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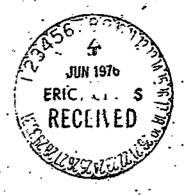
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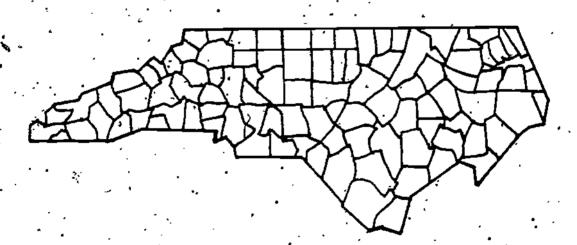
. ABSTRACT

Using the Guttman scale of quality and availability of community services, two mail surveys probing 45 community services via a 1/1000 proportional sample based on the total population in each of North Carolina's 100 counties and a county sample (an average of 88 responses out of 150 questionnaires per county) were ranked by county and social (income, age, education) and demographic (rural-urban) differences. The 46 items of availability and quality vere derived from the following general categories: health, culture, education, jobs, housing, social services, law enforcement, recreation, transportation, economic development, environmental protection; and community involvement. The following issues were rated most critical: availability of public transportation, alcohol and drug rehabilitation, state parks, assistance to disabled and aged, low income housing, and family doctors; quality of job opportunities; control of crime and juvenile delinquency; contribution of tourism to local economy; and effectiveness of land-use planning. In general, those people of lower income and less educational attainment and those in more rural areas perceived most community items as poorer in quality and availability than did those of higher income and/or education. (JC)

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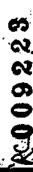


Vol. 8 Peoples' Views on Community Services

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HIGHLIGHTS

All 100 counties in North Carolina are rated by the residents of each county on the availability and quality of 46 community services and opportunities. Scales are provided which show the relationship between availability and/or quality of key community services with the size of county population. The scales and accompanying social and demographic comparisons suggest areas where efforts are needed to improve the quality of life across North Carolina.

by

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INTRODUCTION

The quality and availability of community services throughout North

Carolina could be measured in many ways. One could calculate capital outlays,
location of services, number of people served, distance to services, or economic feasibility of various services. Such information taken separately or in
some combination could reveal valuable information on community services. But,
in all of these approaches, the people would not be asked directly their
appraisal of quality or availability. In this publication a subjective evaluation approach was adopted. People throughout North Carolina were asked to
personally evaluate the quality and availability of services in their local
community. Based on peoples' perception of the quality and availability of
services in each of the 100 North Carolina counties, the counties were ordered
in "quality of services" and "availability of services" scales. County and
socioeconomic variations were also explored.

The purpose of the publication is to stimulate thoughtful discussion concerning the public view of life across North Carolina. Since the data were gathered at only one point in time and the sample in each county only numbers about 88, the information should be viewed with proper reservation. Hopefully, the county scales and the accompanying discussion will stimulate more elaborate studies in the future which will not only indicate the peoples' perception of services but also provide objective information concerning the actual existence of services, the use of services, and the economic feasibility of various community services.

This publication is number eight of nine Volumes of data on North Carolina Today and Tomorrow. Volume 1 contains information on the Western counties; Multi-County Planning Regions A and B. Volume 2 focuses on Regions D and G; Volume 3 on Regions C, E, F; Volume 4 on Regions J, K, L; Volume 5 on Regions H, M, N; Volume 6 on Regions Q and R; Volume 7 on Regions O and P. Volume 9 studies Land Use issues from a state-wide perspective. These publications are available through the County Agricultural Extension Service. Copies may also be obtained by writing directly to the Agricultural Information Service, North Carolina State University, Ricks Hall, Raleigh, North Carolina 27607.

These data were gathered during the Spring of 1975 by means of mail questionnaires. Approximately 150 names were drawn from telephone directories for each of the 100 North Carolina counties. On the average, 88 respondents in each county returned usable questionnaires. Heads of households were requested to complete the questionnaire. Combined with this county sample was a 1/1000 statewide proportional sample based on the total population in each county. A detailed presentation of the number sampled and response rates for both the total county sample and the statewide proportional sample are provided on the last two pages of this publication. Both samples (each clearly indicated) will be used in the following discussion.

GROWTH, DEVELOPMENT, AND COMMUNITY SERVICES

Picture a small town around 1920. The town probably contained a small general store, a restaurant, perhaps a hotel and a few other services. As highways and roads improve, communication systems (telephone, telegraph, newspapers) develop, combined with a gradual increase in population, one would likely see the number and diversity of community services increase. For example, a small industry may locate, speciality stores open, a hospital and schools be established and other diversified activities develop. "Such a process of growth and development in which services continually expand and differentiate has been called urbanization, modernization, and industrialization. These concepts assume the stepwise building of more complex community structures upon simpler structures, the former encompassing the latter. The concepts of development also assume a unidimensional development of services to the extent that certain simple services exist before more complex services can develop. Before a hospital can be established, doctors must be available; before industry can locate, there must be adequate water, electrical, and sewage facilities.

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Developing this idea of the differentiation of community services as populations grow in size, a sample of people in each of the 100 North Carolina counties were asked to assess the availability and quality of services. It was assumed that more heavily populated counties would have greater differentiation of services, that is, have more services available to the people in those counties. It was also assumed that better quality services would be available in more heavily populated counties. The data provided in this publication permitted investigation of these assumptions concerning the extent to which availability and/or quality of services were dependent upon population concentration.

QUALITY OF COMMUNITY SERVICE SCALES

One section of the mail questionnaire asked respondents to rate the quality of 11 community services as poor, fair, good, or excellent. The 11 items included: quality of libraries, quality of elementary and secondary education, quality of county and city law enforcement, quality of state parks, quality of job opportunities, quality of cultural opportunities (crafts, music, drama), overall quality of medical services and facilities, quality of public parks and playgrounds, quality of child-welfare service, quality of highway patrol, and overall quality of recreational facilities. These items are listed in a shortened form across the top of Table 1. A listing of the 46 items included in the community section of the questionnaire are provided and discussed in Tables 4 through 8 of this publication.

The 100 North Carolina counties are listed in the left hand column of Table 1. The number that appears beside the county is the population density rank. For example, Mecklenburg County is the most densely populated county in North Carolina and received a rank of 1; Hyde County is the least populated county (people per square mile) and received a rank of 100.

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Table E. Guttmen scale of quality of community services for 400 North Carolina Counties.

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^{**}Counties ranked from most densely populated (i) to least densely populated (100),

**X = 50 percent or more respondents said the quality of community services were good or excellent.

O or blank * less than 50 percent of respondents esid the quality of community services were good or excellent.

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In order to assess whether the majority of people in more heavily populated counties perceived the quality of their services as good or excellent in comparison with people in less populated counties, the following procedure was adopted. If 50 percent or more of the respondents within a county indicated the quality of a particular service or opportunity was good or excellent, the county was accredited (given an X) with possession of quality services on that step of the guttman scale. If less than 50 percent said good or excellent, the item was given a 0 or blank for that county. For one of the eleven items (Quality of the highway patrol), over 50 percent of the respondents from all 100 counties indicated quality service. On another item (Quality of job opportunities), in no county did'50 percent of respondents indicate quality opportunities. Thus, these two items were excluded because they did not meet the criteria for inclusion of items. The other nine items are reported in Table 1. The coefficient of reproducibility and the coefficient of scalability were above the conventional criteria of .90 and .65 respectively. In terms of internal validity, the scale was quite encouraging. However, since this scale provided only a limited number and kinds of services and has not been tested at different points in time, the results can only be presented as descriptive of the potential for such scales in assessing quality of life from the peoples' perspective.

Discussion of guttman scaling and the criteria for developing scales can be found in: Allen Edwards, <u>Techniques of Attitude Scale Construction</u>. New York: Appleton-Century-Crofts, Inc., 1957; Sergip Sismondo, "A concept not a proxy: the meaning and messurement of differentiation," New Brunswick Newstart, Inc. Canada (R-73-133); Frank and Ruth Young, "The sequence and direction of community growth: a cross cultural generalization," <u>Rural Sociology</u> 27(4): 374-386.

The meaning of the Table can be more easily understood if one starts at the bottom of the page in Table 1 at Step 1. In step one, 20 counties were. listed in which the majority of the respondents from these counties did not indicate that these 9 items (libraries, education, law enforcement, etc.) were good or excellent. Thus, no "X's" appeared. In Step 2, 20 counties were listed in which 50 or more percent of the county respondents indicated that the quality of libraries were good or excellent. However, they did not rate the other nine items in this manner. In Step 3, 21 counties were listed in which the majority of the respondents said that both the quality of libraries. and the quality of primary and secondary education was good or excellent. In Step 4, 11 counties were listed in which respondents in these counties rated the quality of libraries, education, and law enforcement as good or excellent. In Step 5, 9 counties were listed in which the majority of respondents rated libraries, education, law enforcement, and medical facilities as good or excellent. One could keep going up the scale in the same manner. It appears from the unidimensional order of the response that before people saw the quality of schools as good or excellent, they saw libraries as good or excell-In like manmer, before the majority of respondents perceived the quality of law enforcement as good or excellent, they perceived the quality of both libraries and education as good or excellent. This illustrated how the quality of services build one upon the other.

In order to see how the peoples' perception of the quality of various services relate to population density, one can compare the ranking of counties with the perception of quality. Inspection of Table 1 reveals that 71 of the 100 counties appear in Step one, two or three. Of these 71 counties, only 5 of the 25 most densely populated counties appear, while 24 of the 25 least populated counties appear. While several exceptions exist (e.g., a very

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sparsely populated county appeared in Step 9 and a very densely populated county appeared in Step 2), more densely populated counties seem to have consistently higher quality services from the perspective of people living in those counties.

AVAILABILITY OF COMMUNITY SERVICES

In selecting the "quality" items to be used in the questionnaire the rational was to select items presumed to be available in communities. For example, educational facilities and libraries were available in all counties and an investigation of the quality of these services seemed of greater importance. However, for some items, this assumption could not be made. Thus, a second scale was developed on the availability of various services.

Ten items were selected to assess the unidimensionality of the availability of community services (Table 2). Some of the items were comparable to items included in the "quality" scale (e.g., libraries, medical facilities, public parks, culture). However, for other items like availability of food stamps, dentists, and apartments, the quality of these items seemed of less importance than their presence in a community. In Table 2, across the top of the page 10 items are listed. The exact wording for the ten items were: availability of libraries, availability of food stamp program, contribution of industry to local economy, availability of dentists, availability of medical facilities, availability of rental apartments, availability of cultural opportunities (crafts, music, drama), availability of family doctors, availability of public parks and playgrounds, availability of child-care centers. Again, down the left hand side of the page were the 100 North Carolina counties and their population density rank.

Table 2 Gottman scale of availability of community services for 100 North Carolina Counties.

		-			ALABILITY	OP ČOMENNITY	SERVICES**					
Emmi* Population Density	COUNTIES	LIBRARIES	1000 STANDS	INUSTRY	DESTISTS	PACILITIES	APARTMINIS	CULTULE	PARTLY DOCTORS	PUBLIC PARKS	CARE	<u>saros s</u>
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^{*}Counties ranked from most densely populated (1) to least densely populated (100).

**X = 50 percent or more respondents said the availability of community services were good or excellent.

O or blank = Less than 50 percent of respondents said the availability of community services were good or excellent.

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The procedure for interpreting Table 2 was the same as for Table 1. If 50 percent or more respondents in a particular county indicated that, the availability of a service or opportunity was good or excellent the item was given an "X". If less than 50 percent were perceived the availability as good or excellent, the item was given an "O" or blank.

In Step 1 at the bottom right hand corner of Table 2, 14 counties were listed in which less than the majority of respondents indicated availability of any service or opportunity as good or excellent. Step 2 included 16 counties in which the majority of respondents perceived the availability of libraries as good or excellent but did not perceive any other services or opportunities as good or excellent. In Step 3, respondents in 25 counties perceived as good or excellent the availability of both libraries and food stamp programs. It was interesting to note that objectively, libraries and food stamp programs existed in all 100 counties. Obviously, in many counties the public did not perceive this availability. One could keep going up the steps and observe how perception of the availability of services expanded and differentiated.

Comparing availability of services to the population concentration in the 100 counties, more heavily populated counties have more services available from the general public's perspective. In Table 2, only 1 of the 25 more densely populated counties appeared in steps one to three while 25 of 25 least gopulated counties appeared. Thus, availability of services seemed more closely related to population density than quality of services.

A statistical interpretation of these relationships is provided on the next page. This page may be skipped by those wishing to get to the next section on how to use these scales and what they mean in relation to other socioeconomic and demographic comparisons.



COUNTY POPULATION, QUALITY AND AVAILABILITY: A Statistical Interpretation ...

In order to provide a statistical interpretation of the relationships between county population, availability of community services, and quality of community services, scale scores were calculated for each county. Pearson correlation coefficients were then derived for the relationship between actual county population density (persons/square mile), quality of community service scores and availability of service scores (table 3). Kendall Taus' (in parentheses) were calculated between county population density rank, quality of community service scores and availability of community service scores.

	Table 3:	Correlation Matrix							
		а		- <u>}</u> c					
a.	Density		(.51)	(.55)					
b.	Quality	. 53		(.65)					
с.	.Availabili	£\$.72	.86	•					

The strength of the relationships between density and the availability of services and between density and quality of services were fairly strong. The earlier noted claim for the dependence of availability of services upon the degree of population concentration was supported by the strong correlation coefficient (r=.72). This accounted for 52 percent of the explained variance. The claim for the dependence of quality of community services upon population concentration was also supported although the correlation coefficient (r=.53) was not as strong as that between availability and density.

The relationship between availability and quality of services has to be interpreted with caution. Although several of the community service items in Table 1 and 2 were comparable and appeared in the same sequence, all were not identical. Thus, the very strong correlation coefficient (r=.86) between availability scores and quality scores only implies a strong relationship between scores and not between the availability and quality of a specific service.

USE OF SCALES

These types of scales suggest several practical implications. Often the community or state worker wishes to improve the quality or availability of services in vertain counties. Such scales as outlined here could provide practical examples of where to start (f.e., where the "X's" run out or where "O's" appear). This point is quite important and requires some elaboration. First, what do the "O's" mean? If these were perfect scales, all "O's" should be "X's". This means that "O's" on particular community items are areas most susceptible to improvement and development. This can indicate areas where educational programs of awareness would most likely be successful. It can also raise questions of why people do not perceive the service or opportunity as good or excellent.

Second, the services on the scale occurring where the "X's" run out across the page indicate areas which are next ready for improvement and development. For example, in Mecklenburg County (Table 1, 14th county down) an "O" appears in the quality of education items. This raises questions concerning the cause of this lower evaluation and indicates an area where improvement should be relatively easy to achieve. In the same county, the "X's" run out with the culture item. This indicates that public parks as an item should be the next logical area to improve. Again, in Mecklenburg County, one sees several blanks then an "X" under child care. This can indicate that the two community services in between (public parks and recreation) should improve in the public's perception over the next few years or that the majority of the public in this county will no longer see child care as good or excellent. Remember, this approach is based on the assumption of the stepwise building of services and the situational constraints which may exist within a county may foil the logical continuity of such a scaling approach.

Another way to use these scales is to compare the actual existence of various services to the peoples' perception of the quality and/or availability of such services. The scales describe what is perceived as being available and not what in fact is available. For example, libraries, educational facilities, law enforcement, public parks, food stamp programs and other services are available in all 100 North colina counties. Obviously, in many counties the majority of people do not perceive their availability as good or excellent. The previously noted relationship between availability scores and quality scores suggests that, if the people do not perceive availability of services, they will not perceive quality of services. Thus, with appropriate objective information, such perceptual data could indicate a particular county's success in getting services to the general public. It could be used as both an evaluative measure and a developmental barometer.

SOCIAL AND DEMOGRAPHIC INFLUENCES

Thus far the discussion has focused on the 100 North Carolina counties and how people in these counties perceive the quality of nine community services and the availability of eleven community services. In the study 46 community items were included. Table 4 shows responses on all the community items. In the last two columns county examples are provided to show the considerable variation in how respondents from different counties perceived the quality and availability of different community services and issues. For example, only 19 percent of the respondents in Orange County perceive the availability of public transportation as poor (first item Table 4). In Avery County, 89 percent perceived the availability of public transportation as poor. By looking at the county examples one can see that on most issues counties vary by more than 50 percent. On some issues it gets up to 80 percent differences.

You will recall that four responses were available to respondents: poor, fair, good, excellent. Table 4 presents the percentage response for each community item for these responses. In the following tables, information will be provided on the percent of people who perceive different services and issues as poor. This approach allows one to see the community services from a problem perspective. This helps to highlight critical areas of community concern. The category poor is an extreme response and people who use this category usually feel strongly that something is wrong. From a statewide perspective the following 10 issues were rated as the more critical problem areas:

- 1. Availability of public transportation
- 2. Quality of job opportunities
- 3. Availability of alcohol and drug rehabilitation service
- 4. Contribution of tourism to local economy
- 7. Avatlability of state parks
- 6. Effectiveness of land-use planning
- 7. Availability of assistance to aged and disabled
- 8. Availability of low income housing
- 9. Control of crime and juvenile delinquency
- 10. Availability of family doctors

With this as a background, we can now proceed to look at social. (income, education, and age) and demographic (rural-urban) differences. The data for the following tables are based upon the statewide proportional sample. For example, of the 3054 respondents, 200 are from Mecklenburg County and 6 are from Hyde County (see last two pages of this publication for greater detail).

Table 4: North Carolinians' evaluations of community services.

	,	•		Examples of Count	-
VAILABILITY OF COMMUNITY SERVICES	GOOD OR EXCELLENT	FATR	1700R	7. Said p	OOK
vailability of public transportation	15%	31%	54%	Orange 19%	Avery 89%
vailability of alcohol and drug rehabilitation	1314	51,0	3-770	•	
	29	37	34	Durham 5%	. Swa tn - 76%
servicevaile lity of acate parks	30	34	36	Stanly 5%	Gat es 85%
vailability of assistance for aged and disabled	26	48	26	Durham 9%	bare 51%
vailability of low income housing	29	38	33	Richmond 15%	Tyrrell 83%
vailability of family doctors:	34	33	33	Henderson 7%	Gates 90%
vailability of mental health services	. 35	38	. 27	Durham 6%	Hyde 80%
vailability of public parks & playgrounds	33.	34	33	Macon 10%	Gates 87%
vailability of job training	33	40	27	Durham 10%	Ilyde 75%
vailability of cultural opportunities	36	37	27	Henderson 4%	Brunswick 71
vailability of special education programs	34	43	23	Picc 10%	Dare 60%
vailability of child care centers	36	42	23	Durham 8%	Gates 85%
vallability of public kindergarten programs		43 .	. 21 .	Alloghany 3%	Avery 43%
vailability of middle income housing	. 37	44	19	Forsyth 2%	Swain 56%
vailability of rental apartments	42	32	26	Foreyth 4%	Clay 87%
vailability of dentists	49	32	19	linywood 6%	Tyrrell 93%
vailability of medical facilities	47	32	21	Henderson 1%	Gates 81%
vailability of food stamp program.	53	36,	11	Lee 2%	Brunswick 21
vailability of libraries	6 1	29 `	10	Randolph 1%	Onelow 39%
UALITY OF COMMUNITY SERVICES				į	
uality of job opportunities	24	40	36	Durham 14%	Gates 80% ·
unlity of public parks and playgrounds	35	-36	29	Macon 10%	Gates 80%
verall quality of recreational facilities	35	39	26	Macon 7%	Gates 77%
uality of cultural opportunities	35	40	25	Henderson 4%	11yda 65%
ondition of streets and roads	40	44	16	Gates 4%	Brunswick 47
uality of state parks	43	35	22	Stanly 4%	Gatos 73%
uality of child-walfare services	37. 46	50 36	13 18	Columbus 4% Honderson 3%	Brunswick 44 Hyde 76%
uality of county and city law enforcement	49		15	Foreyth 4%	Gatos 48%
uality of elementary and secondary education	. 53	36 35	12	Union 2%	Washington 2
ondition of highways."	57	34	9 .	Picc 17	Brunswick 45
uality of hibraries	62	29	9	Wilhes 1%	llydc 45%
hality of highway patrol	72	24	4	Nortford 0%	Jackaon 17%

	GOOD OR			Examples of Counc	-
OTHER COMMUNITY ISSUES	<u>excellent</u>	FAIR POO	<u>)R</u> .	LOW COUNTY	HIGH COUNTY
Contribution of tourism to local economy Effectiveness of land-use planning Control of crime and juvenile delinquency	26% . * 24 28	39% 35 50 20 43 29	•	Daro 2% Nash 4% Asho 12%	Hoke 73% Avery 51% Gaston 60%
Opportunity of citizen participation in community decisions.	*· 30	421 28	•	`Orange 10%	Clay 46
Effectiveness of water pollution controls Efforts to protect, the natural environment	2 <u>%</u> 29	47 25 +48 25	3	Nash 4% Nash 5%	Graham 58% ` Mitchell 44%
Effectiveness of air pollution controls Effectiveness of land-use controls (zoning)	31 31	45 . 24	3	Guilford 12% Cleveland 7%	Tyrrell 50% Graham 59%
Opportunity for membership in community	· ³⁰ ·	49 2	•	llaywood 4%	Daro 58% Tyfroll 37%
Contribution of small business to local economy Community spirit and pride	44	39° 17 40° 10 37° 14	6	Loc 6% Loc 3% Nach 4%	Tyrrell 41% Tyrrell 33%
Contribution of agriculture to local aconomy Contribution of industry to local aconomy	48 53	40 1: 34 1:	2	Nach 1% Nach 1%	Daro 73%. Nyde 74%

Copies may be obtained from the Agricultural Extension Service. Agricultural Information Department, Ricks Hall, North Carolina State University, Raleigh, North Carolina 27607.

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^{*}Individual county data is available in Volumes 1 to 7 of NORTH CAROLINA TODAY AND TONORROW.

Tables 5, 6, 7, and 8 provide information on the percent of respondents across the State according to level of income, education, age, and rural urban location who said that particular services were poor. In the earlier part of this publication, information was provided on the percent who said the quality or availability of a community service or opportunity was good or excellent. Now the information is provided according to a problem perspective and thus the percent who evaluated items as poor are included in the Table. For example, if 20 percent feel that a particular service is poor then 80 percent feel it is fair, good or excellent. Rather than going through each table item by item according to income, education, age and rural-urban location, the following presents a brief summary of the four tables according to 12 community dimensions. The items are not ordered according to the relative seriousness of the problem area but as they appeared in the questionnaire.

Health: Those of lower income, less educational attainment and particularly those in more rural areas see health as a more serious problem. There seems to be little variation according to age.

<u>Culture</u>: Variations according to income, education, age and rural-urban were small. People of lower income, less education, younger, and more rural seemed a bit more concerned.

Education: Younger people asw the availability and quality of educational programs as a slightly more serious problem than older people. Other differences were minor.

Jobs: The items were clearly of greater concern to lower income, lower education, younger and more rural people.

Housing and Social Services: The items in both of these dimensions were of greater concern to lower income, lower education, and more rural people.

Age had little effect.

<u>Law Enforcement</u>: Few differences were apparent between the different levels of income, education, age, and location.

Recreation: These items were of greater concern to lower income, lower education, and more rural people. Age had little effect.

Transportation: Items in this area were perceived as a more serious problem by people in more rural areas. Income, education, and age had little effect.

Economic Development: Items of greater concern to those of lower income and lower educational attainment. Age had little effect. Those in rural areas were more concerned about agriculture and those in more urban areas were more concerned about industry.

Environmental Protection: No consistent trends were apparent according to income, education.

Community Involvement: Those of lower income and those with less educational attainment appeared more removed from community life. Age and rural-urban location did not have much of an influence.

In general, those of lower income and less educational attainment and those in more rural areas perceived most community items as poorer in quality and availability than those of higher income or education. Younger people seemed to rate community services as poorer than older people for some items but on over three-fourths of the items age made little difference. This is a very brief summary of social and demographic variations on the 46 items. Considerable insight can be gained by spending some time and studying the tables item by item.

Table 5: Percent who perceive the availability and quality of the following community services as peer according to income level.

Community Dimension Icoms	4.4	Lose than \$3,000 (225) .	3,000 to \$5,999 (292)	6,000 to \$9,999 <u>(553)</u>	10,000 to \$14,999 	15,000 to \$24,999 	\$25,900+	Percentage Point Range	
HEALTH	• •			,					
	cilities	30%	29%	˙ 27%	20%	16%	10%	-20	
Availability of family doc	tors	• 39	45	36	1 34	30	22	-17.	
Availability of dontists		25	25	25	20	12	11	-14.	•
	Ith services,	28	32	31	28	22	'` 18	, -10	
		37	34	38	30	26	21	-16	
	services and facilities	26	23	22	, 16 .	12	' 9	-17	
CULTURE	• •				; \	•	•	* '	
	* • • • • • • • • • • • • • • • • • • •	12	16	14	٠ 9	8	6	6	
Quality of libraries	********	11	13	- 11	Ž	7	9	*	
	pportunities (crafts, music, 🗡				.)				
		33	32	. 35	26	26	18	· -1 5	N
Quality of cultural opport	unities	30	28	31	24 .	22	15.	-15	20
EDUCATION -			•	•					
Quality of elementary and	socondary education	9	11	13	10	13	15	+ 6	
Availability of public kin	dergarten programe	19	17	25	23	19	22	. *	
	ucation programs	22	22	27	23	20	24	* _	
JOBS		*				'w			
	ng	36	36	33	24	22	17	-19	
Quality of Job opportuniti	.08	50	48	1.42	35	28	· 21	-29	
HOUSING		ŧ	•						
	· Namedon	2 7	42	40	30	25	20	-27	
Availability of 100 income	housing	28 .	24	23	18	13	10	-18	
	rtments	36	32	31	24	18	ið.	-18	
Transfer of the second	~	50	-	,			40,	-10	
SOCIAL SERVICES		,	\$4			_	_		
	ervices	21	14	18	12	. 8	.?	-14	
	for aged and disabled	36	₩34	32	23	22	11	-25	
Availability of food abamp	program	22	17	14	. 10	, ,	. 4	-10	
Availability of child-card	centera	29	28	. 27	22	` 19	19	10	

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	-0.	• *	•		_		
LAW ENFORCEMENT	, '			•	*	•	-
Quality of county and city law enforcement	r6	, 18	19	14	. 10	14	*
Control of crime and juvenile delinquency	35	34	33	. 26	24 .	24	-11
Quality of highway patrol	6	5	4.	. 4	4	2	♦
(40000) Particular (40000)		• -		•	•.		
RECREATION		٠,.	*				
- Availability of public parks and playgrounds	35.	36	40	32	32	έl	-14
Quality of public parks and playgrounds	30	36	35	28	26	20	-10 ·
Availability of state parks	36	. 40	41 .	33 .	-37	29	- 7
Quelity of state parks	26	. 25		20 •	19	13	-13
Oursell couldby of second-blood Feedlibles	34.	35	28 31	25	21	14	-20
Overall quality of recreational facilities	. 54	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	71	4.5	••	• • •	#0
ma a sanaha angasi		r					
TRANSPORTATION	22 .*	24	16	15	. 14	11	-11
Condition of streets and roads	–		10	*2	, 14	10	-11
Condition of highwaye	1111	1,3			50	27	+ 7
Availability of public transportation	47	53	- 53	57	58	54	Ψ /
	1						
ECONOMIC DEVELOPMENT.						•	٠.,
. Contribution of small buginess to local oconomy,	22	24	21	14	11	B	-14
Contribution of industry to local beonomy	24	21	15	l ii	8	7	-17
Cantribution of agriculture to local economy		16 -	12	9	11	10	- 6
Contribution of forestry to local economy	. 28	22 `	. ,21	20	22	19	- 9
Contribution of tourism to local economy	40	36	140	35	35	28	-12
			•		•	/ T	
ENVIRONMENTAL PROTECTION .	•	_	•			\ ;	
Effectiveness of sir poliution controls	32	31	. 26	23	22	17	~15
Effectiveness of water pollution controls	29	29`	-27	24	23	20	9
Effectiveness of land-use planning	28	29	26	23	29	24	*
Effectiveness of land-use controls (zoning, building			•	•	,	•	
and health codes (atc.)	24	24	22	21	26	24 '	*
· Efforts to protect the natural environment	22	29	24	22	25	19	*
Efforts to biocee the management of the second	,	,			W ((
COMMUNITY INVOLVENENT		•		•	98 ² 1		
Opportunity of citizen participation in community						÷ ·	
	26	35	33 .	28 .	25	19	. 9
decisions	40	33	JJ .	20 ,		·	
Opportunity for membership in community	22	23.4	: 23	: 16	10	,	-15
organizationa	22,		19	16	11		-12
Community apirit and pride	į. 20	. 12	13	10	**	a	-11

"This indicates that percentege point range between the categories is ices than 5 percent so that no epparant trond is observable. "A CAL indicates of greater concern to those of higher indome and s (") indicates greater concern to those of lower income.

Table 6: Percent who perceive the availability and quality of the following community services as poor according to aducational attainment.

Community Dimension	Grade School (404)		Collaga (884)	Higher Degrae	Percentage Point Range
Availability of medical facilities	29 ' 44 32 · · 36 41 26	23 35 19 29 34	19 31 16 22 26 *-	13 26 12 20 19 10	-16 -18 -20 -16 -22 -16
CULTURE Availability of libraries	13	10	10	10	*
	11	8	9	10	*
	34	28	26	24	-10
	29	27	22	20	- 9
EDUCATION Quality of elementary and socondary education	11	10	14	16	* 22
	19	19	23	25	* 6
	22	22	24	22 ;	* .
JOBS Availability of Job training	33	29	25	19	-14
	45	- 41	32	25	-20
HOUSING Availability of low income housing	43	35	27	27	" ~16
	28	20	16	13	-15
	33		20	19	-14
SOCIAL SERVICES Quality of child-wolfare services	18	13	11	10	- 8
	34	30	21	17	-17
	19.	12	38	8	- 8
	28	24	20	18	-10

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	Notes that the second s					-	
	Quality of county and city law snforcement	16		17	4.6	0	- 7
	Control of crime and juvenile delinquency	32		. 31	. 26	22	-iô
	Quality of highway patrol	- 5		· • • •	3		*
		•			-	•	
	RECREATION	,		•	•	•	
	Availability of public parks and playgrounds	39		36	30	25	-14
	Quality of public parks and playgrounds	36		. 33	. 25	21	-15
	Availability of state parks	41		38	33	30	-11
	Quality of state parks	28		25	18	14	-14
	Overall quality of recreational facilities	32	٠	31	20	15	-17
	•					•	
	TRANSPORTATION .			<u>.</u> .	• • •		
	Condition of streets and roads	22		1 g	13	13 0	- 9
	Condition of highways	11			7	- 6	***
•	Availability of public transportation	52		. 24	56	. 56	₩.
	ECONOMIC DEVELOPMENT				•		
	Contribution of small business to local economy	22	•	17	12	´ 11	-11
	Contribution of industry to local economy	19		14	10	10	
	Contribution of agriculture to local economy	14		11	12	12 }	, " (W
	Contribution of forestry to local economy	22		19	23	24	*
	Contribution of tourism to local economy:	36		37	35	29	- 7
	. "> +	. 55		٠.			•
	ENVIRONMENTAL PROTECTION					•	, ,
	Effectiveness of air pollution controls	31		23	23	23	- \$
	Effectiveness of water pollution controls,	30		23	25	26	*
•	. Effectiveness of land-use planning. :	27	•	23	27	· 33	+ 6
	Effectiveness of land-use controls (zoning, building and health				-		
	codes. ete.)	23		2Q	24 .	30	+ 7
¢	Efforts, to protect the natural environment	25		21	23	· 28	*
	AAAA AAAA AAAA AAAA AAAA AAAAA AAAAA AAAA			•		•	
	Opportunity of citizen participation in community decisions	30	•	31	26	22	9
	Opportunity of citizen participation in community decisions Opportunity for membership in community organizations	30 24-		19	16	44	- 0 - 1 \$
	Community spirit and pride	19 .		14	13	าจ์	- 4
	commutel observ and brenders	13	. '	1.4	13	1.5	- 0

*This indicates that percentage point range between the categories is less than 5 percent or that no apparent trend is observable. A (+) indicates of greater concern to those of higher educational attainment and a (-) indicates greater concern to those of lower educational attainment.

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Table 7: Percent who perceive the availability and quality of the following community services as poor according to age.

	Community Dimension	Under 30 (551)	30-39 (608)	40-59 (1141)	60+ (<u>585)</u>	Parcentage Point Range
1	HEALTH	,	·		20	
•	Availability of medical facilities	23	20 33	21 33	20 25	*
	Availability of Family doctors	31	33 16		. 33	
	Availability of dentista	17		20 · 26	22 25	
	Availability of mental-health services	27	26	20 30	. 30	• • • • • • • • • • • • • • • • • • • •
•	Availability of alcohol & drug rehabilitation services	32 .	28	30 17	30	<u>.</u>
	Overall quality of medical services and facilities	18	18	17	17	•
	CULTURE			·	•	
	Availability of libraries	14 .	10	8	7	-7 ·
•	Quality of librarica	12	10	8	6	-6
N		32	29	27	20	-12
Öğ.	Quality of cultural opportunities	25	26	24	20	* '
O,						
•	EDUCATION					•
	Quality of elementary and accondgry oducation	14	13	12	7	-7
	Aveilability of public kindergatten programs	25 ⋅	25	19	17	-8 22
	Availability of special education programs,	28		19 '	17	-11
		•	***		•	
	JOBS -	. *		•		•
	Availability of lob training	.92 ~	26	• •26	23	4 9
	Quality of job opportunities	44	36	35	. 32	-12
	danta, or loo obbarrantation	•	34			
	HOUSING	•	•		•	
	Availability of low income housing	32	31	` `32	37	* *
	Availability of middle income housing	18	18	19	20 •	*
	Availability of rental apartments	21	26	26	. 26	*
	Aveliability. Dr. remeal apartments	. **			•••	
	SOCIAL SERVICES	•	•		•	
		* 16	il	11	15	*
	Quality of child-welfare services		25	25	26	•
•	Availability of food atamp program	14	8 */	. 10	13	
•	Availability of child-care centers	23 '	21	23	23	*
	"MAGITARITIES OF FULFACE CONFESSIONS OF MANAGEMENT AND ASSESSMENT OF THE PROPERTY OF THE PROPE	43	4.4	4.3		

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	LAW ENFORCEMENT	٠.						, A.				
•	Quality of county and city law enforcement		20 '		~14			13		12 ′	` . -	. в
٠	Control of crime and juvenile delinquancy	`.	27		27	•	` •	29.	· . •	30	•	*
	Quality of highway patrol		4		3			5		3		* .
-				• • •		•						_
	RECREATION			. 4	,				٠,			
	Availability of public parks and playgrounds	•	36	-77	34			32	-	.26	-	10
	Quality of public parks and playgrounds		30		29	.		31		22		. 8
	Availability of state parks		36		37-	A 15	•	36		34		*
	Quality of state parks		20		. 23			22		19	•	*
	Overall quelity of recreational facilities		30		24	• • 🖺 🕆	y F	26		22		, g .
						,	•			•	•	
	TRANSPORTATION						•					
	Condition of streets and roads		17		16			ĺ6.		15		*
	Condition of highways		8		8			`8		9 `	•	*
	Availability of public transportstion	•	52		58	_		55 - 1	,	48		*
						•	•	•	•			
	ECONOMIC DEVELOPMENT											
	Contribution of small business to local economy		13		. 15	•		16		19	• 4	+ 6
	Contribution of industry to local economy		13		13			13		<u>. 11</u>		* .
•	Contribution of agriculture to local economy		13	*	.11			12		12		* (
)	Contribution of forestry to local sconomy	•	25		18			21		20		*
	Contribution of tourism to local economy		38		39			33	•	32 ,		- 6
								.				
	ENVIRONMENTAL PROTECTION				.	•					• .	
	Effectiveness of air pollution controls		22	`	23		5	25		25		*
	Effectiveness of water pollution controls.		24		23			27		24	-	*
	Effectiveness of land-use planning	• •	26		24			28		24		*
	Effectiveness of land-use controls (zoning, building and health			•	•		-		_			
	codes, etc.)	•	19	•	23			25		20	'	*
	Efforts to protect the natural environment		22		22			25		21		`*
				•				•	1	-		
	COMMUNITY INVOLVEDENT					•						
	Opportunity of citized participation in community decisions		29		₽ 27		4.4	29		24		*
	Opportunity for memberable in community organizations		19	,	14		•	18		13		- 6
	Community apirit and pride it is in the community apirit and it is in the community apirity apir		17		15	er.	.'	14		9		- 8
١.			_	* A		۲.				,		

*This indicates that percentage point range between the categories is less than 5 percent or that no apparent trond is observable. A (+) indicates of greater concern to older respondents and a (-) indicates greater concern to younger respondents.

Table 8: Percent who perceive the availability and quality of the following combunity services as poor according to the size of community.

Community Dimension Items	Farm (378)	Town loss than 10,000 (1,002)	City 10,000- 50,000 	Larger City 50,000+ (676)	Percentage Point Range
HEALTH	66.	•			•
	31%	297	16%	8%	-23
Availability of madical facilities	43	- 41 /	29	. 20	- 23
Availability of dentiets	29 .	27 v	. 14	6	• 23
Availability of mental-health services	-32	38	19	14	-18
Aveilability of alcohol and drug rehabilitation survices	38	43	23	12	•26
Overall quality of medical services and facilities		24	14	-6	-21
CULTURE	- <i>.</i>				
Availability of librarian	12	13	9	6	- 6 1
Quality of libraries	: 10	12	6	6 .	•
Aveilability of cultural opportunities (crafts, music, drama)		38	23	. 13	-17 *
Quality of cultural opportunities	28	35	22	10	-18
EDUCATION	<i>.</i> .	•		•	
Quality, of elementary and accondary aducation	10	. 10	11 •	14	*
Availability of public kindergartenegrograms		22	20	22 .	* ,
Availability of special education programs	24	29	- 18	. 17 .	- 7
JOBS					• `
Availability of job training	29	36	23	17	•=22
Quality af job opportunities	39	47 -	32	22	· · •17
danted of lon obborroustration of the state	•		7-		
HOUSING		•	•	•	
Availability of low income housing	37 -	45	÷ 27	-18	-19
Availability of middle income housing	24	25	17	9	•15
Availability of rental apartments	33	n 40	18	7	- 26
SOCIAL SERVICES					
Quality of child-welfars services	13	18	10	7 .	• 6 .
Availability of assistance for aged and disabled	29	32	25 .	16 , .	-13°
Availability of food atamp program	īi	15	è	10	*
Availability of child-care centers	.25	33	- 19	8	•17
		•••	,, -,	-	

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Quality of tounty and tity lew enfortement	
RECREATION 5 4 4	- 9
RECREATION Availability of public parks and playgrounds	- 7
Availability of public parks and playgrounds	*
Quality of public parks and playgrounds	
Quality of public parks and playgrounds	423
Availability of atata parks	į -22
Overall quality of ratreational fatilities	16
TRANSPORTATION	-16
	-16
Condition of streets and roads	*
Condition of highways 6 6	·· 7
Availability of public transportation	-15
ECONOMIC DEVELOPMENT	
Contribution of small busintss to local etonomy	- 6
Contribution of industry to lotal etonomy	- 8
Contribution of agriculture to lotal economy 9 12 11 15	+ 6
Contribution of formstry to local economy	+15
Contribution of tourism to lotal etonomy	-15
ENVIRONMENTAL PROTECTION	
Effectiveness of air pollution tontrols	- 4
Effectiveness of water pollution controls	-10
Effectiveness of land-use planning	*
Effectiveness of land-use controls (zoning, building and	
health todge, ett.)	4.6
Efforts to protect the natural environment	. *
PIACLES CO Procede cus swedge anytromane	
CONNUMNITY INVOLVEMENT	
Opportunity of titizen pertitipation in community detiaions 31 29 27 27	. *
Opportunity for membership in community organizations 20 18 15 15 16	*
. Community spirit and pride	+ 8

*This indicates that pertentage point range between the tetagories is less than 5 percent of that no apparent trend is observable. A (+) indicates of greater toutern to rural areas.

SAMPLE AND DATA COLLECTION 5

During the Spring of 1975, a state-wide survey was conducted in North Carolina. A mail questionnaire was sent to randomly selected individuals throughout the State. In order to have a sample proportional to the State's population and a sample of sufficient size for county comparisons, two sets of data were developed.

First a 1/1000 sample of the total population was drawn from telephone directories for all counties. For example, Dare County had approximately 7,000 people according to the 1970 census while Guilford County had approximately 289,000 people. Thus, 7 respondents were randomly blected from telephone lists for Dare County and 289 from telephone lists for Guilford County. A statement on the questionnaire requested that the survey be completed by the head of the household. In all, 5,082 respondents were selected for the state proportional sample. Some 578 of these respondents were inaccessible because they had moved out of State, had moved with no forwarding address, were deceased, blind, disabled, or unable to be contacted either by mail or by follow-up telephone calls. These 578 inaccessible respondents were eliminated from the sample. Of the remaining 4,502 potential respondents for the state-wide proportional sample, 3,054 returned usable questionnaires for a response rate of 68 percent. This data set was used whenever reference was made to the State.

Second, in order to make the information more meaningful at the county level, an oversampling procedure was employed. All counties in the State, regardless of population size, had a minimum of 150 respondents drawn from telephone lists for each county. For example, Dare County had 7 respondents sampled for the state-wide proportional sample plus 143 respondents added in the oversample to achieve the minimum county sample size of 150. There was no oversample in Guilford County since the proportional sample exceeded 150. Thus, the combined state proportional sample and the county oversample yielded a total sample of 15,548. Because many of these respondents were inaccessible for the aforementioned reasons, the total number of potential respondents for the total sample was 13,551. Of these 13,551 potential respondents, 8,882 respondents returned usable questionnaires for a response rate of 66 percent. This data set was used for county comparisons.

The next page describes the number of potential respondents (150 minus number inaccessible) for each county, the number of usable questionnaires returned, county response rates, and number which were included in the state proportional sample. It should be noted that the state proportional sample was given special emphasis in follow-ups. Because of this emphasis, the state proportional sample had a slightly higher response rate:

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More detailed presentations are available in the following articles: James A. Christenson, "A procedure for conducting mail surveys with the general public." Journal of the Community Development Society 6(#1)135-146, 1975; Don A Dillman, James A. Christenson, Edwin Carpenter and Ralph Brooks, "Increasing mail questionnaire response: a four state comparison." American Sociological Review 39 (October): 744-756, 1974.

Table 13: Response rate for counties in North Carolina and number of responses used in statewide proportional sample.

	COUNTY SAMPLE COUNTY SAMPLE														
•	COUN	ry SA	MATE	٠ يە .	• -	COUN	ry sa	MPLE						ىد -	
•	, 1t 3*		. •	np10**		, * °		' - '.	in Sampla**	•	, , , , , , , , , , , , , , , , , , ,		4	. in Sample***	
COUNTY	-	Number Returned	**	Number in State Sampl	COUNTY	Potential Respondents	Numbar Rocurned	~ 2	Number in State Sam	COUNTY	Potential Responden	Number Returned	**	Numbor in State Sam	
MARANTE	; 120	69	. 58	52) haugs, so	128	1- 75	59	17_	whet '	125	87	70	1 33	
4,244003	121	66	55	14	- CEST	130	[8 <u>7 </u>	67 .	85	******	136	95	70	8	
MITCHION .	140	97	69	2	Ç42E\$	144	104	72	1 8	\$ + topept sive.	135	124	. 92	17	
ri-th	136	82	60	14	Cathra	126	87	69	3	rtece	118	67	57	11	
4946	1 137	115	84	16	CASHINGLE -	136	85 -	62	23	PEROMINANT	136	79	58	4	
HEFT	111	73	66	5	CHELIA	138	103	- 75	12	MAN	139	92	66	19	
BEAM BET	122	73	60	17	(m/m)	243	148	61	148	P=11	133	76	57	37	
-	141	98	70	16	#LUFEZ	128	72	56	31	POLE	128	72	56	4	
BLANC OF	134	78	58	16	144	129	89	.69	37	BANDS, PF	137	96	70	49	
- MINISPICE	129	89	69	16		129	80^	- 62	1 29]	escoupil)	128	81	63	26 -	
************	128	83	65	78	1616(7544	127	~75	59	30	PORTION	126	69	55	44	
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CARRES	130	⁶ -84	654	38	441	120	66	55	12-	,ede _{us}	131	105	80	64	
CALDERLA	133	78	59	32	PTSE 2	134	-84	63	6	re-memons	124	76	61_	28	
ET41E+	135	76	56	41	within.	137_	91_	66_	40	\$4.40°FCD	140	83 .	59	25	
CARTINO	123	88	72	2534	#CEST	128	103	· 80	17	#### ·	137	85	62	17	
STREET,	137	100	73	14#	********	134	74	55	29	STAR, F	124	78	<u>63</u>	26	
CATO	123	92	75	57/1	JOHES.	141	79	56	<u> '5 </u>	मध्य)	136	100	. 74	20	
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çı,	134	95	71_	4	mC20mEt.L	131	90_	69_	26	1100(11,	141	90	64	4	
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CAL PROPER	139	94	68	34	### D+3.0m	134.	96	72	10	***********	131	82	63	22	
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CHANGE STATES	180	125	69	125	micertains.	293	200	_68	200	#104 <u>7</u> 5	132	83	63_	9	
CHARTINGS .	129	80	62	5	PITCHELL	138	83	60	7	est-engles	135	79	59	Q	
RM'	114	70	-61	4	HONTEONE FT	133	74	_56	11	wetzyca	118	78	66	16	
e nome.	127	77	61	60	310001	124	73_	59	13	****	126	68	54	Ê.	
MVIC	141	108		13	74\$A 1	131	73	<u>56</u>	29	mu()	134	98	73	38	
tercii.	142	99	70	26	de moute.	129	99	77-	52	*1650=	136	79	58	30	
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emang.	183	<u> 121 - </u>	<u>66</u> _	121	<u> </u>		<u>. </u>		<u> </u>		<u>.</u>		آ - <u>حہ -</u>		

TOTAL 13,551

8,882

66%

3,054

^{*}All counties, except the five metropolitan counties, had 150 names drawn for the sample. However, because some of the respondents were deceased, had moved, or were not able to be contacted, they were eliminated from the sample. Potential respondents equal T50 minus deceased, moved, etc.

^{**}Number recurned from a 1/1000 population sample.