voting behavior?
- **Perceived Value of the Performing Arts to Individuals:** What do the residents think about the value of the performing arts in their own lives? Do attitudes vary by such characteristics as age and income?

- **Perceived Value of the Performing Arts to the Community:** What are residents' attitudes about the value of the performing arts to the community as a whole? Do attitudes reflect income, education, or age characteristics?
- **Barriers to Participation:** What do residents think are the biggest obstacles to greater attendance at performing arts events?

The information from the survey, which provides answers to these and other similar questions, is presented in tabular form with accompanying explanatory text. The tables provide the basic information from which the reader can make any number of inferences, depending on the interests of the organization or individual reviewing the information. The text notes the most striking findings in each table and is designed to enable a reader to review the survey results quickly and easily.

A statistic called Somer's d is used in a number of tables to show the relationship between two variables. Somer's d values of less than -0.15 or higher than +0.15 are worth your attention, while values closer to zero indicate a weak or even nonexistent relationship between variables. For a full discussion of Somer's d values, please see page 54 in the section on methodology.

## CHARACTERISTICS OF WASHINGTON AREA RESPONDENTS

The information in this report is based on a survey of residents from the District of Columbia, Montgomery and Prince George's counties in Maryland, and Arlington and Fairfax counties, and the city of Alexandria in Virginia. Washington area residents who responded to the survey

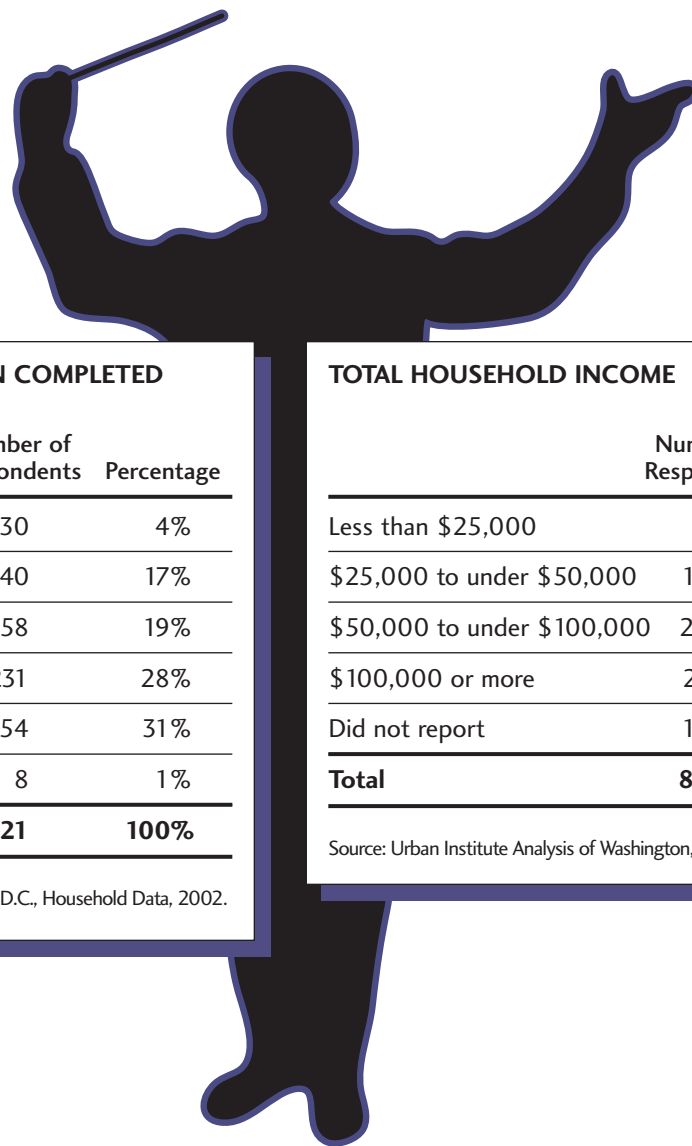
### PARC PARTNERS IN THE GREATER WASHINGTON AREA

- American University
- Arena Stage
- Clarice Smith Performing Arts Center at Maryland
- Ford's Theatre
- GALA Hispanic Theatre
- Joy of Motion Dance Center
- The John F. Kennedy Center for the Performing Arts
- The Shakespeare Theatre
- Strathmore Hall Arts Center
- The Studio Theatre
- Washington Bach Consort
- The Washington Ballet
- Washington Performing Arts Society
- Wolf Trap Foundation for the Performing Arts

reflect the diverse education levels, household incomes, ages, and household compositions of the community. This diversity enables us to compare reported attitudes and behaviors of respondents by these characteristics. The result is a complex and nuanced picture of who attends live performing arts events, who does not, the value they place on such performances, and the barriers they perceive to greater attendance. The following tables show how these major characteristics are distributed among survey respondents.

Two cautions: First, a substantial number of respondents chose not to report their household income level. In the tables where we look at breakdowns by income, we include only those respondents who reported their income. Second, because of the relatively small numbers of respondents in the sample who completed only elementary school, who earn less than \$25,000, or who are under the age of 25, readers should be careful not to draw major conclusions about these groups of respondents.

The respondents are 54 percent white, 28 percent black, 8 percent Hispanic/Latino, 6 percent Asian/Pacific Islander, 1 percent mixed race and less than 1 percent American Indian or Alaskan Native. Three percent of respondents did not report their race/ethnicity.



#### HIGHEST LEVEL OF EDUCATION COMPLETED

	Number of Respondents	Percentage
Elementary school	30	4%
High School or GED	140	17%
Junior college or tech school	158	19%
Four-year college or university	231	28%
Post-graduate degree	254	31%
Did not report	8	1%
<b>Total</b>	<b>821</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

#### TOTAL HOUSEHOLD INCOME

	Number of Respondents	Percentage
Less than \$25,000	64	8%
\$25,000 to under \$50,000	152	19%
\$50,000 to under \$100,000	223	27%
\$100,000 or more	210	26%
Did not report	172	21%
<b>Total</b>	<b>821</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.



### AGE

	Number of Respondents	Percentage
Under 25	73	9%
25-34	174	21%
35-44	183	22%
45-54	165	20%
55-64	113	14%
65 and over	92	11%
Did not report	21	3%
<b>Total</b>	<b>821</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

### HOW OFTEN WOULD YOU SAY YOU VOTE?

	Number of Respondents	Percentage
Never	106	13%
Once in awhile	55	7%
About half the time	37	4%
Most of the time	160	19%
Always	448	55%
Did not report	15	2%
<b>Total</b>	<b>821</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

### CHILDREN IN THE HOUSEHOLD

	Number of Respondents	Percentage
No children at home	491	60%
Children under 13 years of age	240	29%
Children 13 years and older	125	15%
Did not report	11	1%

Total does not equal 100% because some families have children both under and over the age of 13.

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Percentage totals in this report may not always add to 100 percent because of rounding.



# Attendance

Attendance is the most common measure of how much people value the performing arts. This section focuses on attendance, but also considers related behaviors such as listening to recorded media, watching performances on public television, and participating personally in performing arts activities.

To gauge respondents' attendance levels, we asked them about their attendance at a variety of live, professional performing arts events in the past year. Respondents were instructed to exclude attendance at elementary, middle, or high school productions. For example, we asked people how many times they had attended a live, professional dance performance such as ballet, modern/contemporary or a culturally specific dance performance in the past 12 months. We asked similar questions about attendance at opera, theatre, and symphony performances.

We also included a catchall "other discipline" category. The examples given to respondents for this category were chamber music, jazz, folk or traditional arts, and festivals. This category is meant to include the full range of performing arts activities that respondents could not group under dance, opera, theatre, or symphony.

## HIGHLIGHTS

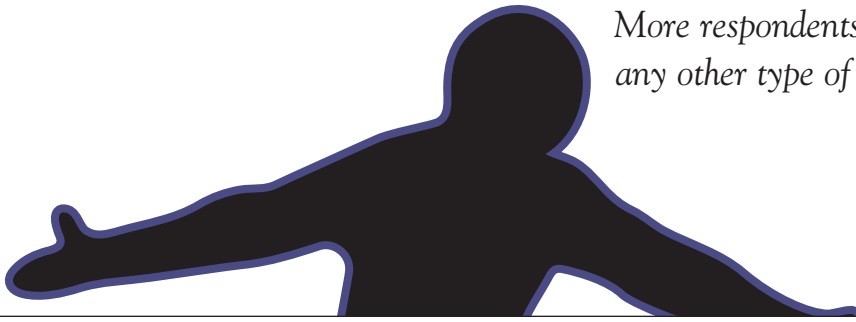
**Attendance Levels Vary:** More than three out of four Washington area residents went to a live, professional performing arts presentation last year. Of those, about one in five were frequent attenders, meaning they attended 12 or more performances.

**Education Matters:** People with higher levels of education are more likely to attend performing arts events. Increasing levels of household income are somewhat more weakly associated with attendance.

**Age Is Not a Factor:** Attendance levels do not vary substantially by age category.

**Participation Takes Several Forms:** Frequent attenders are more likely to enjoy recorded presentations and to be personally involved in the performing arts by playing music, singing, or otherwise performing their own art. However, a substantial number of nonattenders also participate in these ways.

**Frequent Attenders Do More Than Just Attend Live Arts Events:** Frequent performing arts attenders are also more frequent attenders of such activities as the movies, sporting events, and pop/rock concerts. This suggests that attenders are better characterized as “generally involved” rather than “arts lovers.”



More respondents say they attended theatre than any other type of performing arts event.

TABLE 2.1

**ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN THE PAST 12 MONTHS, BY DISCIPLINE**

Discipline	Percent Attending At Least One Performance	Average Number of Performances (nonattenders included)	Average Number of Performances (discipline attenders only)*
Dance	39%	1.4	3.5
Opera	14%	0.4	3.1
Theatre	59%	2.0	3.3
Symphony	34%	1.2	3.6
Other	52%	2.1	4.0
<b>Any Discipline</b>	<b>77%</b>	<b>7.0</b>	<b>9.1</b>

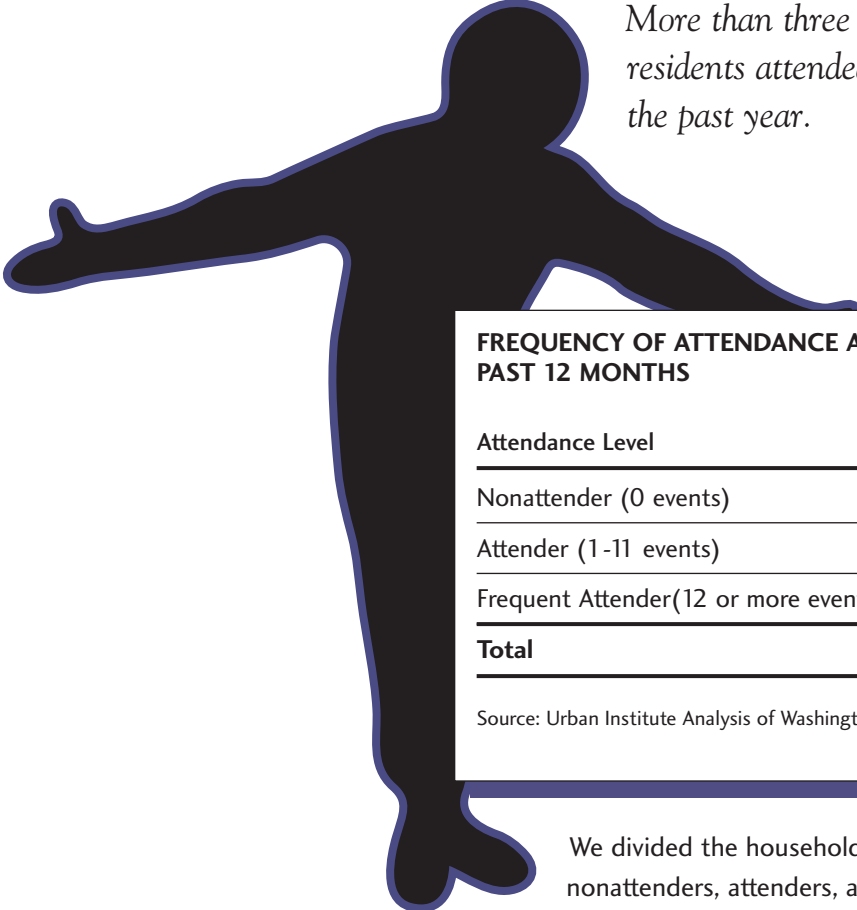
Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

About three in five respondents said they had been to a live professional play or musical in the past 12 months. The discipline that captures the smallest percentage of the general population is opera, with 14 percent of respondents attending in the past year. While this percentage is low in comparison to other disciplines, it is well above the national average for opera attendance.

Including the 41 percent of respondents who did not go to a play or musical in the past year, the average respondent went 2.0 times. In contrast the average respondent attended less than one (0.4) opera performance last year. While comparatively few people in the greater Washington area attend opera, those who do attend say that they saw on average about three operas (3.1) last year.

Seventy-seven percent of respondents reported attending at least one performing arts event in the past 12 months. This leaves 23 percent of respondents that we refer to as “nonattenders.”

\* This column shows average attendance for respondents who say *they have* attended a particular type of performance (for example, dance), while the middle column shows averages that also include respondents who *have not* attended.



*More than three out of four Washington area residents attended a live performing arts event in the past year.*

TABLE 2.2

**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN PAST 12 MONTHS**

Attendance Level	Number	Percentage
Nonattender (0 events)	189	23%
Attender (1-11 events)	492	60%
Frequent Attender(12 or more events)	140	17%
<b>Total</b>	<b>821</b>	<b>100%</b>

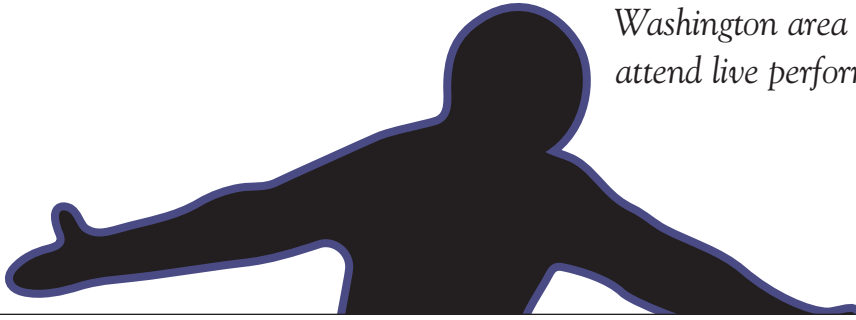
Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

We divided the household survey respondents into three groups: nonattenders, attenders, and frequent attenders. These distinctions are important because we expect that the way people feel about the performing arts and about the factors that keep them from attending performances more often will be related to their frequency of attendance. Thus, in the remainder of this section and in the sections to come, we report differences among these three categories of performing arts attenders.

One in five Washington area residents who attend performing arts events went to 12 or more events in the past year. Three in five respondents say they attend arts events, but less frequently than once a month. Our meetings with community working groups indicate that breaking out the middle (attender) category would provide useful distinctions for performing arts managers. Future research should take a closer look at differences between people who attend one to three times a year and those who attend more frequently.

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Several contemporary studies of arts attendance have discussed differences among nonattenders, infrequent or moderate attenders, and frequent attenders. However, these discussions are usually not faced with the difficulty of defining what number of performances differentiates one category of attender from another. In this study, we place the break between attenders and frequent attenders at 12 performances.



*Washington area residents with more education attend live performing arts events more often.*

TABLE 2.3

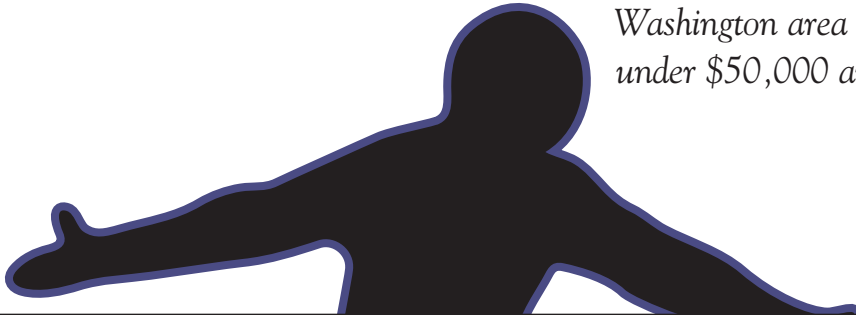
**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN PAST 12 MONTHS, BY EDUCATION**

Attendance Level	All	Elementary School	High School or GED	Junior College or Tech School	Four-year College or University	Post-graduate
Nonattender	23%	57%	49%	25%	15%	10%
Attender	60%	33%	42%	67%	65%	65%
Frequent Attender	17%	10%	9%	8%	20%	26%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Education level is positively related to attendance level. Among respondents whose highest level of completed education is high school or less, a substantial number did not attend a performing arts event in the past 12 months. The percentage of nonattenders decreases steadily as level of education increases. Among the most educated, only 10 percent are nonattenders. Washington area residents with a four-year or postgraduate degree are more than twice as likely to be frequent attenders than respondents with lower education levels.

As described in the methodology section at the end of the report, a measure of association called Somer's d can give us an indication of the strength of the relationship between two variables. The value of Somer's d for education level and the three categories of attendance is +0.26. The positive sign tells us that there is an overall association between higher education level and higher level of attendance in the performing arts. The magnitude of the statistic (0.26) is worth paying attention to because it exceeds our guideline of 0.15 and above for noting the presence of a relationship between two variables. Thus, we conclude that education level is positively associated with attendance level.



Washington area residents with household income under \$50,000 are more likely to be nonattenders.

TABLE 2.4

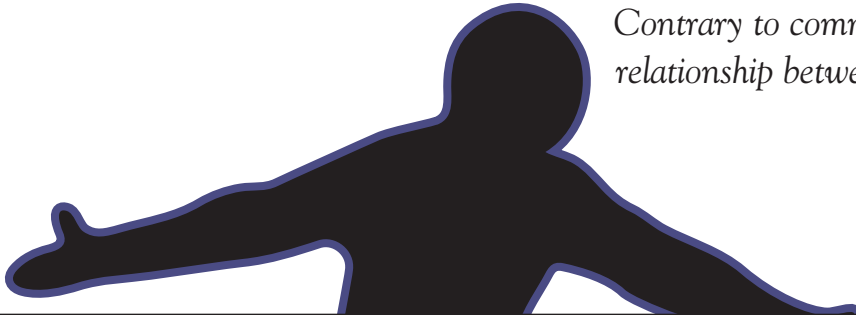
**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN PAST 12 MONTHS, BY HOUSEHOLD INCOME**

Attendance Level	All	Less than \$25,000	\$25,000 to under \$50,000	\$50,000 to under \$100,000	\$100,000 or More
Nonattender	23%	31%	28%	16%	15%
Attender	60%	56%	63%	63%	61%
Frequent Attender	17%	13%	9%	21%	23%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Respondents from households with higher incomes are more likely to be frequent attenders. However, we observe hardly any variation in income within the attender category.

The Somer's d value for the overall relationship between income and attendance is +0.14.



*Contrary to common notions, there is very little relationship between age and attendance level.*

TABLE 2.5

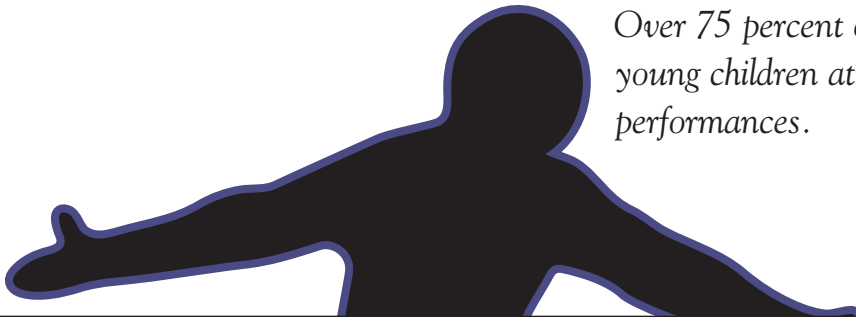
**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN PAST 12 MONTHS, BY AGE**

Attendance Level	All	Under 25	25-34	35-44	45-54	55-64	65 and Over
Nonattender	23%	26%	22%	18%	20%	27%	33%
Attender	60%	59%	65%	65%	62%	54%	47%
Frequent Attender	17%	15%	13%	18%	18%	20%	21%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

While the age category with the greatest percentage of frequent attenders is 65 and over, respondents over the age of 65 also have the highest proportion of nonattenders of any age cohort. About three-quarters of respondents under the age of 25 attended one or more performances in the past 12 months. These findings call into question the commonly held assumption that there is a “graying” of the audience for the performing arts, at least in the greater Washington area.

A Somer’s d value of +0.00 supports the conclusion that there is virtually no relationship between age and attendance level.



Over 75 percent of Washington area residents with young children at home still manage to attend live performances.

TABLE 2.6

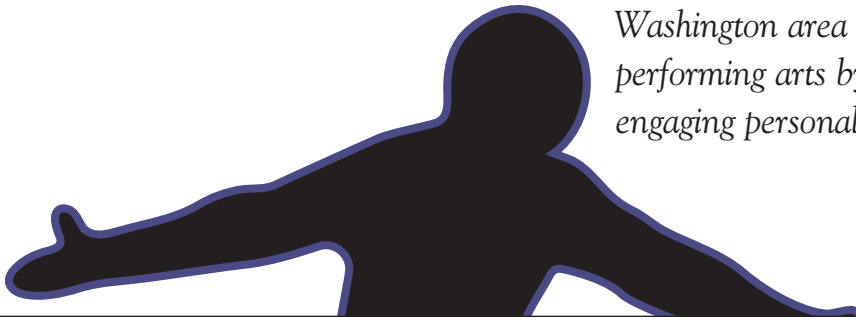
**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN PAST 12 MONTHS, BY CHILDREN IN HOME**

Attendance Level	All	No Children at Home	Children Under 13 Years of Age	Children 13 Years and Older
Nonattender	23%	21%	25%	24%
Attender	60%	61%	59%	61%
Frequent Attender	17%	19%	17%	15%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Respondents with children at home are just as likely as those without children to be performing arts attenders. Indeed, three-quarters of these respondents are attenders or frequent attenders of the performing arts.





*Washington area residents also experience the performing arts by listening to recordings and engaging personally in artistic endeavors.*

**TABLE 2.7**

**PERSONAL INVOLVEMENT IN ARTS-RELATED ACTIVITIES, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS**

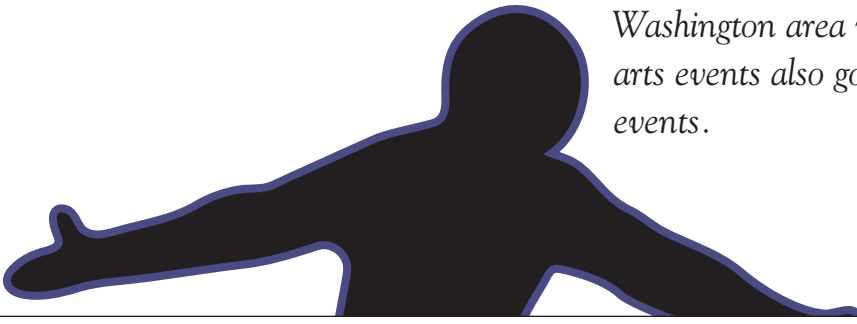
Activity	Percent Yes	Attendance Level		
		Nonattender	Attender	Frequent Attender
Listen to classical music on radio, CD	71%	53%	74%	84%
Watch performing arts on television	70%	50%	74%	82%
Play musical instrument	22%	11%	22%	39%
Sing in a choir or singing group	16%	14%	15%	19%
Perform or produce performing arts	21%	11%	21%	38%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

The majority of people in the greater Washington area report listening to recordings of classical music at least a few times a year (71 percent) and watching the performing arts on television (70 percent). Not surprisingly, frequent performing arts attenders are more likely to extend their participation to these activities than are attenders. In turn, attenders are more likely to engage in such activities than are nonattenders. Even among nonattenders, recordings and television are substantial means by which area residents enjoy the performing arts. Half of nonattenders listened to recorded classical music or watched a performing arts event on television in the past year.

Personal involvement in the arts, through playing musical instruments, singing, or performing or producing an arts event, is much more rare than is listening to recordings or watching television. However, these activities are also related to attendance and point to an alternate means by which nonattenders and attenders express their appreciation for the performing arts.

For each activity in this table, respondents were asked, “In general, over the last year, how often on average, did you [insert activity]?” Response options were every day, at least once a week, at least once a month, occasionally, or never. Occasionally was defined to mean a few times a year. Percent “Yes” reflects the percentage of respondents who reported that they participated in each activity either occasionally, monthly, weekly, or daily.



*Washington area residents who attend performing arts events also go frequently to other leisure events.*

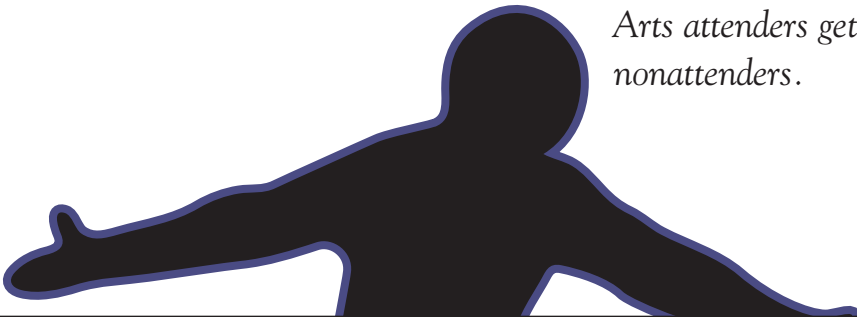
**TABLE 2.8**

**PERSONAL INVOLVEMENT IN OTHER LEISURE ACTIVITIES OVER THE PAST 12 MONTHS, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS**

Activity	Percent Yes	Average Annual Attendance	Average Annual Attendance at Each Leisure Activity by Attendance Level		
			Nonattender	Attender	Frequent Attender
Go to movies	87%	9.2	5.9	9.9	11.1
Attend professional sporting event	51%	2.6	1.8	2.7	3.5
Attend amateur sporting event	40%	2.8	1.4	3.3	3.3
Attend live pop/rock concert	34%	1.1	0.5	1.1	1.8
Attend live comedy show	28%	0.5	0.3	0.5	0.8
Go to club to hear live music or dance	51%	3.2	1.6	3.4	4.4
Go to museum or art gallery	77%	5.0	1.5	4.8	10.7
Attend a community festival, parade, etc.	78%	2.7	1.3	2.7	4.5

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Performing arts attenders go to nonperforming arts events more often than nonattenders, and frequent performing arts attenders go more often than attenders (with the exception of amateur sporting events.) These findings call into question the commonly held assumption that there is an arts/non-arts dichotomy, one that assumes a separation between those who attend the performing arts and those who attend sports, go to bars, or attend other social activities. The findings suggest that performing arts attenders are simply part of a more active segment of the greater Washington community.



*Arts attenders get to the polls more often than nonattenders.*

TABLE 2.9

**FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS IN THE PAST 12 MONTHS, BY VOTING BEHAVIOR**

Attendance Level	Vote half the time or less	Vote always or most of the time	Total
Nonattender	38%	62%	100%
Attender	22%	78%	100%
Frequent Attender	16%	84%	100%
<b>All survey respondents</b>	<b>25%</b>	<b>75%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

The idea that performing arts attenders are part of a more active segment of the community extends to voting behavior. More than three-quarters of attenders and frequent attenders vote regularly, compared with less than two-thirds of nonattenders. This finding provides another piece of evidence that arts participation is part of a larger dimension of engagement with the community.

# Value to the Individual

This section reports survey answers to a series of questions designed to capture information about the respondents' *perceptions* of the value of the performing arts. These personal attitudes provide some clues about what motivates people to attend performing arts activities, including how these motivations might differ depending on education, income, age, and frequency of attendance at performing arts events.



## HIGHLIGHTS

**Positive Attitudes Toward the Arts Predominate:** The majority of Washington area residents agree with positive statements in the survey about the role that the performing arts play in their lives. The statement that generated the most agreement is that the performing arts are *personally enjoyable* (89 percent). Somewhat fewer (61 percent) agree that the performing arts make them *feel more connected to the community*.

**Attitudes Are Strong Regardless of Demographics:** As education level increases, respondents were more likely to agree that the performing arts are *enjoyable*, while younger respondents were more likely to feel that the performing arts *encourage creativity*. However, on the whole, education, income, age, the presence of children at home, and voting behavior are largely unrelated to personal attitudes about the role of performing arts in respondents' lives.

**Attendance Is Linked to Positive Attitudes:** Overall, as attendance increases, so do positive attitudes toward the personal value of performing arts. Frequent attenders of the arts are most likely to strongly agree with most of the personal attitudes they were asked to consider.



Most Washington area residents have positive attitudes about the value of performing arts in their lives.

TABLE 3.1

**ATTITUDES TOWARD THE PERSONAL VALUE OF THE PERFORMING ARTS**

Attending Live Performing Arts...	Strongly Agree	Somewhat Agree	Neutral	Somewhat Disagree	Strongly Disagree	No Response	Total
...is enjoyable to me	68%	21%	3%	3%	3%	2%	100%
...is thought provoking	46%	34%	6%	6%	5%	3%	100%
...helps me to understand other cultures better	44%	35%	9%	5%	4%	3%	100%
...is primarily a social occasion for me	38%	35%	8%	12%	5%	2%	100%
...encourages me to be more creative	38%	32%	13%	9%	6%	2%	100%
...makes me feel more connected to my community	24%	37%	15%	13%	9%	2%	100%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

On all measures of personal value, a majority of respondents registered positive sentiments about the performing arts. However, the level of agreement with positive statements differs across the six items. Over three-quarters of respondents strongly agree or agree that attending live performing arts is *enjoyable*, *thought provoking*, or *helps me to understand other cultures better*. Respondents were more ambivalent toward the role of the performing arts in *making them feel more connected to community*.

The table on this page shows the distribution of responses for all survey respondents. For ease of presentation, the remaining tables in this section present data based on the percentage of respondents who strongly agree with each personal attitude.



Washington area residents with higher levels of education are more likely to report enjoyment of the performing arts.

TABLE 3.2

**PERSONAL ATTITUDES BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY EDUCATION**

Attending Live Performing Arts...	All	Elementary School	High School or GED	Junior College or Tech School	Four-year College or University	Post-graduate
...is enjoyable to me	68%	37%	52%	63%	74%	79%
...is thought provoking	46%	30%	36%	46%	49%	51%
...helps me to understand other cultures better	44%	47%	48%	51%	43%	41%
...is primarily a social occasion for me	38%	43%	42%	41%	42%	30%
...encourages me to be more creative	38%	43%	41%	37%	42%	33%
...makes me feel more connected to my community	24%	47%	34%	28%	23%	14%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

As education level increases, so does the percentage of respondents in each category who strongly agree with the statement that *attending live performing arts events is enjoyable*. We observe a similar, but weaker trend for the statement *attending live performing arts events is thought provoking*. Less educated respondents are somewhat more likely to feel that attending live performing arts *makes them feel connected to their community*. For the other three statements, however, respondents do not differ substantially by education level.

The relationship between education level and attending *live performing arts is enjoyable to me* results in a Somer's d of +0.16; for *attending live performing arts is thought provoking*, Somer's d is +0.13; and for *makes me feel more connected to my community*, Somer's d is -0.09.



Personal attitudes about the arts are not related to household income level.

TABLE 3.3

**PERSONAL ATTITUDES BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY HOUSEHOLD INCOME**

Attending Live Performing Arts...	All	Less than \$25,000	\$25,000 to under \$50,000	\$50,000 to under \$100,000	\$100,000 or More
...is enjoyable to me	68%	64%	60%	72%	76%
...is thought provoking	46%	44%	50%	52%	46%
...helps me to understand other cultures better	44%	56%	45%	48%	39%
...is primarily a social occasion for me	38%	45%	41%	40%	39%
...encourages me to be more creative	38%	58%	41%	40%	33%
...makes me feel more connected to my community	24%	41%	29%	27%	18%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

We observe no statistical relationship between income level and personal attitudes. However, the percentage trends suggest that more wealthy residents of the greater Washington area are more likely to find attending live performing arts *enjoyable*. Less wealthy respondents are a bit more inclined to strongly agree that attending live performing arts *helps them to understand other cultures better*, *encourages creativity*, and *makes them feel more connected to the community*.

The Somer's d for the relationship between personal attitudes and income level is not greater than 0.15 in any of these questions.





Younger Washington area residents are more likely to feel that attending live performing arts encourages them to be more creative.

TABLE 3.4

**PERSONAL ATTITUDES BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY AGE**

Attending Live Performing Arts...	All	Under 25	25-34	35-44	45-54	55-64	65 and Over
...is enjoyable to me	68%	52%	69%	73%	75%	64%	63%
...is thought provoking	46%	43%	49%	45%	49%	42%	47%
...helps me to understand other cultures better	44%	48%	46%	45%	46%	43%	37%
...is primarily a social occasion for me	38%	34%	39%	33%	43%	37%	40%
...encourages me to be more creative	38%	52%	43%	46%	36%	24%	21%
...makes me feel more connected to my community	24%	25%	23%	23%	28%	22%	22%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

As age increases, respondents are less likely to strongly agree that *attending live performing arts encourages creativity*. With the exception of the relationship between age and attitudes regarding creativity, however, we observe no relationships between personal attitudes and age.

The Somer's d value for the relationship between age and *attending live performing arts encourages me to be more creative* is -0.18.



While arts attenders have more positive attitudes than nonattenders, many of those who do not attend also strongly agree that the performing arts play a positive role in their personal lives.

TABLE 3.5

**PERSONAL ATTITUDES BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMANCES**

Attending Live Performing Arts...	All	Attendance Level		
		Nonattender	Attender	Frequent Attender
...is enjoyable to me	68%	37%	74%	90%
...is thought provoking	46%	32%	47%	62%
...helps me to understand other cultures better	44%	33%	45%	60%
...is primarily a social occasion for me	38%	35%	41%	29%
...encourages me to be more creative	38%	29%	37%	51%
...makes me feel more connected to my community	24%	20%	25%	25%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

As expected, agreement with each personal value statement tends to increase with frequency of attendance. One exception is noted for the statement that attending live performing arts *is primarily a social occasion for me*, where a smaller percentage of frequent attenders (29 percent) agree than attenders (41 percent). Also, equal percentages of attenders and frequent attenders (25 percent) strongly agree that attending live performing arts *makes me feel more connected to my community*.

# Value to the Community

This section focuses on public perceptions of the value of the performing arts to the greater Washington community. It considers relationships between perceptions about the value of performing arts to the community and various respondent characteristics. We also briefly look at the two activities of volunteering for community organizations and making financial contributions to arts organizations to see if these behaviors vary by frequency of arts attendance.



## HIGHLIGHTS

**Value to the Community More Important than Value to the Individual:** Washington area residents have somewhat more positive opinions about the value of the performing arts to their community than they do about the contribution of the arts to their own lives.

**People Believe Arts Matter for Children:** More than 7 in 10 respondents strongly agree that performing arts *contribute to the education and development of children*. This very high agreement is consistent regardless of education, age, income, presence of children in the household, or voting behavior.

**Community Engagement Patterns Vary:** Volunteer patterns differ among nonattenders and frequent attenders. Only about half of nonattenders volunteered at least once during the past year, compared with more than 8 in 10 attenders or frequent attenders.

**Giving Levels Are Low to Moderate:** Overall, only 31 percent of Washington area residents made a financial contribution to a performing arts organization in 2001. However, two-thirds of frequent attenders made a financial contribution.



*Washington area residents agree more strongly about the contributions of the performing arts to their community than about the value of performing arts to themselves.*

**TABLE 4.1**

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY**

Performing Arts...	Strongly Agree	Somewhat Agree	Neutral	Somewhat Disagree	Strongly Disagree	No Response	Total
...improve the quality of life in the greater Washington, D.C., area	58%	27%	6%	2%	2%	5%	100%
...promote understanding of other people and different ways of life	52%	35%	6%	3%	1%	3%	100%
...provide opportunities to socialize with other people	55%	35%	4%	3%	1%	2%	100%
...are a source of pride for those in the greater Washington, D.C., area	52%	32%	6%	3%	2%	5%	100%
...contribute to the education and development of children	73%	21%	2%	1%	1%	2%	100%
...contribute to lifelong learning for adults	58%	32%	3%	3%	1%	3%	100%
...help preserve and share cultural heritage	65%	28%	3%	2%	0%	2%	100%
...contribute to the economy of the greater Washington, D.C., area	44%	39%	6%	4%	2%	5%	100%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

A very high percentage of respondents (between 83 and 94 percent) say they strongly agree or somewhat agree with each of the eight statements they were asked to evaluate. In contrast, agreement on the personal value items in the preceding section ranged from 61 to 89 percent.

The table on this page shows the distribution of responses for all survey respondents. For ease of presentation, the remaining tables in this section present data based on the percentage of respondents who strongly agree with each attitude.



As people acquire more education, they are more likely to believe that the performing arts improve the quality of life in the greater Washington area.

TABLE 4.2

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY EDUCATION**

Performing Arts...	All	Elementary School	High School or GED	Junior College or Tech School	Four-year College or University	Post-graduate
...improve the quality of life in the greater Washington, D.C., area	58%	40%	34%	49%	64%	74%
...promote understanding of other people and different ways of life	52%	57%	48%	53%	53%	54%
...provide opportunities to socialize with other people	55%	63%	57%	55%	58%	51%
...are a source of pride for those in the greater Washington, D.C., area	52%	57%	46%	47%	53%	58%
...contribute to the education and development of children	73%	70%	70%	72%	72%	77%
...contribute to lifelong learning for adults	58%	60%	45%	56%	59%	65%
...help preserve and share cultural heritage	65%	63%	61%	61%	64%	71%
...contribute to the economy of the greater Washington, D.C., area	44%	63%	47%	37%	44%	45%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Respondents with higher levels of education are more likely to agree that performing arts *improve the quality of life* in the greater Washington, D.C., area. In contrast, virtually no differences are observed among education levels and the percentage of respondents who strongly agree that performing arts *contribute to the education and development of children*.

The Somer's d relationship between education level and the belief that performing arts *improve the quality of life* is +0.21.



Respondents from higher income households are more likely to strongly agree that performing arts improve quality of life.

TABLE 4.3

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY HOUSEHOLD INCOME**

Performing Arts...	All	Less than \$25,000	\$25,000 to under \$50,000	\$50,000 to under \$100,000	\$100,000 or More
...improve the quality of life in the greater Washington, D.C., area	58%	47%	43%	65%	70%
...promote understanding of other people and different ways of life	52%	48%	53%	57%	52%
...provide opportunities to socialize with other people	55%	58%	62%	61%	53%
...are a source of pride for those in the greater Washington, D.C., area	52%	48%	47%	53%	60%
...contribute to the education and development of children	73%	80%	68%	76%	77%
...contribute to lifelong learning for adults	58%	59%	55%	63%	60%
...help preserve and share cultural heritage	65%	64%	63%	70%	67%
...contribute to the economy of the greater Washington, D.C., area	44%	48%	38%	47%	48%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

A similar, but somewhat weaker trend is observed between household income and the statement, performing arts are a *source of pride* for those in the greater Washington, D.C., area. There is little or no difference by household income on opinions for any other statement.

The Somer's d for the relationship between household income and performing arts *improve the quality of life in the greater Washington, D.C., area* is +0.16; however, for *source of pride*, the Somer's d value only reaches +0.09.



People of different ages have notably similar attitudes about the role of the performing arts in their community.

TABLE 4.4

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY AGE**

Performing Arts...	All	Under 25	25-34	35-44	45-54	55-64	65 and Over
...improve the quality of life in the greater Washington, D.C., area	58%	37%	48%	65%	64%	65%	61%
...promote understanding of other people and different ways of life	52%	55%	48%	55%	57%	52%	45%
...provide opportunities to socialize with other people	55%	56%	63%	57%	54%	50%	45%
...are a source of pride for those in the greater Washington, D.C., area	52%	41%	48%	54%	54%	59%	52%
...contribute to the education and development of children	73%	73%	70%	75%	76%	74%	70%
...contribute to lifelong learning for adults	58%	45%	59%	62%	62%	57%	53%
...help preserve and share cultural heritage	65%	70%	67%	67%	68%	63%	53%
...contribute to the economy of the greater Washington, D.C., area	44%	36%	36%	50%	50%	40%	50%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

While we observe some minor variations across age categories, the overall relationship between attitudes regarding the role of performing arts in the community and the age of respondents is weak.

A Somer's d of +0.11 for performing arts *improve the quality of life* in the greater Washington, D.C., area is the strongest relationship in this table.





*More than 7 in 10 Washington area residents strongly agree that the performing arts contribute to the education and development of children.*

**TABLE 4.5**

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY CHILDREN AT HOME**

Performing Arts...	All	No Children At Home	Children Under 13 Years of Age	Children 13 Years and Older
...improve the quality of life in the greater Washington, D.C., area	58%	60%	54%	60%
...promote understanding of other people and different ways of life	52%	51%	52%	59%
...provide opportunities to socialize with other people	55%	52%	60%	62%
...are a source of pride for those in the greater Washington, D.C., area	52%	51%	54%	57%
...contribute to the education and development of children	73%	72%	75%	75%
...contribute to lifelong learning for adults	58%	56%	60%	62%
...help preserve and share cultural heritage	65%	66%	64%	71%
...contribute to the economy of the greater Washington, D.C., area	44%	44%	45%	49%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

There is strong agreement about the contribution of performing arts to the education and development of children, regardless of education, income, age, or presence of children in the household. In general, very few differences are found among respondents from households with or without children.



A substantial number of Washington area residents who do not attend performing arts events feel positively about the role of the arts in their community.

TABLE 4.6

**ATTITUDES TOWARD PERFORMING ARTS IN COMMUNITY BASED ON RESPONDENTS WHO STRONGLY AGREE WITH EACH STATEMENT, BY FREQUENCY OF ATTENDANCE**

Performing Arts...	All	Attendance Level		
		Nonattender	Attender	Frequent Attender
...improve the quality of life in the greater Washington, D.C., area	58%	29%	63%	79%
...promote understanding of other people and different ways of life	52%	37%	55%	65%
...provide opportunities to socialize with other people	55%	48%	58%	53%
...are a source of pride for those in the greater Washington, D.C., area	52%	35%	55%	66%
...contribute to the education and development of children	73%	64%	75%	79%
...contribute to lifelong learning for adults	58%	41%	60%	74%
...help preserve and share cultural heritage	65%	52%	67%	76%
...contribute to the economy of the greater Washington, D.C., area	44%	31%	47%	53%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

As we found in table 3.5, attenders have more favorable opinions about the performing arts than nonattenders, and frequent attenders have more favorable opinions than attenders. Though these relationships may be intuitive, the data offer strong evidence in support of these claims. The frequent attenders feel most strongly about the role of the performing arts in *improving the quality of life* in the greater Washington area and about the contribution of the arts to the *education and development of children*.



*Washington area residents who volunteer for community organizations are more likely to attend performing arts events.*

TABLE 4.7

**RESPONDENTS WHO VOLUNTEER IN THEIR COMMUNITY, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS**

Attendance Level	Never Volunteer	Volunteer	Total
Nonattender	47%	53%	100%
Attender	24%	76%	100%
Frequent Attender	14%	86%	100%
<b>All Respondents</b>	<b>28%</b>	<b>72%</b>	<b>100%</b>

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Is the level of civic engagement of arts attenders similar to or different from that of nonattenders? The survey asked respondents how often they volunteer for charity, school, religious congregation, or community activities and whether they made a financial contribution to a performing arts organization.

There is a strong relationship between frequency of attendance at live performing arts events and volunteering in community organizations. About half of nonattenders reported that they volunteer at least once in a while. This contrasts with more than three quarters of attenders and more than 8 out of 10 frequent attenders. These findings are consistent with our earlier observation (table 2.8) that people who attend performing arts events are also active in a range of other activities outside of their homes.

We make no causal inferences as to whether an individual is inclined toward volunteerism because of his or her attendance at performing arts events or whether volunteering inclines one to more frequent attendance at performing arts events.



*Two in three frequent attenders made a donation to an arts organization in 2001.*

TABLE 4.8

**RESPONDENTS WHO MADE A FINANCIAL CONTRIBUTION TO AN ARTS ORGANIZATION IN 2001, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS**

Attendance Level	No Contribution in 2001	Contribution in 2001	Total
Nonattender	92%	8%	100%
Attender	71%	29%	100%
Frequent Attender	32%	68%	100%
<b>All Respondents</b>	<b>69%</b>	<b>31%</b>	<b>100%</b>

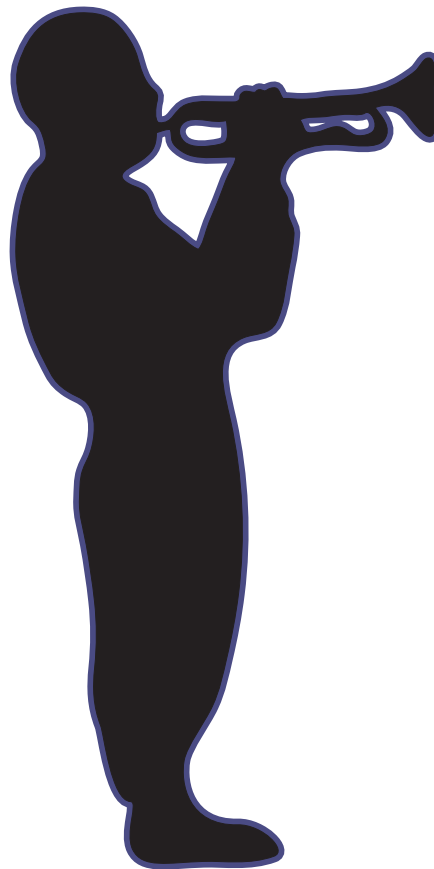
Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

Thirty-one percent of residents reported that they made a financial contribution to an arts organization in 2001. However, the likelihood that someone made a contribution is influenced by whether the individual is an attender or not. Frequent attenders are substantially more likely to make a donation than nonattenders. However, even one out of three frequent attenders chose not to contribute.

# Barriers to Attendance

This section focuses on factors that keep people from attending live performing arts events more frequently. For nonattenders, the questions can be taken to mean “Why don’t you attend?” For attenders, the questions can be taken to mean “What keeps you from attending even more?”

We consider a range of practical, personal, and perceptual obstacles to attendance. Some of these vary by respondent characteristics, such as education and income, and some help us understand the differences among nonattenders, attenders, and frequent attenders.



## HIGHLIGHTS

### **Time, Cost, and Other Leisure Preferences Are Key**

**Obstacles:** The biggest barriers to more frequent attendance at performing arts events, cited by about one in three respondents as a “big problem,” are *difficulty making time to go out*, *cost of tickets*, and preference to *spend leisure time in other ways*.

**Demographic Characteristics Matter:** People with lower levels of education are more likely to say that the *performing arts do not appeal* to them. People from lower-income households are more likely to say that *lack of information*, *cost of tickets*, *no one to attend with*, and *safety concerns* are major barriers to attendance. Younger people are more likely to cite not enough *information about performances and times*.

**Nonattenders Prefer Doing Other Things:** Nonattenders are more likely than attenders to say that they *prefer to spend leisure time in other ways* or that the *performing arts do not appeal* to them. They also report that they have *no one to attend with*, that they *have not enjoyed past performances*, and that they have concerns about the *difficulty or cost of getting to or parking at events*.



Washington area residents say hard to make time to go out is the biggest barrier to attendance.

TABLE 5.1

BARRIERS TO MORE FREQUENT ATTENDANCE AT LIVE PERFORMING ARTS EVENTS						
Barrier	Big Reason	Moderate Reason	Small Reason	Not a Reason	No Response	Total
<b>PRACTICAL</b>						
Cost of tickets	30%	26%	11%	32%	2%	100%
Family obligations	18%	8%	5%	68%	1%	100%
Difficulty or cost of getting to or parking at events	19%	18%	12%	50%	1%	100%
Performances are in unsafe or unfamiliar locations	8%	12%	11%	66%	3%	100%
Not enough publicity or information about performances and times	14%	20%	13%	51%	2%	100%
<b>PERSONAL</b>						
Prefer to spend leisure time in other ways	25%	30%	16%	27%	3%	100%
Hard to make time to go out	38%	25%	11%	25%	1%	100%
No one to attend with	8%	10%	9%	72%	1%	100%
<b>PERCEPTUAL</b>						
Performing arts do not appeal	7%	8%	9%	75%	1%	100%
Feel uncomfortable or out of place at performing arts events	2%	3%	7%	80%	1%	100%
Have not enjoyed past performances	5%	5%	9%	80%	2%	100%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

For all but three items, most people said the various barriers are not a reason why they do not attend more. The three most frequently cited “big reasons” why people do not attend more performing arts events than they currently do are *difficulty making time to go out*, *cost of tickets*, and *preference to spend leisure time in other ways*. However, as we report throughout this section, different people are affected by different barriers.

Researchers at the RAND Corporation reported conceptual work on barriers to greater arts attendance in a book entitled *A New Framework for Building Participation in the Arts*. They suggest that there are four distinct types of barriers, which they label *practical barriers*, *personal circumstances*, *perceptual barriers*, and *prior experiences*. We used the RAND framework to help in the development of our survey, but we depart from it in two ways. First, we put our single question about prior experiences in with the perceptual barriers questions. Second, we add and subtract from the barriers developed in the RAND work.



Respondents with less education find the performing arts unappealing.

TABLE 5.2

**RESPONDENTS REPORTING THAT AN ITEM IS A “BIG REASON” WHY THEY DO NOT ATTEND PERFORMING ARTS MORE, BY EDUCATION**

Barrier	All	Elementary School	High School or GED	Junior College or Tech School	Four-year College or University	Post-graduate
<b>PRACTICAL</b>						
Cost of tickets	30%	20%	27%	34%	30%	29%
Family obligations	18%	30%	19%	17%	16%	18%
Difficulty or cost of getting to or parking at events	19%	43%	29%	20%	15%	12%
Performances are in unsafe or unfamiliar locations	8%	27%	17%	8%	5%	4%
Not enough publicity or information about performances and times	14%	17%	25%	16%	13%	7%
<b>PERSONAL</b>						
Prefer to spend leisure time in other ways	25%	33%	26%	30%	27%	19%
Hard to make time to go out	38%	43%	36%	39%	35%	40%
No one to attend with	8%	17%	21%	8%	4%	4%
<b>PERCEPTUAL</b>						
Performing arts do not appeal	7%	27%	13%	12%	4%	2%
Feel uncomfortable or out of place at performing arts events	2%	13%	6%	3%	0%	0%
Have not enjoyed past performances	5%	17%	13%	4%	2%	2%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

While the percentage trends are suggestive of important relationships, none of these barriers feature a Somer’s d value equal to or greater than 0.15. The value of Somer’s d for the relationship between education level and *performing arts do not appeal* is  $-0.14$ ; for *performances are in unsafe or unfamiliar locations*, Somer’s d is  $-0.13$ .

About a quarter (27 percent) of respondents who have not completed high school say that the *performing arts do not appeal to them*. This proportion decreases as education increases. In fact, only two percent of respondents with a postgraduate degree say that the lack of appeal is a big reason why they do not attend more. A similar trend is observed for the barrier *performances are in unsafe or unfamiliar locations*. Higher percentages of respondents who have not completed high school were more likely to cite *have not enjoyed past performances*. Reactions to most of the barriers, however, do not vary much by education level.





Less wealthy Washington area residents cite safety concerns and lack of information as key barriers to attendance.

TABLE 5.3

**RESPONDENTS REPORTING THAT AN ITEM IS A “BIG REASON” WHY THEY DO NOT ATTEND PERFORMING ARTS MORE, BY HOUSEHOLD INCOME**

Barrier	All	Less than \$25,000	\$25,000 to under \$50,000	\$50,000 to under \$100,000	\$100,000 or More
<b>PRACTICAL</b>					
Cost of tickets	30%	45%	38%	31%	21%
Family obligations	18%	16%	12%	18%	21%
Difficulty or cost of getting to or parking at events	19%	28%	27%	20%	9%
Performances are in unsafe or unfamiliar locations	8%	25%	10%	7%	3%
Not enough publicity or information about performances and times	14%	14%	28%	12%	8%
<b>PERSONAL</b>					
Prefer to spend leisure time in other ways	25%	25%	28%	20%	26%
Hard to make time to go out	38%	28%	30%	37%	45%
No one to attend with	8%	17%	17%	4%	4%
<b>PERCEPTUAL</b>					
Performing arts do not appeal	7%	17%	11%	4%	5%
Feel uncomfortable or out of place at performing arts events	2%	6%	5%	0%	0%
Have not enjoyed past performances	5%	9%	9%	3%	2%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

The value of Somer's d for the relationship between household income and not enough publicity or information about performances and times is -0.16. The others discussed range from plus or minus 0.12 to 0.14.

The percentage trends in this table suggest that household income level is related to several of the attendance barriers considered. Respondents with household incomes less than \$25,000 are considerably more likely to identify the following barriers to attendance: *no one to attend with*, *difficulty or cost of getting to or parking at events*, and *performances are in unsafe or unfamiliar locations*. As expected, *cost of tickets* is more of a barrier for poorer households and less of a barrier for higher income households. Wealthier households are more likely to cite *difficulty making time to go out* than households with lower incomes.



Lack of publicity or information about performances and times is a key barrier for younger Washington area residents.

TABLE 5.4

**RESPONDENTS REPORTING THAT ITEM IS A “BIG REASON” WHY THEY DO NOT ATTEND PERFORMING ARTS MORE, BY AGE**

Barrier	All	Under 25	25-34	35-44	45-54	55-64	65 and Over
<b>PRACTICAL</b>							
Cost of tickets	30%	22%	28%	27%	35%	31%	32%
Family obligations	18%	12%	22%	25%	19%	9%	8%
Difficulty or cost of getting to or parking at events	19%	22%	13%	17%	16%	21%	29%
Performances are in unsafe or unfamiliar locations	8%	8%	9%	6%	6%	8%	20%
Not enough publicity or information about performances and times	14%	32%	16%	12%	12%	12%	7%
<b>PERSONAL</b>							
Prefer to spend leisure time in other ways	25%	33%	25%	26%	23%	26%	22%
Hard to make time to go out	38%	33%	43%	40%	44%	38%	21%
No one to attend with	8%	14%	8%	5%	7%	11%	14%
<b>PERCEPTUAL</b>							
Performing arts do not appeal	7%	15%	7%	5%	4%	9%	10%
Feel uncomfortable or out of place at performing arts events	2%	3%	2%	2%	1%	1%	4%
Have not enjoyed past performances	5%	10%	3%	6%	2%	8%	5%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

The Somer’s d value for the relationship between *not enough publicity or information about performances and times* and age is -0.18.

Younger respondents are more likely to feel that there is *not enough publicity or information about performances and times*. The older the respondent, the less likely she is to express concern about information on performances and times.



Having children at home keeps some residents of greater Washington from getting out to performing arts events.

TABLE 5.5

**RESPONDENTS REPORTING THAT AN ITEM IS A “BIG REASON” WHY THEY DO NOT ATTEND PERFORMING ARTS MORE, BY CHILDREN AT HOME**

Barrier	All	No Children At Home	Children Under 13 Years of Age	Children 13 Years and Older
Family obligations	18%	6%	43%	20%
Hard to make time to go out	38%	32%	50%	34%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

This abbreviated table includes only the two items where we observe differences by presence of children in the household. Although we observed in table 2.6 little difference in attendance patterns between respondents with and without children, the table here shows that people with young children at home are more likely to cite *family obligations* and *hard to make time to go out* as important reasons why they do not attend performing arts events more often.



Washington area residents who do not attend the performing arts offer several reasons for not attending. Attenders give fewer clues for why they do not go more often.

TABLE 5.6

**RESPONDENTS REPORTING THAT AN ITEM IS A “BIG REASON” WHY THEY DO NOT ATTEND PERFORMING ARTS MORE, BY FREQUENCY OF ATTENDANCE AT LIVE PERFORMING ARTS EVENTS**

Barrier	All	Attendance Level		
		Nonattender	Attender	Frequent Attender
<b>PRACTICAL</b>				
Cost of tickets	30%	25%	33%	26%
Family obligations	18%	23%	18%	9%
Difficulty or cost of getting to or parking at events	19%	27%	16%	17%
Performances are in unsafe or unfamiliar locations	8%	20%	6%	4%
Not enough publicity or information about performances and times	14%	16%	13%	14%
<b>PERSONAL</b>				
Prefer to spend leisure time in other ways	25%	43%	22%	11%
Hard to make time to go out	38%	43%	39%	30%
No one to attend with	8%	15%	7%	4%
<b>PERCEPTUAL</b>				
Performing arts do not appeal	7%	20%	4%	2%
Feel uncomfortable or out of place at performing arts events	2%	5%	1%	1%
Have not enjoyed past performances	5%	12%	2%	3%

Source: Urban Institute Analysis of Washington, D.C., Household Data, 2002.

**NONATTENDERS:** Nonattenders and attenders alike point to *lack of time* as a barrier to attendance. However, several barriers were cited as a big reason by a disproportionate number of nonattenders. Not surprisingly, nonattenders are more likely to say that they *prefer to spend leisure time in other ways* and that the *performing arts do not appeal* to them. In addition, nonattenders are more likely to cite *no one to attend with*, *difficulty or cost of getting to or parking at events*, *performances are in unsafe locations*, or that they *have not enjoyed past performances*.

**ATTENDERS:** One item that attenders rate higher as a barrier is *cost of tickets*. That is, cost appears to be a greater inhibitor to periodic attenders of the arts than it is for those who do not attend at all.

**FREQUENT ATTENDERS:** People who frequently go to arts performances are less likely to label various potential barriers as a big reason why they do not get out more. Consistent with conventional wisdom, the two biggest barriers are *time* and *money*—two factors that are not unique to frequent attenders.

# Methodology

## COMMUNITY SELECTION CONSIDERATIONS

The greater Washington survey is one in a series of 10 telephone surveys that each focus on a different metropolitan area or community. The communities were carefully selected, looking for the following characteristics that were deemed important to the success of the project:

- Representation of three or more of the five disciplines encompassed by the participating national service organizations.
- Financially and managerially strong local arts organizations.
- Established and strong working relationships between local arts organizations and their national service organizations.
- Willingness and ability of local arts organizations to be part of a working group.
- Established capacity for collecting data on the part of local arts organizations.
- Willingness on the part of local arts organizations to administer the surveys developed by the Performing Arts Research Coalition.
- Presence of supplemental funding sources in the community to help sustain this research in the future.
- Geographic diversity and a variety of community sizes.

## LOCAL WORKING GROUP RESPONSIBILITIES

The working group of performing arts organizations in each of the communities chosen had six primary project responsibilities: (1) to participate in the design of survey instruments; (2) to collect data from its audiences and subscribers; (3) to use the audience, subscriber, and household data to design concrete strategies for improving the management of its organizations; (4) to use the audience, subscriber, and household data to make an impact on the role the arts play in the community; (5) to provide feedback on or write sections of project reports; (6) to consider ways to maintain local data collection efforts after the completion of the PARC project.

## PROJECT DATA SOURCES

The PARC research framework relies on four data sources to contribute information toward a more comprehensive understanding of the performing arts. Following is a description of the four sources and the type of information they provide.

**Administrative Surveys:** Each of the participating national service organizations conducted annual surveys of its members, collecting extensive administrative data. Most provided information on the number and types of performances, attendance, and a range of financial information, including sources of revenue and types of expenses. Selected items (or their definitions) from the existing surveys have been reviewed, and some new items have been added so that key data elements can be captured consistently across all the disciplines.

**Audience Surveys:** Audience surveys provided information on audience demographics, feedback on customer satisfaction and perceived performance quality, and some feedback on audience perceptions of the value of the performing arts. Audience surveys were administered by each of the participating arts organizations in each of the study sites. Two-page surveys were placed on seats in performance venues or handed to audience members in conjunction with performances according to specific procedures established by the Urban Institute.

**Subscriber Surveys:** As with the audience surveys, the subscriber surveys provided information on demographics and feedback on customer satisfaction and perceived performance quality. The subscriber survey contained expanded questions about the perceptions of the value of the performing arts to respondents, their families, and their communities. Participating arts organizations in each study site mailed the six-page survey to a randomly selected group of subscribers according to procedures established by the Urban Institute.

**Household Telephone Surveys:** Household telephone surveys collected information to help understand the attitudes of people who attend or do not attend the performing arts regularly, and to further understand why and how individuals can be motivated to become participants. The surveys of random households in each participating community were conducted by Princeton Survey Research Associates International according to procedures developed by the Urban Institute.

### **A Note about This Report**

This report is based on an analysis of the responses from the Washington, D.C., community/household telephone survey only. Findings from the administrative surveys will be issued in a separate report. Data from the audience and subscriber surveys have been provided to the participating local arts organizations. Further analysis of these data is in the hands of local arts organizations and/or working groups.

### **HOW THE GREATER WASHINGTON AREA HOUSEHOLD TELEPHONE SURVEY WAS CONDUCTED**

Survey respondents were selected using random digit dialing. Every active block of telephone numbers (area code + exchange + two-digit block number) were included for the District of Columbia, Montgomery and Prince George's counties in Maryland, and in Virginia the counties of Fairfax and Arlington, and the city of Alexandria. After random selection of a number within a block, two more digits were randomly added to complete the number. Numbers that matched listings in business directories were purged from the list. This method guaranteed coverage of every assigned phone number and did not require a preexisting list of active numbers.

Between October and December 2002, calls were made by Princeton Data Source, a subsidiary of Princeton Survey Research Associates International. Calls lasted approximately 20 minutes each. They were staggered over times of the day and days of the week to maximize the chance of making contact with potential respondents. About one-quarter of the interviews were completed on the first call, but one took as many as 41 calls to secure an interview. Table A-1 documents the numbers of individuals who were contacted, cooperated, and completed the interview.

While a response rate of 40 percent is not inconsistent with other studies of this type, it raises questions of nonresponse bias. That is, one might suspect that people who could not be contacted, would not cooperate with the interview, or did not complete it might have responded differently, on average, from people who completed the interview. If so, and if the differences are relevant to issues under investigation in the study, then one cannot make reliable inferences from the study sample to the population of the Washington, D.C., metropolitan area.

To investigate the potential for such bias, we compared the characteristics of the 821 respondents with known characteristics of the population (see Table A-2). Population estimates are based on the 2000 Census of Population and Housing. The summaries in this table indicate that persons age 55-64 are overrepresented among the survey respondents, while Asian/Pacific Islanders, Hispanic/Latinos, persons under the age of 25 and those over the age of 65 are underrepresented. Overall, however, there is considerable similarity between survey respondents and the population estimate on race, sex, and age characteristics. This similarity supports an assertion that the survey respondents are not substantially different from the nonrespondents. Nonetheless, the results reflect the attitudes of people who were willing to complete the survey.

A disproportional sample design and systematic nonresponse result in a measurable “design effect.” The design effect for the greater Washington household telephone survey results in a margin of error of  $\pm 3.7$  percent. This means that in 95 of every 100 samples using the same methodology, estimated proportions based on the entire sample will be no more than 3.5 percentage points away from their true values in the population. However, design effects are only one source of error. For example, those people who chose to answer the survey questions may be different in some ways from people who chose not to respond, resulting in an unknown quantity of response bias on various survey questions.

## **SOMER’S D: LOOKING AT THE RELATIONSHIP BETWEEN QUESTIONS**

In reviewing the survey results, we are frequently interested in knowing whether people who answer a particular way on one question also tend to answer a particular way on a different question. For example, past research has shown that people who have acquired more education are more likely to attend arts events than people with less education. This finding comes from looking at the relationship between two different variables—*education level* and *frequency of attendance*.



TABLE A.1

**DISPOSITION OF CALLS, GREATER WASHINGTON, D.C., HOUSEHOLD SURVEY**

3693	dialed numbers
-1380	non-working numbers
2313	working numbers
-609	“non-contact”—language/health barrier, incomplete callbacks
1704	<b>contacted numbers (73.7%)</b>
-733	refusals
971	<b>cooperating (57.0%)</b>
-111	ineligible—no adult, language/health barrier
860	eligible
-39	interrupted, incomplete
821	<b>completions (95.5%)</b>

$$\begin{aligned}
 \text{Response rate} &= \text{contacts} \times \text{cooperations} \times \text{completions} \\
 &= 73.7\% \times 57.0\% \times 95.5\% \\
 &= 40.1\%
 \end{aligned}$$

Somer’s *d* is a statistic that shows the strength of the relationship between two variables with a small number of ordered categories. By “ordered,” we mean that the question has categories that run in a meaningful way from low to high. Somer’s *d* indicates the extent to which respondents who report high or low values on one variable also report high or low levels on another variable. For example, if we observe that tall people are very talkative and short people say very little at all, we would expect a high value of Somer’s *d* for the variables *height* and *verbosity*. On the other hand, if tall and short people have roughly the same number of talkative and nontalkative types, we would get a low Somer’s *d*, and we would conclude that there is no relationship between the two variables.

Throughout this report, we assume respondent education level, household income level, and age to be independent variables that predispose respondents toward certain behaviors or values (dependent variables). For these relationships, we report on an *asymmetric* Somer’s *d* value that assumes a causal relationship between variables. However, for voting behavior and volunteerism, we make no such causal inferences. For associations involving these variables, we report a *symmetric* Somer’s *d* value that makes no presumptions about which variable is independent and which is dependent.





TABLE A.2

**CHARACTERISTICS OF WASHINGTON, D.C., HOUSEHOLD RESPONDENTS (N=821)**

	Population Estimate	Survey Respondents
<b>RACE</b>		
White	407	444
Black	255	226
Asian/Pacific Islander	74	49
Hispanic/Latino	80	65
Other/Mixed	not available	9
American Indian/Alaskan Native	4	5
Missing (did not report)	0	23
<b>SEX</b>		
Men	392	385
Women	429	436
<b>AGE</b>		
18-24	93	73
25-34	160	174
35-44	195	183
45-54	166	165
55-64	96	113
65+	111	92
Missing (did not report)	0	21

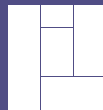
Somer's d runs from a value of 0.0 (no relationship) to 1.0 (perfect relationship), although it is usually quite low because of the conservative way in which it is calculated. A positive sign (+) in front of the number means that there is a *positive relationship* between the variables; that is, high values on one variable are associated with high values on the other. A negative sign (-) indicates a *negative relationship*; that is, high values on one variable go with lower values on the other variable, and vice versa.

A Somer's d value of less than -0.15 or more than +0.15 is worth paying attention to. For values closer to 0.0, the relationship is probably best thought of as weak or nonexistent. In footnotes throughout the report, we note relationships that approach this 0.15 threshold.

# PERFORMING ARTS RESEARCH COALITION

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