SO 014 485

ED 225 909

AUTHOR TITLE Cwi, David; Smith, D. Alden

The Economic Impact of Ten Cultural Institutions on

the Economy of the Springfield, Illinois SMSA. Technical Supplement. Volume I [and] Volume

II--Appendices.

INSTITUTION

Johns Hopkins Univ., Baltimore, Md. Center for

Metropolitan Planning and Research.

SPÓNS AGENCY PUB DATE National Endowment for the Arts, Washington, D.C.

80

GRANT NOTE

R80-22-1N 134p.; For related documents, see SO 014 480-491.

Appendices B, D, E, and F of Volume II may not

reproduce clearly./

PUB TYPE

Reports - Research/Technical (143) -- Statistical

Data (110)

EDRS PRICE DESCRIPTORS

IDENTIFIERS

MF01/PC06 Plus Postage.

Arts Centers; Audiences; Community Characteristics; *Cultural Centers; Dance; *Data Collection; Economic Research; *Expenditures; *Fine Arts; Income; Local Government; Music; Opera; Questionnaires; *Research Design; *Research Methodology; Salaries; Surveys;

Tables (Data); Theaters; Urban Areas Econometrics; *Illinois (Springfield)

ABŚTRACT

The research methods, procedures, and data for determining the impact of 10 fine arts institutions on the Springfield, Illinois, economy (1978) are outlined. A 30-equation model was used to identify a variety of effects on local businesses, government, and individuals. Researchers examined internal records of the 10 institutions as well as local, state, and federal records. Audience research and staff surveys were also conducted. Divided into four sections, the report discusses data collection instruments and general procedures, local data collection procedures, local data summary, and weighting and estimation techniques. Subtopics in each section are the audience survey, staff survey, institutional data inventory, community data inventory, and tax-related data. Appendices provide audience survey dates and response rates, instructions to the study coordinator for annotating budget and functional expense statements and institutional data inventory, community data inventory, instructions for developing a calendar which depicts sampling dates, and documentation protocol. All research instruments are included and most instruments provide numerical results of the research. (KC)

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EOUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it

Minor changes have been made to improve reproduction quality.

Points of view or opinions stated in this document do not necessarily represent official NIE position or policy

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Tom Bradshaw

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

TECHNICAL SUPPLEMENT TO THE ECONOMIC IMPACT

OF TEN CULTURAL INSTITUTIONS ON, THE ECONOMY OF THE SPRINGFIELD, ILLINOIS SMSA

VOLUME, -I

[and] Volume II--Appendices.

The Johns Hopkins University Center for Metropolitan Planning and Research

Principal Investigator:

David Cwi

Project Manager:

D. Alden Smith

Report Written By:

David Cwi and D. Alden Smith

Computer Programming/-Data Base Management:

Mark Keintz Brian Peters

Audience Study Sampling Design/ Selected Analysis:

Ralph Taylor

Technical Assistance in Design and Analysis:

Allen Goodman Henry Henderson

Project Secretary:

Patty Strott,

Student Assistants:

Gayle Cohen Scott Holupka Elizabeth Platt Ariel Vannier

This report was prepared under grant number R80-22-1N from the Research Division of the National Endowment for the Arts. Points of view or opinions stated in this document are those of the authors and do not necessarily represent the official position or policies of the National Endowment for the Arts, The Johns Hopkins University, or the Center for Metropolitan Planning and Research.

Sp 01/485

TABLE OF CONTENTS

•	Page
LIST OF EXHIBITS	. i
PREFACE: ORGANIZATION OF THE REPORT	
SECTION I: DATA COLLECTION INSTRUMENTS AND GENERAL PROCEDURES	1
A. Overview B. The Audience Survey C. The Staff Survey D. The Institutional Data Inventory and Annotation	1 2
of Expenses E. The Community Data Inventory Additional Documentation	8 12 12
SECTION II: LOCAL DATA COLLECTION PROCEDURES	14
A. Overview B. The Audience Survey C. The Staff Survey D. The Institutional Data Inventory E. The Annotation of Expenses F. The Community Data Inventory	15 16 16
SECTION III: LOCAL DATA SUMMARY	17
A. Overview B. Audience Data Summary C. Institutional Data Summary D. Employee Data Summary E. Tax-related Data F. Other Community Data	20 22 24 28
SECTION IV: WEIGHTING AND ESTIMATION TECHNIQUES USED IN THE STUDY	
A. Overview	36 37



LIST OF EXHIBITS

	•	F	age
Exhibit 1)	Àudience Questionnaire	ر . ع
			,
Exhibit 2		Survey Event Report Form	
Exhibit.3	,	Staff Survey Instrument	
Exhibit 4		Audience Data Summary	
Exhibit 5	ŧ	Institutional Data Summary	21
Exhibit 6	. *	Employee Data Summary	23

PREFACE: ORGANIZATION OF THIS REPORT

This technical supplement provides additional information on the research methods and procedures used to develop case studies of the economic effects of forty-three arts and cultural institutions in the following six U.S. cities*:

Columbus, Ohio
Minneapolis/St. Paul, Minnesota
St. Louis, Missouri
Salt Lake City, Utah
San Antonio, Texas
Springfield, Illinois

The history and purpose of this six city project is briefly reviewed as part of each case study report.

The case studies utilized a thirty equation model to identify a variety of effects on local businesses, government and individuals. Data was required from the internal records of the examined institutions as well as from local, state, and federal sources. Audience research was also required as was a survey of each institution's staff.

Instruments and procedures relevant to the collection of these data were developed by staff of the Center for Metropolitan Planning and Research of The Johns Hopkins University (Metro Center). Training seminars for local study staff were conducted in Baltimore and additional procedures developed to document and monitor the management, implementation, and quality of local data collection efforts.

Section I of this technical supplement describes data collection instruments and general procedures. Section II describes the management and implementation of procedures by Springboard and Sangamon State University staff.

^{*}The study sponsors in each city were The Greater Columbus Arts Council Twin Cities Metropolitan Arts Alliance, Springboard, The Utah Arts Council, The Arts and Education Council of Greater St. Louis, and the Arts Council of San Antonio.

Data quality issues are also reviewed. Section III presents the data utilized to arrive at estimates of economic effects. Section IV describes weighting and other relevant data handling issues. Separate appendices provide data on the audience survey dates and response rates, instructions and relevant protocols, and other matters on interest.

SECTION I: DATA COLLECTION INSTRUMENTS AND GENERAL PROCEDURES

A. Overview

The case studies described in this technical supplement were developed in partnership with local arts agencies in the six U.S. cities noted earlier. Each agency was responsible for the local study conduct following procedures developed at the Metro Center and piloted in Baltimore.* Study Coordinators were selected by each partnership agency and included a graduate student intern, a private consultant, agency staff persons, and a professor at a local college. Staffing arrangements and local management procedures in Springfield are described in Section II.

Coordinators from each city participated in workshops held in Baltimore. at the Metro Center from October 11-13, 1978. These workshops were developed to orient study coordinators to all phases of the data collection process. Supplemental materials specific to the conduct or documentation of each data collection procedure were developed and forwarded as procedures were implemented. Attention focused initially on the audience survey. Subsequently, materials were developed and forwarded to each city dealing with procedures for the staff survey, for identifying local spending and gathering requisite data from each examined institution, and for gathering requisite community data from local, state, and federal documents or other data sources (e.g. local data bases).

The ability of each city to undertake these tasks simultaneously was materially affected by constraints in study condinator time, the ongoing

Cf. David Cwi and Katharine Lyall, Economic Impacts of Arts and Cultural Institutions: A Model for Assessment and a Case Study in Baltimore, Research Division Report #6. New York: Publishing Center for Cultural Resources, 1977.

. 2

agencies. In the interest of data quality, agencies were encouraged to engage in only those data collection efforts that could be successfully managed by local study staff. Consequently, at any point in time the cities may have been engaged in differing aspects of the data collection effort, necessitating constant monitoring by phone of progress and problems encountered. Documentation and quality control procedures are described below as part of our review of each data collection procedure.

B. .The Audience Survey

The audience survey required the development of self-administered questionnaires, implementation procedures and management plans, sampling frames and procedures, documentation procedures, and data handling procedures relating to the editing and keypunching of questionnaires.

Audience questionnaires and procedures reflected the Baltimore pilot study and were designed to allow each city to add additional questions.

Survey management procedures are described in Section II below. Exhibit 1 presents the questionnaire as utilized in Springfield.

Prior to the October orientation workshop noted above, study coordinators gathered requisite data for each event/day during the survey period.

This included projected attendance by performance (for performing arts groups) and event day (for museums and other groups). Separate sampling frames were developed for each of the forty-three participating institutions and reviewed with study coordinators at the October workshop.

(Sampled event days for each institution together with other relevant information are presented in Appendix A.)

Exhibit 1 Springboard with assistance from the National Endowment for the Arts and The Johns Hopkins University is conducting a study of audiences for selected cultural activities. We apreciate your cooperation and hope that do not identify your-, you will fill out the following questionnaire. Your responses are totally anonymous. Please self in any way. Thank you!

Instructions: This form contains two types of questions. Some are multiple choice questions: for them write in the box provided the number corresponding to your answer. Other questions request information which you should simply write in the box provided (e.g., your zipcode). Please fill this form out by yourself. Feel free to consult other people in your party.

<u> </u>	ANSWER FOR YOUR	SELF ONLY		•
•	•			
Where do you live? (Write in number	er corre-	How many years of education have *		1 ~ 1
sponding to the correct response.)		you completed? (1) less than 12th		·
Springfield, (2) Sangamon Co. (outsi		grade; (2) high school graduate. (3)	31	1 - 1
Springfield) (3) Menard Co. (4) Maco	n Co.	some college! (4) bachelor's degree:		I Z S
(5) Elsewhere in Illinois (6) Out of St.	ate :	(5) graduate or professional degree		7880
(7) Outside United States	. 3			10 2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·	,	City (SMSA code)
· '	.	Approximately how many miles one-		<u>ē</u>
• • • • • • • • • • • • • • • • • • • •	1/18-19	way did you travel to get here? (If less	·	[[
How many years have you been living	a —	than a mile, write'l. Round to nearest	32-33	1 1
in the Springfield metropolitan area?		mile)	_	1
(Write in corresponding number of				=
years. If less than a year, write "1".		FOR PERFORMING ARTS ONL	v [S
Round to nearest year. Visitors to thi	S	FOM FERI ORIGINAL ARTS CITE	<u>·'</u>	institution
area write "0".)	<u>-</u> 	IF YOU HAVE A SINGLE TICKET OR		. <u>ē</u>
		A SINGLE ADMISSION for this event.	S	-
What is your present zip code? (Writ	e	how much did it cost? (Put in dollars	34-37	
in all 5 digits.)	`	and cents. If you do not know, write		1 1
· · · ·	22-26	"O".)		
What is your age?		0.7		
what is your ago.		•		
`	27-28	IF YOU HAVE A SUBSCRIPTION to		
How many people are presently living		this series, what was the price of your	s	1 '
in your household? (include yourself		subscription? (If you do not know.	38-40	
C	29-30	write "0".)		1
<u> </u>			<u>`</u>	-
·	ANSWER FOR YOU	R ENTIRE PARTY	0	1
<u> </u>				1
	·	Deserved and has outside institut		pe
Including yourself, how many people	e	Restaurant and bar outside institu-	S	1 7
are in your party?		tion (food, cocktails, beverages, 47-50	47-50	1 3
	41-42	etc.)?	. 47-30	performance
ş		Restaurant, bar or gift shop		- ce
Other than the cost of admission, ap	aravimatálu *	inside institution?	 \$	}
how much money did you and your		. mside msinundir:	51-54	1
spend or anticipate spending in con				1
today's event? (Write in the appropri		Lodging (hotel/motel)?	s	ł
in each category; please write in zero	nit no mothey		<u> </u>	1 .
was spent in a category.) On:	on no money		55-58	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
was spent in a category.) On.	•	Parking?		
Public transportation (taxi, subway,		•	لــــــــا.	
bus, train, etc.)?	\$	· · · · · · · · · · · · · · · · · · ·	59-62	
bus, train, ere.).	43-46	Babysitters?		1
	•	·	\$.	
		(63-66	
*	· ·	Other?		
	•	•	\$	1 -
· v		(67-70	
		· · · · · · · · · · · · · · · · · · ·		-1 1
	FOR OUT-OF-TON	VN VISITORS ONLY		
3				1
	<u> </u>	114		
When you were making plans to come	e [How many people, including yourself, are with you on your visit to this,		
to this community, did you expect				1 -
that you would be attending this	71	area?	75-76	
cultural event or institution? (1) Yes	•	Approximately how many dollars do		[
77		you and your party anticipate spend-	S	
IF YES, was it your sole reason for	· ——	ing while in this area?	77-80	i
		mg wine in this area.	77-00	}
coming to this community?				
(1) Yes: (2) No	., ., 12			1
How many nights will you spend in				1
the metropolitan area on this visit?	1		<i>i</i>	1
the metropolitan area on this visit:	73-74		•	1
. \	13-14		•	

OVER

Exhibit 1 (con't).

The following questions are concerned with your use and support of local cultural activities. Please answer all three questions for each institution.

		EST CUPY A	WILLABLE
,	Question 1	Question 2	Question 3
\	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	Do you have a sub-	Including today, how	How many dollars have you contributed in the
	scription ticket or have	many times have you	last 12 months. not including subscription
•	you purchased a	attended in the last 12	fees, ticket costs or membership fees? (Please
	membership?	months? (Write "0" if	write "0" if you have not contributed in the last
		you haven't attended in	12 months.)
	(1) Yes; (2) No	the last 12 months.)	
pringfield			
ymphony			S
rchestra	2/18	19-20	21-23
		a.	. A
pringfield			S
Theatre		1 ————	. , <u> </u>
Guild ,	24	- 25-26	27-29
			,
pringfield			S
Art	30	31-32	33-35
ssociation	. 7 30	31-32	33-33
		F	
pringfield '			• s
Ballet	36	37-38	r 39-41
Company		4, 3)
Collection	· -	<u> </u>	
n Illinois			l S
te Museum	42	P43-44	45-47
ro mascath			
Old State			
Capitol			<u>S</u>
· · ·	48	19-50	51-53
Glayville			& S
Rural Life			\$7-59
Center	54	55-56	21-28
Community			♣ s
Condert	60	61-62	63-65
Series	0 0	1	
orinoficial		1	
ipringfield Municipal			S 🐠
Opera \	66	67-68	69-71
Sport (1		
he Lincoln			S
lome Site			
7	- 72,	73-74	75-77
	<u> </u>		
t summer, inc	luding admission, how		ast summer how much did you
ch did <u>you</u> spe	end at the Lincoln Play at		pend at the Old State Capitol
w Salem? (Lea	ive blank if you did not		Arts Eair? (Leave blank if you did
end.)	 	(¹ . □	not_akta, (*)
· ·	· 1	<u> </u>	'6
at is vour mari	tal status? (1) Single:		ast year, what was your total annual
Married: (3) S	eparated or divorced;		amily income, before taxes? (1) Less
Widowed	<i>P</i>	- 3433. t	nan \$4.899; (2) \$5.000 to \$9.999; (3)
.		A S	\$10,000 to \$14,999 (4) \$15,000 to
at is your sex).		\$19,999; (5) \$20,000 to \$24,999; (6)
21 10 7 441 441			525,000 to 529.999; (7) \$30.000 to 549.999; (8) \$50.000 or more
	•	34	043'333' (0) 230'000 OLIHOLE
Male : (2) Fer			
Male : (2) Fer which race or	ethnic group do you		Mhat is your present job status? (ft)
Male: (2) Fer which race or ong? (1) White	e; (2) Black:		What is your present job status? (fl)
Male: (2) Fer which race or ong? (1) White Mexican Ame	e; (2) Black: rican or Spanish	35	Employed full time; (2) Employed part
Male: (2) Fer which race or ong? (1) White Mexican Ame eaking; (4) Ori	e: (2) Black: rican or Spanish ental: (5) American	35	Employed full time: (2) Employed part
Male: (2) Fer which race or ong? (1) White Mexican Ame	e: (2) Black: rican or Spanish ental: (5) American	, 35 E	Employed full time: (2) Employed partime: (3) Unemployed
Male: (2) Fer which race or ong? (1) White Mexican Ame aking; (4) Ori	e: (2) Black: rican or Spanish ental: (5) American	35 E	Employed full time; (2) Employed part



Sampling frames used systematic sampling of individuals, assumed a 50% response rate, and sought to obtain no less than 500 completed questionnaires for each institution. Response rates of approximately 70% and higher were common in all cities. Audience study quality was uniformly high, with varied factors affecting the adequacy of sampling procedures at individual institutions, including overestimates of attendance, understaffing, and only one or a few institution performance days available for sampling during the study period. Issues that arose in Springfield that affected the sampling design for particular institutions are discussed in Section II below.

Implementation of the audience survey involved the distribution of an assigned number of questionnaires each event/day following procedures developed with local coordinators. These included briefing sessions reviewing the impact of entry/egress patterns on the choice of distribution sites. Typically, questionnaires were distributed separately but at the same time programs were distributed at performing arts events. In most cases, special survey teams were utilized rather than ushers or other institutional staff. Exceptions are noted in Section II.

Collection of instruments occurred before the start of the program and during intermission—if a performing arts event—as well as at the close of the program.

To monitor the quality of the audience survey effort, local staff completed Survey Event Report Forms. These documented various aspects of survey implementation and focused particularly on matters relating to documenting the distribution of questionnaires and response rates. These reports were later checked at the Metro Center against final data tapes. Exhibit 2 presents the form utilized in each city.

JOHNS HOPKINS UNIVERSITY CULTURAL POLICY GROUP SURVEY EVENT REPORT FORM

					• • • • • • • • • • • • • • • • • • •
1. Ev	vent Control Number	(smsa) (inst) (d	ate: yymndd). (seq)		
2(a)	Institution Name:			Regular Site? (Y o	
3(a)	Type of Event:		(b)	Program Content: _	<u>. </u>
•	\vec{Q}_{i}	(c) Featured artist(s) or	group? (Y or N)		•
4(a)	Event Starting or	Opening Time:	_ (b) Event Ending	or Closing Time:	
5(a)	Total Attendance:		_ (b) Estimate? (y or N):	
6	List of questionna	aire control numbers <u>allocated</u>	to the event:		
	•				
7		aire control numbers <u>distribut</u>		ver this question on	ly if you do not
	fill out question	<u>10 below</u>):			
8(a)	Number of question	nnaires returned:		Rate:	-
	Time Surveying St	\sim	(d) Time Sur	veying Ended:	***************************************
9.	Sampling Interval	:			10

•		Exhibit 2 (cont.)	
10.	Questionnaire distribution data: Distribution Location	Control Numbers Allocated	Control Numbers Distributed
(a)			
(b)		· · · · · · · · · · · · · · · · · · ·	
(c)		· · · · · · · · · · · · · · · · · · ·	
(d)	•		
•			
(e)		•	
(f)			<u> </u>
<i>t</i> (a)			
(g)			
(h)	·		
_(1)			
(j)		A	
11.	Date Editing Done (yymndd):		
12.	Questionnaire numbers rejected d	uring edit:	
			<u> </u>
13.	Suspicious Questionnaires:		
14.	Comments:		
			15

The editing of questionnaires was conducted locally by study staff with keypunching in Baltimore and other sites. Local management plans for keypunching and editing are discussed in Section II. Local staff followed edit and keypunch protocols developed by the Metro Center. All questionnaires were forwarded to the Metro Center and a 10% sample inspected and compared to the data tape. This inspection examined editing quality and keypunch error rates. The keypunch error rate for each city is less than one-half of one percent (computed as the number of errors per item).

C. The Staff Survey

Procedures for the implementation of the staff survey and issues affecting data quality are reviewed in Section II below. The staff survey was self-administered and distributed to all staff whether paid or volunteer. Exhibit 3 presents the survey instrument used in Springfield. Local staff edited the staff survey following protocols developed at the Metro Center. Keypunching was performed in Baltimore. Instruments were distributed by institution management together with return envelopes assuring confidentiality. Response rates varied dramatically by institution, necessitating various weighting and estimation procedures described in Section IV below.

D. The Institutional Data Inventory and Annotation of Expenses

Coordinators were provided with suggested procedures for securing requisite data from the internal accounts of examined institutions.

These procedures sought to be responsive to institutional unwillingness to "open the books" for inspection and yet to gather data of sufficient

city (SMSA code)	institution	yearymonth	•
7880			

BEST COPY AVAILABLE

STAFF SURVEY

Springboard with assistance from the National Endowment for the Arts and The Johns Hopkins University is conducting a study of the status and impact of selected cultural activities. We appreciate your conferation in completing this questionnaire. BE ASSURED THAT ALL RESPONSES WILL BE KEPT IN STRICTEST CONFIDENCE. PLEASE SEAL COMPLETED QUESTIONNAIRE IN THE ATTACHED ENVELOPE.

Instructions: This form contains two types of questions. Some are multiple choice questions: for them, write in the box provided the number corresponding to your answer. Other questions request information which you should simply write in the box provided (e.g., your zipcode). Thank you:

QUESTIONS ABOUT YOURSELF

What is your marital status? (1) Single: (2) Sangamon Co. (outside City of Springfield (3) Henard Co. (4) Elsewhere in Illinois (5) Out of State (6) Outside United States What is your sex? (1) Male; (2) Female			•
How many years have you been living in the Springfield metroportion-area? (Write in corresponding number of years. If less than a year, write "1". Round to nearest year. Visitors to this area write "0".) What is your present employment status at this institution? (1) full time; (2) part time; (3) non-paid full time staff; (4) non-paid part time staff; (5) CETA What is your age? What is your present zip code? (Write in all 5 digits.) What is your present zip code? (Write in all 5 digits.) What is your age? During how many weeks of the year will you work at this institution? (write "0" if you do not know) How many people are presently living in your household? (include yourself) When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? It which race or ethnic group do you What percentage of your income	the correct response.) (1) City of Springfield (2) Sangamon Co. (outside City of Springfield)	(2) Marnied; (3) Separated or divorced;	. , ,
How many years have you been living in the Springfic to metroportican-area? (Write in corresponding number of years. If less than a year, write "1". Round to nearest year. Vivitors to this area write "0".) What is your present zip code? (Write in all 5 digits.) What is your present zip code? (Write in all 5 digits.) What is your age? During how many weeks of the year will you work at this institution? (write "0" if you do not know) When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work?	State (6) Outside United States		
Springfiety metroportitan-area? (Write in corresponding number of years. If less, than a year, write "1". Round to nearest year. Vivitors to this area write "0".) What is your present zip code? (Write in all 5 digits.) What is your present zip code? (Write in all 5 digits.) What is your age? During how many weeks of the year will you work at this institution? (write "0" if you do not know) Blow many years of education have you completed? (1) less than 12th grade; (2) hugh school graduate: (3) some college; (4) hachelor's degree; (5) graduate or professional degree What is your present employment status at this institution? (1) full time; (2) part time; (3) non-paid full time staff; (5) CETA During how many weeks of the year will you work at this institution? (write "0" if you do not know) When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work? What percentage of your income	How many years have you been living in the	(1) Male; (2) Female	
What is your present zip code? (Write in all 5 digits.) What is your present zip code? (Write in all 5 digits.) What is your age? During how many weeks of the year will you work at this institution? (write "0" if you do not know) How many years of education have you completed? (1) loss than 12th grade; (2) high school graduate: (3) some college; (4) backelor's degree; (5) graduate or professional degree To which race or ethnic group do you What percentage of your income	Springfield metropolitan area? (Write in corresponding number of years. If less		
Staff; (4) non-paid part time staff; (5) CETA What is your age? During how many weeks of the year will you work at this institution? (write "0" if you do not know) How many years of education have you completed? (1) less than 12th grade; (2) high school graduate: (3) some college; (4) bachelor's degree; (5) graduate or professional degree To which race or ethnic group do you What percentage of your income	year. Visitors to this area write "O".)	at this institution? (1) full time; (2) part time; (3) non-paid full time	
What is your age? During how many weeks of the year will you work at this institution? (write "O" if you do not know) How many people are presently living in your household? (include yourself) When you work at this institution? (write "O" if you do not know) When you work at this institution, on average, how many hours a week do you work? (2) high school graduate: (3) some conlege; (4) backglor's degree; (5) graduate or professional degree To which race or ethnic group do you What percentage of your income		staff; (4) non-paid part time staff;	,
How many people are presently living in your household? (include yourself) **Men you work at this institution? (write "O" if you do not know) **When you work at this institution, on average, how many hours a week do you work? **Completed? (1) less than 12th grade; average, how many hours a week do you work? **College; (4) bachelor's degree; (5) graduate or professional degree **What percentage of your income	What is your present zip code? (Write in all 5 digits.)	(3) 6217	
How many people are presently living in your household? (include yourself) **Men you work at this institution? (write "O" if you do not know) **When you work at this institution, on average, how many hours a week do you work? **Completed? (1) less than 12th grade; average, how many hours a week do you work? **College; (4) bachelor's degree; (5) graduate or professional degree **What percentage of your income			
Illum many years of education have you completed? (1) less than 12th grade; (2) high school graduate; (3) some college; (4) bachelor's degree; (5) graduate or professional degree To which race or ethnic group do you When you work at this institution, on average, how many hours a week do you work? When you work at this institution, on average, how many hours a week do you work?	What is your age?	you work at this institution? (write	
completed? (1) less than 12th grade; (2) high school graduate: (3) some college; (4) bachelor's degree; (5) graduate or professional degree To which race or ethnic group do you What percentage of your income	How many people are presently living in your household? (include yourself)		
completed? (1) loss than 12th grade; (2) high school graduate: (3) some college; (4) bachelor's degree; (5) graduate or professional degree To which race or ethnic group do you What percentage of your income	Now many years of education have you	When you work at this institution, on	
To which race or ethnic group do you What percentage of your income	completed? (1) less than 12th grade:		<u> </u>
To which race on ethnic group do you What percentage of your income	college; (4) bachelor's degree; (5)		
To which race or ethnic group do you What percentage of your income			
briung? (1) White; (2) Black; exclude spouse is derived from (3) Mexican American or Spanish speak- employment at this institution?	briong? (1) White; (2) Black;	exclude spouse is derived from	
ing: (4) Oriental; (5) American Indian; (6) Other	ing: (4) Oriental; (5) American Indian;	•	



BEST COPY AVAILABLE Exhibit 3 (con't)

QUESTIONS ABOUT YOUR HOUSEHOLD-

	:	•		,	
unu manyai hi Varen u	nder 18 are in your			innual income before	•
hausehold?			taxes of all person household (including	ns living in your	
			(1) Less than \$4,99	99; (2) \$5,000 to	
	•		\$9,999; (3) \$10,000 \$15,000 to \$19,999) to \$14,999; (4) · (5) \$20,000 to	
How many of the chi	idren in your house-		\$24,999; (6) \$25.00	30 to \$29.999; (7)	. /
hold attend public secondary schools?	elementary or		\$30,000 to \$49,999	; (8) \$50,000 or magre	
secondary schools:			to the second se		
**		*	•	•	,
	*	 _	What percentage of		•
or are buying?	esidence that you own		household income i ployment at this i		
,	_	*	projuicite de città i		
(1) Yes; (2) No	.	•			
If you own your re	sidence, or are		For all markets of		•
buying, approximat	ely how much do you 🕛			e amount currently	
pay in property ta	x?		kept in state bank	s, credit unions, and (1) O to S99; (2)	
			\$100 to \$249; (3)	\$250 to \$499; (4) \$500	
· · · · · · ·			to \$999; (5) \$1000 \$4999: (7) \$5000 t	to \$2499; (6) \$2500 to o \$9999; (8) \$10,000 +	· · · · · · · · · · · · · · · · · · ·
18			**		
		•		savings/accounts	
			• • • • • • • • • • • • • • • • • • •	•	,
	• •			checking accounts	
6		•			
	·	•			
	Below are a list of job a tural institutions. The	reas associated wi	th the operation of ded into several cat	different types of cult egories for easier refer	
•	onco Please select the	duties that best d	escribe your princip	al occupation. Li more	
	than one occupation, writ	e in the number co	rresponding to the o	est description of your	•
	v v			•	
- · · · · · · · · · · · · · · · · · · ·	ADMINISTRATIVE	•			
	-	com/Queinoss Mana	1ar	<u>\</u>	
•	(1) Director/General Mana (2) House Manager/Box Off	lice/Department Hea	ads		
	(3) Development/Public Re(4) Clerical/Secretarial	lations/Fundraisi	ng-Membership		•
	(4) 6161 (631) 3661 (631 141				,
	ARTISTIC PROGRAM/PRODUCTI	CN			в
	(5) Non-performing techni		nt liabtina wandrot	na chetuma dasidh	7: 7:
	props. casting)		•		´ L
	(6) Performing: chorus, a	ctors, musicians,	conductor, dancers,	etc.	
			•		
	EDUCATION/RESEARCH/OUTRE	(CH	•		•
•	.(7) Librarian/Editor/Phot	ographer/Designer	.		•
-	(8) Instructor/Researcher	/curacor/conserva	· .		
	SPECIALIZED SERVICES		r . •		* 5
•				S	
RÍC	(9) Maintenance/Grounds/F (10) Stagehands/Ushers/Bo	lestaurant-Bar/Gif ox-Office/Guards/S	t snop/Shipping ecurity/Guide		
Text Provided by ERIC	A tol a de danger and a court of a			3 ,	·

. 18

quality for study purposes. A principal concern was to identify non-salary expenditures made with local firms. Arts and cultural institutions are on the whole quite labor-intensive, so that it is often easy to identify the bulk of local expenditures since they take the form of salary and wage items rather than non-labor expenditures:

The volume and variety of non-labor expenditures was such that institutional personnel responsible for accounts payable could often be expected to have personal knowledge of the vendors for a considerable portion of non-labor expenditures. Appendix B presents th∉ instructions adopted for annotating institutional budget statements. These instructions represent a three-part strategy of identifying the staff person in the examined institution most knowledgeable concerning accounts payable, seeking the most detailed statement of expenses, and requesting that institution staff name the local vendors with whom expenditures were made as a test of their judgement. When institutional staff did not appear able to accurately judge local vendors for particular categories or when it appeared unreasonable to rely on their judgement, invoices were inspected for the items in question. By relying on their personal judgement, it was felt possible to avoid the actual inspection of all or a sample of invoices. (This would require the design of sampling procedures responsive to each institution's bookkeeping procedures and would represent a marked increase in effort for each examined institution that local staff felt intolerable.) Inspection of invoices was avoided unless there was reason to believe that institution staff might be materially in error regarding their judgement of expenditures with local vendors.

Additional data on attendance, staffing, and other matters was provided utilizing an institutional data inventory. Appendix C presents the form utilized by each institution. The exhibit includes a procedure for the sampling of checking and savings account balances using a random number table.

E. The Community Data Inventory

As part of the Baltimore workshop, study coordinators were oriented to requisite community data and likely local sources. Subsequently, coordinators were sent a Community Data Series Reporting Protocol to which was attached a revised Annotated Community Data Inventory intended to take account of the unique features of each community. These are presented as Appendix D.

The procedure required the provision of data and the documentation of sources. Subsequently, these community data items were forwarded by the Metro Center to local planning agencies and Chambers of Commerce for their review. Additional research by the Metro Center included the gathering of data from these sources as well as from federal documents on the economy, business and employment characteristics of each city.

F. Additional Documentation

Project data collection tasks described to this point included various documentation procedures. In order to develop for the record a comprehensive overview of study procedures, each study coordinator was asked to provide information on the management, organization and execution of each data collection and data handling task.

This documentation included the development of calendars for each surveyed institution indicating actual attendance on surveyed and other event days as well as other matters (cf. Appendix E). Appendix F presents the documentation protocol developed to identify matters relating to the

organization, management and execution of tasks, including circumstances that may have led to different practices on the part of individual institutions: This formal documentation, together with the ongoing evaluation based on our day-to-day contact with study coordinators, and the internal and external validity checks already noted (e.g., correspondence of SERF forms and data tapes, confirmation of community data by other local sources) were the basis for an institution-by-institution evaluation of data quality.

Section II below presents information on the organization and management of data collection procedures in Springfield. Information relevant to an evaluation of data quality is also presented. Section III reviews data used in the study. Section IV reports on various weighting and estimation procedures required by the study.

SECTION II: LOCAL DATA COLLECTION PROCEDURES

A. Overview

In the first section of this technical supplement we described the general data collection techniques and basic research design tasks required of participants in the Partnership Cities Project. We also indicated the procedures used to evaluate and assure data quality. These procedures included ongoing correspondence and telephone contact with study coordinators in each city to review local management plans and approaches to data collection and otherwise assess progress and potential problems. These oversight and documentation procedures included a "for-the-record" review by each study coordinator of the procedures employed in the conduct of each major data collection task and sub-task (cf. Appendix F which presents the Documentation Protocol). In Springfield this information was provided by Dr. Phillip Gregg.

We are most pleased to acknowledge the principal project staff at Springboard and the Center for the Study of Middle-Size Cities at Sangamon State University. Charles Kirchner, Board Member of Springboard, served as Study Director. Dr. Phillip Gregg of the Center for the Study of Middle-Size Cities and Associate Professor of Public Administration was responsible for coordinating the project including the wide arrary of day-to-day tasks and responsibilities described in this technical supplement. Dr. John Bowman, Associate Professor of Economics at Sangamon State, assisted. Andi Rosenstein, a student in the University's Community Arts Management Program, was Project Administrative Assistant. Exhibit 1 in the case study report lists the staff persons and volunteers identified by Springboard as individuals who actively participated in the study. The following sections describe local data collection techniques and local study management.

B. The Audience Survey

Distribution and Collection

Andi Rosenstein was responsible for distribution and collection of surveys at all sites. She was trained by Dr. Gregg, who worked with her for the four largest audiences. Springboard provided volunteers for the surveying. This group of people distributed and collected the surveys at all study institutions. No major constraints were encountered due to institutional program, facilities or management. Dr. Gregg organized and monitored survey procedures and reports that they were applied effectively and uniformly at all institutions. The major perceived problem was lack of adequate survey staff. Inclement weather was also a problem, leading to lower than normal season's attendance at many of the examined institutions.

Editing

Center for the Study of Middle-Size Cities at Sangamon State University.

One person edited all the surveys under Dr. Gregg's supervision. Center staff developed a set of guidelines to insure uniform application of the Metro Center edite protocols. The editing of one questionnaire took from one to ten minutes. The surveys were keypunched and verified at the Computer Services of Sangamon State University. The keypunch error rate was less than one-half of one percent (.0026 errors per item).

C. The Staff Survey

Dr. Gregg supervised and/or personally conducted the distribution and collection of staff surveys. Three different approaches were used:

- 1) Dr. Gregg conducted the survey personally;
- 2) the survey was mailed to staff members;3) the institution's director conducted the survey.
- Dr. Gregg believes the most effective method is for the study director to conduct the survey in person.

Editing

Dr. Gregg trained a center staff member to edit the surveys. She spent 30 seconds to two minutes per instrument.

D. The Institutional Data Inventory

The institutional data inventories were collected by Dr. Gregg and a graduate student assistant. About one-half were completed jointly with institutional directors, with the remainder being completed by the institution's director. The executive director of each institution provided the data. No major constraints were placed on the data collection by any institution (those who would not provide this information or financial information were excluded from the study). Dr. Gregg personally reviewed each inventory and believes that the data is of good quality.

E. The Annotation of Expenses

Dr. Gregg and a graduate student assistant collected the financial data (with some assistance from Dr. Bowman). Each institution's accountant provided the data in a process that took from 30 minutes to an hour and a half. The same procedure was applied to each institution. The accountants usually offered the name of the suppliers as they recalled what the expenditure covered, when it was made, and to whom it was made. Dr. Gregg reviewed all the financial data collected.

F. The Community Data Inventory

Dr. Gregg compiled the data for the community data inventory. The data was collected from published documents or provided by various officials of local governments or school districts. The collection of much data was delayed due to the implementation of new software by the county computer center. Tax-related items were subsequently verified by a Metro Center mailing to the Greater Springfield Chamber of Commerce.



SECTION III: LOCAL DATA SUMMARY

A. Overview

Sections I and II of this supplement reviewed data collection procedures. (The appendices to this supplement include various study instruments and protocols.) This section presents the data in conjunction with the 30 equation model to derive the effects on local business, government and individuals reviewed in the case study report. Data derived from the audience study and institutional financial/operating data are provided on an institution by institution basis. Employee data is presented in aggregate form only due to confidentiality requirements.

Tax-related data and other community data are presented at the level of detail at which they were compiled. Special estimations, if applicable, are discussed in the appropriate sections below. General estimation and weighting techniques are discussed in Section IV.

B. The Audience Data Summary

Exhibit 4 presents the Audience Data Summary. Included for each institution are the total attendance, percentage local attenders, percentage non-local attenders, percentage non-local attenders indicating that their interest in the arts institution was the "sole reason" for their visit, and total spending by local and non-local attenders.

The economic impact analysis presented in the case study and more fully described in this technical supplement included three special estimations of audience spending. Preliminary analysis of data across

cities suggested some similarities in spending by type of institutions. Although no causal relationship can be presumed to exist, the similarities were strong enough to warrant the use of the assumption that the expenditures at the three events not sampled were similar to those incurred at similar institutions in the city (whose audiences were sampled). Spending of attenders at the Old Capitol Art Fair was assumed similar to that of attenders at the Springfield Art Association (\$3.54 per capita for local attenders), spending of attenders at the Great American People Show was assumed similar to that of attenders at the Community Concert Series (\$1.10 per capita for local attenders), and spending of attenders at the Sringfield Municipal Opera was assumed similar to that of attenders at the Springfield Symphony (\$1.41 per capita for local attenders). These estimations involved less than 45,000 attenders out of the total adjusted season's attendance of over 410,000 people for all ten institutions.



Exhibit 4

Audience Data Summary

	Springfield Symplicity	Springfield Theatre Guild	Springfield Art Association	Springfield Ballet	lllinois State Huseum Art Collection	, Old Stata Capitol	Community Concert Series	Old Capitol Art Fair3	American People Show	Hunicipal Opera ⁵		Total	
Total Attendance	7,050	8,795	15,000	3,940	150,000	171,857	4,060	25,000	10,763	13,946		410,411	F
1 Local ettenders 1 Non-local ettenders 1 Non-local (sole-reason) ettenders	961 41 2.71	86% 14% 5.9%	931 71 2,51	94¥ 6x 3.4¥	54% 46% 10.6%	19\$ 19\$	99X 1X- 0.3X	931 /2 71 2.51	991 11 / 0.31	961 41- 2.71	₩.	483 \$ 523 12.48	
Number of local attendars Number of non-local attenders	6 ,768 282	7,564 1,231	13,950 1,050	3,704 236	81,000 69,000	32,653 139,204	4,019 41	23,250 1,750	10,655 108	13,388 558	,	196,951 213,460	9
Number of man-local ettenders (sole- reason)	190	519	375	134	15,900	32,653	12	625	32	377		50,817	
Per Capita spending by: Local attenders All non-local attenders Non-local attenders (sole-reason)	\$1.41.	\$3.60	€5\$3,54 	\$1.64 	\$1.66	\$2.68	\$1.10	\$3.54	\$1.10 	\$1.41		\$2,19 255.15 227.31	
Total spending by: tocal attenders ² All jun-local attenders Non-local attenders (sole-reason) ²	\$ 9,543 \$15,553. \$ 4,239	\$27,231 \$67,891 \$11,578	\$49,383 \$57,908 \$ 8,366	\$ 6,075 \$13,016 \$ 2,990	\$ 134,460 \$3,805,350 \$ 354,729	87,510 \$7,677,101 \$728,488	\$4.421 \$2.261 \$2.68	\$82,305 \$96,514 \$13,944	\$11,721 5,956 714	\$18,877 \$30,774	,	\$ 431,526 \$11,772,324 \$ 1,133,727	

Source. Audience Surveys and Institutional Oata Inventories

 $l_{\rm from\ Institutional\ Data\ Inventory,\ excludes\ attendance\ at\ in-school\ performances\ and\ attendance\ at\ events\ outside\ SMSA.$

2 included in economic impact analysis.

the audience surveying conducted, spending pattern assumed like Art Association. 4

10. audience surveying conducted, spending pattern assumed like Community Concert Series.

his audience surveying conducted, spending pattern essumed like Springfield Symphony.

C. The Institutional Data Summary

Exhibit 5 presents the Institutional Data Summary. Included for each institution are total operating expenditures, total gross wages, taxes, total spending on goods and services, the percentage and amount of spending on goods and services that went to local vendors, the average institutional time and demand deposit, average spending per guest artist day, total number of guest artist days and total guest artist spending, the number of full-time and full-time equivalent employees, real estate taxes paid, self-provided municipal services, and special municipal services provided to the examined institutions. Comments regarding individual data items are provided in the footnotes to the exhibit.

The percentage of local spending for goods and services at the Art Collection in the Illinois State Museum was estimated using the mean value for the other nine institution in Springfield. This estimation was necessitated because of the unavailability of precise financial data about this portion of the Illinois State Museum.

 $\mathcal{K}_{\mathcal{C}}$

Exhibit 5

Institutional Data Summary

•	Springfield Symptony	Springfield Theatre Gulld	Springfield Art Association	Springfield Ballet	illinois State Huseum Art Cellection	Old State Capitol	Community Concert Series	Old State (Capital Art Fair	Great American People Show	Springfleld Hunicipal Opera		Tetal
latel operating expenditure lotal gress wages lazes lates spending on goods and services spent locally on goods and services local spending on goods and services local spending on goods and services local spending on goods and services. Arerage time deposit Average demand deposit Average spending per guest artist day latel number of full-time equivalent employees. Real estate taxes paid by the institution Annual cast of institution-provided street maintenance Annual cost of institution-provided street maintenance Annual cost of institution provided liquing (outdoor) Annual cost of private trash removal Assessed value of institutional taxenumber property Special municipal services provided to	\$49,789 \$13,612 \$36,177 54,065 \$19,557 \$7,000E \$ 0,000E \$ 100 \$ 10	\$46,407 \$1,391 \$0 \$45,016 97,172 \$43,741 \$1,500 \$750 \$9,50 \$5,625 \$0,5 \$0 \$0 \$0 \$0 \$105 \$105 \$105 \$105 \$105	\$ 83,008 \$ 36,585 \$ 36,583 \$ 99,40x \$ 45,410 \$ 8,209 \$ 11,590 \$ 162 \$ 6 \$ 162 \$ 7 \$ 0 \$ 250 \$ 4479,000	\$9.566 \$1.120 \$ 805 \$7.441 1003 \$7.441 \$ 164 \$3.196 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	\$ 151,580 \$ 113,000 \$ 113,000 \$ 30,580, 40,835 \$ 10,837 \$ 0 \$ 25 \$ 5 \$ 125 \$ 9 \$ 0 \$ 20,500 \$ 0 \$ 11,200,000 \$ 0	\$1,396.859 \$ 922,527 \$ 331 \$ 504,001 \$ 33,322 \$ 167,914 \$ 30,000 \$ 2,000 \$ 15 11 \$ 165 \$ 73 75 \$ 0 \$ 0	\$ 27,750 \$ 240 \$ 240 \$ 27,510 \$ 18,253 \$ 5,020 \$ 0 \$ 5 \$ 231 \$12,474 0 \$ 0 \$ 0 \$ 0	\$13,100 \$ 550 \$12,550 \$12,550 \$12,550 \$ 3,000 \$ 2,500 \$ 100 400 \$40,000 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0	\$56,361 \$23,190 \$ 119 \$33,052 41,832 \$13,826 \$ 200 \$ 300 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$	\$70.286 \$15.416 \$ 512 \$62.350 \$62.350 \$12.500 \$ 4.000 \$ 0 \$ 0 \$ 0 \$ 0 \$ 0 \$ 1.5 \$ 8		\$1,912,78640 \$1,097,83140 \$2,587 \$812,368 48,831 \$356,654 \$62,573 \$36,344 \$63,69 855 \$54,451 60 104 \$20,500 \$20,500 \$475
institution	1	i .	1	<u> </u>							٥	

Source: Institutional Data Inventories, Auditors' Reports.

All monetary amounts rounded to mearest dollar.

Gractudes capital expenses and depreciation charges.

Itstimated by Phil Gregg.

"(stimates from institutional Data inventory.

PAssumed local percentage of spending to be conservative (see text).

-37. X

Approximately 800 volunteers.

Idents high school auditorium, not assessed.

, 91963 market value of purties used by Art Callection in 15H.

omed by city, not assessed.

lusalaries and wages to local employees equals \$961,461, assuming 10.6% of salaries and wages outside SMSA since 10.6% of full-time aquivalent employees raside outside the SMSA.

D. The Employee Data Summary

Exhibit 6 presents the Employee Data Summary. Included in aggregate form across all examined institutions is information on the number of full-time and full-time equivalent employees, total persons and number of children attending public elementary or secondary schools in employee households, home-ownership and property tax data, and average employee time and demand deposits. Methods and procedures for arriving at these estimates are described in Appendix E of the User Manual of the Baltimore Case Study, ¹ and further discussed in Section IV of this supplement.

Zipcodes of residence as reported in the staff survey were used to allocate employees into local taxing districts that crossed political boundaries. For purposes of calculation, the respondents were then weighted up on an institutional basis to the number of full-time equivalent employees as reported in each institution's data inventory (i.e. the distribution of non-respondents place of residence was assumed the same as that of respondents). Due to the small number of paid employees, the following sample statistics were not weighted across jurisdictions and institutions: household size, home ownership, average time and savings deposits, and the number of children in public primary and secondary schools. Other procedures were the same as described in part C of Section IV.

David Cwi and Katharine Lyall, <u>Economic Impacts of Arts and Cultural Institutions: A Model for Assessment and a Case Study in Baltimora</u>, Research Division Report #6. New York: Publishing Center for Cultural Resources, 1977.

Exhibit 6

Employee Data Summary*

	Total number of full-time employees		**08
	Total number of full-time equivalent employees		104***
	Percentage of full-time equivalent employees living in Springfield		77%
-/	Total number of persons in full-time equivalent employee households		206
	Total number of children attending public elementary or secondary schools from full-time equivalent employee households	•	¥ 42
	Percentage of full-time equivalent employees owning home	.	62% [\]
• .	Average property tax payment by full- time equivalent employee owning home	\$	801
1 4	Percentage of full-time equivalent employees renting		38%
	Average property tax paid out of rent of full-time equivalent rentors	, \$	822
	Average time deposit of full-time equivalent employee	\$4	, 435
	Average demand deposit of full-time equivalent employee	\$ 1	,377

*Across all examined institutions.

**Of which 72 live in SMSA.

****Of which 93 live in SMSA.

E. Tax-Related Data

Inasmuch as the local tax structure directly affects the revenues to local governments that can be attributed to the local arts and cultural institutions examined in this study, this section presents in some detail the relevant tax structure and tax rates for the Springfield SMSA. These taxes include property, sales, income, hotel, restaurant, gasoline and transit taxes where applicable. This information was compiled from various sources. Each set of data items includes a footnote reference to the appropriate information source.

1) Property taxes:

Local residential and business property tax rates are the same.

Unit of Aggregation	Data	Information Source		
SMSA- wide	.059208*			
Sangamon County- wide	n.a.			
Menard County - wide	n.a.			
Sangamon County Municipal;				
Chatham (62629)	.047305	Fact Sheets: City and Village		
Dawson (62520) ~ ~	.039457	of Sangamon County, June 1975		
Loami'(62661)	.047938			
New Berlin (62670)	.046030	, ii		
Pleasant Plains (62677)	.042601	n n		
Riverton (62561)	.046905	II II		
Rochester (62563)		77 11		
Williamsville (62693)	.046163	H H		
**Springfield (62701-708)	.059443	Office of the Sangamon County Clerk		
Menard County Municipalities	sig.			
Petersburg (62675) Oakford (62673)	.05100 .052755	Mr. James Combs, Clerk of Menard County, gave these figures in a		
		telephone conversation.		

^{*} Weighted Average for real business property

** The Springfield zip codes include four municipalities; in most respects
these municipalities are like the larger city:



1) Property taxes (cont.):

Grandview: .057767 Jerome: .053185 Leland Grove: .056070 Southern View: .053246

The ratio of assessed value to full market value is .333 for all municipalities in the SMSA

Unit of Aggregation		Data	a Information Source	
SMSA - wide Sangamon County - wide Menard County - wide Sangamon County Municipal; Chatham (62629) Dawson (62520) Loami (62661) New Berlin (62670) Pleasant Plains (62677) Riverton (62561) Williamsville (62561) *Springfield (62701-708)	•	.333 .333 .333 .333 .333 .333 .333 .33	3 Treasurer 3 "" 3 "" 3 "" 3 "" 3 "" 3 "" 3 "" 3 "	
Menard County Municipalites; Petersburg (62675) Oakford (62673)	• •	.333		•

* The Springfield zipcodes include 4 municipalities: Grandview, Jerome, Leland Grove, Southern View. In most respects these municipalities are like the larger city. The municipalities do not have zipcodes that are identifiable from Springfield.

2) Sales Taxes:

The State of Illinois levies a tax of 5% on retail sales including sales in restaurants but excluding expenditures on lodging. The State returns approximately 20% of this money to local jurisdictions (less administrative cost, but with a bonus for quick payments).

The percentage of locally generated sales taxes retained locally.

Unit of Aggregation	Data	Information Source
SMSA- wide	n.a.	A Line of the Control
Sangamon County - wide	n.a.	
Menard County - wide	n.a.	
Sangamon County Municipal.		
Chatham (62629)	19.98%	Tom McGee, Sales Tax Distribution
* Dawson (62520)	19.87%	Office, Illinois Department of
Loami (62661)	19.72%	Revenue, Calendar year 1978.
New Berlin (62670)	19.85%	ň n
Pleasant Plains (62677)	19.86%	n (
Riverton (62561)	19.85%	\mathbf{u}'
. Rochester (62563)	19.78%	in the second of
Williamsville (62693)	19.09%	n n
*Springfield (62701-708)	. 19.15%	المراه
i		
Menard County Municipalities.	C\$.	هو ۱۹۰۰
Petersburg (62675)	19.78%	u u
Oakford (62673)	19.36%	n n

* The Springfield zip codes include four municipalities; in most respects these municipalities are like the larger city:

Grandview	~	4		20.74%
Jerome				19.88%
Leaand Grove,		•		n.a.
Southern View				19.56%

These figures are not included in the Springfield average.

Total sales taxes generated locally.

Unit of Aggregation	Data	Information Source		
SMSA - wide	n.a.			
Sangamon County - wide	n.a.	•		
Menard County - wide	n.a.			
Sangamon County Municipal.	•			
Chatham (62629)	\$367 , 726	Tom McGee, Sales Tax Distribution		
Dawson (62520)	\$13,827	Office, Illinois Department of		
Loami (62661)	\$72,210	Revenue compiled these figures		
New Berlin (62670)	\$154,254	from his record books, Calendar		
Pleasant Plains (62677)	\$91,933	year 1978. •		
Riverton (62561)	\$148,686	H H		
Rochester (62563)	\$107,382	, it		

Williamsville (62693)
*Springfield (62701-708)

Menard County Municipalities

\$211,108 \$37,785,802 Tom McGee, Sales Tax Distribution Office, Illinois Department of Revenue compiled these figures from his record books, Calendar year 1978

Menard County Municipalities.
Petersburg (62675)
Oakford (62673)

\$763,042 \$30,015

* The Springfield zip codes include four municipalities; in most respects these municipalities are like the larger city:

Grandview
Jerome
Leland Grove
Southern View

\$133,727 \$756,060

\$81,900

These figures are not included in the figure for Springfield (\$37,785,802).

3) Income taxes:

Stae of Illinois*- 2.5% (flat rate)
Local - none levied *

Source: State - Illinois Department of Bevenue Report to Taxpayers Fiscal 1976. Local- Gary Tumulty, Clerk of Sangamon County.

* With a \$1,000 exemption per taxpayer and levied on net income. "Pioneering a bright future in the spirit of our illustrious past", Greater Springfield Chamber of Commerce, Industrial Development Council.

4) Hotel taxes:

State of Illinois -- 5% of 95% of room price City of Springfield - 3%

Source: Dr. Philip Gregg, Sangamon State University.

5) Restaurant taxes:

No special restaurant taxes levied by state or local units of government. State sales tax is applied

Source: Dr. Philip Gregg, Sangamon State University.

6) Gasoline taxes:

State of Illinois - 7.5¢ per gallon-

Allocated as follows:

59.09% to local government 40.91% to Illinois State Department of Transportation

Source: Helen Adorjan, Illinois Department of Revenue Information Office.

7) Transit taxes:

None reported.

Data was compiled by Dr. Philip Gregg, Sangamon State University.

F. Other Community Data

Other community data required for model estimations include total local business volume, the assessed value of business real property, local time and demand reserve requirements, residential and business property tax rates, the assessed value of residential housing, the number of children enrolled in local public elementary and secondary schools, state aid per pupil, other state revenues allocated to local governments on a per capita basis, local government operating costs (excluding public school and non-locally generated revenues), local public school operating budget (excluding non-locally generated revenues), total local population, assessed value of all non-school local government property and the assessed value of all local school property. These data items are presented below.

1) Total Local Business Volume

Value added by manufacturing, 1976: \$202,700,000 Wholesale Sales, 1972: \$481,800,000 Retail Sales, 1978: \$891,743,000

Total: \$1,576,243,000

Source: The research and planning aide at the Springfield Chamber of Commerce provided the following figures from data sources in the Illinois State Library.

Scaled to 1978 using consumer price index gives \$1,875,392,050.

2) Total Assessed Value of Real Business Property (1978)

SMSA-wide \$208,811,112 Sangamon County 205,986,483 Menard County 2,824,629

Source: Gary Tumulty, Sangamon County Clerk.

3) Local Time Deposit Reserve Reguirement

5%

Source: Chip Bayeley, Professor of Accounting, Sangamon State University.

4) Local Demand Deposit Reserve Requirément

6%

Source: Chip Bayeley (see above)

5) Value of Local Residential Housing

	•
Unit of Aggregation	Data-
SMSA wide	N.A.
Sangamon County wide	N.A.
Menard County wide	N.A.
Sangamon County Municipal	
Chatham (62629)	\$13,493,010
Dawson (62520)	928,350
Loami (62661)	1,346,015
New Berlin (62670)	2,641,665
Pleasant Plains (62677)	2,085,960
Riverton (62561)	6,164,120
Roches ter (62563)	10,003,035
Williamsville (62693)	3,346,515
*Springfield (62701-708)	301,628,865
Mehard County Municipalities	<u>-</u>
Petersburg (62675)	7,832,888
Oakford (62673)	576,217
	2,0,22,

^{*} The Springfield zip codes include four municipalities; in most respects these municipalities are like the larger city: Grandview, Jerome, Leland Grove and Southern View.

Source: Gary Tumulty, Sangamon County Clerk.

6) Total Number of Assessed Residences

<u>Unit of Aggregation</u>	Data
SMSA-wide	N.A.
Sangamon County-wide	N.A.
Menard County-wide	N.A.
Sangamon County Municipal	
Chatham (62629) 1	,508
Dawson (62520)	258
Loami (62661)	335
New Berlin (62670)	615 ·
Pleasant Plains (62677) **	385
Riverton (62561) 1	,123
Rochester (62563)	818

6) Total Number of Assessed Residences (cont.)

Williamsville (62693) 34,194
*Springfield (62701-708) 489
Menard County Municipalities Petersburg (62675) 1,116
Oakford (62673) 190

*The Springfield zip codes include four municipalities; in most respects these municipalities are like the larger city: Grandview, Jerome, Leland Grove and Southern View.

Sources: Sangamon County-Gary Tumulty (Jan. 1978)

Menard County -James Combs, Menard County Clerk (June, 1979).

7) Total Local Households

Unit of Aggregation . Data SMSA-wide 72,000 67,700 Sangamon County-wide . 4,300 Menard County-wide Sangamon County Municipalities 1,831 (1978) Chatham (62629) Dawson (62520) 197 (1978) *349 (1978) Loami (62661) New Berlin (62670) 319 (1978) 271 (1978) Pleasant Plains (62677) 994 (1978) Riverton (62561) 790 (1978) 460 (1978) Rochester (62563) Williamsville (62693) 39,500 (1978) *Springfield (62701-708) Menard County Municipalities Petersburg (62675) 1,012 (1970) . Oakford (62673) . . 105 (1970)

*The Springfield zip codes include four municipalities; Grandview, Jerome Leland Grove and Southern View. In most respects these municipalities are like the larger city. This figure for Springfiled does not include households for these four municipalities.

Grandview 909
Jerome 678
Leland Grove 659
Southern View 611

Sources: For SMSA, Sangamon County, Menard County and Springfield;

Survey of Buving Power, 1979. For the Sangamon County Municipalities,

Rural Housing in Sangamon County, Springfield-Sangamon County

Regional Planning Committee, December 1978. And for the Menard

County Municipalities; estimates from county-wide figures from
the Survey of Buying Power, 2.605 people per household in Menard County.

8) State per Pupil Educational Grant to the Local Jurisdictions

Unit of Aggregation /	Data
SMSA-wide	N.A.
Sangamon County-wide "	N.A.
Menard County-wide	N.A.
Sangamon County Municipalities	
Chatham (62629)	\$612
Dawson (62520)	\$193
Loami (62661)	\$128 '
New Berlin (62670)	\$128
Pleasant Plains (62677)	\$196
Riverton (62561)	\$867
Williamsville (62693)	\$464
*Springfield (62701-708)	\$562
Menard County Municipalities	
Petersburg (62675)	\$544
Oakford (62673)	\$544

*The Springfield zip codes include four municipalities: Grandview, Jerome° Leland Grove and Southern View. In most respects these municipalities are like the larger city.

Sources: For Sangamon County; Marge Snulick, Finances Clerk, Regional Superintendent of Schools Office, Sangamon County. For Menard County; Dean Broughton, Superintendent, Porta Community Unity School District.

9) Other State Revenues Attributable to the Institution or its Employees

Unit of Aggregation SMSA-wide Sangamon County-wide Menard County-wide		Data N.A. N.A. N.A.	•
Sangamon County Municipalities Chatham (62629) Dawson (62520) Loami (62661) New Berlin (62670) Pleasant Plains (62677) Riverton (62561) Rochester (62563) Williamsville (62693) *Springfield (62701-708) Menard County Municipalities	1		er capita " " " " "
Petersburg (62675) Oakford (62673)		\$16.60 p	er capita "

* The Springfield zip codes include four municipalities, Grandview, Jerome, Leland Grove and Southern View. In most respects these municipalities are like the larger city.

Source: Mr. Vince Johnson, Illinois Department of Local Government Affairs.

During 1977-78 fiscal year the state-distributed \$16.60 per capita
to each municipality as part of revenue sharing of state income tax.

10) Local Operating Budgets Excluding Public Schools

Unit of Aggregation	^ <u>Data</u>
SMSA-wide	N.A.
Sangamon County-wide	N.A.
Menard County-wide	N.A.
Sangamon County Municipalities	
Chatham (62629)	\$1,916,775
Dawson (62520)	17,236
Loami (62661)	12,950
New Berlin (62670)	22,900
Pleasant Plains (62677)	138,900
Riverton (62561)	1,345,975
Rochester (62563)	749,255
Williamsville (62693)	432,054
*Springfield (62701-708)	12,730,987
Menard County Municipalities	
Petersburg (62675)	347,180
Oakford (62673)	18,550

* The Springfield zip codes include four municipalities. These figures are not included in the total figure for Springfield:

 Grandview
 \$322,900

 Jerome
 668,000

 Leland Grove
 101,695

 Southern View
 155,950

Sources: For Sangamon County these figures were tabulated in the Sangamon County Clerks Office from the Appropiations Ordinances and Financial Reports that each municipality submits to the County Clerk For Menard County Mr. James Combs, Menard County Clerk, gave these figures from the municipalities appropiations ordinances.

II) Total Local Population

Unit of Aggregation		Data	
SMSA-wide		187,000	(1978)
Sangamon County-wide		175,900	(1978)
Menard County-wide		11,200	(1978)
Sangamon County Municipalities			•
Chatham (62629)	., •	4,759	(1978)
Dawson (62520)		512	(1978)
Loami (62661)		908	(1978)
New Berlin (62670)		828	(1978)
Pleasant Plains (62677)	•	704	(1978)
· Riverton (62561)		2,583	(1978)
Rochester (62563)	ı	2,052	(1978)
Williamsville (62693)	٠.	1,192	(1978)
*Springfield (62701-708)		97,400	(1978)
Menard County Municipalities		-	
Petersburg (62675)	`	2,632	(1970)
Oakford (62673)		272	
· ·			-

* The Springfield zip code includes four municipalities: Grandview, Jerome, Leland Grove and Southern View. For this data element, the population of these four municipalities was not included in the total population figure for Springfield.

Grandview	:	11	•.	2,242	(1970)
Jerome				1,673	(1970)
Leland Grove	•		-	1,624	(1970)
Southern View		•		1,504	(1970)

Sources: For SMSA, Sangamon County-wide and Menard County-wide, and Springfield:

Survey of Buying Power, 1979. For Sangamon County Municipalities:

Fact Sheet:City and Village Inventory of Sangamon Co. and Rural
Housing in Sangamon County., by the Springfield-Sangamon County
Regional Planning Commission. For Menard County: 1976 Statewide
Summary of Municipal Finances in Illinois, Illinois Comptroller's
Office, 1978.

12) Local Public School Operating Budget

Unit of Aggregation		Data
SMSA-wide		$\overline{N.A.}$
Sangamon County-wide		N.A.
Menard County-wide		N.A.
Sangamon County Municipalities		
Chatham (62629)	•	\$788,719
Dawson (62520)	ř	134,211
Loam (62661)		269,593
New Berlin (62670)		246,150
Pleasant Plains (62677)		187,430
Riverton (62561)	•	208,939
Rochester (52563)		339,168
Williamsville (62693)		249,286
*Springfield (62791-708)		18,780,465

12) Local Public School Operating Budget (con't)

Menard County Municipalities
Petersburg (62675) \$1,008,935
Oakford (62673) 105,842

* The Springfield zip codes include four municipalities: Grandview, Jerome, Leland Grove and Southern View. Children in these municipalities attend the Springfield schools (District #186).

Sources: For Sangamon County: <u>Sangamon County School Directory</u>, <u>1978-79</u>.

Estimates were developed as follows. The total operating budget for each school district was taken from the <u>Sangamon County School Directory</u>, <u>1978-79</u>. This figure was prorated to each municipality in proportion the percentage of the total district's attendance was accounted for by that municipalities children. Data sources are the same for both municipalities.

13) Total Enrollment in the Public Primary and Secondary Schools**

Unit of Aggregation	Data
SMSA-wide	N.A.
Sangamon County-wide	N.A.
Menard County-wide	Ν.A.
Sangamon County Municipalities	
Chatham (62629)	969
Dawson (62520)	104
`Loami (62661)	184
New Berlin (62670)	168
Pleasant Plains (62677)	143
Riverton (62561)	527
Rochester (62563)	418
Williamsville (62693)	243
*Springfield (62701-708)	16,564
Menard County Municipalities	
Petersburg (62675)	440
Oakford (62673)	77
	• •

* The Springfield zip codes include four municipalities: Grandview, Jerome, Leland Grove and Southern View. Children from these municipalities attend the Springfield schools, and they are included in the figures for Springfield.

**In Illinois, one school district usually serves more than one municipality. For the above figures, estimates have been developed on the data base.

Sources: Estimated as follows. In Sangamon County there are .2038 public school children per capita. This figure excludes the Springfield Schools (District 186). Taken from Sangamon County School Directory, 1978-79 and Survey of Buying Power, 1979. This factor was applied to the population figures for each municipality to estimate public school enrollments for the municipality. For Menard County Dean Broughton, Superintendent of Porta Community Unity School District, developed these estimates from his records. He used a prorating formula.

14) Value of all Non-School Government Property

Because Springfield is the state capitol of Illinois, the amount of such property is enormous. The local assessor, County Clerk Gary Tumulty, stated in an interview that this property has not been assessed. Also, the state does not insure its property, so insurance estimates are not available.

Source: Gary Tumulty.

15) Value of all School Related Property

Unit of Aggregation		Da ta
SMSA-wide	. '	$\overline{N.A.}$
Sangamon County-wide		N.A.
"Menard County-wide		N.A.
Sangamon County Municipalities		
Chatham (62629)		- \$23,324,612
Dawson (62520)		3,747,987
Loami (62661)		8,066,958
New Berlin (62670)		7,788,787
Pleasant Plains (62677)		5,272,005
Riverton (62561)		6,256,051
Rochester (62563)		9,436,928
Williamsville (62693)		7,450,883
*Springfield (62701-708)	,	608,697,116
Menard County Municipalities	٠	.,
Petersburg (62675)	æ	3,245,836
Oakford (62673)		340,503
,		

* The Springfield zip codes include four municipalities: Grandview, Jerome, Leland Grove, and Southern View. Children in these municipalities attend the Springfield schools (District #186).

Sources: Estimates have been developed as follows. The assessed valueation of school property was taken from, <u>Sangamon County School Directory</u>, <u>1978-79</u>. The proportion of this figure that could be attributed to the municipality was estimated by prorating the figures according the proportion of pupils in the district that resdied in a given municipality. This figure was taken from total enrollment.

Data compiled by Dr. Philip Gregg, Sangamon State University.



SECTION IV: WEIGHTING AND ESTIMATION TECHNIQUES USED IN THE STUDY

A. Overview see

This section orients the reader to the general weighting and estimation procedures used in this study, and orients the reader to the wide range of technical problems involved in economic impact studies. The "User Manual" portion of the Baltimore Case Study* includes an earlier discussion of some of these matters. Methods and procedures described in this final section of the technical supplement should be considered in conjunction with the discussion in the "User Manual."

B. Audience Data

The systematic sampling of individuals in an audience necessitates the weighting of the number of respondents of differing party-sizes due to the differing probabilities of different size parties receiving a questionnaire. This weighting can be effected by multiplying the number of parties of a particular size times the party-size and then dividing by the sampling interval. For a detailed description of this procedure and caveats regarding its use, see the Metro Center working paper on this subject.** This procedure adjusts the number of parties of a particular size, and then uses these new party strata sizes as the basis for computing weighted averages for party expenditures.

All estimates of party-spending or portions thereof were estimated in this fashion.

^{**}D. Alden Smith, "The Systematic Sampling of Parties at Arts and Cultural Events: Weighting Procedures for Party-Specific Items". Working paper. Center for Metropolitan Planning and Research, 1980.



^{*}David Cwi and Katharine Lyall, Economic Impacts of Arts and Cultural Institutions: A Model for Assessment and a Case Study in Baltimore, Research Division Report #6. New York: Publishing Center for Cultural Resources, 1977.

The limited number of visitor cases due either to small sample size or to there being only a small percentage of visitors in the audience on the dates surveyed, necessitated an analysis of visitor mean spending across all sampled institutions rather than on an institutional basis. For this reason, mean visitor spending should be considered with caution. Furthermore, since selected institutions had few out-of-SMSA visitors during the sampling period, estimates of total "sole reason" visitors may be based on a small number of sampled visitors. These institutions are noted in the case study (c.f. Exhibit 7). Results for these institutions should be treated as tentative.

Spending was only attributed to local attenders and non-local sole reason attenders for purposes of estimating economic impact.

This spending was calculated by taking the adjusted per party expenditures, converting them into per capita expenditures (on an institutional basis for local attenders, across all institutions for non-local sole reason attenders), and then multiplying these per capitas by the appropriate number of local and non-local sole reason attenders for the season. The total number of attenders for fiscal 1978 was reported by each institution's staff in the institutional data inventories and was later adjusted to exclude attendance at events outside the SMSA, and attendance at events held in schools.

C. Employee Data

The employee survey asked respondents to provide the zipcode of their place of residence. These zipcodes were used to allocate employees into local taxing districts that crossed political boundaries. The distribution of non-respondents place of residence was assumed the same as that of respondents.

The statistics used for calculations utilize institution full-time equivalents which include aggregated part-time employees. The residence of respondent full and part-time employees was used to distribute each institutions full-time equivalents among local political and taxing jurisdictions. Similar procedures were required to weight other sample statistics to full-time equivalents including household size, home ownership, average time and savings deposits, and number of children in public primary and secondary schools. In order to solve one model equation for all institutions and to derive summary data for all employees, sample means were weighted by number of full-time equivalents at each institution. This procedure sought to assure that no one institution was over-represented in the sample.

Estimates of local spending by institutional employees were based on their own salary and wage income and not on total household income. (Each case study cites employee salaries and wages as a per cent of their total household income.) However, costs to local government are based on employee households (unless otherwise noted) since the majority of these effects are only meaningful in terms of households. This section concludes with a discussion of procedures used to estimate direct tax effects.

D. Institutional Data

Institutional data were collected using procedures described in Sections I and II. Total annual operating costs attributed to each institution exclude capital costs and depreciation expense (a non-cash item). Institutional fiscal years were generally not concurrent. The case studies simply identify and aggregate the impact of each institution's last fiscal year.

Basically, these tasks were straightforward accounting tasks requiring substantial fail-safing procedures but little estimation or weighting. Specific comments or assumptions are detailed in the institutional data summary portion of Section III. In the few cases where governmental agencies or portions thereof could not provide expense statements, then appropriation budgets were used. This procedure excludes institutional spending of earned income from the analysis, and is thus very conservative. Such cases are footnoted in Section III where applicable.

E. Community Tax-related Data

Business Property Taxes

Estimation of property taxes attributable to the examined institutions proved difficult for the following reasons:

- (1) selected taxes changed over time,
- (2) there were a large number of taxing authorities,
- (3) taxing districts were overlapping,
- (4) procedures required data that was not always readily available, including market value or taxable value, the assessment ratio and the property tax rate for each jurisdiction for each kind of property under consideration,
- (5) differing local procedures by type of local property, e.g. business inventories may or may not be taxable, or taxable at a different rate than business real property,

In general, the procedure followed was to weight the assessment ratio (ar) by the assessed market value (MV) for all taxing jurisdictions and then to weight the property tax rate (pt) by the taxable value (AV). This method must be used if ar differs by jurisdictions (otherwise ar may be weighted by AV). This procedure was used, where possible, to weight up to an aggregate tax rate for all local jurisdictions within a county, then the counties were weighted across the SMSA.



owners and rentors. It should be noted that this procedure assumes that all employees either own a home or rent.

Sales Taxes

The calculation of sales taxes must take account of differing tax rates and taxable transactions by local jurisdictions. One can "tax" the attributable cash flow if one knows the jurisdictions affected and economic sectors involved. The calculation of sales tax effects requires the identification and aggregation of all institution, audience, and guest artist spending subject to sales tax which is then multiplied by the appropriate tax rate. If, for example, the cost of accommodation is not subject to sales tax, then spending in this sector must be excluded. The study uses the coefficient .004375 as the percentage of employee salaries that will result in sales tax revenue per 1% of the local tax rate.*

If only a percentage of locally generated sales tax revenues are returned to local jurisdictions then the local sales tax revenues are equal to that percent times the sales tax dollars generated locally.

Jurisdictions with differing sales tax rates can cause further disaggregation, if so attributable sales taxes were apportioned by the percent sales tax collected in each jurisdiction.

Transit Taxes

Transit taxes, where applicable, were levied in a similar fashion to sales taxes and were treated similarly.



^{*}Coefficient provided by Dr. David Greytak, of the Maxwell School of Citizenship and Public Affairs, Syracuse University.

Residential Property Taxes

Local residential property tax attributable to institutional employees that own homes, was calculated directly using average property tax reported by the full time employees in the employee survey weighted by the number of full-time equivalent employees at each institution.*

Property taxes due to institutional employees who rent living quarters was estimated in the following manner.** 20% of average rent was assumed to eventually go to landlord property taxes and it was assumed that 25% of rentor employee's household income goes to rent. The following calculations show the amount attributable per rentor employee:

Mean Ren	ter's Household Income	Rent (monthly)	Property Tax Attributable	
Columbus	\$14,500	\$302	\$725	
Minneapolis/St. Paul	\$13,381	\$279	\$669	
St. Louis	\$15,909	\$331	\$795	
Salt Lake	\$13,527	\$282	\$676	
San Antonio	\$13,636	\$284	\$682	
Springfield	\$16,438	\$342	\$822	

The calculation, then, is simply: (Property Tax Attributable) (1-h) (FTE's), where FTE's is the number of full-time equivalent employees. The final calculation involves summing the taxes attributable to



^{*}See the section on employee data for other weighting procedures.

^{**}This procedure was suggested by Dr. Katharine Lyall.

Hotel Taxes

The same type of jurisdictional problems encountered with sales taxes are confronted with hotel taxes. To provide a conservative estimate of attributable direct hotel taxes, the following method was. used. The estimated number of non-local attenders who came solely to attend an examined institution was multiplied by the average length of their visit to get the estimated number of person-nights in the area. This figure was adjusted by the percept reporting spending on lodging (corrected for party-size) to identify the number of paid person nights in the area. According to Laventhal and Horwath the average daily rate for occupancy in 1977 was \$31.62,* or \$15.81 per paid person night assuming two persons per room. Multiplying the \$15.81 times the number of person nights gives the estimated dollar value of hotel spending by non-local attenders who are in town solely to attend the examined event. This amount of money, when added to the spending on hotels by guest artists at the examined institutions (from the institutional data inventories) gives an estimate of total spending attributable to the hotel sector. This amount was then "taxed" at the appropriate rate(s). This method does not count spending by local attenders on accommodations.

Parking Revenues to Local Governments

Parking revenues to local governments were calculated as follows.

Assuming one party per car, the adjusted number of local and non-local sole reason parties was multiplied times the estimated per cent arriving

^{*}Laventhal and Horwath, "U.S. Lodging Industry, 1978." Philadelphia, Pa. 1978, p. 14.



by car to get the number of attributable cars. This figure was multiplied by the estimated per cent using public parking to get the number of cars using public parking. This number of cars was multiplied by the estimated cost per car (average length of stay in hours times average cost per hour in public lots) to get the parking revenues to local government for each institution. The figures were then summed across all examined institutions.

Gasoline Taxes

Gasoline taxes were estimated by multiplying the average distance traveled times the adjusted number of local and sole reason parties to get total miles traveled. This figure was then divided by an assumed 20 miles per gallon (to be conservative) to estimate attributable gallons used. Then local excise taxes per gallon were applied. No estimate was made of gasoline usage by the examined institution's employees (either business or personal usage) or gasoline usage by guest artists.

Restaurant Taxes

Restaurant taxes, where applicable, were calculated directly from estimated spending in restaurants and bars, using appropriate local tax rates.

Admission Taxes

Admission taxes, where applicable, were taken from the examined institutions' data inventories rather than estimated.



Income Taxes

Income tax estimates frequently involve jurisdictional problems as noted previously with other tax items. One frequent problem is whether the tax is collected where the employee lives, works or both. Income taxes, where applicable, were calculated in the fashion described in the Baltimore Case Study unless otherwise noted in a particular case study.

<u>"Multipliers"</u>

"Multipliers" were calculated in the fashion described in "Multiplier Analysis: Arts and Cultural Institutions."* This method requires estimates of the population of the study area, the ratios of employment to earning in the arts and cultural, retail, and hotel sectors of the economy, and attributable spending in these sectors. Employment to earnings ratios were calculated from 1976 County Business Patterns data, and adjusted for inflation using the consumer price index to provide 1978 estimates. The general analysis report prepared as part of this study includes a detailed discussion of "multiplier effects" and their place in regional economic impact analysis.



^{*}David Greytak and Dixie Snively, "Multiplier Analysis: Arts and Cultural Institutions," unpublished paper. The Johns Hopkins University Center for Metropolitan Planning and Research, April 1979.

TECHNICAL SUPPLEMENT TO THE ECONOMIC IMPACT OF TEN CULTURAL INSTITUTIONS ON THE ECONOMY OF THE SPRINGFIELD, ILLINOIS SMSA VOLUME II -- APPENDICES

The Johns Hopkins University Center for Metropolitan Planning and Research

Principal Investigator:

Project Manager:

Report Written By:

Computer Programming/Data Base Management:

Audience Study Sampling Design/ Selected Analysis:

Technical Assistance in Design and Analysis:

Project Secretary:

Student Assistants:

David Cwi

D. Alden Smith

David Cwi and D. Alden Smith

Mark Keintz. Brian Peters

Ralph Taylor

Allen Goodman Henry Henderson

Patty Strott

Gayle Cohén Scott Holupka Elizabeth Platt Ariel Vannier

This report was prepared under grant number R80-22-1N from the Research Division of the National Endowment for the Arts. Points of view or opinions stated in this document are those of the authors and do not necessarily represent the official position or policies of the National Endowment for the Arts, The Johns Hopkins University, or the Center for Metropolitan Planning and Research.



TABLE OF CONTENTS

•	ı		· ·	•) ()	Page
, '	•			*		
APPENDIO	CES		1			
B) C) D) E)	Annotation Institution Community D Sample Cale	Instruction al Data Inv ata Invento ndar Instri	and Respons	 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		9 13 35 48



APPENDIX A

Audience Survey Dates and Response Rates



Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
11/28	467	369	4	365*	1/2	950
·						

^{*} Response rate of 79%



SPRINGFIELD THEATRE GUILD

Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
11/10	017	170	10	3.65	3 /3	050
11/10	217	178	13	165	1/1	259
11/11	202	179	12	167	1/1	226
n	419	357	25	332*	1/1	485
9				,		
					,	. ,
		,		<i>2</i>		
			phases:			

^{*} The overall response rate across the survey period was 79%. One questionnaire was deleted during subsequent computer edits.



SPRINGFIELD ART ASSOCIATION

	Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
				,	,	•	
	11/04	211	157	1	156	1/1	230
	11/16	43	43	1	42	1/1	43
	11/19	214	197	7	190	1/1	250-300
	· • ♂			-			
'-				_	,	:	(5.40)
	'n	46 8	397	9	• 3 88*	1/1	548**
	, , , , , , , , , , , , , , , , , , ,				;	£-	r
	•				,		
					1	1.5	
					1		
	* · ·				,		
	-			,	· · ·		
			1	,			
	*			·			
	:				-	1	
	:						
		·					

^{*} The overall response rate across the survey period was 83%. Seven questionnaires were deleted in subsequent computer edits.



^{**} Using 275 as the estimated attendance on 11/19.

COMMUNITY CONCERT SERIES

Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
1/24	422	392	21	371*	1/1	550
					1 · · · · · · · · · · · · · · · · · · ·	,
						te .
					,	
A. Sales				Control of the contro		1. The state of th
1.					*	-

^{*} Response rate of 88%. Seven questionnaires were deleted during subsequent computer edits.



SPRINGFIELD BALLET

Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
	7					
12/08	1,77	141	,8	133	1/1	228
12/09	182	158	18	140	1/1 ;	374
		e .			. *	
n	359	299	26	273*	1/1	602
		•				
						•
182	•	**				
	Marian and State State of the	A STATE OF THE STA	A Commence of	. Process of the second		e som to the second
an a dispersion of the second section of the section of the second section of the section of the second section of the sectio						
	1		,			

^{*} The overall response rate across the survey period was 76%. Twelve questionnaires were deleted during subsequent computer edits.



ART COLLECTION IN ILLINOIS STATE MUSEUM

					<u>· </u>	·
Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
			** *			
10/29	151	124	11	113	1/1	272
11/08	57	55	5	50	1/1	57
11/18	130	126	6	120	1/1	338
•		·		ľ		
n	338	305	22	283*	1/1	667
	ŀ					٠.
					,	
•				,		
		,				
			·		.,	
					1	
	,	,				
•						
• .	,					
•	1			<u> </u>		<u> </u>

^{*} The overall response rate across the survey period was 84%. One questionnaire was deleted during subsequent computer edits.



OLD STATE CAPITOL

, Date	Distributed Forms	Returned Forms	Rejects During Editing	Valid Forms	Sampling Intervals	Total Attendance
10/28	326	193	21	172	1/1	836
11/11	156	148	. 9	139	• 1/1	463
n	482	341	30	311*	1/1	1,299
	JP				•	
					,	
					-	

^{*} The overall response rate across the survey period was 65%. Four questionnaires were deleted during subsequent computer edits.

BEST COPY AVAILABLE

APPENDIX B
Annotation Instructions



CENTER FOR METROPOLITAN PLANNING AND RESEARCH BALTIMORE, MARYLAND 21218

Instructions for Annotating Budget Statements
 and Statements of Functional Expenses

- The study coordinator must collect the auditor's report, the last income and expenditure budget summary for the fiscal year included in the auditor's report, and any questionnaires completed for service organizations (ASOL, TCG, Opera America, etc.) The budget summary is an independent internal document reflecting the institution's proposed budget. It is often prepared for the Board. Collect the last budget prepared in the fiscal year for which you have an auditor's report. (Ideally, you will collect a final quarter budget containing actual expenses for the first three quarters and a budget for the last.) These budget statements are probably more detailed than the auditor's report.
- 2) The study coordinator should make (and keep) a copy of all documents and forward a copy to David Cwi.
- 3) The study coordinator should identify the person most familiar with accounts payable, e.g., the bookkeeper or controller. Prior to contacting this person, the study coordinator will contact David Cwi to review the adequacy of each institution's "statement of functional expenses" and budget statement. If portions of the "statement of functional expenses" are not adequate, the study coordinator may have to rely on the budget statement. If neither is sufficiently detailed, it will be necessary to sample invoices as noted below.
- 4) The study coordinator will meet with the person noted in #3 in order to identify institutional expenditures with local firms. Line items depicting staff salaries may be ignored inasmuch as the percentage of staff that reside locally and the amount staff spend locally will be identified by the staff survey. Contractural labor services, e.g., guest artists, should be identified as local or non-local using the procedure described below. (The amount non-local "guests artists" spend while they are in your SMSA is identified using the attached instrument. Treat all expenditures made with non-local "guest artists" as spent completely out of the SMSA.)



Procedure for Annotating Statements of Functional Expenses/Auditor's Report

After you have forwarded to the Metro Center the documents cited in #1 above, they will be examined to verify the appropriateness of the annotation strategy discussed below. Potential problems will be reviewed by phone before the study coordinator meets with institutional staff.

The notation described below seeks to identify total institutional expenditures with firms located in the examined SMSA. We are concerned with whether goods or services were purchased from a local source, even if the source was part of an enterprise with headquarters in another city. In short, expenditures are local if they are made locally, even if the firm is not locally owned and operated.

It is anticipated that the study coordinator and the person in charge of accounts payable will review each line of the statement of functional expenses. To help confirm the judgement of institutional staff regarding the proportion of each item that is spent locally, it would be helpful to ask staff to identify the local vendors from whom the goods and services in question were purchased. If there appears to be some doubt as to the accuracy of staff representation of local spending, in one or another categories, you will indicate this by "?" next to the line in question as described below.

- a) next to each line item should be placed the % of that expense spent within the SMSA
- b) if a majority of the remainder is spent out of the state, a check () should be placed next to the % spent in the SMSA.
- c) if a majority of the remainder is spent in the state, no check mark is needed.
- d) When there is doubt about the remainder, write "?" next to the % spent in the SMSA.
- é) If there is doubt about the % spent locally, write "?" next to the appropriate line item.
- f) In special cases -- Twin Cities and St. Louis -- where two states are overlapped by the SMSA, "out-of-state" means out of both states and "in-state" means in either or both states.

Sample Annotation for Auditor's Reports

or Budget Summary

	,	• _Б че		. 7	in SmsA
1)	Legal and accounting	5,146	•	: _	100%
2)	Maintenance supplies	18,000	•		60%
3)	Miscellaneous	461	• • •		90% 🗸
4)-	Office supplies	3,290		* * *	80%

 \checkmark on line 3 implies that the majority of the remaining 10% was spent both out of the SMSA and out of state.

The lack of checks on lines 2 and 4 implies that the majority of the 40% and 20% respectively spent out of the SMSA were spent in the state.

If the person in charge of accounts payable is not sure what % of any line item (especially large categories) is spent within the SMSA, then the invoices for that item must be sampled. If the statement of functional expenses is not sufficiently detailed and you are not allowed access to the supporting budget summary, you will have to sample invoices. In order to deal with this issue at the outset, please send both budget and auditor's reports before you visit the institution.

APPENDIX C
Institutional Data Inventory



THE JOHNS HOPKINS UNIVERSITY

CENTER FOR METROPOLITAN PLANNING AND RESEARCH
BALTIMORE, MARYLAND 21218

E.I.S. Data Inventory

The current six city study involves many different types of institutions. This form will be used to supplement information gathered from institutional auditor's reports and budget statements. Many of the items of information requested are inapplicable to one or another type of institution. Please answer all items that apply, noting when the answer is an estimate.

Instructions

Please do not leave any lines blank:

if you mean zero, write "0"

if you mean not applicable, write "N/A"; (if entire sections are not applicable, please so indicate)

if you mean an estimate, write "E" after the answer.

Much of the information requested may be available from reports or applications prepared by the institution for their service organization or various funding sources. To minimize the burden of the participating institutions, study coordinators should collect such material from institutional managers and use it to complete as much of this form as is possible. We suggest that Section II be completed at the same time the study coordinator visits the institution to annotate the statement of functional expenses. All data provided should be for the last fiscal year, which should be noted below.



Section I

Data Inventory Institutional Operating Characteristics

Date: A Section of the Control of th		SMSA Number:		
Fiscal Year you are		Institution Number: _		
reporting:		Audit basis:		•
Name of Organization:		cash accrual		1
Name and title of managing	P	hybrid	1	
director:		Fiscal Year begins: _	*	
Mailing Address:		IRS non-profit?:		
Telephone Number:	· · · · · · · · · · · · · · · · · · ·	Yes	No	
Name of staff person most familiar with financial	!	Year organization founded:		· ·
information/internal accounts:		How many years in present facility:		<u></u>
Mailing Address:	Maria Cara	In what year was pres	ti Visas	
Telephone Number:		facility built:		

75

PERFORMING ARTS ACTIVITIES

	· ·	Regular Season	Touring	Special Events**	In-School or other Programs**	. Total
١.	Total Paid Attendance					
2.	Total Complementary or Free					
3.	Total Attendance					
4.	Total Attendance by Subscribers					
5.	Total Attendance Group Sales					
6.	Total Discounted Single Tickets					
7.	Total Undiscounted Single Tickets					
8.	Total <u>Possible</u> Attendance *	(x				
9.	2 Capacity paid (1 ÷ 8)					
10.	Total # of Productions					
11.	Total # of Performances	•		<u> </u>		1
	* Total possible attendance should and that orchestra pit seating (***Please briefly describe these ex	nay be used for so	we her torme	ilices.		
	Special Events:		In-sch	ool or other Programs	s:	
			_ .			
	,	·				
					•	16

EXHIBITIONS, LECTURES, WORKSHOPS, OTHER ACTIVITIES NUMBER OF ACTIVITIES AND ATTENDANCE: MAIN FACILITY

	Total #		
in Facility			
Total Days Open to the Public per year			
Total Hours Open to the Public per year			
Total Attendance			e e e e e e e e e e e e e e e e e e e
Total Paid		Total Attendance	► Total Paid
Total # of Permanent Exhibitions (excluding touring)			
on average, how many minutes do people spend viewing each exhibition?			XXXXXXXXX
Total # of New/Special Exhibitions (excluding touring)		-	
on average, how many minutes do people spend viewing each exhibition?		<u> </u>	XXXXXXXXX
total # developed by the institution		XXXXXXXXX	XXXXXXXX
total # developed by others*		<u> </u>	XXXXXXXXX
* merely being shown, but not developed by in-house curatorial staff		(continued on ne	xt page) 17

EXHIBITIONS, LECTURES, WORKSHOPS, OTHER ACTIVITIES NUMBER OF ACTIVITIES AND ATTENDANCE: MAIN FACILITY (cont'd)

n Facility		Total #	Total Attendance	iotai raiu
Total T of lectures				
Total # of workshops -				
on average, how many hours do people spend in each workshop?		•	XXXXXXX	xxxxxxx
Total # of classes				
on average, how many hours do people spend in each class			XXXXXXX	<u>xxxxxx</u>
Total # of films	•		• <u>C. P</u>	
Total # of other (please list):		•		
)				
. 2		•		
	•	1	Touring Activities See	next page

73

EXHIBITIONS, LECTURES, NORKSHOPS, OTHER ACTIVITIES NUMBER OF ACTIVITIES AND ATTENDANCE: TOURING/OUTREACH

ouring			Total #	<u>To</u>	tal Attendance	•	Total Peid
Total # of Tourin	g Exhibitions			-			
on average, spend viewin	how many minutes do pe g each exhibition?	ople			XXXXXXXXX	. '	xxxxx
-	ble to the Public per	year		5			XXXXX
Total Hours Avail	able to the Public per	year		, <u> </u>	_XXXXXXXXX		XXXXX
Total # of Lectur	,			· -		•	
Total # of Worksh		•	-	٠.		•	
on average, spend in eac	how many hours do peop h workshop	ore,		· · · · ·	XXXXXXXXX		XXXXX
Total # of Classe				. 47			
on average. spend in eac	how many hours do peop h class	ole.			XXXXXXXX		XXXXX
Total # of Films							•
Total # of Other	(please list):	•					•
			. 	-	· · · · · · · · · · · · · · · · · · ·	-	
		•			·	<u>-</u>	



81

* Refers to outreach activities conducted outside the main facility.

Instructions .

Contributions from individuals and businessmen may be received by the institution in either or both of two ways: as a cash contribution or a purchased membership treated by the institution as a contribution.

The information provided below allows institutions to distinguish between both sorts of cash contributions. Information is first sought on cash contributions that are not received as purchased memberships. Information is then requested on membership income.

"Individuals" refers to contributions/from individuals taken by them as a tax exemption. "Businesses" refers to contributions taken as a tax deduction by a business. You are asked to identify the total number of contributions and then group them by size of contribution.

CONTRIBUTION PATTERNS

ash Contribution (not including memberships)		•			
lotal number of <u>individuals</u> contributing	· · · · · · · · · · · · · · · · · · ·		•	•	
lutal # grouped by size of contribution	\$0-49		100-499	500~999	1000 and over
No. of the second secon		•	•	•	•
Yotal number of business contributions	 .	• .	•	.*	· · · · · · · · · · · · · · · · · · ·
lotal # grouped by size of contribution	\$0-49	50-99	100-499	500-999	1000-2499
	2500-4999	5000	and over	•	•
femberships .					
Intal number of individual memberships	 	•		•	•
Total # grouped by size of contribution	\$0-49	50-99	100-499	500-999	1000 and over
5 Sand Le mambane blac	•		•		` .
lotal number of family memberships			100 400	500-999	1000 and over
lotal # grouped by size of contribution	\$0-49	50-99	100-499	300-999	1000 and over
Total number of business memberships.				•	
Total # grouped by size of contribution	\$0-49	50-99	100-499	500-999	1000-2499
Total # grouped by Size of contestibution	2500-4999		and over	•	

20

85

CONTRIBUTION PATTERNS

(cont'd)

			jency	•		A	mount
			, 	<u> </u>			
		·	A	· · ·	<u> </u>		
•	4		•	,		. <u> </u>	- , '
					· · · · · · · · · · · · · · · · · · ·	1	
		3			,		5 3
	•		<u> </u>		· · · · · · · · · · · · · · · · · · ·		,
							· ~ .
		\ '				, <u>, , , , , , , , , , , , , , , , , , </u>	
			,	•			•
ase	list all private	foundations from w	hich you have	received gr	ants and specif	fy	
amou	unt.	Foundation	•	· .		, A	mount
	•	\				•	
	· · · · · · · · · · · · · · · · · · ·						

ERIC -

Instructions: Categories I through III should be used for persons regularly working for the institution. Included are salaried and hourly staff -- 1.0., persons for whom a N-2 form is prepared -- and volunteer and CETA staff. (see note below regarding volunteers). Also include all staff positions for whom a contract instrument is used. This will include staff-paid on a per service basis, e.g., ushers and musicians, but not specialized consultant services, e.g., auditor. Do not include guest artists or staff/cast of booked-in shows. Do not include personnel turnover in 1 - 111, i.e., the total # of persons who have worked in the institution, but rather the number of staff boottions these persons have filled. If the number of positions varies by time of year or by event, e.g., some shows require more dancers, please estimate average number of positions at any point in time during the fiscal year for which information is being supplied. Cite total number of positions in each category and total hours worked per year, including overtime, whether paid or not.

ORGANIZATIONAL STAFFING

FULL AND PART-TIME VOLUNTEER 4-CETA PAID FULL-TIME PAID PART-TIME # of positions! hrs worked 1. AIMINISTRATIVE # of positions has worked # of positions | hrs worked # of positions | hrs worked per year per year . per year per year Executive Director/General Hanager/ Business Hanager House Hanager/Box Office Manager/ Dept. heads Development/PR/Fundralsing Clarical/Secretarial Haintenance/Grounds/Restaurant-Bar/ GIft Shop/Shipping ·SUB-TOTAL

¹ Note: Volunteer includes Guilds, Boards, and all other unpaid labor involved in running the organization

(continued on next page)

BEST COPY AVAILABL

	PAID FULL-TIME	PAID PART	r-TIME (CETA -	. •	FULL AND PART-TIME - VOLUNTEER*		
1. ARTISTIC PROGRAM/PRODUCTION	of positions has worked	ℓ of positions	hrs worked per year	# of positions	hrs worked per year	# of positions	hrs worked per year	
Non-performing: technical/managerial (set, lighting, costume, wardrobe, design, props, casting, stage manager, artistic director, etc.)	per year		pei Year		, jeur	•	r '	
Performing: musicians, actors, chorus, dancers, conductors			a		,	,		
Stagehands/ushers/hox-office assistants/ guards/security/guides		(. n					·	
SUB-TOTAL				·				
		-		· \				
	•				v	• • • • • • • • • • • • • • • • • • • •		
·	•	or .		. (•			

111.	EDUCATION/RESEARCH/OUTREACH	
	Librarian/Editor/Photographer/Designer	

Instructor/Researcher/Curator/Conservator

SUB-TOTAL

TOTAL

* Note: Volunteer includes Guilds, Boards, and all other unpaid labor involved in running the organization.



WAGE STRUCTURE

Please estimate average wage rates using per year for full-time and per hour for part-time. Instructions: Please estimate wage rates per position not per person. (See instruction from previous data section.)

Staff	Categories
-------	------------

1. Administrative

Executive Director/General Manager/ Business Manager

House Manager/Box Office Manager/ Dept. Heads

Development/PR/Fundraising

Clerical/Secretarial

Maintenance/Grounds/Restaurant-Bar/ Gift Shop/Shipping

year				
avera	ge 1	ncom	e	per
Paid				

Paid Part-Time average income per hour all positions

(continued on next page)

WAGE STRUCTURE (cont'd)

ď		•	Paid Full-Time average income per year all positions	· `		Paid Part-Ti average inco hour all pos	me pe
taf	<u>f Categories</u>	• ,		ç		•	•
I.	ARTISTIC PROGRAM/PRODUCTION			•	•	•	>
	Non-performing: technical/managerial (set, lighting, costume, wardrobe, design, props, casting, stage manager, artistic director, etc.)			 -			,
	Performing: musicians, actors, chorus, dancers, conductors				*	- 4	
	Stagehands/ushers/box-office assistants/ guards/security/guides				•		• • •
							٠
II.	EDUCATION/RESEARCH/OUTREACH		•	·			
	Librarian/Editor/Photographer/Designer						ir
	Instructor/Researcher/Curator/Conservator				•		

Section II

Model Specific Data From Institutional Records

. Average daily balance in all institution time (savings) accounts

Average daily balance in <u>all</u> institution demand (checking) accounts

Note: Both of the above figures may be calculated by choosing 3 days in each month randomly using the table below. This results in 36 balances which must be summed and divided by 36. If there is more than one checking or savings account, then the process must be repeated for each account (e.g., if two checking accounts, one would use the above procedure to create two averages, then simply add them and write the resulting number in the second blank).

RANDOM NUMBER TABLE

month in fiscal year

	1	2	3	4	5	6	7.	8	9	10	11.	12
	22	24	16	13	19	2	7	12	25 ·	28	31	1
cted ys	11	6	4	28	14	8	23	30	22	1	11 .	30
sele.	10	29	5	15	3	18	. 21	20	15	9	17	26
		1		•	ł .	•			<u> </u>			

Using the table: For month 1, the three days to sample are the 22nd, the 11th, and the 10th. The account statement may read as follows:

Date	Transaction	•	<u>Balance</u>
1/5 1/10 1/11 1/23	check deposit check check	4	\$20 \$30 \$10 \$ 5

Using the random table, one finds that the balance for the 22nd is \$10, because no transaction occurred between the 11th and the 23rd and the balance on the 11th was \$10. The balance for the 11th and 10th can be read directly from the above statement.

ERIC 9 4

Total local real estate taxe	es paid directly by the institution.*	_	
	ernment made in lieu of taxes.		
	ted. Please (J) level of government.	•	Amount
Total damissions can be the	local tax	-	
	state tax	-	
Total sales tax collected.	Please (\checkmark) level of government.		Amount
•	local tax	-	
	state tax	• - <u>-</u>	
ment and amount. Exclude p	ees paid by the institution to government. ayroll taxes and federal, state, or local i	Please list type income tax deduct	e, level of goverr ions from staff
payrolls. Tax or Fee	Level of Government	•	Amount
		•	
•		•	·
. ,		•	•

^{*}Since most artistic and cultural institutions are non-profit, tax-exempt institutions, they will pay no real estate taxes. Some may own property which is not used for non-profit purposes, in which case they will pay property tax.

Please restimate total annual cost of municipal-type services provided by the institution: "

- 1. Street lighting (include parking lots)
- 2. Landscaping
- Street maintenance
- 4. Sidewalk maintenance
- 5. Trash removal (not including janitorial or maintenance costs)
- 6. Security and police (not including the cost of central station alarm services
- 7. Other (please list)

Please list and describe any special municipal services provided to your institution for which the city or county does not require reimbursement (e.g., 5 policemen for two hours per week, etc.)

93

during the	timate the number e fiscal year unde	er constaer	acton.	•	. •			
exhibition	uest artist" referns, lectures, etc. urposes, guest art or may not be pers	, (e.y., a	on_reside	ents in the c	ommunity for a	relatively	ct, to gi nvolve 10 short pe	ve performances, O+ guest artists riod of time.
18.	t artists are in j	vour commute	nitv. how	many days on	average do the	ey stay?	·	
	e average should to	taka inta :	account a	Jest artists	that may stay	for as long	as a mon	th (e.g., an
ments or	e, how much will attions? You may us simply your best and entertainmen	se per dien estimate o	m. Patae fi	nai are vail.	UI CONCIUCION	1 43166		
						a thou star	יף,	
When gues	t artists are in	your commu	nity, how	many nights:	, on average, o	o they stay	·	
,	it artists are in	æ		•	Maga	•		**L' + 0
Where do	t artists are in guest artists at re? Please indica	æ		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eaus commingity?	and what	does it o	cost them to est artist per
,	•	æ		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eaus commingity?	And what the cost	does it of the gue	cost them to est artist per t to each per ight
Where do	guest artists at re? Please indica	your insti te the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per
Where do	guest artists at re? Please indica Apartment owned	your instite the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per
Where do	guest artists at re? Please indica	your instite the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per
Where do	guest artists at re? Please indica Apartment owned	your instite the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per
Where do	guest artists at re? Please indica Apartment owned	your instite the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per
Where do	guest artists at re? Please indica Apartment owned	your instite the num	tution st ber utili	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	your community? pices given and # guest a	And what the cost	does it of the gue	t to each per

• • •		7	4 4 3			+takat	calce/admis	cions	are s	sold	through	the
What percentage of	the	institution's	total	annua	paid	CICKEC	20162hdomir	,5 , 0,,5				
following outlets:					• .	•						

- 1. Box/ticket office on premises
- 2. Group/block sales.
- 3. Commercial ticket agencies
- 4. Ticketron outlets
- 5. Other sales in retail stores
- 6. Co-operative ticket booths (e.g., arts alliance sets up booth with aid of local bank to sell tickets for all member organizations)
- 7. Other (please specify)

Does the institution participate in any subscription series or offer memberships and services in conjunction with any other arts organizations. (e.g., a performing arts series that includes 2 plays, 2 dance recitals, etc.)

Yes _____No

If Yes, please describe:

	- (•		
	_		2011	70.15	CTHAV	COORDINATOR	UNII A
*^	nr	COMBLETED	II V	11416	< 111111A	THIRDINALDIK	THAL I
111	1112	LUMPLETELL	111		31001	COCKDIANTON	0116

	•									***	L 21.			いってんざいだ	dictance	Λf
01		tha	numbar	۸f	tha	$f \cap I \cap I$	กพรทส์	types*	nf h	usinesses_wit	nın	con	venient	Markina	413 cance	UI
Please	escimate	rue	Humber	UI	LITE	1011	on mg.	0) PC3	· , -			•		Aba nuh	140	
		44-4	. 240 01	non	whan	tha	ineti	tution	has	performances	or	15	open to	the pub	116.	ν
tne .ins	titution	tnat	, are of	pen	Mucu	CHE	11136	peu e i ei.	,,,,	F			•	•		

		none	one or two	a few	many
	Restaurants	-	c_{ϕ}		
	Bars	*	<u> </u>		
	Diners/fast food outlets)		,	
	Galleries and specialty shops	• • • • • • • • • • • • • • • • • • •		•	
	Other retail establish- ments	•			
		1		k	
Ware any	of these businesses built so	lely or primarily	y to serve the (examined cultura	al institution?
ne, e uni	Yes	No		•	ø.
If Yes,	olease indicate which and des	cribe:			•
		· · · · · · · · · · · · · · · · · · ·		**	
	e parking facilities near the	o ovamined instit	ution that are	operated by loc	al government or
Are there	e parking facilities near un blic agencies?	e exquiring injure		· · · · · · · · · · · · · · · · · · ·	·
	Yes	No .			•
Do parki	ng revenues go directly to 1	ocal government a	s general reven	ues, or are the	y used solely to
pay cost	s incurred by the parking to	cirio,	ng facility only		
ERIC iu4 /	general revenues	the parkin	ig ractificy only		105

•	perated by the Yes	•	No				0 1			,	
		-,			, , ,		~ 1	v .	•		•
Were any of stitution?	these parking	facilitie	es built	solely	or prim	arily to	serve	the ex	amined	cultura	ıl İn
•	private lots		Yes		_No.				· ·		٠.
•	public lots	**	Yes		_No		,				, , <u>,</u>
	•	•		* -	• • • • • • • • • • • • • • • • • • •			•			
	· · · · · · · · · · · · · · · · · · ·	-1 1 .	, *		•	•		·	•	•• ′	1
	•		1 21		•			, . ·		•	
		. Anu in t	•	to the	narking	fee?	e				. •
Is there a	local or state	! Lax III c	N		, parmin		•		•	• ••	
en e	Yes	-	N	U		,	•		s		
If Yes. ho	w is the tax co	omputed?	•	i ji	ika miliaturi yanan	The second second			,		ر
· · · ·		. ~]			• •	State		····-		·	_
	Local	,	• •		•	•.					
								•			
	· · · · · · · · · · · · · · · · · · ·				. \	•		<u></u>			

ERIC

TO BE COMPLETED BY THE STUDY COORDINATOR ONLY (cont'd)

	•	Private Lot	S	Public L	OTS.
What percentage of parties arriving by car are likely	. '	• .		• •	•
to use these parking facilities?				<i>7</i> .	
Approximately how long will the average audience/	•				
visitor party park his car?			-	•	
Approximately how much will they spend to park				•	
their car?	-			,	• •

What percentage of parties arriving by car well use metered spaces?

Approximately how much will they spend to park their car?

1\psi 9

103

Ų

lhat	iş the	assessed	value of the institution's facility?		Í	
•			Property owned by the institution			
		•	Facilities rented by the institution	<u> </u>		
•	•		% of facility occupied by the	•	,	
	6	•	institution '			

Note: If not available from the institution, these figures may be available from the local tax and assessment department.

BEST COPY AVAILABLE

APPENDIX D

Community Data Inventory

THE JOHNS HOPKINS UNIVERSITY



CENTER FOR METROPOLITAN PLANNING AND RESEARCH BALTIMORE, MARYLAND 21218

TO: Study Coordinators

FROM: David Cwi,

.DATE: March 1, 1979

Attached is an expanded version of the annotated community data inventory distributed at the October Study Coordinator's Workshop. The revised draft has been developed after a review of the community data forwarded to date. We hope that it provides an adequate basis for data collection despite the differences that have appeared among partnership cities regarding such matters as type and number of taxing jurisdictions, state/local fiscal relations and the availability of particular data items.

After you have reviewed the attached, please contact me by phone. We will want to discuss problems and progress to date and identify if there are ways that we can assist you in gathering needed data or deriving estimates.

In the short run, your first priority is the implementation of the staff survey and the collection of budget statements and auditor's reports for our review. We would like to complete all data collection tasks by the end of March and look forward to promptly returning your audience studies as soon as keypunching is completed.



THE JOHNS HOPKINS UNIVERSITY



CENTER FOR METROPOLITAN PLANNING AND RESEARCH
BALTIMORE, MARYLAND 21218

Community Data Series Reporting Protocol

Attached is a revised draft of the community data inventory distributed during the October Study Coordinator's Workshop. Each of the data items is reviewed and an attempt made to anticipate difficulties in collecting data.

The data required will be found in selected state, local and federal reports. The attached includes suggestions regarding appropriate state and local agencies to be contacted.

While many of the data items deal with the SMSA as a whole, it will be necessary in many cases to provide information on individual taxing districts within the SMSA. Even when the data item deals with the SMSA as a whole, you may find that the data has not been aggregated by an appropriate regional or state agency; in which case you will have to assemble SMSA data from reports prepared by appropriate local agencies within the several jurisdictions that comprise the SMSA.

We will be relying on you to document the community data series. Ideally, you dould xerox relevant pages from reports cited, recording also the title of the report, the issuing agency, the fiscal year covered, and the date of publication -- in short, a standard footnote reference. You should also maintain a file of correspondence with agencies supplying information. Be assured that you need not forward copies of documentation to John's Hopkins. (We will give full credit to you for the information you supply, so you should make sure that you have documented the data should persons raise questions concerning findings.)

After you have reviewed the attached inventory, it will become apparent that no form can be devised to take account of the idiosyncrasies of participating cities. Since the notion of a standardized form seems inappropriate, we think it best that you simply report data items in the same order as they are listed on the annotated inventory. We would also appreciate if you would cite the title of the report from which you took the information, the agency issuing the report, the page in the report, and the fiscal year covered. In short, please provide data values in the same order as the attached inventory, and include a footnote reference for our records.

When you must construct data for the SMSA as a whole by adding together local data, please cite all local agency reports and data values used. Similarly, when data on individual jurisdictions is called for, please cite each data values and reports used.

After reviewing the attached, it will be apparent that some local impacts, especially tax revenues generated, may require inventiveness on your part and the advice of local or state agency staff. For example, data on tax revenues retained or generated locally may be impossible to determine in cases when the tax is a state tax, and revenues are not returned to the locality on a formula basis: When revenues are collected in the SMSA by the state, mixed with funds from other local jurisdictions and returned through various state-local intergovernmental transfers, it may be difficult to determine locally retained revenues attributable to the examined institutions. It may be necessary to consult local experts on your state's tax policies should per capita or other formulas for state aid and/or the return of particular tax revenues not exist.

Finally, there may be special local taxes of interest which are not dealt with in our model, and which may be applied by all or only some local jurisdictions. As a first step, you would do well to simply identify the major state and local tax sources by examining the Budget reports (of your city and county localities or by contacting knowledgeable persons in your regional planning agency. Similary, you would do well to request reports from the State Treasurer's Office that detail state/local fiscal relations. This discussion may help to make clear why we recommended at the outset that you involve knowledgeable local planners in this project.

The following inventory of community data is a revised version of the draft reviewed during the October Study Coordinator's Workshop. The inventory lists the data item, its notation, model equation in which it appears, page reference in the user manual and suggested sources of information.

Data Items

 Total Local Business Volume (total local retail sales + total local wholesale sales + value added to raw materials by local manufacturers): TBV, B-4.1, p. 43.

Source: Local planning or economic development departments Bureau of Census publications - Retail Trade Area Statistics, Wholesale Trade Area Statistics, and Census of Manufacturers.

Comment: Identify TBV for the SMSA as a whole, except if sales tax rates vary within the SMSA (see #14). A regional planning or economic development department may have aggregated this information for the several units of government within the SMSA, otherwise the information must be gathered for each local unit in the SMSA and aggregated. Census or community data may be old (e.g. 1967) in which case the figure for TBV must be increased to reflect current values. TBV can be updated by assuming an increase equal to the increase in sales tax receipts during the period in question, adjusting for changes in the tax rate. If it is necessary to adjust TBV, contact Doug Smith.

Total assessed valuation of business real property: AV, B-4.1,
 p. 43.

Source: Local tax office.

Comment: Because the SMSA may consist of several taxing jurisdictions, this may complicate your efforts to identify AV. There are two complications. AV may be comprised of separate valuations for business (a) buildings, (b) equipment, and (c) inventory. If differing assessment ratios (ar) are used for (a), (b), or (c) by all or some of the SMSA's taxing jurisdictions, then the assessed valuation for (a), (b), and (c) must be listed separately for each taxing authority in the SMSA. Otherwise, we cannot utilize equation B-4.1 which divides AV by the appropriate ar. See #3 and #13 below.

3. The ratio of assessed valuation to full market value of business property: ar, B-4.1, p. 43.

Source: Local tax office.

Comment: "ar" refers to the percentage of full market value used in determining the assessed valuation of bysiness property. It is conceivable that "ar" might vary by jurisdiction or by type of property, prompting the need for separate AV values for each type of property in each local jurisdiction (c.f. #2 above). When assessed valuation is 100% of full market value, ar is 1. Should "ar" values vary by type of business property or by jurisdiction, then a list should be prepared citing all local jurisdictions that tax business property, the type of property tax, and AV and ar values for each type. This will allow a weighted SMSA value for AV and ar. In addition, see #13 below. You may need, in assembling AV and ar values to also cite business property tax rates by jurisdiction and type of property.

4. Local inventory-to-business volume ratio: ir, B-4.2, p. 45.

Source: Local planning, tax assessment, or economic development agency; or use a national ratio derived from an IRS (Internal Revenue Service) publication, <u>Statistics of Income</u>.

Comment: The local area is the SMSA as a whole. This item is calculated as the ratio of the value of end-of-year inventory to gross sales; it is thus the value of inventory as a percentage of gross business receipts. (Cite the national figure used in the Baltimore Study if local data is not available.)

5. Local time deposit reserve requirement: _t, B-5, p. 46.

Source: State banking regulatory agency; a local savings institution official.

Comment: When subtracted from 1, the item indicates the percentage of deposits in time (savings) accounts that may be used by financial institutions for loans. The value to be used is for the SMSA a's a whole. A complication is introduced because commercial banks and state chartered banks and savings and loans may have differing reserve requirements inasmuch as they are regulated by differing federal or state agencies. This will recuire that t be weighted to reflect the volume of savings with particular types of local savings institutions. Polk Profile of Change may be available at a local bank research department or data may be collected by the appropriate state regulatory agency listing total time deposits (savings) in Banks, Savings and Loans and Credit Unions. The calculation of t should be weighted to reflect the percentage of savings dollars held by federal and state chartered banks, savings and loans and credit unions and the differing state and federal reserve requirements. Contact Doug Smith for details.

 Local Demand deposit reserve requirement (checking institution regulation): d, B-5, p. 46.

Source: State banking regulatory agency; a local checking institution official.

Comment: Same as number 5 above for deposits in checking accounts. Inasmuch as savings and loans and credit unions may not have demand (checking) accounts, the complications identified in #5 above may not arise.

7. Local cash-to-business volume ratio: cbv, B-5, p. 46.

Source: State economic development agency; Bureau of Census, <u>U.S.</u>
Statistics of <u>Income</u>, and IRS (Internal Revenue Service), <u>U.S.</u>
Corporate Tax Returns. (Selected years)

Comment: The ratio reflects cash held in reserve by businesses as a percentage of total business volume. Since this may vary due to economic conditions, an average cbv may be calculated by averaging cbv ratios for two or more years. If a local cbv cannot be calculated, we will use an updated national figure.

8. Local residential property tax rate: pt, G-1.1.1, p. 51

Source: Local tax office or planning department.

Comment: . There is no SMSA property tax rate; rather, there is usually a different rate for the various property taxing jurisdictions within the SMSA (general service governments, school districts, and/or other property taxing units.) Institutional employees may reside in more than one taxing district. If reliable data is available from the staff survey, then there is no need to utilize equation G-1.1.1 to estimate property tax payments by employee homeowners. Consequently, there will be no need to identify "pt", "TRA" or "R". (See #11 and #12). However, if there are low response rates to the staff survey or the question dealing with property tax payments, or if reported values appear unreliable, then it will be necessary to utilize equation G-1.1.1 and develop values for "pt", "TRA", or "R". Study coordinators have been asked to examine employee residence to determine now employees are distributed among local jurisdictions and taxing districts. In particular, it will be important to identify the taxing districts in which homeowning employees reside and the number of homeowning employees in those juris; dictions. This can be accomplished utilizing the staff survey, again assuming adequate response to this question.

9. Total Full-time Employees and Full-time Equivalents: Emps, B-5.

Source: Institutional Data Inventory

10. Percentage of employees owning homes locally: h, G-1.1.1, p. 51.

Source: Staff Survey.

Comment: Examine staff survey response rates to determine if the survey can be used to identify percentage of employees owning homes, and reported property tax payments. Even if there are low response rates, we may be able to estimate homeownership and tax payments. If it proves necessary to use equation G-1.1.1, we hope you will not only report residential AV for each of the taxing jurisdictions in which employees reside, but also identify if AV is calculated other than as a percentage of fair market value, e.g., in terms of replacement or original cost.

11. *Value of local residential housing: ARA, G-1.1.1, p. 51.

Source: Local tax office or planning department.

Comments: See #8 above. If it is necessary to use equation G-1.1.1, then TRA and R (see #12) must be developed for each local jurisdiction in which employees own homes. (Percentage owning homes and jurisdictions of residence can be determined via the staff survey.)

12. Total number of assessed residences: R, G-1.1.1, p. 51.

Source: Local tax office or planning department.

Comment: R must be consistent with TRA (#11). If the value of residential housing (TRA) includes rental or condominium apartments as well as single family homes, then R must include the total number of apartment units and not simply the total number of buildings with apartments.

13. Business property tax rate (Business inventory tax rate): pt, G-1.1.2, p. 53.

Source: Local tax office or planning department.

Comment: The notation "pt" appeared in #8 above. In many cases, residential property tax rates (#8) and business rates (#13) are identical. However, this may not be so or business rates may be different from residential rates in some but not all local jurisdictions. In addition, pt may vary for plant, equipment, and inventory (see #2 above). While we sought to escape assembling data on jurisdictions that tax employee residential property, you will have to assemble data on business property tax rates for all jurisdictions in the SMSA that tax business property. Contact Doug Smith. See #3 above.

14. The percentage of locally generated sales tax revenues retained locally: st, G-1.2, p. 54.

Source: State tax office; local tax office.

Comment: Sales taxes may be imposed by the state, by all or some local jurisdictions, or both. "st" is the percentage of sales tax revenues retained, not the sales tax rate. If a local jurisdiction assesses a sales tax and all revenues are retained, then st = 1. If sales tax rates or percentage revenues retained locally vary by taxing jurisdictions within the SMSA, then it may be necessary to determine a TBV for each of the counties (and the city if it is not covered in county data). In this case, you would list all jurisdictions whose TBV values were aggregated to derive the SMSA-wide TBV and also cite the sales tax rate in each jurisdiction and st, the percentage of revenues retained locally. If there is a variance in the type of sales that are taxed, this should also be noted.

If the sales tax is collected by the state, it may be returned on a formula basis to the localities or become a part of the state's general revenues. If the former, then a separate st should be cited for the state. If the latter, then it will be necessary to consult local experts on your state's tax policies. Contact Doug Smith should sales taxes vary within the SMSA.

15. Sales tax revenues generated locally: STR, G-1.2, p. 54.

Source: State tax office; local tax office (retail sales tax divisions).

Comment: STR may be any combination of the following: state, local, both state and local, and bi-state. For each case, related STR and st values should be listed together by local jurisdiction and state. Where st = 0 this should be noted. Separate local STR values should total the SMSA-wide STR.

16. Total income-tax revenues retained by the local jurisdiction:
TYT, G-1.3, p. 55.

Source: State or local fiscal officer.

Comment: Income taxes may be imposed by the state, by all or some local jurisdictions or both. In addition, a locality may charge a commuter tax on the earnings of non-residents as well as tax the income of residents. Finally, the state may collect income tax and return a portion of it to the local jurisdiction in which the tax payer resides (or, the locality may "piggy back" its tax on the state tax). Similar to #14, if the income tax rate varies -- either "piggy back", percentage returned by the state, commuter versus resident or by local jurisdiction -- then it will be necessary to list each jurisdiction's retained income tax revenues, distinguishing tax revenues paid by commuters for those counties with both commuter and resident income taxes.

Please also list income tax rates for the taxing jurisdictions in which employees reside including "piggyback" taxes, commuter taxes and the state tax if the state is required to return a percentage to each jurisdiction. The percentage revenues retained the local jurisdiction should be noted if less than 100%.

17. Total local households: HH, G-1.3, p. 55.

Source: Local or regional planning department.

Comment: Identify total local households. If there is a commuter tax, then a separate HH will be required indicating the number of local households paying the commuter tax rate.

18. State per pupil educational grant to the local community: SE, G-1.4.1, p. 57.

Source: State education agency; local fiscal officer; local school agency fiscal officer.

Comment: As stated in the model user manual, it is supposed that SE is a grant per pupil and the grant is the same for each local jurisdiction. This may not be correct and the grant may vary, in which case SE should be cited for each school district in the SMSA. Or, it may be possible to construct an SE value for each school district by dividing state aid for regular programs (as opposed to special education) by total enrollment in each school district.

19. Other state revenues attributable to the institution and its employee households (provided solely on a per capita basis): OR, G-1.4, p. 56.

Source: State fiscal agency; state planning department; local fiscal officer.

Comment: If OR is treated like SE - per capita aid to educate the public school children in employee households -- this requires that individuals in employee households eligible for aid be identified. But OR may refer to per capita id not directed at persons with special needs but rather jurisdictions as a whole. For example, state revenue sharing may be provided on a per capita basis or per capita aid provided for roads or other services used by the entire local population. If aid is forthcoming on other than a per capita basis, it may be possible to construct OR by listing state aid to services in the SMSA that can be utilized by all residents, then dividing by the local population. Again, this may have to be done separately by county.

20. Local operating budget excluding public school costs and non-locally generated revenues: B, G-2.1, p. 59.

Source: State local government agency report on local government finances; local fiscal officer.

Comment: The local area is the entire SMSA. There will be a B value for each local jurisdiction within the SMSA where institutional employee households reside. You will have to assemble total operating budgets for all jurisdictions in the SMSA for which you will have information from the employee survey. If there are scores of incorporated municipalities, you should strive for all major jurisdictions in which staff reside (contact Doug Smith). Exclude from all local operating budgets the cost of public schools as well as all non-local revenues. Do not include non-recurring costs. Non-local revenues include federal and state aid.

21. Total local population: POP, G-2.1, p. 59.

Source: State planning department; local or regional planning department.

Comments: This should be provided for each of the jurisdictions included in #20, with each jurisdiction's POP listed separately.

22. Local public school operating budget, excluding revenues from non-local sources: SB, G-2.2, p. 61.

Source: Local school agency fiscal officer.

Comment: The comments to #20 above apply here as well. Cite budgets for all school districts in which employees have enrolled children. Exclude revenues from non-local sources.

23. Number of children in employee households attending public schools: C, G-2.2.

Source: Staff Survey

24. Total number of persons in staff households: EHH, G-2.1.

Source: Staff Survey

25. Total enrollment in local public primary and secondary schools: TC, G-2.2, p. 61.

Source: State education department; local school agency.

Comment: Data should be provided for each school district in which employees have enrolled children.

26. Value of all non-school local governmental property: GPm, G-3, p. 62.

Source: State tax (assessment) office; local tax (assessment) office.

Comment: The values for these items may be in costs today of replacing governmental property or the original cost of these facilities expressed in current dollars. Cite convention used in lieu of fair market value by local assessors.

27. Value of all school-related governmental property #2: GPs

Source: State tax (assessment) office; local tax (assessment) office.

Comment: The value for these items may be in costs today of replacing governmental property or the original cost of these facilities expressed in current dollars. <u>Cita convention used in lieu of fair market value by local assessors</u>.

28. Assessed value of institutional tax-exempt property: AV, G-4, p. 63.

Source: State or local tax (assessment) office.

Comment: An assessed value must be identified for all institution owned or rented tax exempt property. Cite the jurisdiction assessing the property and the method utilized if other than fair market value e.g., replacement cost or original cost in current dollars. The jurisdiction's assessment ratios and business property tax rates should also be noted here if not already cited in providing values for #3 and #13. If a property is owned by the local jurisdiction -- e.g. municipal museum -- please note this.

BEST COPY AVAILABLE

APPENDIX E

Sample Calendar Instructions

CENTER FOR METROPOLITAN PLANNING AND RESEARCH BALTIMORE, MARYLAND 21218

T0:

FROM: Doug Smith

RE: Sample Frame Documentation

DATE: July 3, 1979

Enclosed you will find "calendars" from each of the institutions participating in your audience study. Each calendar has been filled in with the local* performance/exhibition information for all events that took place at that institution during the sampling period. Also, each day that sampling occurred has been marked.

For the purposes of documentation, the sampling period is defined as the time span that includes the opening night (day) of the production/exhibit that precedes the first event sampled thru the closing night (day) that follows the last event sampled.

We would like you to verify this information. In addition, we would like you to make additions/deletions of performances/exhibitions in those instances where we do not currently know of schedule changes or whether other performances/exhibitions were held. Unless this is done, we will not be able to make any final decision as to the representativeness of the sample. We need your prompt attention to this matter, so that we can return your audience studies to you. The managers of the various institutions should be able to assist you in this matter.

Even for the events that were not sampled (but did occur during the sampling period), it is imperative that we know the total attendance for these events. Please write this information in the appropriate "dayblock," with the name and type of performance. An example is given on page two.

In cases where only a handful of performances are given over the entire season, they should all be listed. This may require a separate sheet attached to the calendar.

* Local, as usual, means in SMSA

TO: FROM: Doug Smith

Example: The Repertory Theatre (XX)

•	* :						
September	1	, .		·	e e	1	2
3	4	5	6		7Hamlet 7:30 pm	8 pm TA 100 ST 14 UA 19 C.G 575	9 2 pm > 8 pm >
2 pm, 8 pm	11	12 Hamlet 8 pm	13	8 pm 18 100 27 17 6 6153	14 	15 8 pm	16 2 pm
17	18	19	20		21	22	23
		• • • • • • • • • • • • • • • • • • • •	 	•		:1	

Key: TA = total attendance

SI"= sampling interval used

NR = number of guestionnaires returned

RR = response rate (raw)

TO:

FROM: Doug Smith

In the example, we see that "Hamlet" opens on the 7th -- the start of the sampling period. The first event sampled is the 8th. The last event sampled is the 13th and the closing night is the 17th. You would verify that these dates and times are correct, add or delete performances as necessary, and fill in the total attendance figures for the 7th, for both shows on the 9th and 10th, for the 12th, 14th, and 15th, and both shows on the 16th and 17th.

It should be noted that we have provided calendars for six (6) months. Only the months that cover the applicable sample period need be filled in.

When you return the calendars to us, please include any performance calendars that the institutions distribute. If you have any questions, please feel free to call.

Thank you.

cc: David Cwi.

Attachments

BEST COPY AVAILABLE

APPENDIX F

Documentation Protocol



CENTER FOR METROPOLITAN PLANNING AND RESEARCH
BALTIMORE, MARYLAND 21218

Documenting Data Collection Efforts

The six city project has involved a number of data collection tasks. Except for the community data inventory, all efforts have focused on individual institutions -- their audiences, financial and operating characteristics, and staff households. As part of an overall evaluation of data quality, we are seeking to document various aspects of data collection and data handling.

Much of the information needed has already been provided, e.g., the Survey Event Report Forms. The aspects of data collection that particularly concern us now involve the organization, management and execution of tasks. We are especially concerned with the identification of the practices that were adopted for most of the studied institutions and circumstances that led to different practices on the part of individual institutions. This information can help us to identify the extent to which differences or similarities might be due to the data collection procedures as well as identify potential impacts on data quality.

If you are aware or suspect for any reason that data quality varies by institution -- e.g., some institutions did not seriously attempt to identify local expenditures -- please identify the institutions and the reason for your suspicion.

Please read over the attached documentation issues and contact Doug Smith if you have any questions. We hope that this last task is not too burdensome and that it can be completed within the next two weeks.

1) Audience Survey

- (a) Completed and "cleaned" SERF's
- (b) Distribution and Collection:
 - -- Was the same person responsible for supervising the distribution and collection of questionnaires at every institution, or did this vary by institution? Was the same person responsible within individual institutions? How was this person trained?
 - -- Did the same group of people distribute and collect at each institution? Who were these people? Ushers? Other volunteers? Arts. Agency staff? How were they trained?
 - -- What constraints were imposed, either by the institution-type or the management? (Be sure to discuss problems such as underestimated attendance or large numbers of ineligible respondents.)
 - -- Did the study coordinator participate in the physical handout/collection process? If so, what portions, and to what degree? (Be sure to fully describe the relationship between the study coordinator and surveying personnel.)
 - -- What is the study coordinator's opinion of the survey procedures? Did the process vary by institution? (e.g., questionnaires distributed in programs instead of separately, announcement from the stage at some places and not at others) Were staff trained prior to distributing and collecting questionnaires?
 - -- Essentially, how was the process organized and monitored and what improvements could be made?

(c) ∨Editing:

- -- Was the same person responsible for supervising the editing of destionnaires at every institution, or did this vary by institution? Was the same person responsible within individual institutions?
- -- Did the same group of people edit the questionnaires.
 for each institution? Who were these people? Yolunteers?
 Institutional staff? Arts Agency staff?
- -- How were the editors trained? By whom?

- -- Did they have any difficulty understanding the editing protocols provided by the Netro Center?
 What improvements, if any, could be made on these protocols?
- -- How much time, on average, did it take to edit one questionnaire?
- (d) Complete documentation of sampling frames. You will receive a calendar for each institution. It will show all the events in the sampling period, of which we are aware, and indicate those sampled. In many cases, this information will be complete, and you need only verify it. In other cases, it will be necessary to fill in performances that are not listed. Specific instructions will accompany the calendars:
- (e) Was the keypunching verified?

2) Staff Survey

- (a) Distribution and Collection:
 - -- Who handed out and collected surveys?
 - -- What is the study coordinator's opinion of the quality of the survey procedures and on what facts is this opinion based?
 - -- What constraints were imposed, either by the institution-type or the management?
 - -- Did the study coordinator participate in the physical handout/collection/edit process? If so, what portions, and to what degree?
 - -- Essentially, how was the process organized and monitored and what improvements could be made?

(b) Editing:

- -- Who edited the surveys?
- -- How were they trained?
- -- How much time did they spend?

3) E.I.S. Data Inventory

- -- Did one person meet with all institutions, or did several persons each meet with several institutions?
- -- Mere the inventories completed by someone at the institution or were they completed jointly with the study coordinator or someone designated by him/her.
- -- Who supplied the information?
- -- Were the same procedures used for each institution?
- -- What constraints were imposed on this process (if any)?
- -- What is the study coordinator's opinion of data quality? (Cite the reason for your judgment.) Please review problems in gathering data.
- 4) Annotation of Auditor's Report on Budget Summary:
 - -- Did one person meet with all institutions, or did several persons each meet with several institutions?
 - -- Who supplied the information?
 - -- Was it the person most familiar with accounts payable?
 - -- How much time did they spend?
 - -- What is the study coordinator's opinion of the quality of the data? (Cite the reason for your judgment.)
 - -- Was the same procedure applied to every institution?
 - -- What constraints were imposed on this process (if any)?
 - -- Was the person who provided the data asked to name local suppliers, or was their estimate simply accepted without challenge?

--.Did the study coordinator personally participate in the review of each item or was he only able to request information which was supplied at a later date?

5) Community Data Inventory:

- (a) If completed properly, the Community Data Inventory should include an appendix—of sources, references and comments about the data. Please review problems in gathering data, special tabulations that might have been required, etc.
- 6) Adjustment for Touring out-of-SMSA:
 - tendance figures. However, we need an estimate of the total attendance at performances/exhibitfons in the SMSA, for each institution, including touring activities within the metropolitan area. Please forward this data as soon as possible, distinguishing main facility from other sites. It should be noted that all touring out of the SMSA would be excluded, as would performances given in schools. It would include attendance at the institution's main facility as well as attendance for tours in the SMSA.