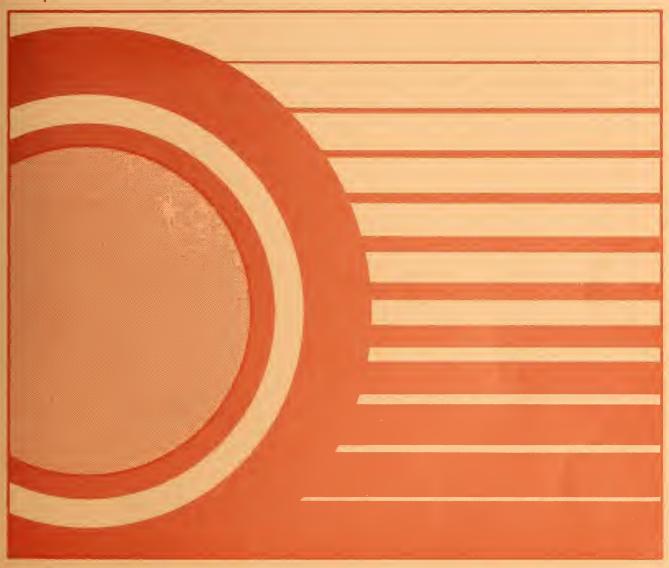
Improving Transportation Services for Older Americans

Volume 2: Technical Report September 1980



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NOTE

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The original version of this study contained recommendations for program development targeted at Federal managers. That material has been edited from this printing of the study, as have a few discussions of issues which have been resolved since the original submission of the report.

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Improving Transportation Services for Oider Americans

Volume 2: Technical Report September 1980

Prepared by:

The Institute of Public Administration in Association with Ecosometrics, Incorporated

Sponsored by:

U.S. Department of Health and Human Services
Office of Human Development Services
Administration on Aging

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PREFACE

This report is the result of the effort of a great many people. First and foremost are the staffs of the 60 transportation providers and the 20 projects interviewed in the field. They gave willingly of their time, and without their support there would be no study. Their support went beyond the survey, and for myself and all the project staff I would like to say thank you and express our appreciation for the many courtesies extended to us.

Mr. Nolan Danchik of the Center for Transportation Studies provided valuable assistance on sampling providers. As for the staff from the Institute and Ecosometrics, their support and hard work in bringing together the material from the survey, conducting the field and telephone interviews, coding and analyzing data, and writing, typing and editing manuscript reflected the high level of professionalism that they always bring to their work. They deserve to be individually recognized. The key field staff were:

Rita Bamberger
Jon Burkhardt
Gertrude Entenmann
Teresa Franks
Sue Knapp
Ellen McPherson
Jeff Riese
Peter Schauer
Chris Tate
Hannah Worthington
Mark Wozny

A particular note of thanks must be expressed to a number of people who made special contributions. Gertrude Entenmann who, as administrative officer, provided logistic support and comfort to the entire team through the field trips and the immense volume of typing and analysis. A similar note of appreciation must be expressed to Chris Tate and Teresa Franks: they worked hard and long on tabulations, and their many, many comments and suggestions substantially reduced the problems encountered with the data and contributed to the final results.

Two people must be singled out: Rita Bamberger as Deputy Project Director and Mark Wozny as the primary analyst on the project. They were both involved with the study through all its phases. They contributed in the field, on the analysis, and had major responsibility for the preparation of the Technical Report as well as the General Report. The report is the product of their considerable and unstinting effort.

To all who have contributed I would like to express my personal debt of gratitude and refer whatever merit the report may have to their credit.

Joseph 5. Revis
Project Director

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I. THE STUDY APPROACH

Specialized transportation systems, designed to meet the diverse needs of the elderly and other groups, are operating in communities throughout the country. Although these systems have proliferated in recent years, no comprehensive study has yet been undertaken to identify and explore the problems being encountered by these systems. In reaction to the need for this type of information, the Institute of Public Administration, in association with Ecosometrics, Incorporated, conducted a study of the problems encountered by transportation providers serving the elderly and their relationships with the funding Area Agencies.

A. Study Objectives

The study was to be conducted with five specific objectives in mind:

- identification of the major problems encountered by the transportation providers (including possible causes);
- 2. identification of any solutions applied by the transportation providers to overcome problems encountered;
- 3. differentiation between problems encountered and solutions developed by providers according to provider characteristics (degree of urbanization, type of provider, type of service being provided, and size of the provider);
- 4. identification of possible solutions to problems that merit further testing and demonstration; and
- 5. development of recommendations for federal, state, and local actors aimed at alleviating or avoiding the problems of local service providers.

In achieving these five objectives, the study drew on the available literature, prior experience of the study team, a telephone survey of transportation providers, and on-site and in-depth interviews with providers and Area Agencies. Although the literature review and team experience contributed significantly to the study outcome, it was the telephone and on-site surveys that provided the most data and insight into provider and Area Agency problems. Much of the study team's time and effort was expended in designing the survey instruments to be used for both surveys.

B. Transportation Issues

As might be expected, transportation providers confront a variety of issues and problems some of which are typically encountered as a part of daily operations and some of which are unique to a particular set of circumstances. For example, cash flow problems seem to be quite common among providers, while the energy crisis affects some transportation systems more severely than it does others. In designing the survey, it was essential to cover all major problem areas, and it was here that experience helped narrow down the areas of interest.

Our approach called for the development of two survey instruments: one for telephone interviews and one for field interviews. A two-stage integrated survey structure was used with the telephone survey serving to identify the coverage and scope of the on-site interviews. Using the literature and prior experience as the jumping off point, the first stage survey instrument for the telephone interviews was built around twenty issues ranging from insurance problems to community perceptions of the project and the transportation problems of older people. These areas included the following major issues:

- Insurance -- how to obtain sufficient coverage at reasonable rates;
- Transportation coordination;
- Labor protection under Section 13(c);
- 4. Impact of:
 - a. Section 16(b)(2) of the Urban Mass Transportation Act of 1964, as amended;
 - b. Section 504 of the Rehabilitation Act of 1973;
- 5. Section 18 of the 1978 Surface Transportation Assistance Act:

- 6. Project Continuity as affected by:
 - a. Adequate budgets
 - b. Cash flow problems
 - c. "Multiple Jeopardy", e.g., when a coordinated transportaservice is threatened by the loss of funds from one provider
- 7. Obtaining qualified personnel
- 8. Operating problems
- 9. Management problems
- 10. Community perceptions of transportation services by:
 - a. System's users
 - b. Local government agencies
 - c. General public
- Information Management and Accountability -- especially important in this regard is a uniform system of transportation accounts and records
- 12. Training and personnel management
- 13. Vehicle availability and adequacy
- 14. Regulatory and franchise problems
- 15. Utilization of volunteers
- 16. Energy problems
- 17. Linkages to conventional mass transit:
 - a. Utilization of Section 5 monies
 - b. Effect of Metropolitan Planning Organizations and other planning agencies upon specialized transportation providers
- 18. Maintenance of effort requirements
- 19. Effect of categorical grant procedures versus direct entitlements
- 20. Relationship with the Area Agencies on Aging, especially funding sponsorship relationships.

These twenty areas were translated into broader categories around which survey questions and format were designed. These broad areas were used for the telephone survey design, and Table TR-1 summarizes the major areas covered by the telephone survey instrument. A copy of the complete instrument is available in Annex 1A.

Using the outputs from the telephone survey as a further guide to problem areas (interviewed providers were left the option of adding any comments and issues they felt were relevant or not adequately covered), the field survey instrument was designed to explore in greater depth any issues that appeared to be not adquately covered or not covered at all in the telephone survey. The field survey was also used as a means for direct contact with Area Agencies on Aging that had funded the transportation provider. As will be seen in the discussion later, no startling, new issues or gaps emerged out of the telephone survey.

Because two agencies were interviewed in the field (the provider and the Area Agency on Aging), separate survey instruments were developed for each, and, as may be seen in Table TR-2, the coverage for the transportation provider was quite similar to that of the telephone interview. Questions for the Area Agency on Aging were fewer and more focussed on their linkages with the provider.

The field and the telephone survey became the basic sources of information, and detailed discussion of the findings and outputs may be found in the <u>General Report</u> (Volume I). This Technical Report (Volume II) contains description of the results of the survey, the output tables developed from the telephone survey, and a more detailed description of the procedure used to develop a representative structure for the telephone and field interviews.

Table TR-1

TELEPHONE SURVEY OF TRANSPORTATION PROVIDERS Survey Instrument Coverage

1. Background Data

- Clients
- Staffing
- Volunteers

2. Funding

- Sources/Amounts
- Adequacy/Problems

3. Service Characteristics

- Eligibility
- Operating Characteristics
- Scheduling and Dispatching
- Vehicle Characteristics

4. Cost Information

- Operating
- Insurance

5. Monitoring & Evaluation

- Requirements
- Use

6. Labor/Regulatory & Coordination

- Problems
- Coordination Practices

7. Marketing & Outreach

Scope

8. Other Issues

- Energy
- Accessibility and 504
- Links with Area Agencies

Table TR-2

FIELD SURVEY OF TRANSPORTATION PROVIDERS & AREA AGENCIES

Survey Instrument Coverage

Areas	Covered	bу	Survey	Instrument	Questions
-------	---------	----	--------	------------	-----------

Transportation Provider

Area Agency on Aging

A. Questions

- 1. Site Profile
- 2. Transportation Service Profile
 - Organization
 - Historical background
 - Funding
- 3. Budgeting
- 4. Operations
- 5. Coordination
- 6. Training & Technical Assistance
 - Training
 - Technical Assistance
- 7. Staffing Qualifications and Responsibilities
- 8. Maintenance and Fleet
 - Fleet characteristics
 - Maintenance
- 9. Management & Administration
- 10. Monitoring & Evaluation
- 11. Insurance & Marketing
 - Insurance
 - Marketing
- 12. General Comments (open-ended)

B. <u>Data Inventory</u>

- 1. Traffic
- 2. Funding
- 3. Insurance
- 4. Reporting

A. Questions

- 1. Agency age
- 2. How long funding transport?
- 3. How needs are assessed?
- 4. Unmet needs
- 5. Service impact of shift from Title VII
- 6. Contracts with provider
- 7. Reporting requirements
- 8. Contact with State
- 9. Technical Assistance
 - Role
 - Needs
- 10. Coordination
- 11. General (open-ended)

B. Data Inventory

- 1. Elderly served by AAA transport funding
- 2. Budget for transport
 - Scope
 - Sources
 - Match problems
- 3. Budget restrictions
- 4. Management functions

II. THE SURVEY METHODOLOGY

In the context of the previously enumerated objectives, the sampling methodology was designed to cover as wide a range of transportation providers being funded under Title III of the Older Americans Act as the grant budget and schedule would permit. To this end, a two-staged stratified random telephone sample was developed with stratification based upon level of urbanization and regionalization. This sample was designed as a telephone survey, and two stages were needed as a means of identifying the number and names of the transportation providers being funded by the PSAs. The specific steps involved, summarized in Table TR-3, are Tasks 1.0 through 3.0.

As may be seen in the table, an initial list of PSAs was drawn up, stratified, and a sample of 102 Area Agencies (PSAs) drawn. These 102 Area Agencies were then contacted for the names and other data of the transportation providers (TPs) they were funding under Title III (Title IV having been shifted into Title III). Preliminary contact (by telephone) was also made with the TPs so identified. From the 102 Area Agency sample, 556 transportation providers were identified as funded in 1979 and 1980, and after adjustment, a final sample of 60 TPs was drawn as the basis for the telephone survey.

From the telephone survey of the 60 providers, twenty were selected for more intensive field interviews (based on their size, rural and urban characteristics, availability of detailed information, and the extent to which their problems were representative of those encountered by others). Although not specifically required by the grant, interviews were also scheduled with the Area Agencies funding the providers selected for field interviews (Task 4.0 in Table TR-3).

Table TR-3 SURVEY OF TRANSPORTATION PROVIDERS AND AREA AGENCIES

Survey Work Tasks

Task No.	Task Description
1.0	Develop and Implement Stage I Stratified Random Sample of Planning and Service Areas (PSAs)
1.1	Select PSA stratification strategy
1.2	Stratify PSA population (590 PSAs out of 644)
1.3	Select a sample of PSAs for survey (102 PSAs)
1.4	Survey PSA sample for identification of transportation providers funded
2.0	Develop and Implement Stage II Stratified Random Sample of Transportation Providers (TPs)
2.1	Preliminary telephone contact with TPs
2.2	Stratify TPs by urbanization and region (332)
2.3	Select a stratified sample of TPs (60)
2.4	Verify sample for consistency
3.0	Conduct Telephone Survey of TPs
3.1	Design survey instrument for telephone interview
3.2	Pretest survey instrument
3.3	Conduct survey
3.4	Record and tabulate results
4.0	Develop and Implement Field Interview Survey of Selected Transportation Providers and Area Agencies
4.1	Select twenty TPs for field interviews
4.2	Conduct field interviews
4.3	Prepare written synopsis of field interviews
<u>5.0</u>	Analyze Telephone Surveys of TPs and Field Surveys of TPs and Area Agencies
6.0	Prepare Final Report

A. Summary

As noted previously, from the telephone and field interviews emerged the basic findings and conclusions presented in the General Report. Before moving into a more detailed procedural discussion and to provide a general perspective of the survey, a summary of the key steps follows:

- 1. From a list of 644 Planning Service Areas (PSAs), a number of PSAs were eliminated because they did not appear to be representative of the broad range of experience (i.e. they reflected rather special cases). This included the American Territories, the Indian Reservations, Hawaii and Alaska, and the seven single state PSAs. These areas had problems of their own but given the scope of the project's budget and time available to complete the work, it was felt that these PSAs would be too unique. As a result of these adjustments, the base for sampling was reduced to 590 Planning and Service Areas.
- 2. The base of 590 PSAs was then stratified into four levels of urbanization defined as follows: (1) Metropolitan areas with PSA populations of 2 million persons or more; (2) Urban areas with PSA populations of less than 2 million persons and 70 percent of the PSA being part of a Standard Metropolitan Statistical Area (SMSA); (3) Urban/Rural areas where at least some, but less than 70 percent of the PSA area, fell into a SMSA; and (4) Rural areas in which no portion of a PSA was part of an SMSA. This stratification dimension was also combined with a matrix of the ten federal regions in which the Planning and Service Areas were located, and the sampling procedure for the next stage was drawn from this matrix of urbanization and federal regions.
- 3. From this list of regional and urbanized PSA stratification, a random sample of 102 PSAs (Area Agencies on Aging) were drawn representing a sampling incidence of approximately 17 percent. The names, addresses, and telephone numbers of each of the Area Agencies on Aging were collected and a preliminary telephone contact was made in order to obtain information about the characteristics of the transportation providers with whom the Area Agencies contracted for service. From this contact with the 102 AAAs, 556 transportation providers were identified as being funded in 1979 and 1980 out of AAA funds under Title III.

- 4. The list of 556 transportation providers was adjusted to take into account the fact that the large number of providers reported by several large metropolitan areas (New York and Chicago) could not be verified as being providers, and also to adjust for the PSAs with no reported Area Agencies. The list of 556 providers was adjusted to 332, and from the adjusted list, a second stage sample of 60 providers was drawn. These 60 providers became the base for an intensive telephone survey for which a special survey instrument was designed (see Annex 1A).—
- 5. Comprehensive phone interviews were completed with each of the 60 providers, and the results coded and programmed into a computer. The output from the interview became the basis for much of the findings and description that follows, and a full set of descriptive t ables may be found in Annex 3.
- 6. Based on a review of the findings from the comprehensive telephone survey of the 60 providers, a number of problem areas were identified for which supplementary information was needed or for which the telephone interviews had been unable to provide answers. Two supplementary survey instruments were developed to be used for field interviews: one for providers and one for the AAA funding the provider. A final group of 20 transportation projects and the relevant AAAs were selected for on-site field interviews. The results of these interviews were tabulated and used to supplement the telephone survey findings.

Although this final sample was not random, the projects were selected with the objective of representing a range of provider characteristics that were revealed over the course of the comprehensive telephone interviews.

Estimates indicate that the 60 providers represent somewhere between 1.5 - 2.0 percent of the total provider population estimated to be between 2800 to 3200 at a 95 percent confidence limit.

B. Stage One Sample: 102 Planning Service Areas

The first stage: requirement was drawing a sample of about twenty percent of the 644 Planning Service Areas (PSAs) listed for the United States and its Territories. In order to evaluate the status of transportation for the elderly under the Older Americans Act on a nation-wide basis, it was important to base the study upon an unbiased sample of providers from all areas of the United States. The drawing of an unbiased sample requires that providers be drawn on a random basis.

In addition to randomness, two other aspects were considered important in explaining differences among projects: the urban level of the PSA and its geographic location (reflecting climate and terrain differences). $\frac{1}{2}$

These dimensions were employed to stratify the sample populations because they appeared to be most sensitive to operational problems, and/operational differences did exist due to organization or regional differences, then the sampling procedure must allow for the explication of these differences through the use of stratifications.

The initial list of Planning Service Areas was drawn from The Emerging Network and data on The Elderly Population. A list of 644 PSAs were identified covering the United States and its Territories. Given the budget and schedule limits of the grant, adjustments were made for single State PSAs, the State of Hawaii, Alaska, Indian Reservations, and the U.S. Territories. The Territories, Hawaii, and Alaska were dropped become of costly travel requirements (and all of the selected PSA transportation providers had to be

Other factors such as budget size, type of AAA and/or PSA organization, number of trips, etc., were considered but dropped due to lack of data, irrelevance to provider characteristics, or lack of budget to include as a strata.

^{2/} Select Committee of Aging, House of Representatives, (95th Congress, 2nd Session), The Emerging Aging Network, Department of Health, Education and Welfare. The Elderly Population: Estimates by County, 1977.

eligible candidates for filed interviews); the single State PSAs and the Indian Reservations because they were, or might not be, representative. As a result of these adjustments, the base for the initial sample was reduced to 590 PSAs.

Stratification

The sample base of 590 PSAs were stratified into four levels of urbanization:

- I <u>Metropolitan</u> -- where the PSA had a population of two million or more persons
- II <u>Urban</u> -- where the PSA had a population of less two million persons and 70 percent of the PSA was part of a SMSA
- III <u>Urban/Rural</u> -- where at least some, but less than 70 percent, of the PSA falls into a SMSA
- IV <u>Rural</u> -- where none of the PSA was included in a SMSA

After the PSAs were sorted into four levels of urbanization, the four groups were compared on the basis of (1) the percent of the total PSAs falling into each urban level, and (2) the percent of the total elderly population (65 or over) falling into each of the urban levels. These two percentages were then averaged as a basis of determining the size of the four sample groups for our study, and the mean percentage is shown in Table TR-4.

Table TR-4
TRANSPORTATION PROVIDER SURVEY & PSA POPULATION
Sampling Incidence

Variable		Urbanization Level						
		Metropolitan (I)	Urban (II)	Urban/Rural (III)	Rural (IV)			
	1. Percent of All PSAs	1.7	25.7	28.1	44.4			
	2. Percent of Elderly (65+)	12.5	37.8	30.4	19.2			
	3. Weighted Mean Percent	7	32	29	32			

The percentages in Table 4 show that the population share of the elderly in metropolitan and urban areas was substantially out of proportion to the number of PSAs in these areas (i.e., the metropolitan areas had 1.7 percent of the PSAs but 12.5 percent of the elderly population). The original intent was to base the incidence of sampling within each urban level on the percentage share of PSAs in that level compared to the total number of PSAs in the base population. However, given the imbalances shown by lines 1 and 2 in Table TR-4, the PSA and elderly population distributions were averaged, and the weighted mean (Line 3, Table TR-4) was used as the adjusted sampling incidence for each urbanization level.

Applying these percentages to the population of 590 PSAs (and given a sample size of 100 PSAs) would yield a distribution of PSAs by urban level comparable to the percentage distribution shown for Line 3 of Table TR-4. There were, however, several other adjustments that had to be made before the final sample size was specified.

To begin with, there were only nine PSAs identified in metropolitan areas. Because of the small number, it was decided to include all nine of the PSAs in the metropolitan areas in order to assure that important provider characteristics were not missed. However, later telephone conversations with each of the PSAs in the metropolitan areas indicated that one of the PSAs was not funding any transportation and, on this basis, it was dropped leaving, thereby, eight PSAs from the metropolitan areas. All were included in the sample.

As noted earlier, a second dimension used for stratification was the federal regional office location of the state in which the Planning Service Area was located. Following the initial stratification by urbanization level, the PSAs were then arrayed by federal regional office, and the 590 PSAs thus arrayed served as the basis for the first-stage sample that was eventually drawn. The federal regional office stratification assured consideration of differences in geography, and the stratified PSA distributions by federal

regional office and urbanization is summarized in Table TR-5 for both the base and the sample population of PSAs.

Since each PSA has a corresponding Area Agency, the sampling procedure consisted of drawing a random number to determine the starting sample point and then drawing the remaining number of cases of equal intervals over the entire urbanization stratum. Once the sample was drawn, each PSA was checked against The Emerging Aging Network to eliminate any PSAs without an Area Agency on Aging. Those PSAs lacking AAAs were eliminated, and a PSA with an AAA from the same state (matched for population and urbanization) was substituted.

After the PSA sample was selected, the names, addresses, and phone numbers of each of the Area Agencies on Aging under the PSA was identified and a preliminary telephone contact made in order to obtain basic information about the transportation providers funded by the AAAs or with whom the Area Agencies contracted for transportation services. This initial telephone contact addressed funding levels, source of funds, number of vehicles, levels of unduplicated passengers, and types of service offered. However, the primary purpose of the initial contact with the AAAs was to specifically identify and enumerate the transportation providers. A total of 556 transportation providers were identified from the 102 AAAs.

C. Stage Two Sample: Sixty Transportation Providers

Thus, as a result of the initial telephone contact with the 102 Area Agencies, 556 transportation providers were identified as being funded in 1979 and 1980 out of their funds for Title III under the Older Americans Act. This list of 556 providers had to be adjusted (for the next sample stage) in order to take into account the fact that a large number of the providers reported by several large metropolitan areas (New York and Chicago specifically) could not be verified as actual providers. As a result of this difficulty, a further adjustment was made, and the final list of providers reduced to 332. It was from this adjusted list of 332 transportation providers that the second stage sample was drawn.

Table TR-5
DISTRIBUTION OF SAMPLE BASE OF 590 PSAS
BY URBANIZATION AND FEDERAL REGION

							·						
		Total	8	16	15	15	18	6	9 .	4	9	5	102
	As)	IV	3	5	5	9	2	2	3	2	1	3	32
	e (102 PSAs)	III	2	0	3	9	6	5	2	1		0	29
VEL	Sample	II	3	10	7	3	2	1	1	, —(.	က	2	32
ONLE		Ι	0	1	0	0	5	1	0	0	1	0	8
IZATI		Total	37	78	93	103	92	62	77	32	30	35	290
URBAN	Sample Base (590 PSAs)	ΛΙ	15	33	42	51	17	23	24	23	10	25	263
		III	12	0	14	37	97	30	16	3	5	3	166
		II	10	77	37	15	7	æ	7	9	14	7	152
	Total	I	0	1	0	0	9	1	0	0	1	0	6
	Federal	Region	I	II	III	IV	Λ	IV	VII	VIII	IX	X	Totals

Table TR-6 shows the distribution of the 332 providers by urbanization level. As may be seen, the percentage distribution of the providers follows, relatively closely, the percentage distribution shown for the weighted mean in Table 4 (the differences reflect all the adjustments previously described), indicating that even with the adjustments, the sampling incidence described for Table TR-4 was maintained.

Table TR-6

TRANSPORTATION PROVIDER SURVEY POPULATION
DISTRIBUTION BY URBANIZATION LEVEL

Variable in		URB	ANIZAT	ION L	EVEL
variable in	I	II	III	IV	Total
Number of Projects Present Distribution	17 5.1	98 29.5	125 37.7	92 27.7	332 100.0

The second stage sample required drawing a sample from the 332 transportation providers identified as a result of the first stage. The sample providers drawn from this list of providers would then be subjected to an extensive telephone interview using a survey instrument specially designed for this purpose. A copy of this telephone survey instrument is attached as Annex A. The instrument was designed as a one-hour interview mechanism covering the areas already shown in Table TR-1. The most critical question was the size of the sample itself. Given the budget and schedule constraints of the project, a sample of sixty transportation providers was selected from the list of 332 providers.

The 332 transportation providers were again stratified by urbanization level and federal regional office location and a stratified random sample drawn from each urbanization stratum. Three rules were followed in drawing the sample:

- 1. Sample at least one transportation provider from each metropolitan PSA.
- Sample at least one transportation providers from every cell in the urbanization-regional matrix to the extent there was a funded provider identified in each cell.
- 3. Since some PSAs funded more than one provider, only one provider would be sampled from any PSA.

The result of applying these three rules to the sampling procedure was to require exhaustive sampling of the metropolitan PSAs and the urbanization-regional matrix and sampling without replacement for the non-metropolitan PSAs.

For the actual sampling procedure, a random number was drawn to determine an initial sampling point, and a sample interval employed that selected providers evenly throughout the urbanization level. Once a transportation project was selected, the PSA in which it resided was removed from the sample universe. The final distribution of sites selected for telephone interviews is shown in Table TR-7. A list of the specific sites is also provided in Annex 2.

Each of the sixty transportation providers was interviewed using the survey instrument designed for that purpose, and the results were coded and programmed for computer tabulation. The computer outputs were then summarized into a series of tables that became the core of information on which most of the conclusions and findings of the study were based. These tables have been included in the Technical Report and are included as Annex 3. Interpretation of these tables must, of course, be made in the context of the sampling error described in the section that follows. However, even given the relatively small size of the provider survey, the findings appear consistent with other research and provides an important base of information on provider behavior, operating patterns and problems.

Table TR-7

SURVEY OF TRANSPORTATION PROVIDERS
DISTRIBUTION OF TELEPHONE SURVEY SITES
BY URBANIZATION AND FEDERAL REGION

Federal Regional	URBANIZATION LEVEL								
Office Location	I	II	III	IV	Total				
I	0	1	1	1	3				
II	3	3	0	1	7				
III	0	1	1	3	5				
IV	0	3	3	4	10				
V	8	1	6	1	16				
VI	1	1	3	1	6				
VII	0	1	0	1	2				
VIII	0	1	1	1	3				
IX	1	2	2	0	5				
X	0	1	1	1	3				
TOTAL	13	15	18	14	60				

D. The Field Interviews: Twenty Transportation Providers

Based on a review of the findings from the comprehensive telephone survey of the sixty providers, a number of problem areas were identified for which supplementary information was needed or for which the telephone interviews had been unable to provide answers. Two supplementary survey instruments were developed to be used for field interviews: one for providers and one for the AAA funding the provider. A final group of twenty transportation projects and the relevant AAAs were selected for on-site field interviews, and the results of these interviews were tabulated and used to supplement the telephone survey findings.

Although the final list of providers selected for interview was not random, the projects were selected with the objective of representing a range of provider characteristics that were revealed over the course of the comprehensive telephone interviews. The twenty providers were selected with an eye toward determining whether providers share similar problems under varying conditions and to preserve any geographic variations that might affect operations. We were also concerned that urbanization level differences be included, and the field interviews were also expanded to include interviews with the Area Agency on Aging funding each of the providers. A list of the sites at which interviews were conducted is provided in Annex 2.

The field responses were only used to supplement the telephone survey, fewer tabulations were made and more reliance was placed on perceived problems and open-ended questions. These results are covered in the General Report (Volume I).

Table TR-8

TRANSPORTATION PROVIDER FIELD INTERVIEW SITES BY FEDERAL REGION AND URBANIZATION LEVEL

Federal Regional		URE	ANIZATI	ON LEV	EL
Office Location	I	II	III	IV	Total
I	0	1	0	1	2
II	0	1	0	0	1
III	0	1	1	1	3
IV	0	1	2	1	4
v	3	1	0	0	4
VI	0	1	1	0	2
VII	0	0	0	1	1
VIII	0	1	0	0	1
IX	1	1	0	0	2
X	0	0	0	0	0
TOTAL	4	8	4	4	20

The only federal region that was not included in the sample was Region X. However, a project in this area had been originally included but the geological events associated with the eruption of Mount St. Helens forced the cancellation of the interview and another site had to be substituted from another region.

E. Statistical Accuracy

The ability to make accurate and precise statements about the total population of transportation providers from the sample of providers interviewed is directly dependent upon the sample size and non-sampling errors.

Some non-sampling errors, those not caused by any statistical error, are due to working survey questions so that different interpretations to the same question are made by different people, obtaining a non-random sample due to some provideres being selected over others, interviewer differences in performance, accuracy of the respondents themselves and data entry. These non-sampling errors are controllable and can be kept to a minimum by careful monitoring of the survey format, data collection, and data processing.

As the size of a sample increases and approaches the size of the total population from which a sample is drawn, the accuracy of the data goes up. However, in large populations, this is not possible and, in fact, not necessary since the absolute number in the sample is most important in determining the accuracy of the data. Budgetary limits can also restrict the number of samples that can be obtained.

One approach to decreasing sampling errors and, therefore, increase precision is to stratify a sample. Stratified sampling produces more precise data for the same sample size when a heterogeneous population can be subdivided into smaller populations that are homogeneous. This was the approach taken in selecting the samples for this effort.

As a guide to evaluting the precision of the percentages in the various tables, Table TR-9 presents the relationship between the sample size and the precision of a simple random sample. A stratified random sample will have a higher precision than that shown in Table TR-9, however, because of the

small sample size, the difference will be very slight. The actual sampling procedure used and the reporting of the data did not follow rigorous stratified random sampling procedures. Data is reported as percentages of the total sample and are not weighted by substrata population, nor was the actual substrata sample population selected in this manner.

Table TR-9

RELATIONSHIP BETWEEN SAMPLE SIZE AND PRECISION IN A SIMPLE RANDOM SAMPLE AT 95 PERCENT CONFIDENCE LEVEL

Percent Giving	Sample Size					
Answer	<u>20</u>	60	100			
2	+ 6.1	+ 3.5	± 2.7			
5	+ 9.6	+ 5.5	± 4.3			
10	+ 13.1	+ 7.8	+ 5.9			
20	+ 17.5	+ 10.1	+ 7.8			
50	+ - 21.9	+ 12.7	+ 9.8			

In connection with the statistical reliability of the data, a final note is warranted. Retrospectively, it appears that the telephone survey represents a relatively small sample of providers. In view of how little was known about the population size, it would have been difficult to predict ex ante what an appropriate sample size should have been. Furthermore, the limitations of budget alone would have made it impossible to enlarge the sample size of sixty providers to say 300 (if, for example, a ten percent sample was to be used), or even an increase to somewhere around 100 to 120 providers in order to move out of the general spectrum of a small sample. For largely similar reasons, some of the "randomness" of the sampling had to be abandoned.

However, a review of the data from both the telephone and on-site interviews indicate that they appear representative of experiences (and problems) encountered throughout the country. As in the case of any small sample, there are sometimes substantial variations in come of the distributions, and as noted in the previous discussion, considerable care should be taken in interpretation. However, we feel that the general results are valid, and, not surprisingly, they reflect both diversity and uniformity.



TELEPHONIC SURVEY INSTRUMENT

	-

IMPROVED TRANSPORTATION SERVICES STUDY Telephonic Survey of Transportation Providers

	Name					ID N	o	
Street Add	ress					FED.	REG.	
City			State_			ZIP		
Contact Per	rson				Phone ()	-	
Title							-	
A. INTERVI	EW RECORD							
Interview-	Call	Date			Result	s		*
er Initials	Carr	Date	no answer	busy	refused	interview incomplete	interview completed	Dropped out
	Initial call							
	lst call back						1	
	2nd call back							
	3rd call back							
	4th call back							
B. INTRODU My m I am ca order t be impr To d ving ol problem like to We a can be want so a secon 1. In abo you 2. May	name is alling in connect to determine how roved and expand do this, we have der people thro as. Your transp ask you a numb anticipate the q answered quite ome time to chec ad time in order order to save t outago a or someone of owe enlist your	tion with the proved. selected ughout the ortation ser of ques uestions versily. It k the anso to completime, we mandally . We would your staff	and I a transpission of a sample e country system wastions cowill take However, and ete the internal ete the internal ete	am with cortation transport and reast selection there is about there is about there is about the content of the	th the Inston provider ortation serial and urbepresenting ted as par your own eof may be some ese question where to your plan knowing to the control of the control	citute of Publications for old survey we are crivices for old survey and transportation and transportation for that sample experiences and experiences and experiences and experiences and experiences and experiences are croject and transportation of the experience	ic Administrate conducting and the conducting and the conducting and the conduction providers and the conduction of the quarter which you were conductive and the conduction and the conduction are conductive and the conduction are conductive and the conduction are conducted as a conductive and the	in might s ser- ce and ould estions ould
	"Yes") Would y up a more conv						Now/	Later
If	Later, set up a	ppointment	: Date:			Time:		

C. BACKGROUND DATA													
	1. How long has you	ır agency been	in exister	nce? /_/ Less t	han 1 yr, /	7 years							
	2. How long has your transportation service been operating?												
	/_/ Less	than 1 year		<u>//</u> 3 years									
	/_/ 1 year			// 4-5 year									
	/_/ 2 year	rs .		/_/ Over 5 y	years								
	3. Is your agency:												
	/_/ Public	e for profit			non-profit								
	4. Does your agency		services of		specify)								
	/_/ Yes	provide any	octvices of	/_/ No	reacton:								
	5. If yes, must cl transportation	ients be regis n?	tered for a	any of these ser	vices to receive								
	<u>/_/</u> Yes	<u>//</u> No											
	6. If yes, how many	y registered c	lients do y	you have?									
	/ / / /												
	7. How many of your	registered c	lients actu	ually use the tra	ensportation serv	ice?							
	/ / / /												
	8. What is the size	e of your staf	f?										
		Total Staff	Drivers	Dispatchers/ Schedulers	Maintenance	Management							
	Under 5	//_/	//_/	<u>/ / /</u>	/_/_/								
	5 - 10	//_/	//	//_/	<u>/ / / / </u>	/_/_/							
	10 - 15	/_//	/_//	<u>/ / /</u>	<u>/ / /</u>	/_/_/							
	15 - 25	//_/	/_/_/	<u>/ / /</u>	/_/_/	//							
	25 - 35	//_/	/ / /	/_//	/_/_/	/_/_/							
	35 - 50	/_/_/	/_//	/_/_/	<u>/ / /</u>	/_/_/							
	50 +	//_/	/_//	1 1	/_/_/								

9. Do you use volunteers in any aspect of your transportation operations?									
		Yes <u>/</u> _/	No						
10. If yes, how many?									
11. Have you developed special training programs for transporting elderly and handicapped clients?									
	/_/ Yes /_/ No								
D. FUNDING	INFORMAT	ION							
12. Which of the following sources of funds did your project use to pay for transportation in 1979? (Please indicate whether it was used for capital expenses or operating expenses.)									
		Source	Uses		Sour ce	Uses			
Source	2	Yes No	Cap. Opt.	Source	Yes No	Cap.	Upt.		
Older American Act				UMTA Sec.16(b)(2)		<u>/-</u> _/			
Title I				UMTA Sec. 18	<u>/_/</u>				
Title III(C) / / / / / / / / / / / / / / / / / / /				CETA Funds	<u>/_/</u> /_/				
Social Security Act Title XIX / / / / / / / / / / / / / / / / / /				Local, Public					
Title X				Local, Private					
UMTA Sec.	3	<u>/_/</u> /_/	<u>/_/</u> /_/	Fares	<u>/</u> /				
IMTA Sec.	5	<u>/</u> _/ /_/	<u></u>	Donations					
Sec⁺ion 1	47			Other, (Specify)					
13. Would you indicate the total size of your transportation budget in 1979 or in the latest full year of transportation operation?									
	_	<u>////</u> / Yea	r	\$	Amount				
14. Do you consider your present transportation budget adequate?									
/ <u>/</u> / Yes / <u>/</u> / No									
15. If no, why not?									

D.

16. Have you encountered any problems in the continuity of funding your trans portation project?							
/ / Yes / / No							
17. If so, when and for what reasons? /////							
Reason:							
18. For your present transportation budget, are there any restrictions attached to the use of your funds?							
/_/ Yes /_/ No							
19. If yes, which, if any, of the following reasons describe these restrictions							
/_/ Some funds limited to capital purchases only							
/_/ Some funds limited to operating expenses only							
/_/ Restrictions imposed on passenger eligibility							
/_/ Restrictions imposed on geographic coverage of transportation services							
/_/ Other, please specify							
// No restrictions							
SERVICE CHARACTERISTICS							
A. Client Eligibility							
20. Which of the following groups are eligible to use your transportation service:							
/_/ Elderly /_/ General Public							
/ / Handicapped / / Other, Please specify	i						
/_/ Low-Income							

II.

B. OPERATING CHARACTERISTICS

21.	In terms of providing transportation which of the following methods do y			
	/_/ Directly operate and provide	transpor	tation	
	/_/ Purchase service from anothe	er transpo	rtation provi	der
	/_/ Other, (please specify)	 		
22.	If you purchase transportation serv	vice, who	is/are the pr	ovider(s)?
23.	Could you please estimate in terms percent of your service provided by			=
	% Directly operate and provide	le transpo	rtation	
	% Purchase service from anoth	er provid	er	
	% Other (as specified above)			
24.	In terms of the type of service, do transportation service provide:	oes your		If yes, please estimate the per-centage of one-way
		Yes	No	passenger trips
•	Door-to-door Dial-a-Ride			
	Advance reservation required			%
	No advance reservation		/_/	%
•	Fixed route/fixed schedule over designated routes and stops (as in conventional bus service)		<u>//</u>	%
•	Regularly scheduled service to specific program destinations (nutrition sites, shopping centers, sheltered workshops, etc.)	/ /	/	%
	Other, not mentioned above	/	<u> </u>	
	(specify)		/	%
			TOTAL	

25.	far in advance must reservation			service, now
	hours			
	days			
	other, (specify time	e period)		3-3-1-4
26.	If your vehicles have excess cathe advance reservation require		vailable, d	o you waive
	/_/ Yes /_/ No			
27.	For which of the following purp	ooses do	you provide	transportation?
		Yes	No	No.one-way passenger trips (annually) Year (1979 preferred
	Medical Services	//	//	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Shopping	/_/	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Nutrition Sites	<u>//</u>	//	
	Social Service facilities and agencies	<u>//</u>		
	Senior Citizen Centers	//	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Special Events/Recreational travel	<u>//</u>	<u>//</u>	
	Emergency Services	<u>//</u>	//	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Employment	<u>//</u>	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Training and Educational Facilities	<u>//</u>	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
	Personal Business	//	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
	General public transportation	//	<u>//</u>	
	Other, specify	<u>//</u>	<u>//</u>	<u>/ / / / / / / / / / / / / / / / / / / </u>
28.	If you have established client list the three major prioritie			
	1			
	2			
	3			

29.	How many u	nduplicated passe	ngers	do	you	serv	re pe	er ye	ear?		
30.		he normal hours t our peak hours of								ion each	day?
										Complet	e Later)
			S	M	T	W	T	F	S		Hrs/week
	Normal hou	rs of operation									
	Peak hours	of operation									
	reak nours	or operation									
										 	
31.	Are there	other more irregu	lar h	ours	of	serv	rice	per	week	for the	elderly?
	,—	· · · · · · · · · · · · · · · · · · ·									
	/	Yes No									
22	If ves. wh	en?									
34.	22 / 22,							-			····
	_								•		
33.	Do you cha	arge a fare for yo	our tr	ans	port	atio	n se	rvic	e?		
	/-/	Yes / / No									
34.	If yes, ho	w much per trip?									
35.	Who sets y	our fare structu	re, if	yo	u ha	ve o	ne?				
	/ 	Sederal or State 1	law or	r re	ອນ ໄລ:	rion					
	<u>/</u> /	ederal of beate .	Law OI	. 10	Suru	22011					
	_// Y	Cour own organizat	tion's	s po	licy						
	<u>//</u> c	other, please spec	cify _								
	<u>/_/</u> I	Oon't know									
36.	How are yo	our fares collecte	ed?								
	/ / T	Parebox									
	// F	aredox									
	<u>//</u>	Trip coupons/toke	ns								
	<u>//</u> c	Other, specify									_
37	Do you acc	cept donations?									
	/ 	$les / \frac{1}{l}$ No.									
	<u></u> ' •	<u>/</u> / 110 ·									

				rea	<u>ar</u>	Numbe	r	
•	tal number of ehicles trave	f vehicle miles eled?						
o Total	vehicle hour	s						
o Total	route miles							
_O Averag	e trip lengt	h						
C. SCHEDULING AN	D DISPATCHIN	G						
		- tion service di	spatche	d from o	ne locatio	on?		
	Yes /							
		spatch centers	do you	have?				
D. VEHICLE CHARA	CTERISTICS							
the ty number	pes of vehic of vehicles	ided below, cou les used in you , their average of special equ	r trans seatin	portation g capaci	n operations, avera	on, the	total	
Vehicle	Number	A G4	A	A	N	umber of		
Type	Number	Avg. Seat- ing Capacity	Avg. Age	Avg. Cost	Lifts	Ramps		Other
Sedan (5-Pass.)								
Station Wagon	:							
Van(8-12 Pass.)								
Small Bus (25 Pass.)								
Large Bus (25+ Pass.)								
School Bus								
TOTAL								

42. How many of the vehicles listed above are actually available for service

and on the road at any one time?

38. For the most current year for which you have information available,

would you please give me:

	43.	Who ov	ons the vehicles you use to provide service?	
			Vehicle Procurement	Number of Vehicles
		//	Owned by your agency	
			Rented or leased	trad (CCC) (
			Owned by staff	
			Owned by volunteers	
		<u>//</u>	Don't provide service directly (i.e., purchase service)	
			Other, please specify	
	44.	How do	you set the specifications for your vehicl	es?
			State sets	
		//	From manufacturers	
		//	Your own agency sets	
			Local dealer sets	
			Ask other projects	
			Other, specify:	
Ε.	MAIN	IT ENANCE	EXPERIENCE	
	45.	Is mai	ntenance provided by:	
			Your own agency	
			Local government garages	
			Local garages	
		//	Other, specify:	
	46.		any days per month are your vehicles out of pries)?	service (in the following
		Vans	Smal	1 buses
		Sedans	Larg	ge buses
		Statio	on Wagons Scho	ool buses

	47.	Are yo	ur vehicles i	maintained	at regular i	ntervals?	
		//	Yes /_/	No			
	48.	If yes	, how often?	Every		miles	
			h do your spo ch latest red			repairs during the year	r
			Year		\$	(Dollars)	
III.	COST I	NFORMA	TION				
	A. GE	ENERAL	COST INFORMA	TION			
	50a.	What (in	were your pro	oject's tot f purchasir	al transport g service, i	ation costs for FY '79? f any)	
		\$		Total Op	erating Cost	S.	
	50b.	Does	this include	volunteers	' time and o	ther contributions?	
		//	Yes /	7 No			
	51.				rict your op ansportation	tions to coordinate serv providers?	ices
		//	Yes /_/	No			
	52.	If yes	s, could you	specify th	e restriction	1?	•
	в. <u>І</u>	NSURANO	CE COSTS				-
	53.	Do you	presently h	ave any pro	oblems obtair	ning insurance?	
		//	Yes / /	No			
		If yes	s, what?				
	5 /.	Dec all a		- 12			
	54.	by who	m are you in				
		// //	Private Car				
		<u>//</u>	Self-insure Unit of Gov				
		<u>/ /</u>	Other plea				
		, ,	1/1 HP1 D102	CH CHACITY			

55.		of government insures your trar e specify whether the policy is		ect, could
	//	State government		
	//	County government		
	<u>//</u>	Local government		
		Other, please specify:		
56.	What is t	he cost of your total annual pre	emium?	
	\$	1979		
	\$	1980		
57.		the following types of insurance aid drivers, and at what yearly		our agency have
		Type	Coverage	Annual Premium
	//	Public Liability	\$	\$
	<u>//</u>	Second & third party property damage (repair or replace property other than agency-owned property)	\$	\$
		Collision (repair or replace agency-owned property)	\$	\$
	<u>//</u>	Other, please specify:	\$	\$
58.	Does your	agency have special insurance f	for volunteers?	
	<u>//</u>	Yes / / No		
59.	If yes, w	hat is the cost of your total ar	nnual premium for	volunteers?
	\$	1979		
	\$	1980		

	60.	Have you ever had your insurance policy cancelled?
		/_/ Yes /_/ No
	61.	If yes, why?
۲V.	MONI	TORING AND EVALUATION
	62.	Do you require daily dispatcher reports?
		<u>//</u> Yes <u>//</u> No
	63.	Do you require daily driver logs?
		<u>/_/</u> Yes <u>/_/</u> No
	64.	Do you prepare transportation operating reports for management control?
		<u>//</u> Yes <u>//</u> No
	65.	If yes, how frequently do you prepare them?
	66.	If you use more than one funding source, do they require different accountability reports?
		/_/ Yes /_/ No
	67.	If yes, how many accountability reports do you have to prepare?
		<u>//</u> 1
		<u>//</u> 1 - 3
		<u>/ / 3 - 5</u>
		/_/ More than 5
	68.	Do you receive any feedback on the accountability information you report?
		/_/ Yes /_/ No
	69.	Have you ever received technical assistance to improve any aspect of your transportation operation? (training, planning, operations, etc.)
		/_/ Yes /_/ No
	70.	If yes, from whom?

LABOR/REGULATORY/FRANCHISE PROBLEMS
71. Are your drivers unionized?
/_/ Yes /_/ No
72. Have you ever had any labor problems?
/_/ Yes /_/ No
73. If yes, could you explain?
74. Have you had any franchise conflicts with local taxi operators?
/ / yes / / No
75. Have there been franchise conflicts with other transportation providers in your area?
/_/ Yes /_/ No
76. Are you presently coordinating your transportation operation with other providers in your area?
/_/ Yes /_/ No
77. If yes, how?
// Joint information exchange
// Centralized dispatching
// Centralized equipment maintenance
/_/ Bulk purchasing: parts, oil, fuel, etc.
/_/ Brokerage functions
// Uniform cost accounts
/ Other (Specify):

V.

	70.	were you required to coordinate your transportation services:
		/_/ Yes /_/ No
	79.	If yes, by whom?
	80.	Are any aspects of your transportation service linked to those of the public transit authority in your area?
		/_/ Yes /_/ No
	81.	How? (check all that apply)
		/ As a feeder service to public transit
		/ / As an interim service to meet Section 504 requirements
		/ / As additional service in outlying areas
		/ In order to receive transit management expertise
		/_/ Other (specify)
	82.	Are you satisfied with present coordination efforts?
		/ / Yes / / No If no, why not
/I.	MARK	ETING AND OUTREACH
	83.	Do you present have a marketing or public information program for your transportation service?
		// Yes // No
	84.	If so what media do you use? (check all that apply)
		/_/ Brochures and other literature
		// Television
		// Radio
		// Newspapers
		// Social service agency representative to publicize service
		// Information and Reference
		// Billboards
		/ / Other promotional actitivities (specify)

VII. OTHER PROBLEM AREAS

A. El	NERGY CONTROL OF THE PROPERTY
85.	Have any changes (other than costs) occurred in your transportation project as a result of increasing fuel prices?
	/_/ Yes /_/ No
86.	If yes, were these changes related to:
	/_/ The number of trips provided
	/_/ The types of trips allowed
	/ / The type of client allowed
	/ / The number of clients served
	/_/ Other changes (please specify)
87.	Did you have any special problems with the fuel shortage in last summer's (1979) "gasoline crises"?
	/ Yes / No
88.	If yes, what were they?
89.	Were any trips eliminated, and if so, which ones?
90.	If your transportation service utilizes volunteers, did the fuel crisis impact the willingness of volunteers to provide service to the elderly and handicapped?
	<u>/_/</u> Yes <u>/_/</u> No
91.	Have you been given a special fuel entitlement by State or local government in case of future gasoline shortfalls?
	/_/ Yes /_/ No
92.	Have you developed a service contingency plan to accommodate any gasoline shortages that may develop?
	/ Yes / No

В.	IMPACT OF SECTION 504 OF THE REHABILITATION ACT OF 1973
	93. Are you acquainted with the requirements of Section 504 as it pertains to transit?
	<u>//</u> Yes <u>//</u> No
	94. If yes, are you involved in transition planning for implementation of Section 504?
	/_/ Yes /_/ No
	95. If yes, is your service expected to be part of the interim accessible mode?
	<u>/_/</u> Yes <u>/_/</u> No
	96. Are there any other specialized transportation providers in your area expected to provide interim accessible service?
	/_/ Yes /_/ No
С.	LINKAGES TO THE AREA AGENCY ON AGING
	97. In terms of your Area Agency on Aging:
	a. How often do you have contact?
	a. How often do you have contact? b. For what purpose?
	b. For what purpose?
	b. For what purpose?
	b. For what purpose?98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply).
	b. For what purpose? 98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA
	b. For what purpose? 98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA —————————————————————————————————
	b. For what purpose? 98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA —————————————————————————————————
	b. For what purpose? 98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA Technical assistance Funding/budgeting Staffing
	b. For what purpose? 98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA
	98. What type of assistance do you receive from either the State Agency on Aging or the Area Agency on Aging in the following areas? Check all that apply). State AAA

99. Do you provide transportation for Area Agency on Aging for clients of its funded projects?
/_/ Yes /_/ No
D. GENERAL
100. Are there any special transportation problems that you consider serious and that we have not discussed. If so, what?
AT THE COMPLETION OF THE INTERVIEW
We intend to research in more detail a number of important issues
that are identified from these telephone survey. For selected sites, we
anticipate visiting the site for, perhaps, two or three days. Would your
project be willing to permit us to conduct such a field interview?
101. / / Yes / / No
102. If no, why not?

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<u>A N N E X 2</u>

TELEPHONE SURVEY PROVIDER SAMPLE



ALABAMA

Walker County Commission, City of Cordoba Jasper, Alabama

City of Uniontown Uniontown, Alabama

CALIFORNIA

Aging Division, Community Development Department/Golden Medi Transportation Los Angeles, California

Los Conviejo, Sacramento Concelis Program Sacramento, California

* San Francisco City & County AAA, Cannon Kip Community Center San Francisco, California

Smooth Santa Maria, California

COLORADO

Cahone Recreation Hall Cahone, Colorado

FLORIDA

* Coordinated Transport for the Elderly St. Petersburg

GEORGIA

* Tift County Tifton, Georgia

IDAHO

Bananna Belt Senior Center Lewiston, Idaho

ILLINOIS

Proviso Council on Aging Bellwood, Illinois

Clinton County Project for Older Adults Carlyle, Illinois

INDIANA

Audiences Unlimited Fort Wayne, Indiana

Blackford County Services Hartford City, Indiana

^{*} Represent Providers which were also included in field interview sample

ILLINOIS (continued)

* Transportation Program for the Mobility Limited Chicago

Senior Citizens of Schaumberg Township, Inc. Hoffman Estates

KENTUCKY

* Christian County Senior Citizens Center Hopkinsville

Rowan County Senior Citizens Organization Morehead

LOUISIANA

Ascension Council on Aging Donaldsonville

MASSACHUSETTS

* Federated Dorchester Neighborhood Houses, Inc. Dorchester

Cape Cod Regional Transportation Authority West Barnstable

MARYLAND

* Transportation Module Rockville

MICHIGAN

* Ann Arbor Transportation Authority Ypsilanti

MINNESOTA

Salvation Army Hennepin - Anoka Counties Congregate Dining Project Minneapolis

Hubbard Senior Transportation Park Rapids

* St. Paul Area Chapter, American Red Cross Program Ramsey County & Transportation Coordination St. Paul

MISSOURI

* OATS Columbia

Mid-America Regional Council, Jewish Federation Kansas City

MISSISSIPPI

City of Grenada Grenada

NORTH CAROLINA

High Point Council on Aging High Point

NEW JERSEY

* Bergen County Board of Transportation Hackensack

Somerset County Office on Aging Somerville

NEW YORK

Orange County Office for the Aging Cornwall

Ulster County Office for the Aging Kingston

Canaan Senior Service Center New York City

Middletovm Plaza Senior Citizen Center New York City

West Harlem Coalition: Wilson Major Morris Community Center New York City

Woodside Senior Assistance Center New York City

NEW MEXICO

* Eastern Valencia County Los Lunas

OHIO

* Cincinnati Council on Aging, Claremont Area Rural Transportation Batavia

Shaker Heights Luncheon Social Cleveland

OHIO (continued)

Lawrence County Council on Aging Coal Grove

WSOS Community Action Committee Fremont

Medina County Office for Older Adults Medina

OKLAHOMA

Pontaton County Information, Referral, & Transportation Center Ada

OREGON

County Aging Program Hillsboro

Special Mobilities Service, Inc. Portland

PENNSYLVANIA

Wayne/Pike AAA Honesdale

* United Services Agency Wilkes Barre

SOUTH CAROLINA

* Richmond Lexington COA Columbia

TENNESSEE

Metropolitan Interfaith Association Shelby

TEXAS

Metrolift Paratransit Brokerage System Houston

Concho Valley COG AAA San Angelo

* Supportive Services for the Elderly San Antonio

UTAH

* Salt Lake - Tooele Area AAA, Service Care of Utah, Inc. Salt Lake City

VERMONT

* Southeastern Vermont AAA Brattleboro

WASHINGTON

Skamania County Senior Services Stevenson

WISCONSIN

Bayfield County Board of Supervisors Washburn

WEST VIRGINIA

* Mountain Transit Authority Summersville

Monroe Mobile, Inc. Union



<u>A N N E X 3</u>

TELEPHONE SURVEY OUTPUTS



Table 1
IMPROVED TRANSPORTATION SERVICES STUDY

Transportation Provider Sample by Level of Urbanization 1980

Level of Urbanization	Transport	ation Providers
Level of orbanization	Number	Percent
Metropolitan	13	21.7
Urban	16	26.7
Urban/Rural Mix	16	26.6
Rural	15	25.0
TOTAL	60	100.0

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 2
IMPROVED TRANSPORTATION SERVICES STUDY

Transportation Provider Sample by Federal Region

1980

	Transportat	ion Providers
Federal Region	Number	Percent
1	3	5.0
2	8	13.3
3	5	8.3
4	10	16.7
5	16	26.7
6	6	10.0
7	2	3.3
8	3	5.0
9	4	6.7
10	3	5.0
TOTAL	60	100.0

Table 3

IMPROVED TRANSPORTATION SERVICES STUDY Age of Agency or Organization Providing Transportation Services

1980

Age	Number	Percent
1 year or less	4	6.7
2 - 4 years	5	8.3
5 - 7 years	29	48.3
8 - 10 years	12	20.0
11 - 15 years	4	6.7
Over 15 years	6	10.0
TOTAL	60	100.0

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 4

IMPROVED TRANSPORTATION SERVICES STUDY

Period of Time for Which Organization Has Been Providing Services

1980

Period (Years)	<u>Number</u>	Percent
Less Than 1 Year	1	1.7
1	1	1.7
2	3	5.0
3	4	6.7
4	9	15.0
5	13	21.7
Over 6 Years	29	48.2
TOTAL	60	100.0

Table 5
IMPROVED TRANSPORTATION SERVICES STUDY
Type of Agency Providing Service

1980

Agency	Number	Percent
Public	23	38.3
Private - Non-Profit	32	53.3
Private - For Profit	3 '	5.0
Other	2	3.4
TOTAL	60	100.0

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 6

IMPROVED TRANSPORTATION SERVICES STUDY

Selected Agency Service Characteristics

1980

Characteristics	NO		Y	ES
Characteristics	Number	Percent	Number	Percent
1. Provides Service Other Than Transportation	15	25	45	75
2. Clients Must Be Registered	50	83	10	17
3. Uses Volunteers	32	53	28	47
4. Developed In-House Special Training Programs for Transportation	21	35	39	65

Size of Staff and Selected Staff Characteristics IMPROVED TRANSPORTATION SERVICES STUDY Table 7 1980

	ers	Percent	70.0	9.9	1.7	9.9	3.3	3.3	8.5	100.0
	Volunteers	Number	42 <u>e</u> /	4	1	9	2	2	5	60
Size Interval for	nent	Percent	88.2	6.7	1.7	1.7	1.7	0.0	0.0	100.0
ff Size Int	Management	Number	53 <u>4</u> /	4	1	1	1	0	0	09
Number of Agency Respondents for Each Staff	ance	Percent	95.0	3.3	0.0	0.0	1.7	0.0	0.0	100.0
pondents fo	Maintenance	Number	57 <u>c</u> /	2	0	0		0	0	09
Agency Resi	hers/ ers	Percent	0.06	10.0	0.0	0.0	0.0	0.0	0.0	100.0
Number of	Dispatchers/ Schedulers	Number	24 p /	9	0	0	0	0	0	09
	RIVERS	Percent	43.3	18.3	10.0	3.3	16.7	1.7	6.7	100.0
	DRIV	Number	26 <u>a</u> /	11	9	2	10	1	7	09
	taff	20	25.0	25.0	8.3	13.3	8.3	13.3	6.8	100.0
	Total Staff	No.Agencics	1.5	15	5	8	5	8	4	09
	Size of Staff	Class Intervals	Under 5	5 to 10	10 to 15	15 to 25	25 to 35	35 to 50	50 or Over	TOTAL

Includes four projects for which no drivers were reported.

Includes nineteen projects for which no dispatchers were reported. a/ b/ Includes fifty projects for which no maintenance staff was reported.

Includes nine projects for which no management staff was reported.) | P | | P |

Includes thirty projects for which no use of volunteers was reported.

Table 7A
IMPROVED TRANSPORTATION SERVICES STUDY
Size of Staff by Level of Urbanization

1980

	Total Al	Total All Providers			By	By Urbanization Level (Percent	on Level	(Percent)		
Size of Staff			Metro	(1)	Urb	Urban (II)	Urban/Rural (III	ral (III)	Ru	Rural (IV)
	Number	Percent	Number (Percent	Number	Percent	Number	Percent	Number	Percent
Under 5	15	25.0	5	38.4	0	0	۷	31.2	2	33.3
5 to 10	15	25.0	7	30.8	7	25.0	2	12.5	5	33.3
10 to 15	2	8.3	0	0	2	31.1	0	0	0	0
15 to 25	80	13.3	0	0	2	12.5	£	18.8	m	20.0
25 to 35	5	8.3	H	7.7	н	6.3	2	12.5	Н	6.7
35 to 50	80	13.3	H	7.7	က	18.8	7	25.0	0	0
50 or over	7	6.5	2	15.4	-1	6.3	0	0	1	6.7
TOTAL	09	100.0	13	100.0	16	100.0	16	100.0	15	100.0

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 8 IMPROVED TRANSPORTATION SERVICES STUDY

Sources and Uses of Funds for Providing Transportation Services for Older Americans

1979 Sources and Uses

Uses	Capita	Capital Only	Opera	Operating Only Capital 6 Operating	Capital 6 (& Operating	Funding	Funding Source
/	Number of	Providers as a	Number of	Providers as a Percent of All	Number of	Providers as a Percent of All	Number	Fercent of All (60) Agencies
	Providers	Providers Us- ing the Speci-	Providers	Froviders Us-	Providers	Providers Us- ing the Speci-		
/		fied Funding Source		fied Funding Source		fied Funding Source		
	(3)	(2)	(3)	(4)	(5)	(9)	(1)	(8)
1. Older Americans Act	i	(1)/(1)		(3)/(2)		(5)/(7)		
a. Title III(B)	2	4.5	34	7.2	80	18.3	77	72
b. Title III(C)		3.4	23	79.4	\$	17.2	29	87
Social Security Act								
a. Title XIX	1	25.0	۳	75.0	0	0	4	7
b. Title XX	0	0	80	80.0	2	20.0	10	17
UMT Act								
a. Section 3	2	100.0	0	33.3	0	0	2	'
b. Section 5	0	0	1	50.0	-1	50.0	. 2	2
c. Section 16(b)(2)	16	100.0	0	6.3	0	6.3	16	27
Surface Transportation Act	-1							
a. Section 18		25.0	9	75.0	0	0	4	7
Federal Highway Act								
a. Section 147	-	33.3		33.3	-	33.3	Э	۰
	0	0	19	86.4	9	13.6	22	37
								-
a. Public	7	10.2	23	59.0	12	30.8	39	65
b. Private	1	6.3	7	43.7	80	50.0	16	27
8. Fares	0	0	2	20.0	80	80.0	10	17
Donations	0	0	12	41.4	17	58.6	29	87
Other	0	0	\$	55.6	4	44.4	6	15
TOTAL RESPONSES	27		142		70		229	-

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 8A
Funding Sources by Urbanization Level

Urbanization Level	I	II	III	IV	TOTAL
Source:					
Title IIIB	9	9	14	11	43
Title IIIC	8	7	8	8	31
Title XIX	1	3	1	0	5
Title XX	1	1	7	2	11
Section 3	0	1	1	0	2
Section 5	2	0	1	0	3
Section 18	0	2	1	0	3
Section 16(b)(2)	2	4	6	4	16
147	0	1	1	0	2
CETA	2	9	9	3	23
Local Public	7	11	13	10	41
Local Private	2	4	6	6	18
Fares	6	2	1	2	11
Donations	7	6	10	5	28
Other	2	0	4	4	10
Total # of TPs	14	15	17	14	60
Percentage*	23.3	25.0	28.4	23.3	100.0

^{*}Percentages rounded to total 100%

Table 9

IMPROVED TRANSPORTATION SERVICES STUDY

Transportation Budgets Distributed by Size of Budget

1979 Budgets <u>a</u>/

Budget Size		Transportation Providers in Budget Class					
(in thousand dolla	rs)	Number of Providers	Percent of Total				
Under 10		5	9.1				
10 to 20		5	9.1				
20 to 35		7	12.7				
35 to 50		4	7.3				
50 to 75	50 to 75		9.1				
75 to 100		6	10.9				
100 to 150		8	14.5				
150 to 200		1	1.8				
200 to 300		4	7.3				
300 to 400	300 to 400		7.3				
Over 400	Over 400		10.9				
TOTAL		55 <u>b</u> /	100.0				
_		74.5 thousand					
l	Median Budget 8	31.3 thousand					

a/ Includes 2 projects for which only 1980 budgets were reported.

b/ Excludes 5 projects for which no budget size was reported.

Table 9B

Budget By Urbanization

Urbanization Level	I	II	III	IV	TOTAL
Total Budgets:					
Less than \$25,000	4	1	2	4	11
\$25,000 to \$100,000	4	4	7	5	20
\$100,000 to \$250,000	2	6	3	0	11
\$250,000 to \$1,000,000	2	4	3	2	11
More than \$1,000,000	1	0	0	1	2
TOTALS	55	13	15	15	12
MEDIAN	87,000	72,000	162,500	84,000	55,000

Table 10

IMPROVED TRANSPORTATION SERVICES STUDY

Selected Budget Problem Areas Identified by Transportation Providers

1980

A. Identified Budget Problems

	Respondent's View					
Budget Problem Area	Y	E S	N O			
	Number	Percent	Number	Percent		
1. Is transportation budget adequate?	19	31.7	41	68.3		
2. Have you experienced funding continuity problems?	23	38.3	37	61.7		
3. Any restrictions on use of funds?	50	83.3	10	16.7		

A.1 Inadequacy of Budgets

Reasons Given	Number of Responses for Each Reason			
Reasons Given	Number	Percent		
1. Cannot meet needs with present budget	10	26.3		
2. Need more funds	8	21.1		
3. Increased Costs:	11	28.9		
a. Inflation	(5)			
b. Gas Prices Up	(5)			
c. Cost of 504 Regulations	(1)			
4. Need More Staff	5	13.2		
5. Need More Vehicles	2	5.3		
6. "Match" Problem	1	2.6		
7. Other	1	2.6		
TOTAL	38	100.0		
No Response	3			

A.2. Problems of Budget Continuity

	Problem Identified	Number of Responses for Each Problem Area			
	Problem identified	Number	Percent		
1.	Obtaining Local Match	7	38.9		
2.	Lack of Local Support (Other than money)	2	11.1		
3.	Budget Cuts and Reduced Funding	5	27.8		
	a. Fewer funds available	(2)			
	b. Annual budget cut	(1)			
	c. Lost Section 5	(1)			
	d. Lost Section 18	(1)			
4.	Lack of long-range Planning	2	11.1		
5.	Other	2	11.1		
	Total Responses	18	100.00		
	No Response	19			

A.3. Restriction on Use of Funds

Type of Restriction	Times Restriction Requestion by Transport Agency			
	Number	Percent of Total Report- Reporting Restriction (50)		
1. Funds limited to capital purchases	17	34.0		
2. Funds limited to operating expenses	34	68.0		
3. Restrictions on passenger eligibility	32	64.0		
4. Restrictions on geographic coverage of service	25	50.0		
5. Trip purpose restriction	1	2		
6. Other	1	2		

Table 11
IMPROVED TRANSPORTATION SERVICES STUDY
Eligible Clients Served

1980

Client Groups	Total Providers Responding	Number Reporting Specified Client Group Served	Group Served as Percent of Total Responding
 Elderly Handicapped Low-Income General Public Other 	60 60 60 60	58 42 18 8 3	96.7 70.0 30.0 13.3 5.0

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 12
IMPROVED TRANSPORTATION SERVICES STUDY
Transportation Provider Operating Methods
1980

Number of Providers			ders	Number of Providers Using Specified					
Method of	Total	Using	Not	Meth	od by	Estimat	ed Per	cent of	One-
Operation		Method	Using	Way Trips					
				0%Trips	1 to	30 to	60 to	80 to	100%
1. Directly Operate					30%	60%	80%	100%	of trips
Service	60	55	5	5	2	0	2	6	45
2. Purchase Service	60	14	46	46	7	1	-	-	5
3. Other	60	0	0	60	0	0	-	-	0

Table 13

IMPROVED TRANSPORTATION SERVICES STUDY

Transportation Provider by Type of Service Provided
1980

Service Category Responding 1. Door-to-Door					1			
gory	r of	Transportation Providers Using Service Category	n Providers Category	Number Estima Way Tr	Number of Prov Estimate of Pe Way Trips Serv Service Types	Number of Providers Reporting Estimate of Percentage of One- Way Trips Served by Specified Service Types	Number of Providers Reporting Estimate of Percentage of One- Way Trips Served by Specified Service Types	
	roviders Responding	No. of Providers As % of Total	As % of Total	1-30%	30-60%	60-80%	1-30% 30-60% 60-80% 80-100%	100%
	09	87	80.0	14	8	2	9	18
Fixed Route & Schedule 60	09	16	26.7	7	7	n	7	ю
Regularly Scheduled 6(Subscription)	09	19	31,7	cı,	7	2	9	en en
4. Other, Special Feature 60	09	2	3.3	0	0	0	0	7

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 14
IMPROVED TRANSPORTATION SERVICES STUDY
Reported Trip Priorities
1980

	Pro	Providers Li	Listing Indicated	11 1	Priority for	Specified	d Trips	sd	
Trip Purpose	First P	Priority	Second P	Priority	Third Pr	Priority	Priority Rank		Ву
	No.	%	No.	%	No.	%	1	2	3
Medical	28	9.95	7	11.7	7	6.7	Н	4	2
Nutrition	10	16.7	14	23.3	2	8.2	က	2	7
Personal Business	17	28.3	19	31.6	30	50.0	2	ı	П
Shopping	ന	5.0	10	16.7	7	11.7	4	ന	2
Social Service Facility/Agency	н	1.7	9	10.0	9	10.0	2	5	3
Senior Citizen Center	0	ı	2	3.3	8	5.0	ı	9	9
Employment	н	1.7	П	1.7	0	1	2	7	1
Training/Education	0	ı	П	1.7	П	1.7	ı	7	7
Special Events/Recreation	0	ı	0	ı	7	6.7	ı	ı	2
Emergency	0	1	0	1	0	1	ı	1	1
Total Providers Reporting	09	100.0	09	100.0	09	100.0	ı	ı	ı
Personal Business plus shopping	20	33.3	29	48.3	37	61.7	2	Ч	Н

Table 15

Improved Transportation Services Study

Number of Unduplicated Passengers Served Per Year

Interval (Undupl. pax/yr)	Number of Responding	Perc	entage	Perc	entage*
(Undupi. pax/yi)	Providers	f.	c.f.	f.	c.f.
Under 500	12	20.0	20.0	31.7	31.7
500 - 999	10	16.7	36.7	26.3	58.0
1,000 - 1,999	2	3.3	40.0	5.2	63.2
2,000 - 3,999	3	5.0	45.0	7.9	71.1
4,000 - 5,999	3	5.0	50.0	7.9	79.0
6,000 - 9,999	3	5.0	55.0	7.9	86.9
10,000 - 14,999	3	5.0	60.0	7.9	94.8
15,000 or over	2	3.3	63.3	5.2	100.0
No Response	22	36.7	100.0		
TOTAL	60	100.0		38.0	100.0

^{*} Excluding 22 non-responses

Table 16

IMPROVED TRANSPORTATION SERVICES STUDY

Hours and Days of Service

1980

				DAYS			
Hours of Operation	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0	56	3	2	2	2	2	56
1 to 5	2	1	1	2	1	2	1
5 to 8	1	5	5	5	5	5	1
8 to 9	0	36	37	37	38	37	0
10 to 12	1	7	7	6	6	6	2
Over 12	0	8	8	8	8	8	0
TOTAL	60	60	60	60	60	60	60

SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 16A

IMPROVED TRANSPORTATION SERVICES STUDY

Typical Weekday Service Periods
By Level of Urbanization

1980

				ntage Dist		by
Normal Time for Service Provision	Number of Providers Responding	Percent	Metro (13)	Urban (16)	Urban/ Rural (15)	Rural (15)
8:00 a.m 5:00 p.m.	43	72.9	61.5	56.3	.93.3	80.0
6:00 a.m 6:00 p.m.	7	11.9	15.4	18.7	0	13.3
6:00 p.m11:00p.m.	8	13.5	23.1	18.7	6.7	6.7
All others	1	1.7	0	6.3	0	0
TOTAL	59	100.0	100.0	100.0	100.0	100.0

Table 16B

IMPROVED TRANSPORTATION SERVICES STUDY

Typical Weekday Peak Periods

1980

	Period of Operating Peaks	Number of Providers Responding	Percent
1.	Bimodal or Full Day 7:00 a.m 12:00 noon / 2:00 p.m 5:00 p.m. 7:00 a.m 9:00 a.m. / 4:00 p.m 6:00 p.m. 9:00 a.m 5:00 p.m. / All day	16 3 4 <u>b</u> /	27.1 5.1
	Point of Day Only 8:00 a.m12:00 Noon 8:00 a.m 2:00 p.m. 11:00 a.m2:00 p.m. Peak Not Known	6 <u>c</u> / 4 <u>d</u> / 18 <u>e</u> / 8 <u>f</u> /	10.2 6.8 30.5 13.5
	Total	59	100.0

- Two of the projects operated within slightly varied times but with the same approximate band of operations.
- $\frac{b}{}$ Includes project with start-up at 8:30 a.m. and close at 4:00 5:00 p.m.
- Includes one project operating from 9:00 a.m. 12:00 Noon; one from 9:00 a.m. 11:00 a.m.
- $\frac{d}{d}$ Includes one project that operates from 9:00 a.m. 3:00 p.m.
- Includes one project operating with a start-up at 10:00 a.m. and close at 2:00 p.m.; one operating from 10:30 a.m. 3:00 p.m.; and one project that operates from 11:00 a.m. 3:00 p.m.
- f/ All eight cases where peak was not known were in rural areas.
- SOURCE: Institute of Public Administration, Special Telephonic Survey of Sixty Transportation Providers, March 1980.

Table 16C

IMPROVED TRANSPORTATION SERVICES STUDY

Special Service Hours - Irregularly Provided

1980

	Prov	iders	Pe		distribution by	,
		onding	Metro	Urban	Urban/Rural	Rural
Period of Irregular Service	No.	%	(6)	(9)	(8)	(5)
Weekend & Evenings Special Events & Recreation Selected Evenings During week Emergencies Didn't Know	13 9 1 3 3	44.8 31.0 3.4 10.4 10.4	66.6 16.7 16.7 	33.3 44.4 22.3	22.2 44.4 33.3 	80.0 20.0
Total Responses	29	100.0	100.0	100.0	100.0	100.0

Table 17 IMPROVED TRANSPORTATION SERVICES STUDY Transportation Provider Fare Characteristics

1980

A. Fare Charged?

Charge Fares	Number	Percent
Yes	12	20.0
No	48	80.0
TOTAL	60	100.0

B. Amount of Fare Charged

Fare Intervals (in cents)	Number of Providers	Percent Distribution
1 to 10	1	8.3
10 to 20	3	25.0
20 to 30	2	16.7
30 to 40	1	8.3
40 to 60	2	16.7
60 or over	3	25.0
TOTAL	12	100.0

C. Agency Setting Fare

Agency Setting Fare	Number of Providers	Percent
 Federal or State Statute and/or Regulation Provider's Own Organization Other Method 	6 4 2	50.0 33.3 16.7
TOTAL	12	100.0

Table 18

IMPROVED TRANSPORTATION SERVICES STUDY

Selected Operating Characteristics 1980

A. Annual Vehicle Miles

	Number of	
Vehicle Miles	Providers	Percent
No Response	12	20.0
Less than 5,000	1	1.7
5,000 - 9,999	5	8.3
10,000 - 19,999	8	13.4
20,000 - 49,999	5	8.3
50,000 - 99,999	8	13.3
100,000 - 199,999	7	11.7
200,000 - 299,000	5	8.3
300,000 - 499,000	1	1.7
500,000 - 999,000	5	8.3
Over 1 million	3	5.0
TOTAL	60	100.0
Median (48 R	• •	
Mean (47 Res	p.) 190,000	miles

B. Trip Lengths

Trip Length (miles)	Number of Providers	Percent
No Response	20	33.4
1 to 2	4	6.7
2 to 3	4	6.7
3 to 4	5	8.3
4 to 6	6	10.0
6 to 8	3	5.0
8 to 10	2	3,3
10 to 15	5	8.3
15 to 20	2	3.3
20 to 30	2	3.3
Over 30	7	11.7
TOTAL	60	100.0
Median (40 ı	cesp.) 6.7 miles	
Mean (40 res	p.) 9.1 miles	

Table 18C

Vehicle Miles By Urbanization

Urbanization Level	I	II	III	IV	TOTAL
Total Vehicle Miles: Less than 10,000	3	1	0	2	6
10,000 to 100,000	6	4	7	6	23
100,000 to 1,000,000	3	8	4	3	18
1,000,000 or more	0	0	2	1	3
Missing Cases	2	2	5	2	11
TOTAL	14	15	18	14	61

Table 19 IMPROVED TRANSPORTATION SERVICES STUDY

Dispatching Characteristics 1980

A. Use of Central Disptaching

Central Dispatch	Number	Percent
No	14	23.3
Yes	46	76.7
TOTAL	60	100.0

B. Number of Dispatch Centers Where Not Centralized

Number of Dispatch	Projects	Responding
Centers Used	Number	Percent
2 to 3	6	42.9
3 to 4	2	14.3
4 to 6	1	7.1
6 to 8	2	14.3
8 to 10	2	14.3
Over 10	1	7.1
TOTAL	14	100.0

Table 20

IMPROVED TRANSPORTATION SERVICES STUDY Vehicle Fleet Characteristics

1980

A. Vehicle Categories by Fleet Size

	Number of	Numb	Number of Vehicles Reported for Each Vehicle Category	es Reported	for Each Ve	hicle Ca	tegory
Vehicle Category	Providers 0	1 to 5	5 to 10	10 to 20	2C to .30	30 or More	Total Projects
Sedans	67	7	2	1	0	1	11
Station Wagons	97	12	1	0	1	0	14
Vans (8 - 12 pax)	9	28	12	9	2	e	54
Small Bus (25 pax)	52	5	2	H	0	0	œ
Lge. Bus (25+ pax)	53	9	0	0	0	н	7
School Bus	60	0	0	0	0	0	0

B. Number of Vehicles, Seating Capacity, and Accessibility

- 1										
	pped with	Ramps	% of Fleet	0	0	14	0	0	Φ	10
	s Eauf		No.	0	0	74	0	0	0	74
	Number of Vehicles Equipped with	Lifts	% of Fleet	0	0	26	13	14	0	20
-	Numb	17	No.	0	0	137	2	7	0	149
	rage	Total	%	100	100	100	100	100	0	
	Estimated % of Vehicles w/ Average Seating Capacity of	25 or	Over	0	0	0	12	100	0	
		16 10	25	0	0	1	63	0	0	
	ted % of Seating	12 40	16	0	0	29	25	0	0	
	Estima	8 +0	12	0	14	30	0	0	0	
		Less	8	100	98	2	0	0	0	
		Vehicles Less Than	%	68 9.3	6.1	72.5	5.3	8.9	0	734 100.0
		Vehi	No.	89	45	532 72.5	39	20	0	734
			Vehicle Category	Sedans	Station Wagons	Vans (8-12 pax)	Small Bus (25 pax) 39	Lge. Bus (25+ pax)	School Bus	Total

Table 20 (Continued)
IMPROVED TRANSPORTATION SERVICES STUDY
Vehicle Fleet Characteristics

C. Age of Fleet by Vehicle Category

	Est.	Estimat	ted Percer	nt Distrib	ution of	Reported	Estimated Percent Distribution of Reported Average Fleet Age	eet Age (%)		
Vehicle Category	Vehicle Number	2 years	2 to 3	3 to 4	4 to 5	5 to 7	7 to 10	10 to 15	Over 15	Total
Sedans	89	12	12	40	12	12	12	0	0	100
Station Wagons	45	14	22	7	29	14	14	0	0	100
Vans (8 - 12)	532	10	25	32	20	7	0	0	0	100
Small Bus (25 pax)	39	14	0	14	14	30	14	14	0	100
Lge. Bus (25+ pax)	50	0	0	09	0	0	0	20	20	100
School Bus	0	0	0	0	0	0	0	0	0	0
TOTAL	734									

D. Vehicle Costs by Vehicle Category

	Distributi	Distribution of Providers by Average Vehicle Cost Reported	ders by Ave	rage Vehicl	e Cost Repo	rted	Total Projects
Vehicle Category	Under 10	10 to 15 15 to 20	15 to 20	20 to 30	30 to 50	50 to 100	Reporting
Sedans	7	0	0	0	0	0	7
Station Wagon	6	0	0	0	0	0	6
Vans	26	13	3	0	0	0	42
Small Bus (25 pax)	2	2	0		н	н	7
Lge. Bus (25+ pax)	0	0	н	0	0	0	1
School Bus	0	0	0	0	0	0	0

Table 20 (Continued)
IMPROVED TRANSPORTATION SERVICES STUDY

Vehicle Fleet Characteristics

E. Ownership and Procurement Characteristics

Percent	81.8	3.9	0	6.3	0.9	7.1	100.0
Number of Vehicles	579	28	0	45	9	50	708
Number of Providers Reporting	47	6	0	2	2	11	
Ownership/Procurement	Owned by Agency	Rented or leased	Owned by Staff	Owned by Volunteers	Purchase Service Only	Other	Sub Total

F. Vehicle Specification Procedures

	Percent	26.7	5.0	50.0	0	16.7	1.6	100.0
Number of Providers	Reporting	16	9	30	0	10	1	09
	Agency Setting Vehicle "Specs"	State	Manufacturers	Own Agency	Local Dealer	Ask Other Projects	Other	Tota1

Table 21

IMPROVED TRANSPORTATION SERVICES STUDY

Maintenance Practices and Procedures

1980

A. Maintenance Organization

Source of Maintenance	Number of Providers	Percent
Own Agency	12	19.3
Local Government Garage	17	27.4
Local Private Garage	28	45.2
Other	5	8.1
Total	62 <u>a</u> /	100.0

 $[\]underline{a}$ /May add to more than 60 because some providers use more than one maintenance source.

B. Maintenance Schedule

	Y	ES	N	0
Item	No.	%	No.	%
1. Maintained on Regular Schedule	55	91.7	5	8.3
2. Frequency (miles per maintenance check)				
Miles per check				
No response 1,000 to 3,000			25 2	5.7
3,000 to 5,000 5,000 to 7,000			18 10	51.4
7,000 to 9,000			2	5.7
9,000 to 12,000 Over 12,000			2	2.9 5.7
Total Responding with Answer			35	100.0

Table 22 IMPROVED TRANSPORTATION SERVICES STUDY Operating Cost Characteristics

1979

A. Cost Sharing Problems

	Y	E S	N	0	
Question Coverage	Number	Percent	Number	Percent	
Costs include volunteer time and similar contributions 2.a. Funding sources restricting cost sharing	46 10	78.0 16.7	13 50	22.0 83.3	
2.b. Nature of Restrictions Reported	1:				
Restrictions	Number o	f Providers	Percent		
Eligibility Requirements		6	60.0		
Too Many Different Programs and Regulations		2		20.0	
Funding Restrictions		1		10.0	
No Response		1		10.0	
TOTALS	1	.0	1	.00.0	

Table 22 (Continued) IMPROVED TRANSPORTATION SERVICES STUDY

Operating Cost Characteristics

1979

B. Distribution of Reported Operating Costs per Vehicle Mile

Interval in Dollars (Operating Costs per Vehicle Mile)	All Providers		By Level of Urbanization (Providers Metro Urban Urban/Rural Rural				
	5						
Under \$0.30		2	0	1	2		
\$0.30 to \$0.50	9	1	2	2	4		
\$0.50 to \$0.70	5	1	3	0	1		
\$0.70 to \$1.00	11	2	2	4	3		
\$1.00 to \$1.30	5	1	2	0	2		
\$1.30 to \$1.60	1	1	0	0	0		
\$1.60 to \$2.00	4	1	0	2	ı		
\$2.00 or Over	8	2	5	1	0		
TOTALS	48	11	14	10	13		
Median(\$)	0.84	0.93	1.00	0.85	0.60		

Table 22 (Continued) IMPROVED TRANSPORTATION SERVICES STUDY

Operating Cost Characteristics

-1979

C. Distribution of Annual Operating Costs per Vehicle

Interval in Dollars (Annual Operating Costs	A11	By Level of Urbanization (Provi			
per Vehicle)	Providers	Metro	Urban	Urban/Rural	Rural
Under \$5,000	8	2	0	3	4
\$5,000 to \$10,000	8	1	2	3	1
\$10,000 to \$15,000	11	0	5	2	4
\$15,000 to \$20,000	14	5	2	4	3
\$20,000 to \$25,000	6	1	3	0	2
\$25,000 to \$30,000	3	1	1	1	0
\$30,000 to \$35,000	2	1	1	0	0
\$35,000 or Over	4	1	2	1	0
TOTALS	56	12	16	14	14
Median (\$)	15,400	18,000	17,500	12,500	12,500

Table 23

IMPROVED TRANSPORATION SERVICES STUDY

Vehicle Insurance Experience

1980

A. Insurance Eligibility and Cancellation

Question Coverage	YES Number %	NO Number %
 Present Problem Obtaining Insurance? Insurance Policy Ever Cancelled? 	7 11.7 3 5.0	53 88.3 57 95.0

B. Type of Insurance Carrier

Agency	Number of Responses	Percent
Private Carrier	39	71.0
Self-Insured	2	3.6
Unit of Government	12 <u>a</u> /	21.8
Other	2	3.6
Sub total	55	100.0
No Response	5	
Total	60	

a/ Out of the 12 governmental units, 11 were county or local government.

NOTE: Twenty-three (23) sample providers were classified as public agencies.

Table 23 (Continued)

IMPROVED TRANSPORTATION SERVICES STUDY

Vehicle Insurance Experience

1980

C. Distribution of Average Insurance Premium per Vehicle - 1979

Interval in Dollars (Premium Cost per Veh.)	A11	By Level of Urbanization (Providers)				
(Tremium cost per ven.)	Providers	Metro	Urban	Urban/Rural	Rural	
Under \$500	17	1	3	5	7	
\$500 to \$750	6	1	1	3	1	
\$750 to \$1,000	5	0	2	2	1	
\$1,000 to \$1,250	3	2	0	1	0	
\$1,250 to \$1,500	5	2	2	0	1	
\$1,500 to \$1,750	3	0	2	0	1	
\$1,750 to \$2,000	0	0	0	0	0	
\$2,000 or Over	4	0	2	1	2	
TOTALS	43	6	12	12	13	
Median (\$)	688	1,125	1,000	583	464	

Table 24

IMPROVED TRANSPORTATION SERVICES STUDY

Transportation Provider Monitoring and Evaluation Practices

1980

			-	YES	3	NO	
				Responses	%	Responses	%
1.	Require Daily Dispatch	Reports		22	36.7	38	63.3
2.	Require Daily Driver Lo	ogs		51	85.0	9	15.0
3.	Prepare Management Repo	orts on Operat	ions	46	76.7	14	23.3
4.	Receive Feedback on Acc Report	countability		22	36.7	38	63.3
5a.	Ever Received Technical	l Assistance		22	36.7	38	63.3
ъ.	From Whom	Number		Percent			
	State DOT Area Agency on Aging Transit Agency Planning Commission Local Government	8 5 3 2 3		38.1 23.8 14.3 9.5 14.3			
	Subtotal	21		100.0			
	No answer	1					
	TOTAL	22		G102 G100			
6.	Number of Accountability Required to Prepare	ty Reports		Number Respond Provide	ling	Pero	cent
	None			31		5:	1.7
	1 to 3			17		28	8.3
	3 through 5			6		10	0.0
	More than 5			6		10	0.0
	TOTAL			60		100	0.0

Table 25

IMPROVED TRANSPORTATION SERVICES STUDY

Labor Force and Institutional Problems

1980

Characteristics	Y I	E S	N O	
Characteristics	Number of		Number of	
	Respondents	Percent	Respondents	Percent
1. Unionized Drivers	1	1.7	59	98.3
2. Any Labor Problems	4	6.7	56	93.3
3. Franchise or other Taxi Conflicts	7	11.7	53	88.3
4. Conflict with Other Providers	3	5.0	57	95.0
			ļ	

Table 26

IMPROVED TRANSPORTATION SERVICES STUDY

Coordination Experiences and Practices

1980

A. Coordination Practices

		YES NO			
		Providers Responding			Responding
	Coordination Question	Number	Percent	Number	Percent
la.	Presently Coordinating	26	43.3	34	56.7
ъ.	How Coordinating:				
	Government Information Exchange Centralized Dispatching Centralized Equipment Maintenance	19 3 1	47.5 7.5 2.5		
	Bulk Purchasing	2	5.0		
	Brokerage Functions	8	20.0		
ł	Shared Administration Costs	2	5.0		
	Uniform Cost Accounts	1	2.5		
	Shared Advisory Functions	4	10.0		
	TOTAL 1b	40 <u>a</u> /	100.0		
2a.	Required to Coordinate	12	20.0	48.0	80.0
Ъ.	By Whom				
	Funding Sources State County Transit Agency AAA/Title III	4 2 2 2 2 2	33.2 16.7 16.7 16.7 16.7		
	TOTAL 2b	12	100.0		
3.	Satisfied with Present Coordination Efforts	15	25.4	44	74.6

a/ May add to more than 26 projects because some projects may use more than one coordination technique.

Table 26 (Continued) IMPROVED TRANSPORTATION SERVICES STUDY Coordination Experiences and Practices 1980

B. Transit Links

		Y	ES	N	10
		Providers	Responding	Providers Respond:	
	Question Coverage	Number	Percent	Number	Percent
3a.	Is Transportation Service Linked to Transit?	15	25.0	45	75.0
ь.	How Linked?				
	As Feeder Service	12	57.1		
	As Interim Service for 504	3	14.3		
Ì	As Added Service to Outlying Areas	4	19.0		
	Receiving Management Technical Assistance	2	9.6		
	TOTAL 3b	21	100.0		

Table 27

IMPROVED TRANSPORTATION SERVICES STUDY

Marketing and Outreach Program

1980

		YES		NO	
		Providers Responding		Providers Responding	
	Question Coverage	Number	Percent	Number	Percent
la.	Have a marketing, Public info., or outreach for Transport Service	46	76.7	14	23.3

la.	Have a marketing, Public info., or outreach for Transport Service	46	76.7	14	23.3
ь.	What methods used:				
	Brochures	32	23.9		
	Television	8	6.0		
1	Radio	24	17.9		
	Newspapers	32	23.9		
	Agency Publicity Response	16	11.9		1
1	Information & Reference	14	10.4		
1	Bill board system	2	1.5		
	Other activities	6	4.5		
	Total - 1.b.	134	100.0		

Table 28

IMPROVED TRANSPORTATION SERVICES STUDY

The Energy Crisis and Transportation Service

1980

		YI	ES		NO
	Ougation Commence	Responding	g Providers	Responding Providers	
	Question Coverage	Number	Percent	Number	Percent
la.	Any impact on transportation service due to fuel list increases	28	46.7	32	53.3
ъ.	What impacts:				
	Number of trips provided Type of trips allowed Type of client allowed Number of clients served	8 5 0 6	42.1 26.3 0 31.6		
	TOTAL	19	100.0		
2.	Experienced gas shortage during fuel crisis of Summer 1979	11	18.3	49	81.7
3.	Decreased volunteers during 1979 fuel crisis	10	16.7	50	83.3
4.	Provided with special fuel entitlement in cast of future crisis	13	21.7	47	78.3
5.	Have developed service contingency plans	18	30.0	42	70.0

Table 29

IMPROVED TRANSPORTATION SERVICES STUDY

Impact of Section 504 of the Rehabilitation Act on Transportation Services as of March 1980

		YES		NO		
		Responding	Responding Providers		Responding Providers	
Question Coverage		Number	Percent	Number	Percent	
1.	Acquainted with 504 Requirements	41	68.3	19	31.7	
2.	Involved in transition planning for U.S. DOT 504 Regulations	21	35.0	39	65.0	
3.	Provider Service will be part of interim Accessible Service	18	30.0	42	70.0	
4.	Other specialized transportation providers will be providing interim accessible services	15	25.0	45	75.0	

Table 30 IMPROVED TRANSPORTATION SERVICES STUDY

Contact between Transportation Providers and State Agency on Aging and Area Agency on Aging 1980

A. Frequency of Contact

No. of Times in Contact (Frequency per Month)	No. of Providers Responding	Percent
No contact reported	8	13.3
1 - 2 times	41	68.3
3-4 times	9	15.0
5 or more times	2	3.4
TOTAL	60	100.0

B. Purpose of Contact

	Purpose of Contact	No. of Providers Responding to Specialized Purpose	Percent
1.	Want to discuss program and exhange information	17	40.4
2.	Monitoring operations and Evaluation Reports	11	26.2
3.	Budgeting, Finances	6	14.3
4.	Coordinating Funding and/or Consolidating Program	2	4.8
5.	Advisory Board	2	4.8
6.	Miscellaneous	4	9.5
	TOTAL	42	100.0

Table 30 (Continued)

IMPROVED TRANSPORTATION SERVICES STUDY

Contract between Transportation Providers and State Agency on Aging and Area Agency on Aging

1980

C. Type of Assistance Received

	Transportation Providers Response in Terms of Assistance From The							
	State Unit on Aging				Area Agency on Aging			
	YES		N	NO		YES	NO	
		% of		% of		% of		% of
Category of Assistance	No.	Providers	No.	Providers	No.	Providers	No.	Providers
 Technical Assistance 	3	5.0	57	95.0	19	31.7	41	68.3
Funding/Budgeting	1	1.7	59	98.3	30	50.0	30	50.0
3. Staffing	0	0	60	100.0	6	10.0	54	90.0
4. Operating the Service	1	1.7	59	98.3	14	23.3	46	76.7
5. Vehicle Specifications	1	1.7	59	98.3	9	15.0	51	85.0
6. Coordinating with Other Agencies	1	1.7	59	98.3	13	21.7	47	78.3
7. Administrative	2	3.3	58	96.7	15	25.0	45	75.0
8. Other	2	3.3	58	96.7	4	6.7	56	93.3

Table 31 IMPROVED TRANSPORTATION SERVICES STUDY

Problem Areas Identified by Transportation Providers

1980

		No. of Trans.	PROBLEM AREA		
	Problem area and Sub-Area	Providers Ident. Specific Problem/ Sub Problem Area	As % of of Total Responses	As % of Providers Surveyed (60)	
1.	Funding a. More funds needed b. Cash flow problems c. "Match" restrictions c. Too low priority to transport by AAA	15 10 2 2 2 1	34.9 	25,0 	
2.	Supply/Demand Problems a. More vehicles needed b. More demand than can be met c. Staffing problems (not enough) d. Need to expand e. Need more volunteers	5 4 2 1	<u>30.2</u> 		
3.	Coordinating Problems a. Coordination restricted by fund sources b. Too much duplication c. Geographic restrictions				
4.	Cost Problems a. High cost of rural services b. Fuel Prices Op. c. Administration of program too costly	3 1 1		8.3	
5.	Miscellaneous a. Need bilingual approach b. Need specialized equipment for handicapped c. 504 Unnecessary d. Need more outreach	1 1 1 1	9.3 	6.7 	
	Total Responses	43	100.0		









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