

# COASTAL NORTH CAROLINA SOCIOECONOMIC STUDY

## VOLUME IV

### PILE SORT AND DATA ANALYSIS

Submitted By:

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# **FINAL TECHNICAL REPORT**

**FOR THE**

**COASTAL NORTH CAROLINA SOCIOECONOMIC STUDY**

**VOLUME IV**

**PILE SORT AND DATA ANALYSIS**

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#### 4.0 DATA VOLUME

The Coastal North Carolina Socioeconomic Study was conducted to assist the Department of the Interior in decision-making processes related to oil and gas exploration offshore North Carolina. The study follows the recommendation of the Environmental Sciences Review Panel (ESRP)<sup>1</sup> that current socioeconomic and sociocultural conditions among potentially affected populations should be documented prior to exploration for oil and/or gas along the North Carolina Outer Continental Shelf (OCS).

The *Final Technical Report* is comprised of four volumes. This volume is the Pile-sort Data and Analysis Volume. It presents the information elicited from key informants during the conduct of the perceptual research component of the study, and associated data analyses. This volume is preceded by the Community Studies Volume which provides detailed descriptions of the individual study communities of Wanchese, Nags Head, Hatteras, Ocracoke, Atlantic, Beaufort, and Morehead City. That volume is preceded by the Counties Volume which describes the five study counties of Dare, Hyde, Carteret, Beaufort, and Pamlico both individually and in aggregate. The current volume is followed by the Socioeconomic Monitoring Plan and Methodology Volume that presents a design for monitoring change in the study counties and communities and also describes the research methods used in the current project. Finally, an executive report is provided to briefly report the major findings detailed in the previous volumes.

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<sup>1</sup> The Environmental Sciences Review Panel (ESRP) was appointed in December 1990. The Oil Pollution Act (OPA) of 1990 directed the Secretary of the Interior, in cooperation with the State of North Carolina, to appoint this panel to assess existing information necessary for the Secretary to make decisions regarding permitting, leasing, exploration, and development offshore North Carolina. The ESRP identified informational inadequacies and recommended that a comprehensive socioeconomic study be undertaken in the potentially affected region.



## 4.1 INTRODUCTION: METHODS AND OVERVIEW OF FINDINGS

This volume provides raw data collected during the perceptual research component of the Coastal North Carolina Socioeconomic Study, and associated data analyses. Free-listing and pile-sorting techniques were used to gather the data. These are part of a multiple method strategy, including participant and non-reactive observation and key person interviewing, for gathering and analyzing information concerning: (1) factors that make the area a desirable place for living; (2) ways the environment is used; and (3) events or processes that could change the area. This volume provides the data and analyses for the free-listing and pile-sorting methods.

Free-listing involves having key persons list items or ideas relevant to the domain of interest. In this study, for instance, a sample of key persons in the communities was asked to list the common uses of the natural surroundings. Uses stated with high frequency was then placed on cards and a larger sample of key persons in each community were asked to order the cards into piles of similar uses. This pile-sorting method allows the researcher to understand how informants categorize uses of the environment and why.

The pile-sort method has traditionally been used where the domain of interest is narrowly defined -- disease terminology or plant classification, for instance. In the current study we apply these methods to much broader and less defined domains that present a more challenging realm of analysis. For instance, the domain of perceptions about what items, events, or processes present the possibility for change to the area, is relatively broad and complex, and although the analytical techniques used to make sense of the data are effective, this usage of method and analysis breaks new ground in the cognitive social sciences. Still, pile-sorting and related analyses proved valuable to the current study. Since the method involves use of a standard set of stimuli -- the cards -- it is possible to compare results across the study communities. This replicability also is valuable in that it allows for longitudinal research -- future study in the same setting. Given, however, that these data-gathering methods and analytical techniques are being used in unexplored domains, further testing and application will be needed to ensure reliable and valid findings.

Pile-sorting also was used to simulate Likert scaling procedures where informants scale items on some dimension of interest to the researcher. In this study, key persons were asked to order the cards into five piles where, for instance, the leftmost pile represented one and the rightmost pile five on a scale of one to five. In this case, one represented a value such as "most common," or "most likely," and five "least common," or "least likely." This method produced data that allows understanding of how informants perceive the value of items, events, and processes relative to each other.

Understanding prevalent environmental values requires an understanding of how the natural surroundings are used. Using the Likert scaling technique, it was found that residents of Wanchese see the most common uses of the local environment as those related to commercial fishing, including crabbing and clamming. It is not surprising, therefore, that the

construction of jetties is perceived to be the event most likely to change the community if it were to occur. Residents believe that jetty construction will stabilize the nearby Oregon Inlet and increase the capability of the local fleet to reach productive fishing grounds. Years of work on the ocean have given many Wanchese residents reverence for the forces of nature and respect for fishermen and others who have spent their lives on the water. Prowess in fishing and fortitude in the face of the powerful forces of nature contribute to a sense of community identity held by residents. Many residents also value family ties and see the community as one of hard working fishermen and supporting families. Residents perceive stricter fishing regulations as having the potential to negatively affect the community. Hurricanes are also feared. Use of similarity pile-sorting revealed that jetty construction and offshore oil drilling were perceived as most closely related among all "sources of change" items presented to informants.

Among informants in Nags Head, surf fishing is believed to be the most common use of the environment, followed by sun bathing and surfing. These findings reflect the recreational atmosphere of this resort community and justify the belief that hurricanes have the greatest potential to change the community. This is logical since a major hurricane could indeed disrupt all recreation in the area. Overdevelopment is also considered to be a factor that could change the community. This agrees with findings that suggest citizens and government officials are working to mitigate the negative impacts of development and preserve the natural beauty of the area. Paving of roads and construction of bridges were seen as the most closely related source of change items.

In Hatteras, commercial fishing and tourist activities such as visiting national parks are thought to be the most common uses of the environment. This mix of uses reflects the primary economic sectors in the community. As in Nags Head, hurricanes and overdevelopment are considered to have the greatest potential to change the community. Hatteras residents value the natural environment both for its peaceful beauty and for the power it holds. Fortitude is highly valued in this community and the ability to survive cold winters, rough weather, hurricanes, and many seasons on the island is highly respected. Commercial fishermen in Hatteras take pride in their stoicism and also feel they are contributing to society by bringing seafood to the public. Farm runoff, industrial pollution, unplanned and overdevelopment were seen as the most closely related sources of change.

Despite the fact that the commercial fishery in Ocracoke is relatively small, informants in this community consider this to be one of the common uses of the environment. Similar to the other immediate coastal communities, recreational activities – swimming and surf fishing – were also considered to be common uses. Overdevelopment is seen as an important source of change here as well, as is relaxation of environmental regulations. Ocracoke residents are a mixed breed of long time residents and new arrivals, but both groups share values that prioritize a beautiful island environment. Farm runoff and industrial pollution were seen as the most closely related sources of change in the community.

In Atlantic, residents see commercial fishing as the most common use of the natural surroundings. This supports observations that indicate that life in the community revolves around the commercial fishery. Perceptions about sources of change to the community are also linked to the fishery, and residents cite farm runoff, sewage problems and red tide as most important. As is the case in Wanchese, the small town atmosphere and the existence of family ties are judged to be accurate descriptions of the community and important to the local population. Unlike residents of the communities where tourism is part of the economy, many residents of Atlantic value the natural environment more for what it offers in terms of subsistence or commercial products than for its natural beauty. This is also apparent among the commercial fishing sector in the other communities where residents see themselves as being rightful heirs to the traditional harvest of living marine resources. Red tide and hurricanes were perceived as being the most closely related sources of change in the community.

Boating and sun bathing are seen as common uses of the environment in Beaufort, as is commercial fishing. This mixture of uses reflects the fact that the environment is valued for both recreational and commercial possibilities and justifies the perception of residents that overdevelopment and poor management of natural resources have the greatest potential to change the community. The natural beauty of the area is highly valued by residents as is its proximity to the ocean and sound environments. Relaxing environmental relations and poor management of natural resources were perceived as being the most closely related sources of change in the community.

In Morehead City, offshore recreational fishing is seen as the most common use of the environment, followed by boating and commercial fishing. Hurricanes, relaxation of environmental regulations, and overdevelopment are seen as the primary potential sources of change to the community. Residents of the area value their proximity to the ocean and sounds and the ability to live a water-related lifestyle. Paving for roads and parking, construction of bridges, farm runoff, and industrial pollution were seen as the most closely related sources of change to the community.

In sum, residents of all the communities value the proximity of their homes to the ocean and sounds. The ability to live water-related lifestyles is also universally important. The commercial fishing sectors of all the communities share ideas about the worth of their work as harvesters of the ocean's natural resources but place less emphasis on the area's natural beauty. Clean water and air are valued among members of this group, but these appear to be valued more as indicators of the natural resources upon which their livelihoods rely. They also value the ability of their kind to withstand the forces of nature and they respect the power of the wind, tides, and waves. This is especially evident in the communities of Wanchese, Hatteras, and Atlantic. In communities where tourism is important, the natural beauty of the area is highly valued. Residents recognize the need to preserve the natural beauty of the area and insure that the environment can continue to be used for recreational purposes. Among the possible sources of human-caused change to the communities, overdevelopment is seen as most threatening. This is true of both tourism-oriented sectors

and fishing sectors since both are subject to economic problems should the areas get too crowded and experience problems associated with excessive growth such as water pollution. Hurricanes are also seen as a universal threat -- all residents seem to recognize the power of nature to transform the social and physical landscape of the communities.

## **4.2 DOCUMENT ORGANIZATION**

The methods used to gather the data contained in this volume are described in section 4.3 below. Analytical techniques also are described in this section. Section 4.4 provides the raw data collected, and section 4.5 provides data analysis and interpretation of those data. The data analyses and interpretation were ultimately used to inform the description of residents' perceptions about the human and physical environments in which they live. These descriptions are provided throughout the Community Studies Volume of the current report.

## **4.3 ELICITATION METHODS FOR SOURCES OF CHANGE**

### **4.3.1 Free-listing: Background and Applications for Sources of Change Research in the Study Communities**

Free-listing is used in the social sciences to identify culturally-relevant ideas within specific areas or "domains" of human perception. Informants are asked specific questions designed to elicit statements about the domain of interest. The same kinds of questions are presented to a sufficient number and type of informants so that the researcher gathers a range of perceptions about the domain from the cultural group in question. The selection of individuals is not intended to be fully representative of a population, but rather informants are selected to represent a variety of points of view. In this project, between five and eight key persons and reputational leaders residing in each of the study communities were selected for participation in the free-listing process.

This kind of research has been conducted in a variety of settings to define human perception of a wide variety of topics. For instance, Weller (1984) asked groups of Mexican and American women to list as many kinds of disease as they could think of. Weller identified twenty-seven frequently-used terms among the Mexican sample and twenty-nine among the American sample. This listing process allowed the researcher to develop an understanding of the cognitive domain of disease and the way in which the two groups or cultures of women think about kinds of disease. Weller then used the disease terms in subsequent research and was assured that she was using terms that had meaning for the groups whose ideas about disease she was investigating.

Within the sphere of perceptual studies, our principal research interest is in understanding the items, events and processes residents in the study communities perceive as threatening to

their lifestyles. We used the free-listing procedure as the first step in this objective. In order to define the cognitive boundaries of residents' perceptions about what constitutes possible sources of change to their environment, we investigated three interrelated domains of perception. The first domain involved residents' perceptions about why they like living in the area. By developing an understanding of residents' perceptions about the qualities that make the North Carolina coast a desirable place to live, we are able to describe what actually is at stake when residents discuss their ideas about things that threaten the area. Research of the second domain served the same purpose; we tapped into ideas about the ways people use the region's natural surroundings in order to understand what aspects of the physical environment are valued and are considered to be subject to change. Finally, we investigated people's ideas about actual sources of risk. That is, we elicited key informants' perceptions about things that have the potential to change the area in a detrimental way.

***Free-listing Field Procedure*** Prospective participants were contacted by phone or in person to request their participation, during which time they were informed of the purpose and nature of the research. Appointments were set and interviews were conducted at the informant's leisure. Responses to the protocols were recorded on a data collection form and then stored in a computer database. Additional qualitative data, Appendix B of this volume, generated during the interviews, were also recorded and stored.

***Free-listing Protocol for Domain One: Qualities of Place*** We asked residents a simple but specific set of questions in order to tap perceptions about the desirability of their communities and region as a place of residence. The questions address both the physical and social environmental attributes of the area:

*We are interested in finding out how local people think about the environment in this area.*

- (1) *Please list the natural surroundings in this area that make this a place you want to live.*
- (2) *Please list the qualities that make this area a place you want to live.*

Past use of questions such as (1) above in similar research settings indicates the possibility that residents may ask what is meant by the term "natural surroundings." The most appropriate response for field researchers was to offer an alternative definition of the term that has the same meaning. Researchers thus responded by stating: "I mean the parts of the natural environment that are important to you." Similarly, if participants asked what was meant by "qualities" as the term appears in question (2), field researchers replied: "I mean what is important to you about the natural or social environment or way of life here."

**Free-listing Protocol for Domain Two: Uses of the Environment** The second domain of interest is local perception about ways in which people use the natural surroundings in the coastal zone. The following types of questions were used to elicit perceptual data related to use of the environment in the area:

- (1) *Please list the different ways that people here use the local environment (including the ocean, the beach, the sounds and marshes and the woods).*
- (2) *Please list the different ways that you as a \_\_\_\_\_ (e.g., fisherman, sailor, etc.) use the local environment.*

**Free-listing Protocol for Domain Three: Perception of Change** Our final domain of interest is perception of what could possibly change informants' communities or natural surroundings. Once we established an idea of what participants value in terms of the area's physical and social environments, we then investigated perceptions about how these environments might be threatened. We sought to define culturally-relevant ideas about those items, events, or processes that residents perceive as presenting the possibility of change to the social and physical environment of the coastal zone through use of the following types of questions:

- (1) *Please list the kinds of things that could happen to change the local environment (including the ocean, the beach, the sounds and marshes and the woods).*
- (2) *Please list the things that could happen to make life in this community better.*
- (3) *Please list the things that could happen to make life in this community worse.*

Question (1) above is designed to elicit a broad range of items, events, and processes including those not necessarily considered to present the potential for negative effects. For instance, construction of a jetty may be considered as a negative or threatening action to some residents but not to others. Elicitation of items that have neutral or double meanings are critical to phases of our research in which we seek to determine how people categorize things that could change the area and the relative probability that these *would* change the area if they were to occur. Question (2) above is designed to elicit items, events, or processes that are perceived to have the potential to change the area in a positive way. Question (3) above is designed to elicit items, events, or processes that have the potential to change the area in a negative way.

**Free-listing Data Analysis** Data generated through the free-listing methods described above were analyzed by reviewing the responses and searching for those that occurred most frequently. Researchers using the free-listing method have typically found that informants will offer a core set of responses for each domain in question (see Bernard 1988). The

working assumption is that the responses made with the highest frequency represent culturally relevant or normative set of perceptions for the sample of persons being studied. Free-listing also typically generates a broad range of unique responses. Although such responses are not considered insignificant, they are usually too idiosyncratic to be used in subsequent data collection strategies. In the current project, items mentioned with high frequency were selected for use in subsequent data collection exercises, viz. pile-sorting as described in 4.3.2 below. Items must have been mentioned at least twice for use, but most items were mentioned with much higher frequency. The goal was to develop a set of items of a size that was manageable for informants in the pile-sorting task.

Following are the items derived from the free-listing procedure that were ultimately used in the pile-sort procedure:

#### **Qualities of Place**

- 1 A: People share a sense of community
- 2 B: There is a "small town" atmosphere
- 3 C: People are friendly
- 4 D: The climate is mild
- 5 E: Water quality of ocean & sounds is good
- 6 F: There is natural beauty here
- 7 G: The fishing is good
- 8 H: There is a lot of history here
- 9 I: The air is clean
- 10 J: The area is not overcrowded
- 11 K: People here are environmentally aware
- 12 L: The seafood is good
- 13 M: The crime rate is low
- 14 N: You live close to the ocean and sound
- 15 O: There are lots of open spaces
- 16 P: There is not much traffic
- 17 Q: There is good surfing here
- 18 R: The beaches are clean
- 19 S: The area has unique architecture
- 20 T: You can live a water-related lifestyle
- 21 U: There is a seasonal lifestyle
- 22 V: People have family ties here
- 23 W: This is a rural area
- 24 X: It is easy to find peace and quiet

### **Uses of the environment**

- 1 A: offshore recreational fishing
- 2 B: scuba diving
- 3 C: educational purposes
- 4 D: windsurfing
- 5 E: boating
- 6 F: swimming
- 7 G: surfing
- 8 H: sailing
- 9 I: bird watching
- 10 J: commercial fishing
- 11 K: volleyball
- 12 L: clamming
- 13 M: surf fishing
- 14 N: visiting state and national parks
- 15 O: sun bathing
- 16 P: water skiing
- 17 Q: deer hunting
- 18 R: crabbing
- 19 S: sightseeing
- 20 T: oystering

### **Sources of Change**

- 1 A: farm runoff
- 2 B: landfills getting too full
- 3 C: offshore oil drilling
- 4 D: sewage problems
- 5 E: construction of bridges
- 6 F: industrial pollution
- 7 G: more tourism
- 8 H: overdevelopment
- 9 I: military activities
- 10 J: paving for roads and parking
- 11 K: bringing in chain businesses
- 12 L: overfishing
- 13 M: unplanned development
- 14 N: hurricanes
- 15 O: too many people
- 16 P: stricter fishing regulations
- 17 Q: the Clinton Administration
- 18 R: construction of jetties
- 19 S: relaxing environmental regulations
- 20 T: higher taxes
- 21 U: more marinas
- 22 V: red tide
- 23 W: poor management of natural resources
- 24 X: recycling



#### **4.3.2 Pile-sorting: Background and Applications for Sources of Change Research in the Study Communities**

Pile-sorting is a relatively new systematic research method wherein informants are exposed to a set of stimuli in order to elicit perceptions about the domain of interest to the researcher. These stimuli can take the form of actual objects such as plants, or pictures of objects, or cards containing printed words. Informants are asked to manipulate (sort) the objects or representations in specific ways in order to elicit perceptions about the domain of interest. The behavior of informants in performing to this task can then be compared across individuals or groups of individuals. The pile-sort method was conducted with twenty informants in each of the study communities, and with nineteen informants in an inland-based population of coastal user groups.

The pile-sort method has been used in a variety of research settings. For instance, Boster and Johnson (1989) compared the manner in which expert and novice fishermen judged the similarity of different species of fish. He had informants sort pictures of fish into piles based on perceived similarity among the species. In the current study, the research team used cards containing printed words for the pile-sorts. Each card depicted one of the high frequency ideas, events, or processes generated through the free-listing method. Informants were asked to order the cards into piles in which items in each pile were considered to be somehow similar. They were then be asked to explain why they sorted the items the way they did. This procedure allowed the research team to further its understanding of how coastal residents perceive the area's social and physical environment and associated uses and threats by: (1) identifying categories and dimensions of ideas people use to define the three areas of interest; and (2) comparing groups and individuals in terms of these classification schemes.

Informants were also asked to order the cards into piles in a manner that approximated a Likert scaling procedure (Spector 1992). Likert scaling involves having participants assign a value to an object or idea based on how they perceive it along some dimension of interest to the researcher. For instance, a respondent might be asked to assess the likelihood that the President will reduce the federal deficit by ten percent within two years. In order to standardize the options for response, the researcher might ask the respondent to assess this likelihood on a scale of one to five where one represents the highest likelihood and five represents the lowest likelihood. This strategy was used in conjunction with the pile-sort method in the current study. Informants were asked to place items into as many as five piles where items in each pile represent a value between one and five in a Likert scale.

The pile-sorting methods are an effective means for investigating perception and thus allow the researcher to closely replicate the research with other groups and/or at other times. The following describes the specific procedures we used to implement the method in the current project.

### ***Field Procedure: Pile-sorting for Perceived Similarity***

High frequency statements elicited through the three free-listing protocols were printed in large type on small plastic-coated cards. In order to insure that participants would be able to effectively think about and manipulate the items on the cards and perform the pile-sorting tasks, the number of statements used for each domain was limited to around twenty-four. This number varied slightly, depending upon the natural cut-off point of response frequency determined through analysis of the free-listing data.

Pile-sort interviews were conducted at a later date with the same informants who participated in the free-listing task. Pile-sorts were also conducted with a larger sample of key persons in local government and business and interest groups in the communities (total N=20 in each community). Interviews began with a brief set of questions designed to gather basic information about the individual, his or her relationship to the organization he or she represented, and about the organization itself. Other basic information about the respondent was also recorded, including participation in other groups; this was valuable in determining whether such participation could have some bearing upon perception within our domains of interest.

Pile-sort interviews were also preceded by elicitation of what key persons perceive to be the most important issues currently confronting residents of the communities. This procedure increased the construct validity of the subsequent data collection process by providing a means for measuring the relevance of the information on the cards in relation to issues of perceived importance to the larger sample of key persons.

Informants were then asked to order the first set of cards – high frequency statements about the attractive qualities of the social and physical environment in the communities -- into piles of items they considered to be similar. The following simple direction was most effective in guiding the respondent: "If you would, please take these cards and make as many piles as you wish. . . each pile should be made up of items that are somehow similar in your mind." The cards were numbered to allow easy recording of the items placed in each pile. A form was used to standardize data collection and recording.

Once the respondent constructed the piles, he or she was asked to explain what the piles represented; that is, why the piles were constructed as they were. This information was elicited by asking: "what is this pile all about?," or "can you describe this pile in a phrase?" This qualitative information was also be recorded on the data collection form.

The Likert scaling/pile-sort procedure was implemented next. What is measured by the scale varied for each domain of interest. For the set of cards representing desirable attributes of the communities, the participants were asked to order the cards based on their perceptions about the relative accuracy of the statements describing the community. Informants were asked to order the cards into as many as five piles where the first pile represented those items considered most accurate in describing their community through the fifth pile, which

contained items considered to be least accurate in describing their community. The informants were then be asked to explain their rationale for including each of the items placed in pile one.

The similarity and Likert scale sorting processes and associated qualitative data collection were repeated with the remaining two sets of cards -- the cards representing perceptions about how people use the environment, and the cards representing things key persons perceive to be threats to the environment and to their lifestyles. Likert scaling for uses of the environment measured perceptions about what are the *most common uses of the environment* in the communities and region. Scaling for sources of change measured the perceived *likelihood that the item would change the community if it were to occur tomorrow*.

***Pile-sorting Data Analysis*** In analyzing the scaling data we simply determined the frequency with which items in each of the domains were assigned a specific scale value by informants. That is, we sought to determine, for instance, the percentage of the sample who believe item x is most accurate in describing their community. Interpretation of these statistical data is augmented by contextualizing it with the associated qualitative data.

We used a software package called ANTHROPAC (Borgatti 1992) to analyze the similarity data. This program analyzes pile-sort data by organizing it into item-by-item correlation matrices; that is, into tables in which pairs of items are scored as similar if they appear in the same pile. Correlation matrices were developed for individuals and were also combined across groups. The matrices were analyzed using multi-dimensional scaling, hierarchical clustering and cultural consensus analysis (Weller and Romney 1988).

**Multi-dimensional Scaling** Multi-dimensional scaling (MDS) is an analytical technique used to identify and graphically depict the correlation matrices discussed above. These data are quantifiable in that each pair of items is assigned a value of 1 if informants judge them to be similar by placing them in a pile together. Items judged to be dissimilar (placed in separate piles) are assigned a value of 0. The relative distance of items can thus be quantified in terms of similarity; closely related items achieve high correlation values and proximity, and unrelated items achieve low correlation and are distant. MDS is a tool that allows graphic depiction of correlation and proximity between items.

For example, Weller (1984) used free-listing data about disease terminology in a subsequent similarity pile-sorting task (in the manner of the current study) and generated a 27 X 27 item correlation matrix. Based on this matrix, she used MDS to illustrate how her sample of women thought about names of diseases. MDS allowed her to plot, in two-dimensional space, the degree of correlation between items. Closely related items (items perceived to be very similar) appeared close to each other on the plot and unrelated items appeared distant. Since groupings of items represented close relationships of disease terms in the minds of her informants, Weller was able to see that her sample grouped diseases into distinct categories,

which could be explained in terms of labels such as gastrointestinal disorders, contagious diseases, and so on (Bernard 1988:451).

ANTHROPAC software will be used in the current study to depict the perceived relationships of items in each of the categories of interest generated through MDS. Data analyses includes comparison of MDS across informants and study groups. We are thus able to describe and compare the major categories of sources of change, for example, across communities. Data can also be analyzed for comparison across business groups, municipal governments, interest groups, and so on.

**Hierarchical Clustering** Hierarchical clustering is another analytical technique that assists in characterizing perceived similarity between items. The technique allows the researcher to identify the most proximate pair of items and then progressively merge items into clusters based on degree of similarity. This method complements MDS in that it helps to explain groupings of items (clusters) as they appear on the MDS plots. Hierarchical clustering was used in the current study as an aid in explaining the MDS plots.

**Cultural Consensus Modelling** There is yet another valuable technique available for analyzing similarity data. The Cultural Consensus Model (Romney, Weller, and Batchelder 1986) is particularly well-suited for estimating the degree to which informants agree about the similarity of items in the domains of interest, and for inferring the "culturally correct answer key" for correspondence between items.<sup>2</sup>

In the current study, the Cultural Consensus Model combined the correlation matrices developed for each respondent's pile-sorts to generate an aggregate correlation matrix that represented the "mean" set of judgements about similarity of items across the entire sample. That is, for each domain of interest, the model generated a table that depicts the group consensus about which items in the domains were perceived as being similar (and/or

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<sup>2</sup> The Cultural Consensus Model quantifies agreement across respondents through calculation of a matrix of matches adjusted for guessing. The matrix is then factor analyzed and the ratio between the first and second eigenvalue indicates whether the assumption of cultural knowledge is met. For the assumption to be met, the first factor, which represents competence or level of cultural understanding for the domain in question, should be several times larger than the second, accounting for the structure in the matrix apart from sampling variability (see Garro, 1988 or Romney, Weller, and Batchelder 1986). The Model makes a number of assumptions: (1) the respondents share major elements of a single culture, hence each item (k) has a "culturally correct" answer, in this case another matching or non-matching item, (2) each respondent replies independently of other respondents to each sort, and (3) each respondent (i) has an equal capability of correctly answering each question; that is, the domain of questioning is coherent for all participants and guessing will lead to disagreement. The model also adjusts for respondents making uninformed guesses about the similarity of items. Thus, the empirical point estimate of the proportions of matches between informants i and j when corrected for guessing is  $M_{ij} = (L M_{ij} - 1) / (L - 1)$ , where  $M_{ij} = M_{ji}$  for all pairs of respondents (after Romney, Weller, and Batchelder, 1986).

dissimilar). Once an aggregate correspondence matrix was generated, it was possible to gauge how individual participants "scored" in relation to the mean or consensual perception held by the entire sample. Cultural consensus scores are valuable in our efforts to measure variability between individuals and groups of individuals in the sample.

#### 4.4 RAW DATA PRESENTATION

This section provides the raw data collected during the perceptual research component of the study. Free-listing, similarity and Likert scale data are provided in sequence for all of the study communities and inland sample. The similarity and Likert data are presented in tables. Filed researchers recorded the sorted items and associated explanations were offered by informants for why they ordered the items in the manner they did.

##### 4.4.1 Wanchese

###### Freelisting Data

###### **Quality of Place**

area can produce jobs  
birds--wild duck  
Boat maintenance  
Boat builders  
clean air--no air contamination  
climate--no extremes  
climate--seasonal change but no extremes  
fish  
fishing  
fishing good  
Fishing  
lack of natural disasters other than hurricanes--no earthquakes, no volcanoes.  
National Park--most land is held by State and Federal Government  
National Park--beaches  
ocean  
ocean (likes living near ocean)  
open areas  
oysters  
sounds  
sparse population  
trees--live oak  
trees--pine trees--pollen bad but likes them  
water

waterfowl in marshes  
welders  
wildlife in woods  
wildlife  
woods--likes the woods being around  
can get to work in 2-3 minutes  
can walk around barefooted  
cheaper to live here  
don't like dependence on tourism but is a clean industry--if fishing collapses  
family is here  
family is here  
family--relatives here  
natural surroundings  
close knit community  
community is like one big family  
just like it  
knows everyone in town  
not built up  
not many people  
pace of life slower  
pace of making a living slow  
people want to retire here  
people--good  
people--helpful  
quiet  
country  
rural  
small fishing village  
small area--not a city

## **Use of Environment**

could use sewage as fertilizer  
don't utilize it to the fullest extent  
don't use timber to best advantage  
don't use geothermal water  
don't utilize people with skills in the fishing industry just put them on welfare  
don't breed better species  
don't raise larger ducks just kill them  
fishermen fish (majority of the people fish or are retired)  
fishing  
fishing  
fishing in ocean  
fishing--commercial  
fishing--commercial  
fishing--hook and line fishing (native and tourist)  
fishing--recreational  
oystering  
clamming  
crabbing  
woods produce wildlife  
hunting deer on mainland  
hunting coon on mainland  
hunting duck and goose  
hunting  
trapping  
bodysurfing  
boogie boarding  
hang gliding  
jet skis/in sounds  
jet skiing  
jet skis (tourists)--hates these  
parasailing (outsiders catering to outsiders)  
parasailing/in sounds  
pleasure boating (native and tourist)  
pleasure boating  
sailing  
sailing/in sounds  
scuba diving (developing)

skiing  
surfing  
surfing  
swimming  
swimming  
tourist use beaches  
wind surfing (Hatteras and Canadian Hole)  
windsurfing (Hatteras--clean sport)  
National Parks and Fish and Wildlife--87% of land in Dare Co.  
no aquaculture  
sounds produce fish  
sounds are sewer dumps  
water fowl/in marshes  
boogie boarding  
clamming  
crabbing--keeps some crab pots  
fish  
fishing  
fishing  
fishing (only makes 20% of what it should)  
fishing--ocean  
fishing--sounds  
fishing--uses boat for fishing  
fishing--wife catches fish in front of house  
pleasure boating  
swims in the ocean  
swims in the sounds  
windsurf--may in future  
woods--gets Christmas trees out of woods  
woods--like to walk around in the woods



## **Sources of Change Perception**

better management  
development  
industry moving into the area that requires more energy and waste disposal  
increasing density--0 growth would be optimal--would cause many "undesirables" to move away (people who have moved here in the last 20 years)  
incinerator in the county  
zoning codes/depending on what kind and where  
Bill Clinton  
government/county, state and federal  
taxes--higher taxes  
national economy--national debt and how well Clinton does  
Extension of runway at Manteo Airport--are considering extending into the sound  
natural way of living  
hurricanes or a nor'easter--could open another inlet  
Oregon Inlet could close and another would open south of Oregon Inlet  
sewage disposal will be expensive problem  
solid waste disposal stress--will get worse before it gets better  
tourists--too many (wants Wanchese to stay the same)  
tourism  
utilize sound resources  
affordable housing that people can buy  
alternate sources of energy  
better use of timber and natural products  
changes attitudes of people towards underutilized species  
raise hybrid species of fish, shrimp, etc  
use power in ocean to generate energy  
use plant and marine life  
conservation, i.e. wise use of resources  
better recycling  
more sophisticated recycling program  
no offshore drilling  
maintain open area  
better management of solid waste, sewage and water  
better management of fresh water  
Dare needs county wide water and sewer authority to provide central water and sewer service for everyone  
bridge bypassing Manteo

burn the bridges  
gate to keep people out of Wanchese  
I don't think I just live  
shoot all politicians and lawyers  
impact fees on new developments--they should pay for the strain  
Open up the Wanchese Seafood Industrial Park the way they promised in the beginning to  
provide jobs  
Oregon Inlet--building the jetties  
breakdown of education  
condominiums  
too high limits in zoning--high density and fire hazards (don't have the fire fighting  
capabilities for these)  
fewer meetings in schools and town halls (community and religious groups have been  
prevented from using these facilities leaving them with no place to meet)  
higher population density--people come into the area and take advantage of the services  
not controlling density  
more tourists  
people moving in  
too high density development  
importation and glamorization of alcohol and drugs  
trash people moving in and using drugs  
lack of morals  
no management of sewage disposal and potable water management  
solid waste--unwise decisions about solid waste  
oil or petroleum industry  
segregation by income  
too many regulations on the fishing industry

**FILE SORT DATA**

COMMUNITY: Wanchese  
INTERVIEWER: B  
DATE: 12/03/92  
RESPONDENT CODE: 008WAN  
HOME: Wanchese  
USE AREAS: East side of Wanchese to launch boats; county dock and state maintained harbor  
LENGTH OF RESIDENCE: thirteen years

**ISSUES:**

- 1) CAMA and state regulations on land use
- 2) Water quality of the wells in the area
- 3) Oregon Inlet Jetties
- 4) No sewage from other areas pumped into Wanchese
- 5) Zoning; some Wanchese residents want it, most don't

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
X F I J P O B W D N H M;	"Natural qualities of the area"
K E A C U V T;	"These have to do with the people in the area"
Q R G;	"These have to do with fishing"
L;	"This doesn't fit in any other category although fish houses have good seafood"
S;	[Doesn't fit anywhere]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	ABCDEFHIJKLM NOPSTUVWX	R	G		Q

PILE SORTS: USES	
ITEMS	EXPLANATION
GMN;	"Do not relate to Wanchese"
DFOETHBPLR;	"Water related activities"
SIQ;	"Activities that you can do on land"
C;	"There was some excavation here"
K;	"Some may play on lawn-doesn't fit in other piles"
AJ;	"Related to fishing industry"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	DFOETHBPLR	JA	CISQ	KM	NQ

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
REJUGIKQC;	"Things that would bring in more people"
BFDHAM;	"Land Use problems"
WSPX;	"Have to do with regulations"
LO;	"If overfished it's because of too many people"
NV;	"Natural disasters"
T;	[Doesn't fit in any other category]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	VNPCDFBLOT	HMJERGUSW	QIK	AX	

**WHY/HOW:**

- 1)"If there were too many people, Wanchese would lose the village atmosphere"
- 2)"overfishing would affect the local livelihood"
- 3)"Overfilling landfills would turn the place into a dump"
- 4)"If industry polluted the area the air wouldn't be as clean"
- 5)"If there was offshore drilling there could be a spill that would pollute the water"
- 6)"Hurricanes could destroy structures in the community"
- 7)"Stricter fishing regulations would affect the sale of fish"
- 8)"Red tide would adversely affect the fishing in the area"
- 9)"Higher taxes would cause people to become upset with the county"

RESPONDENT CODE: 009WAN

HOME: "South end of Roanoke Island"

USE AREAS: "Oregon Inlet; I fish in the ocean, I hardly ever fish in the sound"

LENGTH OF RESIDENCE: twenty-four years in Wanchese; in Dare County all of his life.

ISSUES:

- 1) "Federal and state restrictions on our income and livelihood like fishing"
- 2) "Wetland restrictions; people own land that has been restricted"
- 3) "Jetties at Oregon Inlet"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
L W B A C T V;	"True about Wanchese"
F U H D S;	"This is true of the whole county"
I K N Q R G;	"Have to do with beach; all environmentally related"
E;	[Doesn't fit any other category]
X O J P M;	"These are not true of the area"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	G I P X J M V T C A B L W K		H	N	O E D F U Q R S

PILE SORTS: USES	
ITEMS	EXPLANATION
L R E T A J;	"Livelihood"
H P D O M K G B F;	"Recreational uses"
S I C N;	"Things done for educational purposes in state and national parks"
Q;	"Not in this county"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	T E J R L	F A P			G K B G M H D O S I C N



PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
Q U G M H L P T;	"Worst things that could happen"
R C E;	"The most important things that could be done for NC and area"
J W A B F D V;	"All these have to do with pollution;cause pollution"
N;	"Natural disaster"
S;	"Not necessary"
X;	[Doesn't fit other category]
I;	"Necessary"
O;	"If we had more industry we'd have less tourism"
K;	"Don't see this as an important change"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	N Q R C W A F D V S L P G T				K O I X H M U B E J

WHY/HOW:

- 1)"Hurricanes would be a terrible disaster"
- 2)"The Clinton Administration could be good or bad"
- 3)"The construction of jetties would be better for area livelihood"
- 4)"Offshore oil drilling would be better for North Carolina as a whole"
- 5)"Poor management of natural resources could lead to their destruction as would farm runoff"
- 6)"Sewage problems, overfishing and red tide would hurt natural resources"
- 7)"Relaxing environmental regulations would be bad"
- 8)"Stricter fishing regulations are established by biologists who can't back up what they say"
- 9)"More tourism would cause more pollution and water depletion"

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/04/92  
 RESPONDENT CODE: 010WAN  
 HOME: Village of Wanchese  
 USE AREAS: Oregon Inlet for surf fishing; Public accesses; Mann's Harbor  
 LENGTH OF RESIDENCE: eleven years

ISSUES:

- 1) "Have the advantage of living close to tourist areas but don't live among tourists"
- 2) "Need to clean up the village. Homes have fishing supplies [in yard] that could be neatly stored."
- 3) "People are short sighted, have tunnel vision and are selfish. They don't want change. They need to look toward a future without fishing"
- 4) "Drugs [are a problem]. These could be cleaned up. It's mostly among young people."
- 5) "Important to maintain traditional fishing heritage but look realistically at the future."
- 6) "[Wanchese is a] close knit community tied to two churches. It's hard for an outsider to fit in [if not in one of the two churches]."
- 7) "People are very competitive especially fishermen."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
k u l b a c t v m q;	"People issues"
p x j s n f h w;	"Livability/aesthetic issues"
g i o d r e;	"Environmental issues"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	thnjxpiulb	vacf	rmged	swq	ok

PILE SORTS: USES	
ITEMS	EXPLANATION
q k b g m h d o s p f a e;	"Tourist oriented recreational activities"
j r t;	"Commercial activities. Ways people make a living. Boat building could be added."
i n c;	"Environmental education"
l;	"Not a commercial activity here. More recreational sometimes."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	aerjt		c		qnikodhmgbfpsi

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
r c u k;	"Economic issues"
v p w l s;	"Natural resource issues"
e t g o j m h;	"Development issues"
x b f d a;	"Environmental issues"
i n q;	"Safety and health care issues"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n u c r l p g o h f	v x d m w s	k e j a	i b t q	

**WHY/HOW:**

- 1) "Hurricane would destroy Wanchese"
- 2) "More marinas would change [Wanchese] from commercial to recreational fishing and lead to condominiums and change the local character"
- 3) "Offshore oil drilling would lead to economic opportunities"
- 4) "Oregon Inlet jetties would open up Wanchese for seafood [industry] development."
- 5) "Overfishing and stricter regulations on fishing would inhibit local commercial fishing."
- 6) "Tourism, overdevelopment and more people would change the character of the village and would be negative."
- 7) "Hurricanes and industrial pollution would have negative affects on resources."

COMMUNITY: Wanchese  
INTERVIEWER: B  
DATE: 12/04/92  
RESPONDENT CODE: 011WAN  
HOME: Wanchese  
USE AREAS: Offshore and sound fishing and boating  
LENGTH OF RESIDENCE: Born (1947) and raised in Wanchese; forty-five years

ISSUES:

- 1) "Drugs [are a problem]. There's too much of them. This is the result of increased growth. Nothing is done about it."
- 2) "Crime"
- 3) "Influx of new people; can't support them year round"
- 4) "Low paying jobs and not enough jobs"
- 5) "Transportation: there's no industry here because it is too far out"
- 6) "Lack of police protection"
- 7) "County management is pitiful"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
e r l g n q t;	"Water related qualities"
x k w j o s u i p;	"These are about the climate, open spaces, about the rural area" [describe a rural area;country]
a b c v;	"It's a small town atmosphere, the uniqueness of a small community" [describe people in the community and the community itself]
h f;	"describe the area"
m;	[unique]
d;	[unique]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	d t n g l v a b c f p i j w x	m e h u o	s	r	q

PILE SORTS: USES	
ITEMS	EXPLANATION
m t f s p o l j e r g h d a b;	"water related recreation; a lot of them can be done in the summer" "things people like to do when they come here" "to some people commercial fishing is fun"
q i;	"nonwater related activities"
k;	[unique]
c n;	"educational activities"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l o p s f t j r h e a				c k b i q g d m n

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
w m d k q t b i f g o h l u p;	"things that we don't need"
r j x e s;	"unsure whether these things are needed or not"
n v;	"natural disasters"
a;	"state questions not Dare County"
c;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	k d m w l u h o g f i q c r b n p t s e v			j x a	

**WHY/HOW:**

- 1) "Jetties will bring in low income housing and labor. In the long run these will hurt the fishermen here because they will bring in more competition."
- 2) "Red tide will affect fishing."
- 3) "Construction of bridges will lead to more highways." "If you put all these bridges coming in here and you bottleneck everyone into one area, what have you done? Like going into New York, you have to get out and walk."



- 4) "Relaxing environmental regulations would lead to more development and bring in more people which means higher taxes which is negative. There are a lot of people who are having trouble paying taxes."
- 5) "Marinas would lead to more people and degrade the water quality"
- 6) "Bringing in chain businesses would not be fair to business owners who have been in business all their lives. It might cost less now but you'll have to pay later."
- 7) "Sewage is already a problem. There is an increased bacteria count in the sound. Naturally the more septic tanks you have the more it will affect the water. Our drinking water has a higher salt content. They put wells here and they monitor them. It's just one disaster after another and one day it's going to be like it is in Hatteras we ain't going to have no more water."
- 8) "Unplanned development is the largest problem we have. Lot sizes should have been changed years ago. They should have been larger."
- 9) "Poor management of natural resources would have negative affects. I've been drug to court like a common criminal for putting a little bit of sand out here in the marsh just to try to exist down here but yet some crowd out of Raleigh or Rocky Mount can come down here and buy 500 acres of marsh and fill it and turn it into a bunch of town houses for a bunch of outside people. But a man who lives here, he can't even put a trailer in his backyard for his child to live in."
- 10) "Overfishing is not happening. Pollution is the problem. A fisherman will never catch up all the fish but if you kill his spawning grounds this will destroy the fishing."
- 11) "Too many people means overdevelopment. How many people can live here without making it unlivable? The carrying capacity study done in 1986 said NO MORE DEVELOPMENT. But then the politicians got together and lifted this moratorium. They spent I don't know how many thousands of dollars for the study but when they told them what they didn't want to hear they put it on a shelf somewhere to collect dust."
- 12) "A few tourists are healthy but there are too many here. If they'd come down and then they'd go back it would be better."
- 13) "There is no industry here. The only industry we have is development which has caused the pollution."
- 14) "If a military base is put here it would be a problem."
- 15) "The Clinton administration is going to be the straw that breaks the camel's back."
- 16) "I'd have to go along with offshore drilling. I don't know if it would make a change or not. It all depends on where these boats will come ashore. If it was come in here it might create a problem."
- 17) "Landfills getting full is a BIG problem. We don't have any high ground so we put landfills in low land. That means the pollution goes into the water."
- 18) "Stricter fishing regulations would make things worse. There should be more on the sport fishermen because they're not doing this for a living. Let the catch five or ten fish instead of sixty. They are depleting a supply which they don't have to do. And maybe a few more on commercial fishing but not so strict that they have put people out of work."

**COMMUNITY:** Wanchese  
**INTERVIEWER:** B  
**DATE:** 12/07/92  
**RESPONDENT CODE:** 012WAN  
**HOME:** South Roanoke Island  
**USE AREAS:** Oregon Inlet and channels that surround South Roanoke Island  
**LENGTH OF RESIDENCE:** Has lived here ten years but has visited for over twenty years.

**ISSUES:**

- 1)"Fishing industry regulations especially Turtle Excluder Devices (TEDs)"
- 2)"Being able to maintain the current culture and lifestyle."
- 3)"Political concerns--Wanchese is conservative and traditional."
- 4)"Concerns about educational philosophy. Influx of new ideas competes with traditional beliefs."
- 5)"Health concerns such as distance from health care. There are a good number of elderly people in Wanchese and they must go to Norfolk or Greenville for modern technology."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
d e f g i j k l m n o p q r s t u w x;	"Have to do with the physical characteristics such as land and water. These are things that any coastal area should be able to say."
c h a v b;	"These make up the Outer Banks. These are what the people are."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w j b v a c h m	r i e o p k	d f l t n g x	q u	s

PILE SORTS: USES	
ITEMS	EXPLANATION
a e h f p o m d;	"recreational uses"
l r j t s i;	"vocational uses--can make a living at these. Some could be recreational."
c;	[unique]
n;	"geographical or physical aspects of the area"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	t j r l (vocation)	q g m o p f e a (recreation of people here)	b d h i s k (elite or specialized activity)	n	c

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
p n r l s g v;	"Things that will directly and immediately, have a drastic affect on people."
c m w h f d b;	"Things that are controllable by proper people in proper places."
u o j;	"Would be nice to do but if never happened wouldn't matter [wouldn't have a profound affect]"
e a x k i q t;	"Things that are just life--unavoidable. Might not create much change."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	v r n p	b g s l	o w c h m f d k	x i q t u a j e	

**WHY/HOW:**

- 1) "Hurricanes would be immediately negative but could have long run positive outcome. Part of the natural process."
- 2) "Red tide would have an immediate negative economic affect on fishing."
- 3) "Oregon Inlet jetties would be positive because of safety and the continuation of the fishing industry. Who knows what would happen forty years from now."
- 4) "Stricter fishing regulations would be negative."

COMMUNITY: Wanchese

INTERVIEWER: B

DATE: 12/07/92

RESPONDENT CODE: 013WAN

HOME: Most of Dare County home--community = Manteo, Wanchese, Nags Head

USE AREAS: Use Pamlico Sound and Atlantic ocean for work. Uses sound more for recreation.

LENGTH OF RESIDENCE: thirty-nine years; has lived here all his life except eight months.

ISSUES:

- 1) Fishing laws especially flounder fishing. There's not enough research done and the quotas are hurting the fishing.
- 2) "Can't develop property because of CAMA regulations."
- 3) "Oregon Inlet jetties are needed. This company has had to move to Virginia because its boats can't get in and out of the inlet."
- 4) "Coast Guard is unfairly regulating commercial fishermen."
- 5) "Some are having problems with recreational fishermen. There are some regulations on commercial fishermen and not on recreational fishermen."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
g n t l f d q;	"related to the natural surroundings"
m h a c v b w;	"describes Wanchese community--people things"
i o r x;	"relaxation--describes things that promote relaxation"
u p j s;	"seasonal qualities"
e k;	"environmental qualities--people here are environmentally aware"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	r f i n g v c h m u k l	a b e t x	w j	o d s	p q

PILE SORTS: USES	
ITEMS	EXPLANATION
l t r j;	"types of commercial fishing"
o s k d g f;	"beach entertainment"
b e h p (f could go here also);	"boating events"
q a m;	"sporting uses"
i n c;	"educational uses"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a p h e f d g o m	t l r j	k b q s	i n c	

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
o b x g h;	"could overstress the environment--too many things for the environment"
t i q p;	"governmental changes--things we could be faced with"
f d e m u k;	"all of these are structural changes. All have to do with runoff which could go right out of Oregon Inlet if we had jetties."
n v l s;	"natural phenomena"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	v n w g p e r d s	a b c k f	q t i h m	o u j l x	

**WHY/HOW:**

- 1) "Hurricane could level the place."
- 2) "Stricter fishing regulations would put commercial fishermen out of business."
- 3) "Oregon Inlet jetties would help the community by benefitting both commercial and recreational fishermen. It would provide safe entry and flush the sounds."
- 4) "Sewage problems and too much tourism would affect the sounds."
- 5) "Relaxing environmental regulations could lead to overdevelopment."
- 6) "Poor management of natural resources has already killed the shellfish."
- 7) "More bridges would enable people to get out if there was an emergency."
- 8) "Red tide would hurt fishing."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/09/92  
 RESPONDENT CODE: 014WAN  
 HOME: Born and raised in Wanchese but more a citizen of Dare County.  
 USE AREAS: Use the sound for bathing, boating and fishing  
 LENGTH OF RESIDENCE: All of life

ISSUES:

- 1) "[Maintaining the] social fabric of community as it is today. Not become a repository for unsightly junk."
- 2) "[Important to maintain its] physical constitution as a residential community."
- 3) "Would like to see zoning and not have Wanchese become a repository for junk."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
i d u l n e q g t r;	"These qualities relate to living close to the ocean and sound."
x f p o w j b m;	"Related to peace and quiet of the area."
a s k h c v;	"Describes a close knit community."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h v j f x	m e l i	g n d w b p c	o a	s k q t r u



PILE SORTS: USES	
ITEMS	EXPLANATION
j t l r;	"Job related uses"
d o k q f b i s g m e h p a;	"Recreational uses"
c n;	"Cultural uses"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	e r l t j	f p	c h	d o	q k a m s i b n g

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
r g e p c j k;	"Would be beneficial to the community"
a b k f n v w d h s m u t l o;	"would be detrimental"
i q;	"don't fit either of these categories"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	r p b n h u l o	f v w d s m a	g e j	x t c	k i q

**WHY/HOW:**

- 1) "Jetties would bring influx of commercial fishing boats and support industry."
- 2) "Stricter fishing regulations could have the opposite affect and destroy the commercial fishing industry."
- 3) "Hurricane could obliterate Wanchese."
- 4) "Overdevelopment and too many people would be negative."
- 5) "More marinas would negatively affect water quality."
- 6) "Overfishing would impact the fishing industry."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/10/92  
 RESPONDENT CODE: 015WAN  
 HOME: Wanchese  
 USE AREAS: Local harbors  
 LENGTH OF RESIDENCE: All of life

ISSUES:

- 1) "Fishing restrictions especially Turtle Excluder Devices. There has to be a balance in environmental issues."
- 2) "Development is restricted. Have to build eleven feet above sea level. Makes it more expensive to build a house."
- 3) "Impact that environmentalists have on restrictions on commercial fishing and on developing land."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
q r u a s;	"Not important in Wanchese"
h e c n o l g;	"Good side of Wanchese"
k d i w b p t;	[Had these separate at first but when asked what made them similar he put them in with the pile of stuff that is the "good side of Wanchese".]
v j x m;	"Have to do with the area being quiet"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	g n c e t p w i d m j x v				k s u a b q h l o r

PILE SORTS: USES	
ITEMS	EXPLANATION
retljfphoa;	"Things that are done in Wanchese"
d cg q k m s i b n;	"Don't do much of this here"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	retljfphoa				d cg q k m s i b n

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
h p b o v w d g t q i k;	"Cause negative changes"
j x e m a l f u n c r;	"These wouldn't make any difference"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t o p r c u n				e g q i k d w v b h f l a m x j

**WHY/HOW:**

- 1) "Oregon Inlet jetties would bring in more ships, boats and industry and this would be positive."
- 2) "Too many people would create more problems with the environment and would lead to sewage problems."
- 3) "More marinas would bring in more industry."
- 4) "Hurricanes would wipe out the area."
- 5) "Offshore oil drilling wouldn't affect Wanchese. If there was a spill it wouldn't wash up in North Carolina. The current would take it somewhere else. During the war they could see the tankers burning offshore and it was far enough out there that it didn't affect the shore."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/10/92  
 RESPONDENT CODE: 017WAN  
 HOME: Village of Wanchese; South Roanoke Island  
 USE AREAS: Sounds and Atlantic Ocean  
 LENGTH OF RESIDENCE: Been here all of life except when he was in the service for six years during WWII.

ISSUES:

- 1) "Stabilizing Oregon Inlet. It has cost more than it ever should have."
- 2) "Fisheries are fouled up. In the last fifty years they have increased production on farms. They should do the same with fisheries."
- 3) "Tourism is the biggest income producer. We need to help and encourage the tourist bureau. Need to look ahead and do something better for the county."
- 4) "Government is in financial and spiritual trouble. It is getting away from any moral foundation."
- 5) "Offshore drilling could produce a second source of income."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
h s k q b a u n g r o i w p t c j d x v l;	"Positive qualities of Wanchese and Dare County"
e m;	"Not necessarily about Wanchese"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	o g n u i a b k l v x d j c t p w	e			m r q s h

PILE SORTS: USES	
ITEMS	EXPLANATION
a c;	"Educational uses"
o p f b i s m k g d;	"Activities done on the beach"
h j l t e r;	"All have to do with boats"
n q;	"Can do these things in national park"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a r e t l s	q	m o	n i s c	d g b f p k h

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
b v w p;	"These are things that are overdone. Too much to say about it; overtalked about; blown out of proportion."
a f h d n q m l i k;	"Things that aren't needed or that don't exist."
e x g u c r;	"Things that are needed in this area or overall."
t o j;	"People problems. We need more roads which leads to higher taxes."
s;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	r i k n	l m s	c o	t	b v w p q d h f a u g x e j

WHY/HOW:

- 1) "Oregon Inlet jetties would lead to positive change."
- 2) "Military activities are needed and would be positive. We need a strong military."
- 3) "Chain businesses would bring positive change."
- 4) "Hurricanes would bring negative change."



COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/14/92  
 RESPONDENT CODE: 018WAN  
 HOME: North End of Roanoke Island  
 USE AREAS: Walking on the beach or surf fishing  
 LENGTH OF RESIDENCE: All of life

ISSUES:

- 1) "Fragmentation of areas in Dare County. The Chief of Police is against having low life and thinks the only way to maintain order is ethnic purification. Many want to keep Roanoke Island only for the wealthiest immigrants and tourists and bus the service people into the area."
- 2) "Expulsion of the middle class. There is more class conscientiousness."
- 3) "Environmental Degradation. Water has gotten bad and most people are on bottled water. Manteo town water is terrible. Cadmium levels are high in Shallowbag Bay. There is also a loss of open space since population in Dare County has quadrupled there is a creeping ugliness."
- 4) "Traffic Problems in Manteo. There is one but no one knows what the problem is. They are talking about a bridge that will bypass Manteo but Manteo is still a destination with traffic for the new jail, aquarium and houses on North Roanoke Island. A Western Bypass would plow through the black section of town."
- 5) "Governmental Problems. There's too much government. Overburdened by law enforcement in the winter. They are needed in the summer but not so much in the winter. There is rampant stupidity, corruption and ineptitude in the government."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
v a b w c m p j x;	"These are reasons he decided to live here. This is how he rationalized his decision to live here."
h s k l u;	"Cultural things that a person who is trying to decide whether to live here or not would use in making the decision."
o e n q r d i g t;	"Physical things that a person who is trying to decide whether to live here or not would use in making the decision."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	d x j a v b w p	c l n t i g	o m	s	u e h k q r

PILE SORTS: USES	
ITEMS	EXPLANATION
o s n k f;	"Populist activities. Activities that a lot of visitors seem to engage in. Some locals do these if they have the time. There is little special equipment required."
a d g h e b p;	"Upper class industrial tourist uses that require greater wealth and expertise."
m i q;	"Offseason activities. Fairly populist sorts of activities. Immigrants or tourists in January bird watch, not locals."
j t r l;	"Activities that some local residents do for a living. Not many recreational oystermen or crabbers."
c;	"Region R has an average drop out rate of twenty percent. Few people come for educational purposes on field trips but they come in and go out and don't stay."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j t r		h e f	d	m a d g i q c l b n s o k (either physically impossible or passe)

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
n v;	"Potentially disastrous natural disasters. Could have catastrophic consequences."
g k;	"Human activities that can have adverse affects but not all bad. Neutral effects. May have some environmental effects but most effects will be cultural."
h o t;	"Cultural results of human activities [g and k]. Result of bringing more people in."
c j u m i r s e p w x;	"Salient short term affect would be on the environment"
d f a b l;	"Possible results of the activities in Pile 4 above."
q;	"Will probably have the proportions of a disaster. Man made disaster. Democratic party means more government and more taxes."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t k i p	n v	r u	d m a b f o s w g l h ("all these things already exist so wouldn't change it")	j q c x e (irrelevant)

**WHY/HOW:**

- 1) "Higher taxes will hurt because they are mostly middle class in Wanchese."
- 2) "Chain businesses would adversely affect what businesses there are in Wanchese."
- 3) "Military activities could have a big impact on fishing in Wanchese if parts of Pamlico Sound were used as targets and were off limits."
- 4) "Stricter fishing regulations would have a bad impact on Wanchese since most are commercial fishermen."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/14/92  
 RESPONDENT CODE: 019WAN  
 HOME: Wanchese  
 USE AREAS: Pamlico Sound for recreation  
 LENGTH OF RESIDENCE: All of life

ISSUES:

- 1) "Oregon Inlet jetties are a major concern. Fishermen support it to get in and out more easily but is afraid of more boats coming in from other places."
- 2) "Restrictions on the fishing industry will affect the fishermen."
- 3) "Water system. The county put in a water system and said it wouldn't affect the wells in Wanchese but some of the wells ran dry about ten years ago because the Beach uses too much water."
- 4) "People moving in. Population growth means more problems. People should just stay put."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
v c k a;	"These are all about the people"
i d;	"These concern the air and climate"
l g n t e q r;	"Water related qualities"
p m x;	"Just seemed to go together"
b j w o;	"Descriptive of small town or rural atmosphere"
s;	[unique]
u;	[unique]
h;	[unique]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	c v d i e t n g l w j b	p m x a k r o	u s h q		

PILE SORTS: USES	
ITEMS	EXPLANATION
g f p h b e d o;	"Fun things you can do"
t l j r;	"Livelihood for people"
m a;	"What other people from other places come here to do. People here can't afford it."
s i n;	"this is what tourists do"
c;	[unique]
k;	[unique]
q;	[unique]

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	e p f r j t l	o h	d g		b m a s i n c k q

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
v c r p l v;	"All of these relate to fishing or water work"
k d m h t;	"Planning for the county [issues]"
f a;	"Both relate to pollution"
b x s w;	[have to do with keeping natural resources clean from trash]
j e;	"deals with construction"
g o;	"these are the same. Tourism means too many people."
n;	[unique]
i;	[unique]
q;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l p r c h m d n t o	s w v u	k b x	g j e	q a f i

**WHY/HOW:**

- 1) "Overfishing would be negative. It's not like it used to be but now you have people moving in setting crab pots and there's no space in the sounds for setting long nets. People are too greedy."
- 2) "Stricter fishing regulations. There should be a balance between stricter regulations and overfishing. Regulations could put fishermen out of business but some are good."
- 3) "Oregon Inlet jetties. There are pros and cons. No one knows for sure how it would affect the environment but it is bad when you have a husband or father that can't get in when there's a storm."
- 4) "Offshore drilling. You just don't know what would happen. If it brought in more people it would be bad."
- 5) "Overdevelopment. The Beach is a good example of this. The structures there haven't been tested [and probably wouldn't sustain a big storm].
- 6) "Unplanned development. There is none in Wanchese but we're all interrelated and it would affect Wanchese."
- 7) "Sewage problems will be a big problem because of all the people moving in."
- 8) "Hurricanes. Wanchese is low and has tide during a northwest wind. There is only one road. The weather channel forecasts them so far in advance that when they finally get here people don't take [the warnings] seriously."
- 9) "Higher taxes would be awful. People who move here from other places think we have low taxes but locals don't think they're low."
- 10) "Too many people is a problem. People who move in want to make it the same way as the place they came from then they complain about the traffic. I can't hoist it aboard [meaning I can't understand it]. They end up destroying the very things they thought were attractive when they moved in."



COMMUNITY: Wanchese

INTERVIEWER: B

DATE: 12/14/92

RESPONDENT CODE: 020WAN

HOME: Southern Shores

USE AREAS: All the water for research and for recreation. Beaches from Corolla to Portsmouth.

LENGTH OF RESIDENCE: Has lived here ten years and did research and fished seven years before that.

ISSUES:

- 1) "Overfishing by too many fishermen."
- 2) "Commercial fishing gear is too nonspecific."
- 3) "Poor marketing of seafood"
- 4) "Water quality and degradation of estuaries"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
h a b c v s;	"Aspects of the community that are nice but aren't important to me."
n i d e t g r u;	"Some of the important reasons why I moved here."
p o w j x;	"Other reasons I moved here that aren't as true as they used to be. And when they disappear, reasons I may leave."
l q m;	"Benefits of the area"
k;	"Something I wish was true of larger proportion of the population."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	t d i l v a b h n p	e g w u	s c o j x m		r k q

PILE SORTS: USES	
ITEMS	EXPLANATION
h p f d g b e;	"Active water sports"
r l t;	"Recreational and commercial harvesting of water resources"
s n;	"Sight seeing"
o;	"Non-active beach sport"
i;	[unique]
c;	[unique]
j;	[unique]
q;	[unique]
k;	[unique]

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	q j r l t e	a	m p g k n	f b h d c o	i s

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
l r u d a f s c;	"Various man-induced threats to quality of fishing in this area and indirectly to water quality."
n v;	"Natural occurrences that can damage the environment"
p q x;	"The only things that would have a positive impact on the environment."
j k g o m h w;	"Aspects that are currently and continuing to degrade the natural beauty in this area (Dare County)."
b e t;	"Results of items in Pile 4 above."
i;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l o c n m h k f w	i j e d u g s	a r p		v x b q t

**WHY/HOW:**

- 1) "Overfishing and poor management of natural resources could put many out of business."
- 2) "Too many people threaten all aspects of natural resources."
- 3) "Offshore drilling would have the greatest impact on this area. Dare County would change from a fishing, recreation and tourist area to an industrial area. Industry would come in and bring excessive pollution and they contract out to companies that pollute."
- 4) "Hurricanes would clear a lot of land."
- 5) "Unplanned development, overdevelopment, chain businesses, and industrial pollution would totally degrade what Wanchese is today."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/14/92  
 RESPONDENT CODE: 021WAN  
 HOME: Wanchese  
 USE AREAS: Use ocean for work; some fishing in sound.  
 LENGTH OF RESIDENCE: All life. Left at age fifteen but always came back.

ISSUES:

- 1) "Sanctions put on fishermen. They're necessary but I resent them in a way."
- 2) "Oregon Inlet jetties are a way to get to work for fishermen and are a necessity."
- 3) "Fishing has slacked off and building has slacked. A lot of beach stuff is seasonal but fishing could be more stable. Contractors are facing CAMA regulations."
- 4) "In the county all business dropped off this last year."
- 5) "Have overextended in our area. Don't have enough water and sewage control in the county."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
n g u x w c e h v l r t i b;	"These are all the qualities that are in Wanchese."
a d q o m s j p;	"These are things that don't exist in the community."
k;	"Can't really say."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	rlvhewxugntib		k		pjsmoqda

PILE SORTS: USES	
ITEMS	EXPLANATION
inmdgpfkbsheo;	"All these are recreational"
jlrt a;	"These are all done commercially"
q;	"No deer hunting on the island"
c;	"This could go with sight seeing"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	rtjlbshpe		d	fgmniaok	qc

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
l o n v s w d a h;	"Changes that would hurt us in Wanchese"
f m k b;	"In the future may occur and could become a problem"
g x e r;	"These are positive changes"
p u t;	"Things that might have to be done in the future if things progress the way they have."
j;	"Doesn't make a difference"
q;	"Have to wait four years to see"
i;	"Not an issue"
c;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	m b f h d w s v n o l t r p x a e g u k c				i j

**WHY/HOW:**

- 1) "Unplanned development could hurt"
- 2) "Landfills getting too full will hurt"
- 3) "Industrial pollution would kill the sounds"
- 4) "Overdevelopment and not have resources could hurt"

- 5) "Sewage problems we already have on the beach. Have a problem finding a place for a septic tank on the island."
- 6) "Poor management of natural resources could kill us both fishing and development."
- 7) "Relaxing environmental regulations could kill the environment but some are unnecessary."
- 8) "Red tide would kill fisheries and tourism"
- 9) "Hurricanes would wipe out the area"
- 10) "Too many people and no resources would be bad"
- 11) "Overfishing could seal our fate as fishermen"
- 12) "Higher taxes would cause hardships here [in Wanchese] but some areas that depend on tourism could be blessed."
- 13) "Oregon Inlet jetties. Don't know what the impact would be environmentally. All hard structures [on the beach] are bad but as times change do we change with them? Stabilization would help going and coming of large boats. Would also get larger sail boats and would help any waterman; recreational, commercial and charter.
- 14) "Stricter fishing regulations. This is something that will have to be governed by the resource."
- 15) "Recycling. Would be better off if we did this but it's such a job to do it. Which is cheaper?"
- 16) "Have farm runoff from up river"
- 17) "More tourism would increase the clientele at the restaurants but may put more pressure on us."
- 18) "More marinas. There will be a need for more as more tourists come and as there's more traffic in the sound. Could affect Wanchese if one was built here."
- 19) "Chain businesses. Too much of anything is not good. The local businesses would be put out of business."
- 20) "Offshore drilling. Most of major oil spills are from transportation. Tanker trucks hauling fuel are the most dangerous on the road. Drilling would be a necessity for convenience. We don't know how to live without fossil fuels. But don't know if it would be helpful or harmful. Nothing on the beach is stable. Why run a pipeline to a place where bridges and goods aren't stable or available? It's expensive to bring things in and out. We don't have the infrastructure for it."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/16/92  
 RESPONDENT CODE: 022WAN  
 HOME: Kill Devil Hills  
 USE AREAS: Ocean, beaches and water for surfing and swimming  
 LENGTH OF RESIDENCE: ten years

ISSUES:

- 1) "Oregon Inlet jetties. The WSIP in Wanchese is nonfunctional. Also have old fishing families who don't have reliable access in and out of the inlet. Fishing families have had to move. The state said it would build the park and the feds would build the jetties but it never panned out."
- 2) "Federal regulations on fishing especially TEDs"
- 3) "Crime and drugs"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
i t n r e d l q g;	"These are all related to natural resources"
x u j o p m w;	"Sense of place and character of area"
a b c v k;	"Intangibles that relate to quality of life"
s h;	"Don't fit any of these categories"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	g l w p o j x v c b a h	k e n t i	s m	d	r q u



PILE SORTS: USES	
ITEMS	EXPLANATION
e m d a p h b f g k;	"Water related recreational activities"
i o q;	"Not water related recreational activities"
l r t j;	"Seafood--may or may not be recreational"
s n c;	"general tourism"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	h r e j t l	a d p f s	b c		i n m k g q o

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
h d o m f j k b g;	"Change--go together as result of change or as a result of growth"
x w s p q t;	"Related to government activities"
v n;	"Natural phenomena"
u e r c;	"Relate to industrialization of infrastructure improvements"
a l;	"Natural resource loss or environmental degradation"
i;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c n p v r l	t q s w	f m b o d h x	a g k j e i	

**WHY/HOW:**

- 1) "Offshore oil drilling could have both positive and negative impacts. If an accident occurs it will put Wanchese out of business. Any infrastructure assistance facility would create more jobs. The Dare County land use plan has opposed it."
- 2) "Hurricanes would be a problem"
- 3) "Red tide would affect the families who depend on fish."
- 4) "Stricter fishing regulations will cost some people in the short term but in the long term may preserve their ability to fish."
- 5) "Jetties would ensure reliability of access."
- 6) "Overfishing would decrease the supply of a natural resource and end the livelihood of some."
- 7) "More marinas might give more people an opportunity to get to the water but they may also lead to water pollution."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/16/92  
 RESPONDENT CODE: 023WAN  
 HOME: Wanchese  
 USE AREAS: Sounds for recreational fishing, crabbing, clamming and boating.  
 LENGTH OF RESIDENCE: All of his life

ISSUES:

- 1) "Mobile Oil moving in. Afraid that the same thing will happen here that happened in Louisiana."
- 2) "Oregon Inlet jetties. Not in favor of the jetties. Don't want all of the additional people in Wanchese."
- 3) "Water problem and septic tank problem. We've outgrown our boundaries. The county drilled big wells in Wanchese fifteen years ago. These problems can be corrected with intelligent planning."
- 4) "Growth of Dare County has to be done carefully. We're as big as we can stand to be"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
t g l r b d e o;	"Things that I take for granted in the area. Things I see on a daily basis."
m c q j p w;	"Things that are either untrue about the Outer Banks or are irrelevant to me."
x s i n a u v h k;	"Things that are true and makes the Outer Banks what it is."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h v u a n i x	b l t g w c	e d p j	q r o s	k

PILE SORTS: USES	
ITEMS	EXPLANATION
q;	"Not a recreational or commercial part of this area. Doesn't fit any of the categories"
j;	"Doesn't fit in any of these categories unless clamming and crabbing could be considered commercial."
m r a l t;	"[Things I] see myself doing personally"
c n i s;	"Things I see a handful of tourists doing"
k d g f o b p e h;	"Yuppie category or young people do these things"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l t r q j	e p o d m	a k g f b h		c i n s

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
q x c t r o k f h d m;	"They deal with the environment and industry. Group of good and bad things."
a g u l w b v n;	"Good and bad on a local level. Problems for Dare County that can be managed on a local level."
p;	"Category on its own, is a separate entity. Doesn't even fit in with the jetties. Is a major problem and should happen."
i;	"Own category. We don't deal with military except the coast guard"
s;	"Ridiculous. We won't even talk about that one."
e j;	"Strictly a state level issue"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c	r	f	h	q a b d e g i j k l m n o p s t u v w x

**WHY/HOW:**

1) "Offshore oil drilling. We have proven in the last five or six years that humans are truly remarkable. We are the only species that has been able to pollute and entire ocean. Reasons against drilling include; 1) No matter how careful they are there is a chance of an explosion or spill and this small, vital island couldn't take it, 2) It is purely a greed thing. There are alternatives, 3) If they run a pipeline to Cape Hatteras or to Wanchese and build their platform station of the island and put their workers here, it will change the infrastructure, 4) Wouldn't want to have the type of community this would bring in."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/17/92  
 RESPONDENT CODE: 024WAN  
 HOME: Wanchese  
 USE AREAS: Most recreation on beach and sounds  
 LENGTH OF RESIDENCE: Dare County native but has lived in Wanchese thirty-six years

ISSUES:

- 1) "Restoring the oyster stock"
- 2) "Stabilization of Oregon Inlet for the good of North Carolina"
- 3) "Need a flourishing economy because we produce a perishable product"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
e m s g q r;	"These aren't true of Wanchese"
a b c d f h i j k l n o p t u v w x;	"These are qualities that are true of Wanchese"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	i o l x g h v k c b t n w a	u	p j d m e		s r q

PILE SORTS: USES	
ITEMS	EXPLANATION
l p a j f t r e;	"Things that are done here the most"
o s k;	"Things done here sometimes but not very often"
g i h b c m q d n;	"These things are not done very often in Wanchese"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l p a j f t r e		o s k		g i h b c m q d n

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
r q c;	"These things would help the area"
v b x t o m p s u h k l d n;	"These are things that would hurt Wanchese"
f a i g j e w;	"These are the things that we don't need"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c q r p o t v d m	l s x	f k	w e j g i a b h u n	

**WHY/HOW:**

- 1) "We already have sewage problems. Everyone here is on septic systems but have to depend on ground water for drinking water."
- 2) "Offshore drilling would hurt Wanchese because it would bring in different type of people who wouldn't fit in."
- 3) "Unplanned development. We'd wind up with ruffraff."
- 4) "Construction of jetties would help in that it would help bring back the fishing heritage."
- 5) "Stricter fishing regulations are not the answer. Don't think there is overfishing as much as there is pollution and destruction of hatcheries with development. People enforcing these regulations aren't realistic. Every turtle dead is not killed by a fisherman. They should have lifted the TED rule by now. There aren't any turtles in this cold water now. TEDs cost a fisherman one third of his catch."
- 6) "Wanchese doesn't have too many people and it probably won't happen because there's no land available."
- 7) "We're overtaxed already"
- 8) "Red tide would kill us"
- 9) "The Clinton Administration will help us"



COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/17/92  
 RESPONDENT CODE: 025WAN  
 HOME: Wanchese  
 USE AREAS: Sounds and beach (Nags Head) in the summer  
 LENGTH OF RESIDENCE: sixteen years

ISSUES:

- 1) "Zoning. Would like zoning so no large commercial industry could move in. Want it to remain the same.
- 2) "Stabilizing Oregon Inlet"

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
l q g;	"All have to do with fishing and water"
a b c v;	"Describes the people. Has to do with the people in the community"
x;	"Tells you that Wanchese is a restful community"
o;	"Houses aren't on top of each other and we have privacy"
m;	"People look out for each other in Wanchese"
s h;	"No architecture. Describes what Wanchese used to be"
r e k i;	"Describe the environment of water and beaches"
n u t d;	"Describes the weather"
w p j;	"Describes that Wanchese is not on the beach along with the tourists"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v b a t d j p w	x m i e r n	c o k u	l	g q h s

PILE SORTS: USES	
ITEMS	EXPLANATION
q l c b;	"These are things that aren't done in Wanchese"
t j r a;	"Commercial activities, fishing"
m e g f p h k d;	"Recreational things"
i o s n;	"Place to go or sight see. Attractions of the Outer Banks"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	r j t	p f e	a	h	d k g m b c l q n s o i

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
c l r;	"These all have to do with fishing--could affect fishing"
a v f;	"All have to do with water pollution"
g o;	"Have to do with population"
i q;	"Have to do with new administration. No military activities in Wanchese."
m j b k u h;	"Have to do with land that is left and how they would develop it."
t p;	"Issues. Would change Wanchese for the worse if they did this"
s w;	"Have to do with water environment"
x e d;	"How it would change the waters and landfills--drinking water"
n;	"Could wipe out Wanchese and change it physically"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l r g o m h u p w s n	e c k d	v f x	t	a i q j b

**WHY/HOW:**

- 1) "Jetties would bring in more fishing boats and this would be negative"
- 2) "Overfishing would destroy fishing and there would be no boats and people would have to move. [This would be negative]"
- 3) "More tourism would change Wanchese totally for the worse"
- 4) "Too many people [would mean that] Wanchese would be overcrowded [which would be negative]"
- 5) "Hurricanes would wipe it out physically"
- 6) "Unplanned development. Would have no control over how land gets development. Zoning is needed to prevent commercial industry from moving in."
- 7) "Overdevelopment is like overcrowding."
- 8) "More marinas. Not sure if it would be negative or positive. Probably negative. They would have to stabilize the inlet."
- 9) "Stricter fishing regulations. Boats wouldn't even bother going out anymore."
- 10) "Relaxing environmental regulations. If the size of lots were smaller it would be worse. Septic water would be running into wells. Unless we were on the county water this would be bad. The county pumped water from under Wanchese and wells ran dry."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/17/92  
 RESPONDENT CODE: 026WAN  
 HOME: Roanoke Island/Dare County  
 USE AREAS: Marsh for duck hunting. Shipwrecks for diving.  
 LENGTH OF RESIDENCE: Around thirteen years. Lived here from birth til age seven then from age twelve to eighteen.

ISSUES:

- 1) "Oregon Inlet stabilization--against stabilization"
- 2) "Development--houses and more people"
- 3) "Religion is indoctrinated in youth and is narrow minded"
- 4) "Commercial fishermen are their own worse enemy. Can't agree on anything. It's one type of fisherman against the other."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
j r x o h e i d;	"These have to do with the environment"
q g n t;	"Things you can do"
l p c m v w s a b k u;	"Community qualities"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	i e o x j t n g b a w v c p l	s	m r d	h q	k u

PILE SORTS: USES	
ITEMS	EXPLANATION
l q a m r t j;	"These are uses that take things from the environment"
h f g i o k s d;	"Coexisting with the environment. Don't hurt the environment"
p e b;	"Can do these in environment but hurts it some"
n c;	"More intellectual pursuits"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l j t r m a q f e	k h b p	d o g		s i n c

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
i b t a d p n l f w h v;	"Things that are the pits. Nobody wants this"
g e c r o m k j u s;	"Things that some folks think are good but I think are the pits"
x q;	"Things that are going to help the environment"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l p d i m r c q	h w n t v o	f b u j k s	g x	a e

**WHY/HOW:**

- 1) "Overfishing will introduce more strict environmental regulations"
- 2) "Stricter regulations will put a lot of people out of business"
- 3) "Sewage messes up the sounds and puts people out of business"
- 4) "Military activities would put a lot of fishing areas off limits if they had target areas"
- 5) "Unplanned development would lead to bars in Wanchese. Many fishermen are on drugs"
- 6) "Offshore drilling. If Wanchese were the base for operations (it has cheap property and the WSIP) oil rig people would move in."
- 7) "Clinton Administration will lead to more stringent environmental rules which will be bad in the short term (gas will be more expensive) but good in the long term."
- 8) "Oregon Inlet jetties. If Oregon Inlet is stabilized Wanchese will have bars and people who work on fishing boats are either in the family or have nothing else. Now there is nothing to do in Wanchese and these people go to the beach. If a larger fleet comes into Wanchese there will be bars."

COMMUNITY: Wanchese  
INTERVIEWER: B  
DATE: 12/22/92  
RESPONDENT CODE: 027WAN  
HOME: Outer Banks but lives in Wanchese  
USE AREAS: Ocean mostly but a lot in the sound. Have a boat.  
LENGTH OF RESIDENCE: Fifteen years in Dare County and eight years in Wanchese.

ISSUES:

- 1) "Main population base is commercial fishermen. Commercial fishing is a way of life that is threatened by regulations and unstable inlets."
- 2) "Water is a problem. Dare County put in wells in Skyco and everyone had shallow well pumps. When they turned the county pumps on the water table dropped and wells went dry. This was about 1982. Water quality is a problem."
- 3) "Zoning. There is no zoning in Wanchese. Nothing will happen [with zoning in Wanchese]. He was one of the few who attempted to get zoning in Wanchese. They don't want someone to tell them what to do."
- 4) "Sewage is a problem. Everybody has their septic tanks and drain fields. Pretty soon the sewage is going to start bubbling out of the ground. Wanchese will eventually get on county water. WSIP has sewage treatment plant and it is state owned property." [Perhaps it could be used in the community of Wanchese]



PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
d i r k e	"Has to do with the cleanliness of the area. Environmentally clean"
q t g l	"Has all to do with water and activities that I enjoy"
v	"Doesn't pertain to me. I'm not a native."
p	"Not true. Seasonally yes but most of the time it is horrendous"
m	[unique]
sh	"I don't know why"
u b x c a o w j n;	"Give the sense of a small, friendly community."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	l g t i d v p m n j w o x b	e h a c	k s	u r q;	

PILE SORTS: USES	
ITEMS	EXPLANATION
l j t r	"Have to do with commercial fishing"
h p d b f g a m e	"Water related recreational activities"
s i c q k o n;	"Other recreational activities not really related to water"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	r l j t e	a i h	m f b d p		n o k q c s g;

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
c s p t i q	"These are things that could happen because of the federal government"
n v	"These are out of our control. It's gonna happen by nature."
a x h f b d w l	"Environmental issues which we could have control over on the state level down."
k u e j m r	"Signifies actual physical development"
g o;	"Deals with the number of people"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	p c v l d r e	q s n w f a h m u	k x t i		g o b j;

**WHY/HOW:**

- 1) "Stricter fishing regulations would be bad for the commercial fishing industry"
- 2) "Construction of bridges. There was talk at one time that the Oregon Inlet bridge would be replaced by a bridge from Wanchese to Pea Island. I don't think it will happen but it would affect Wanchese."
- 3) "Offshore oil drilling would be bad. If they used the port in Wanchese it would be bad. It will have no economic benefit for Dare County."
- 4) "Red tide and overfishing would affect commercial fishing"
- 5) "Oregon Inlet jetties would give commercial fishing a giant shot in the arm. [Some fish companies] have had to move to Hampton because they don't have safe passage in and out of the inlet."
- 6) "Sewage is a problem in all of Dare County. Pretty soon it will start bubbling up out of the ground."

COMMUNITY: Wanchese  
 INTERVIEWER: B  
 DATE: 12/22/92  
 RESPONDENT CODE: 028WAN  
 HOME: Wanchese; from Orman Mann's store south  
 USE AREAS: Golf on the beach; uses cottage in Hatteras; ocean for fishing  
 LENGTH OF RESIDENCE: All of his life; 46 years

ISSUES:

- 1) "Stabilization of Oregon Inlet. Not optimistic about it ever happening. When you are dealing with different government bodies it's hard [to get anything done]. The Department of the Interior is holding out."
- 2) "Regulations and restrictions on fishermen by NC Marine Fisheries and National Marine Fisheries."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
h m v n p i t w b c g l	"Most important to me"
k d r s a q j o x	"Second most important to me"
e u;	"Least important to me. There is no seasonal lifestyle here and the sound water quality is bad."

SCALED PILES: QUALITIES (Note: He arranged these as reasons he'd tell someone to live in Wanchese)					
PILE	1	2	3	4	5
ITEMS	c g l m	a j h v n t b	k r d x i w	u s o p	e q;

PILE SORTS: USES	
ITEMS	EXPLANATION
trlj	"Ways to make a living"
e	[Unique. Encompasses quite a bit of activity]
d h p g	"Light type of recreation"
m q a	"Have to travel to get to these. I do these things."
f b i o	"Something I'm not interested in"
n	[Unique. Doesn't like government]
s	"Something everybody does"
c	"Disgusted with the educational system"
k;	[unique]

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	trljo	aeqmgp	bfnkscd	h	i

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
u	"No need for these in Wanchese"
p l	"Will affect Wanchese more than anything else. There is no overfishing but the public has been convinced there is which leads restrictions."
j c e r	"All four would add to or enhance the lifestyle of people in Wanchese"
m q a h o d	"Things that don't have an affect on Wanchese"
t	"It's a concern but doesn't fit any other category"
g	"Dare County depends on tourism but it will be destroyed by the US economy. The county has put way more than enough effort in that. We should let the businesses take care of advertising, not the rest of us [meaning the county]"
x	"Needs to be mandated by congress"
f w	"Studies by biologists of striped bass showed that no eggs were hatching in the water. They couldn't blame that on commercial fishermen. It's industrial waste that is the problem."
k	"This is going to happen and you're not going to stop them. It's the American way."
i	"No military activities except the Coast Guard which has started enforcing regulations and leaving boats broken down in the water and won't haul them in."
n	"Would be a problem"
v	"Never been a problem here"
s;	"Something that won't happen in the next five years"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	p r c s n v	u l j t b k i	a m w	e o d g	q x h f

**WHY/HOW:**

- 1) "Stricter fishing regulations will certainly hurt the way people make a living in Wanchese"
- 2) "Oregon Inlet jetties would enhance the living of people in Wanchese."
- 3) "Oil drilling would enhance the standard of living in Wanchese if they use Oregon Inlet. They pay well. Oregon Inlet would be stabilized if drilling took place offshore."
- 4) "Relaxing environmental regulations would have a good effect."
- 5) "Hurricanes and red tide would devastate us."

#### 4.4.2 Nags Head

##### Free-listing Data

##### Quality of Place

beach  
beaches  
beaches  
beauty  
biking  
bird sanctuaries  
bushes  
Cape Hatteras National Seashore  
clean water  
clean water  
clean air  
cleanness (natural state)  
Colington Island  
diversity of environment  
diversity of people  
dress casually  
ducks  
dune grasses  
dunes  
dunes  
fishing  
fresh air  
geese  
general relaxed  
generic beach plant diversity and vegetation  
grass  
Hatteras National Seashore  
Jockey's Ridge  
Jockey's Ridge  
Jockey's Ridge  
little traffic (compared to cities)



low density development (predominantly single family)  
Maritime Forests  
mild weather  
Nags Head Woods  
Nags Head Woods/Maritime Forests  
national seashore  
natural beauty  
natural walks  
no air pollution  
no noise pollution  
ocean  
ocean  
ocean  
ocean  
ocean  
ocean  
open space  
Oregon Inlet  
Recreational Opportunities  
relaxed lifestyle  
remoteness  
Roanoke Sound  
Roanoke Island  
sailing  
sand  
seasonal business (summer vs. winter) free time during winter  
seasons  
seasons  
solitude of banks  
sound  
sounds  
surf  
surfing  
surfing  
swimming  
The strip of sand that the towns are on (the barrier island)  
weather

weather  
Weather  
wetlands  
beach  
beach  
clean air  
clean water  
clean environment  
cleanliness of water  
cleanness  
climate  
Community size (small to mid-size)  
Community Activities (a lot to get involved with)  
diverse group of people  
diversity of topography/topographical changes in area/pleasing to eye  
enjoying being outside  
federal parks/state parks  
fishing  
fishing  
fresh seafood (right off the boat)  
friendly people  
healthy environment  
history (of the place)  
homogenous attitude about goals for community  
lack of crime  
lack of traffic  
Location (far from cities but close enough if you have to get there)  
Lost Colony  
lots of seafood  
low crime rate  
low density development  
mild seasons  
moderate climate  
National Seashore  
natural resources  
nature walks  
not really crowded (except summer)

not polluted  
open spaces  
parks  
Preservation of family beach (compared to Morehead City)  
qualities of physical environment translates into recreational opportunities  
remoteness  
seafood:crabs  
seafood:oysters  
seafood:shrimp  
seafood:spot  
seafood:tuna  
sight-seeing  
small town atmosphere  
small town atmosphere  
solitude (except in summer)  
surfing  
The people (make it a good place to live)  
variety of activities to enjoy  
walking on the beach  
weather  
weather  
Winters (quiet time in Nags Head/No tourists)  
Wright Brothers Movement

#### **Use of the Environment**

beachcombing  
(solitude of beaches) psychological health  
beaches  
bicycle  
bird watching (Audobon Society)  
birdwatching  
boating  
boating  
commercial fishing (livelihood)  
commercial fishing

commercial fishing  
diving  
enjoying open space  
fishing (recreation)  
fishing  
fishing  
fishing  
fishing  
fishing  
fishing tournaments  
fishing  
hang gliding  
hang-gliding  
hanggliding  
hobie cats  
income  
jogging  
kite flying  
personal fishing  
pier fishing (3 piers in Nags Head)  
recreation  
recreation  
recreation  
recreation  
recreational fishing  
recycling (beauty leads to concern for the environment)  
rent boats - sound fishing  
sailing  
sailing  
sailing  
sailing  
sandboarding  
scuba diving  
seasonal lifestyle  
skiing Jockey's Ridge (sand boarding)  
snorkeling

sun bathing  
sunbathing  
sunbathing  
surf fishing  
surfing  
surfing  
surfing  
surfing  
surfing  
surfing  
swimming  
swimming  
swimming  
swimming  
swimming  
tourism  
tourism  
visit to just get away  
visit beach  
volleyball  
water skiing  
watersports  
windsurfing  
windsurfing  
windsurfing  
windsurfing  
you don't ahve to try too hard to go out and see nature  
4 wheel driving on the beach (for pleasure)  
beach: visiting the beach  
beachcombing/walking on the beach  
beachgoer  
beachwalk  
bike riding  
birdwatching  
Boating  
calming attitude, mental therapy (ocean)  
charter boats

climbing Jockey's Ridge  
crabbing  
dealing with environmental agencies  
deep sea fishing  
driving on beach (in winter)  
eat alot of seafood  
educate people about environment in park  
enforcing environmental rules and regulations  
Entertain out-of-town relatives  
fish  
fish  
job based on environment (Jockey's Ridge)  
jogging  
nature walks in Nags Head Woods  
ocean fishing  
pier fishing  
promote and protect environment  
recreation (I don't come to the beach to relax  
sailing  
small boat fishing  
sound fishing  
sunbathing  
surf  
surf fishing  
surf  
surfing  
surfing  
swimming in the ocean  
swimming  
Using the National Seashore and other Parks  
visiting Hatteras Lighthouse  
Visiting Nags Head Woods  
walking in the woods  
Walks in Nags Head Woods  
watching wildlife  
windsurf

## **Risk Perception**

Hurricane

Nor'easters

oil spills

septic systems -- draining into the sound

barges running into the bridges

overdevelopment

building too many houses, hotels, condos in protected areas

overuse of natural resources

excessive growth

overbuilding

overcommercialization (Wal-Mart Issue)

water pollution

air pollution

too many cars (adds to air pollution)

industrial pollution

oil spills (from tankers)

chemical spills (hurts shellfish)

highrises being built on ocean (shade the beach)

wastewater treatment

Improve - better recycling effort

offshore oil drilling

landfill pollution

pollution in the sound

beach trash

litterbugs

tourist problems

"Attitude Problem", the they don't live here attitude", or they are on vacation attitude

new bridge

jetties

beach erosion

state initiative to reconstruct major roads making the Outer Banks more accessible

development of a central sewage system

offshore oil drilling

Major Tropical Storm or Category four or five hurricane

relaxation of land use policies which promote single family housing (this encourages larger scale development)

loss of/destruction of Nags Head Woods (the woods are irretrievable)  
destruction of main bridges connecting Nags Head to the Mainland -- including the bridges that connect Roanoke Island to Mann's Harbor, etc., not just the Baum and Wright Memorial Bridges.  
large central hospital (see 004Nag) (could make Nags Head a retirement community)  
change in demographics  
major industrial development (that conflicts with tourism)  
destruction of dune system  
reduction of water quality in the sounds  
failure to obtain potable water  
demise of educational facilities  
landfill  
hurricanes  
fires (due to wind)  
storms -- Nor'easters  
residential and community development (especially on sound and wetlands)  
overdevelopment  
increased population  
increase in year round residents  
depletion of water supply (without having a way to replenish it)  
offshore oil drilling  
hurricane  
construction of a second bridge  
landfill filling up  
offshore oil drilling  
overpopulation  
natural disasters  
hurricane  
over-population  
development  
summer population spilling over into year-round population  
consolidation of governments  
increased population  
hurricane  
pollution  
running out of potable water  
water quality (in sounds)  
continue changing attitudes about trash and taking care of environment  
water pollution



septic tank leakage  
farm runoff  
upstream pollution  
continued use of and too many septic tanks  
changes in groundwater  
offshore drilling  
oil on the beach (ruin the economy)  
jetties  
higher taxes  
larger influx of people year round  
natural disaster  
the bridge getting knocked out again (Bonner Bridge)  
immigration of retirees (with a bad attitude)  
non-locals take control  
tourist harassment  
pollution (any form)  
ocean pollution  
out-of-state businesses moving in -- does nothing for local economy/environment  
uncontrolled development  
continue with unappealing development  
more development without concern for the environment  
unnecessary development  
using groins, jetties, hardened structures to abate erosion  
getting rid of height limitations  
relaxation of state policy to not build hardened structures on beach  
offshore oil drilling  
building seawalls  
more hardened structures  
overpopulation  
slackening litter laws  
population growth continues  
increased development of commercial and residential areas  
depletion of water supply  
destruction of maritime forests  
uncontrolled growth  
natural disasters  
hurricane

jetties being built  
construction of another bridge  
increased transportation networks  
building a bypass around Manteo (will make a "strip" on Roanoke Island which will ruin island)  
less emphasis on fishing  
more emphasis on tourism (like has been happening)  
increased population  
trash problem (litter)  
overdevelopment  
relaxing zoning ordinance  
allowing more development than is planned  
high rise hotels  
reducing lot size and set backs on ocean lots

FILE SORT DATA

RESPONDENT CODE: 004NAG

HOME: From eighth street (to the north) to National Park Service Property (to the south).

USE AREAS: For recreation: ocean and sounds, beaches and estuaries, Nags Head Woods, Jockey's Ridge, NC 12 for biking and sight seeing. Work: job requires familiarity with recreational uses of and impacts on the aforementioned environments.

LENGTH OF RESIDENCE: Five (5) years -- full-time resident.

ISSUES:

- 1) Water Quality: "Maintain the highest possible recreational water quality in sound and ocean. Nags Head is a golden -- its natural resource base is its reason for its existence. We must protect our natural resources or lose the golden egg. Offshore Oil Drilling is one thing that could disturb this [the golden egg]."
- 2) "Maintain balance between economic development and environmental protection -- especially in a coastal community like Nags Head."
- 3) "Conflicts between User Groups -- For example, recreational vs. commercial fishermen. These and other groups compete for the same natural resources in different ways."
- 4) "Preserve "family vacation oriented community" image. Changes by such groups as North Carolina's Department of Transportation (NCDOT) are going to influence this perspective in the future."
- 5) "Landfills and landfill development."
- 6) Hurricane Evacuation"
- 7) "Sewage/Septic Systems and the building of a Central Sewer System."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
shavkc	"Emotional Context -- cards deal with people's feelings about the community."
porfeid	"Environmental Issues"
umnxt	"Lifestyle Choices -- value laden or value oriented choices."
wjbqxl;	"Recreational Attitudes -- cards dealing with activities, sense of place, and reasons people like to come here for vacation."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	iegqnmuxl	ohcbrpa	jwtvd	sk	--

PILE SORTS: USES	
ITEMS	EXPLANATION
akbfghp	"Intensely active recreational activities."
qtrml	"More passive activities."
inos	"Less active activities."
cj;	"These two don't fit the "descending activity levels" categories."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	d f l m o	e h g k r s	p b n a	t j c i	q

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
v n	"Things outside of our control."
j e f c r	"All deal with mans' efforts to exploit environment to benefit man and to hell with nature."
u l g o k	"Overdone category -- cards which deal with overdoing certain things such as development which could turn Nags Head into a Myrtle Beach or Virginia Beach."
d b s m h a	"Things you can control, unlike pile 1. But these cards are man-made problems. Also, local governments can try and correct these problems."
x p j w q t ;	"Political Issues -- things we have attempted to address through federal and state approaches -- which are top-down approaches -- we have not attempted to address these problems with local approaches."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	o m h s c n	i j e w f r	b d u l k	v a g	x p q t

**WHY/HOW:**

"The first pile are things that could wipe us out as to what we want to be -- a vacation spot with out too much of everything."

1) O: "Synonymous with overdevelopment: if you have too many people you have overdevelopment."

2) M: "Unplanned development where people put in things and they are not sure how they are going to look or what the impact will be. Whether it be extra feet of sewer line or extra lanes of roads..."

3) H: "Overdevelopment is exactly what we are trying to keep away from. People are migrating from the North down here for reasons I would assume to be because the Northern beaches are overdeveloped already. Part of that overdevelopment problem is, whether they have done it consciously, such as Ocean City did back in the early sixties, or whether they did it unconsciously, and unconsciously I speak to unplanned development...."

4) S: "In the forefront this sounds good to people who are economically depressed right now, that may sound like its going to give them a short term boost, but its going to hurt more than help the reason why people come here."

5) C: "Offshore Oil Drilling could change the character of the area socially, economically, culturally. it could devastate us, or it could help us. Personally, I don't see it as something that is good because it does not complement our economic base which is tourism."

6) N: [A big one could wipe us out.] "A hurricane may forever alter our physical environment, we may no longer exist."

7) I: "Military people are temporary people. They have more of a destructive attitude that a "helping out attitude." They don't often become part of community because they are temporary people."

8) R,E,F,J: "When you are building things, paving roads, stuff like that, you are talking about inroads into becoming having major changes with the attitudes of people as a result of those type of activities occurring."

9) W: "Without our natural resources our economy is lost."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-15-92

RESPONDENT CODE: 008NAG

HOME: All of Nags Head, the town limits.

USE AREAS: Beach, sound, woods (Nags Head Woods), Inlet -- Oregon Inlet.

LENGTH OF RESIDENCE: 13 years full-time (since 1977), 12 add'l years as summer resident (since 1967 built home in S. Nags Head), 18 more years as visitor (since 1949).

ISSUES:

- 1) "Losing "Family" beach: Business interest taking over family interest on beach."
- 2) "Recreational vs. Commercial fishermen conflict"
- 3) "[Protecting the Environment"
- 4) "Beach re-nourishment"
- 5) "Offshore Oil Drilling -- but not right now because it is not in the forefront."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
k o e i f r	"Environment Cards"
d a j c b n t u g x	"Quality of Life Cards"
h s	"Character cards: History and Uniqueness."
p m	"Peace of Mind" cards: these cards represent things that make life nice here. Also cards which we thin are not true until we go somewhere else."
l	"It's not a reason that I came here. I could live here without the seafood."
v	"Card has no personal bearing on me."
w	"I disagree with this card."
q ;	"Recreation, not necessarily a quality."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	l m b n c b t u x g q k o i f r	e	a d p h s	v w	--



PILE SORTS: USES	
ITEMS	EXPLANATION
o f	"[Anybody can do these activities -- little equipment is necessary and they can be an individual thing"
d h p g b	"Water related, need some equipment to do them."
k	"group activity, not for all ages."
l r m a e	"going after seafood on your own."
n i s c	"educational and passive activities"
j t	"types of commercial fishing, activities done for money"
q :	"activity not readily available in Nags Head, does not fit other categories."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l c a i s n m r e k d p g o h f	b	j	q	t

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
u s v c f w d b x a l	"Environmental Problems which are water related, they will hurt groundwater, sounds, or ocean."
o e g	"More people issues: More bridges brings cards O and G."
k	"These things will hurt local people's businesses."
h m j	"Problems which could be controlled by zoning."
p	"Opposite of overfishing, could produce a positive effect on environment."
i	"Really doesn't bother Nags Head. Mann's Harbor is influenced but not us."
q	"laughs) I have no idea what affect it will have on anything."
t	"People are going to gripe and pay or must not come here for vacation."
n	"Could really hurt area, environmentally, economically, but it does not fit with other piles."
r ;	"Not sure how it will affect environment, positively or negatively."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	e h d v n	o c s p f r g w b x	a l u j m	t	q k i

**WHY/HOW:**

- 1) e h d v n: "Most impact...these will hurt tourism in one way or another, E would bring more people in which could cause overdevelopment. But it could also make people more comfortable about evacuation and make it easier to evacuate."
- 2) x,b: "If we don't recycle landfills will fill up sooner."
- 3) w: "Affect swimming and fishing and water quality (drinking water quality)"
- 4) o,g: "Creates more demands on services."
- 5) r: "Not real sure what impact the jetties will have, but it will be a major impact. Fish may not be able to spawn (due to jetties), but boats could get out easier, but we could have big trawlers coming in, and they could cause erosion."
- 6) f: "People come here for clean air, if you take that away they won't come. [I know people from Ohio who roll down their windows no matter the heat as soon as they get into Currituck just to smell the fresh air."
- 7) p: "Could get more fish here (positive)."
- 8) s: "Relax what we've got will be detrimental to us."
- 9) c: "If there were problems it would hurt environment and all that is related."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-3-92

RESPONDENT CODE: 009NAG

HOME: "All of Northeast North Carolina -- Gates County to Little Washington and back to Beach."

USE AREAS: "Ocean, sound, swamps, all of area -- entire Northeastern Area and Southeastern Virginia. Nags Head Woods is primary area.

LENGTH OF RESIDENCE: 34 years associated with Nags Head. Summer visitor, spent every summer here with neighbors who had a cottage. Worked in Currituck county or four years. Last 10 years as full-time resident of Nags Head.

ISSUES: It is really one major all encompassing issue for this respondent:

1) Health of Community: Environmental and Economic Health. Having economic viability and growth while protecting the environment which is our economic viability. How do we develop over time? We must protect ocean and sound to survive.

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
q f o n u w i g h d r t e s	"Physical characteristics of area."
l x a b k m p j c	"Social and interpersonal values about area."
v ;	"people have family ties here -- not part of one or two."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	k b h i m n f t	l m e d b o q v	x j c g u r	p	a

PILE SORTS: USES	
ITEMS	EXPLANATION
k l o s n h b a l e f g m r d t	"Most people do these for recreation -- tourists, second home people."
c j q	"People don't do these for recreational purposes around here."
k i o s n	SUB-PILE 1 "Things done on land primarily."
h b a l e f g m r d t ;	SUB-PILE 1 "Things done primarily on water."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	s o e f m c n	g d	a r i j	k h b p l	q t

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
h e m n j k	"These will have major impact on land use issues and physical development."
a d f v	"Water quality issues, we are not going to have industry, all we are going to have is pollution from industry."
x b l p i	"Not having much impact either way."
o t q u r g c s w ;	"These are going to have an impact but not land use or water necessarily, or impact on both, but I don't know how these will necessarily impact the area -- they may not change the social and physical impact. The other piles have very definite impacts while this pile brings more questions to how to figure it out than what group to put it in."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	m s n k h w	j o d c e g	u a f q r	t l	v p x b i

WHY/HOW: "These cards in pile 1 get to the whole major issue: We are talking about appropriate economic development and appropriate environmental protection....."

1) w: [poor management] "if you have poor management then you are degrading the resources that people came here for."

2) h: [overdevelopment] "connotes that you are going to impact those resources and develop within those resources."

3) k: [bringing in chain businesses] "these make us look like everyone else, so what is the excitement and why be here then [as a unique place to visit?]."

4) w: [hurricanes] "a given because it would change the whole make-up the area, and the environment."

5) s: [relaxing env. regulations] "this would be included in poor management of natural resources, they are there to protect the resources and to relax them means allowing for the degradation of the resources. I favor changing regulations as long as the resources are still just as well protected."

6) m: [unplanned development] "if there wasn't something to control development, I think the free market would overdevelop and kill the resource. This has happened time and time again in areas where there has been unplanned development. If it is not planned it gets ruined -- planned by gov't or private development. Unplanned development would kill why everyone is coming here."

COMMUNITY: Nags Head  
 INTERVIEWER: R  
 DATE: 12-4-92  
 RESPONDENT CODE: 010NAG  
 HOME: "Town of Nags Head from Ocean to Woods."  
 USE AREAS: "Corolla to Ocracoke, entire Outer Banks, Roanoke Island -- rarely."  
 LENGTH OF RESIDENCE: Associated with community for 28 years. Full-time resident for 20 years.

ISSUES:

- 1) "Growth and control of growth. Important points are the facilities we will need for growth and protecting environment."
- 2) "Water quality -- protection of environment in Sounds, Nearshore Ocean and groundwater. If we hurt the environment we hurt tourism, which hurts the economy."
- 3) "Other social issues which are common to all areas, such as drugs and crime."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
a c m v b	"Small town atmosphere qualities."
s h	"History and unique architecture."
p j x o i w f	"Natural beauty qualities"
g r l e q k n t	"All cards in this pile relate to the environment."
d	"climate is mild has no relationship to these other piles."
u ;	"completely separate."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h t n k q e l r g u f	c i o d	v b	s m a w x j p	a

PILE SORTS: USES	
ITEMS	EXPLANATION
c	"Educational Purposes."
s n i	"activities that are passive, related to enriching your mind, organizing knowledge of area."
a m l t q	"Related to taking of sea and natural life for recreation."
o e f g d h p b	Related to having fun in the water."
k	"volleyball - active recreational thing but can be done anywhere not just near water."
r j ;	"related to taking of natural resources for a living. Crabbing is also done recreationally but commercial crabbing is what sticks in my mind."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	m g f o	s n l p e h d	j r i	b k	c t q a



PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
t q	"Everyone says Clinton will bring higher taxes."
p x l s w	"Regulation pile -- you can't do these things unless regulators let you."
b u f j d e m k h	"Development issues"
v n	"Natural events -- over which we have little control."
o g	"Tourism and too many people -- these cards relate to whatever development is around. They are closely related to pile 3."
r c i	"activities undertaken by governmental entities and decision makers. Issues which are not decided locally."
a ;	"A monster bigger than all of these..politically and environmentally."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c n	o a m h s w	e g x b d j	p v l u	q t f r i k

**WHY/HOW:**

- 1) n: [hurricanes] "Would reduce our ability to serve tourists -- would cause [us] to lose income, land value, and taxes."
- 2) c: [offshore oil drilling] "[the biggest problem] is the perception problem. Visitors won't come due to perception of Oil drilling going on and the fear of oil on the beach. There is also a real possibility of a problem -- an oil spill that can't be controlled [he saw a rep from mobil show how they wouldn't be able to contain a large spill -- that they would have to decide which areas they would want to save].

COMMUNITY: Nags Head  
 INTERVIEWER: R  
 DATE: 12-8-92  
 RESPONDENT CODE: 011NAG  
 HOME: "Nags Head - milepost 10 to milepost 16."  
 USE AREAS: "Sound, ocean, Nags Head Woods, Sound area behind Jockey's Ridge, beach"  
 LENGTH OF RESIDENCE: 8.5 years as full-time resident.

ISSUES:

- 1) "Development - the land allotted to development and keeping it majority of residential development. Maintaining family resort atmosphere in Nags Head."
- 2) "Sewage treatment/Water Quality: People use this as a way to control growth. How you treat sewage affects water quality."
- 3) "Public access to coast and sound: excellent public access to Ocean but not Sound."
- 4) "Nags Head Woods remain as pristine as possible, it is extremely fragile and you can't stop development once [it starts]."
- 5) "Availability of water -- again something that people use as an excuse to control growth, but we have solved problem with Reverse Osmosis plant."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
b c m x w j p	"Related to size of population. Nags Head is a small town and you have a lot of control over what goes on politically and otherwise."
u	"I don't know if this is a plus."
a v h s	"Things that have been here (on the Outer Banks in general) for a while -- long-term history."
o f q i n g d t e k r l ;	"Relates to environment -- and opportunities to do things/recreate, plus they are tied to environment."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	i q f r n b h l u o	g a c m x t e l	v j s	d k w	p

PILE SORTS: USES	
ITEMS	EXPLANATION
q r j l t	"Local people would do these activities. A local person spends the majority of time here, a seasonal person is not local."
s n i c	"Not particularly active uses of our area."
o f d a b p m g e h k ;	"Active uses of the area -- recreational and typical things visitors would do generally."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	o f m a k g d	r s n h	c e	j i	l q b p t

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
q t	"It is more of a gut feeling that these two have to go together."
u l h m	"Misuse or improper use of the resource we've got, and land is one of the resources that we have that has to be managed."
a b s w d	"Problems that are listed as symptomatic of poor planning and poor management of natural resources/mismanagement."
p x	"Two ways you can improve the quality and improve the resource, if you are recycling then you are working against that landfill getting too full, and with stricter fishing regulations you are working against overfishing."
r j e f i k	"Effects of man on the environment. Either industry, the gov't or private enterprise has an impact on the environment."
g o	"Natural occurrences which you have very little control over but which can tremendously affect your resource. Even good development in a bad hurricane is not going to last, and even fishermen can't fish with red tide when the fish are dead."
v n c ;	"I'm a little prejudiced on this, I think there are a lot of people that want to say well now that I've gotten down here let's close the door, we don't want anyone else and that is kind of a "I've got mine nobody else should get their's -- I've got mine, now there are too many people. I make my money off of tourism and we are trying to bring more people here. It is like a two edged sword, if you do have more people than you can handle then you lose the attraction. [Offshore oil drilling fits here because there are misconceptions about the issue and people differ in opinions on this. In addition, he said that if it said tankers it would be more of a problem to env. than oil drilling]."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	e s w n g h	o r u l m b	k a d x f	t q v p c	j i

WHY/HOW:

- 1) e: [construction of bridges] "Bridges are the bottleneck when it comes to bringing people on and off, build more bridges and more people will come."
- 2) s: [relaxing env. regulations] "They are strict right now but they need to be strict, once you relax them and the quality of the resource deteriorates it is very difficult to turn back the clock."
- 3) w: [poor management of natural resources] "Once you poorly manage something it is very difficult to bring it back."
- 4) n: [hurricanes] "It could blow the whole place down, and aside from the property loss, you have (depending on the time of year) a huge potential for loss of life, and that would change people's perceptions about the outer banks and Nags Head being a safe place. When you haven't had one in so long it fades into the back of people's minds."
- 5) g: [more tourism] "More tourism, more local economy is stimulated, and more people can live here on a year round basis."
- 6) h: [overdevelopment] "It would be a negative as far as losing a lot of the natural beauty that attracts people in the first place. And although it would bring more people and have more places for them to stay, I don't think anybody wants Nags Head to become an Ocean City, MD or a Virginia Beach. I think Nags Head Commissioners have done a good job dealing with overdevelopment issues such as height restrictions and hardened structures."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-8-92

RESPONDENT CODE: 012NAG

HOME: Nags Head and Duck (to take mother-in-law to church)

USE AREAS: Ocracoke to Corolla and Manteo (waterfront area) "You can go to Manteo for the small town atmosphere that no longer exists in Nags Head, and during the summer you can go to Manteo to get away from the crowds."

LENGTH OF RESIDENCE: 39 years association with Nags Head. 30 years as a full-time resident.

ISSUES:

- 1) "Maintaining and keeping water quality for increasing number of people living here and visiting here."
- 2) "Sewage Disposal Controls"
- 3) "Landfill situation: will recycling solve the problem?"
- 4) "Quality of drinking water."
- 5) "Requirements for building are a little too strict -- [this is a commercial zone they live in -- they are grandfathered in it, and they therefore can not put up what they would like to put up. This makes it difficult for mom and pop ventures."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
q m t x w o p g	"This rural area and these qualities relate to what a rural area is -- in addition, these are things you can do in our rural area (these are things which are possible to do here) water related lifestyle, fishing is good, surfing, are things you can do here."
k d l n f r i e	"Environmental related questions. Climate is mild, but I don't think it fits too much."
s j b h a c v	"This is the small town atmosphere pile. These don't apply to Nags Head anymore, this pile is all about Manteo."
u ;	"There is a seasonal lifestyle here, I just don't know where to put it."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	d u f n i r s e l m g q t	--	--	p x h c v a j b w	o k

PILE SORTS: USES	
ITEMS	EXPLANATION
a h e f o p m g d	"Activities around water or ocean (sound) or require the water, ocean or sound."
n c i s	"Different things that people might do in area, there are a lot of educational things people can do that are put on by the park and fish and wildlife services."
k	[alone]
t r l j	"associated with commercial fishing and commercial fishing activities."
q ;	"mainland activity"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	h e f o p m g d s	c i n	t r l j	q a k b	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
t d o k g u b m l h	"overdevelopment pile -- with too many people you have all of these things happening."
x p	"Things that occur because of too many people (kind of a sub-category of the large category above)."
w s	"seem to me to go together."
a f c	"Industrial pollution pile -- I see Offshore Oil Drilling as possible creating industrial pollution -- and farm runoff is a type of industrial pollution."
v n	"natural phenomena"
q	"doesn't fit with others"
i	"doesn't fit with others"
j r e ;	"things that would be done as a matter of construction."



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f g b m o h n	c k d t v a	l w s	i p x r e u j	q

**WHY/HOW:**

- 1) n: [hurricanes] "At the top of my list is hurricanes. Hurricane could change this area more than anything ever could. I saw the areas in SC where we used to live after Hugo, so I know what it could do. These others are nothing compared to what a hurricane could do."
- 2) h: [overdevelopment] "could certainly change an area, but it is nothing compared to what a hurricane could do."
- 3) m,b: [unplanned development] "causes people density, that can cause the landfills to get too full - and we are running out of landfills here in Dare County which is certainly a problem."
- 4) o,g: [too many people and more tourism] "these two are the about the same."
- 5) f: [industrial pollution] "We have nice clean air and water here yet and I can see where industrial pollution would change that quite a bit."
- 6) a: [farm runoff] "I wrote a child's book about this for the soil and water conservation department, this made me think about it in ways I had not thought about it before."
- 7) k,c: [chain businesses] [offshore oil drilling]"Change the flavor of an area from your mom and pop shops and change the character of the area. Offshore Oil drilling I put in that category too.
- 8) c: [offshore oil drilling] "if they built facilities in our area, I don't see that it would affect that much if it was all piped away from here..of course if there was a bad spill as a result of it would have an affect on tourism.

RESPONDENT CODE: 013NAG

HOME: Nags Head

USE AREAS: On the Sound -- fishing and crabbing

LENGTH OF RESIDENCE: 50 years associated with community. 20 years living full-time in Duck, NC, and 30 years living full-time in Nags Head.

ISSUES:

Respondent saw no difference in the importance of these issues.

1) "Sewage problems -- building a sewage system."

1) "Development -- a non-issue because it is going to happen anyhow."

1) "Offshore Oil Drilling -- could have helped if tourism fell off because it might save some people [as an economic option i.e. jobs]."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
e n j b x o i d	"Best points of the whole area"
u a v c k	"qualities of the people here -- sense of community"
g q l r t s f h	"qualities of Nags Head."
m p w ;	"rural area qualities"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	i d r x e n o f	k a v c j b	l g q u t	s h p m w	--

PILE SORTS: USES	
ITEMS	EXPLANATION
k d f o h p b g	"fun things, it is just entertainment."
r t l j e	"commercial work, I'm thinking of full-time people not just tourists"
i s n c	"things for educational purposes"
m a q ;	"things I don't do, different category of recreation. [He doesn't hunt deer because he doesn't] kill or catch anything [he doesn't] eat or sell, and he doesn't like deer meat."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	h d s k g f o m	p i a n c	b l r t j e	q	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
f d m h s w o	"pollution and sewage and reasons for it [pile]"
u j r e c k g	"things that happen along with enlargement of businesses and bringing in more people and industry."
p l v n	"they all have about the same affects on commercial fishing"
t x a i q ;	"I don't know what any of these have to do with one another"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	m h s o g n d	f b u j e k w t	v p l	r c	x a i q

**WHY/HOW:**

- 1) d: [Sewage Problems] "if they don't put a sewage system they are going to have a big problem, they already have a problem if they have a wet spring."
- 2) l: [overfishing] "we already have overfishing"
- 3) p: [stricter fishing regulations] "they have almost done away with commercial fishing with that."
- 4) v: [red tide] "would be a short thing, it would last a little while but it wouldn't [hurt] a whole lot."
- 5) r: [jetties] "I don't think construction of the jetties would do anything to the environment but help it. It would also help out with the water quality."
- 6) c: [offshore drilling] "I don't think anybody would even know it was there, I don't believe anybody would have known it if you hadn't told them, and if the oil gets so thick the waves can break through it, it won't kill any fish. It would kill birds, but we've already got too many birds [birds are a whole diff't issue for him]."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-9-92

RESPONDENT CODE: 014NAG

HOME: Nag's Head, Manteo, Mann's Harbor/Mainland -- considers Nags Head his home when you get right down to it, but he resides in Manns Harbor right now.

USE AREAS: Sounds, Northern Pamlico and Eastern Albemarle

LENGTH OF RESIDENCE: 29 years full-time resident in Nags Head, 5 years associated with community while living in Rodanthe, 5 years associated with community while living in Mann's Harbor.

ISSUES:

- 1) Garbage -- getting rid of garbage both solid waste disposal and wastewater disposal (trash and sewage).
- 2) Water Supply -- having an adequate water supply
- 3) Sound Pollution

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
d f h o n e x k v q g t i	"Things that are unique to this area..people come here to enjoy these things, I like to see these people enjoy the area for these reasons."
a s u	"These things aren't here -- people don't like a seasonal lifestyle or they wouldn't try to change it."
r p b m c w j l;	"These are qualities people who move in like -- they come here because these are things that they don't have where they come from."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q g i u l r	m c o f d h e k t	n x	p w j	v s a b

PILE SORTS: USES	
ITEMS	EXPLANATION
k o	"Relaxed recreational sports, can be done anywhere -- you don't need water environment."
b d g m f p e h	"Water related activities -- you need this type of area to enjoy these sports."
a q	"on the serious side of recreation"
l t j r	"commercial fishing activity"
s n c i;	"Thinking type people do these -- educational activities."

SCALED PILES: USES {note:respondent includes Colington with these}					
PILE	1	2	3	4	5
ITEMS	s n a e f m g o	r j b h k d	i c p	q t	l

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
h d g s o t b k u j e m	"overdevelopment issues, local (town/county) development issues which are not as broad in scope as pile 2."
w r c p v i f a x q	"broader issues -- concerned with a larger area."
n	"[we] don't have any control over these (no controversy with hurricanes) could be related to overdevelopment."
i ;	"no military activities here."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l w c o g h d s	a f r p v m e j u b k t	x n	q	i

**WHY/HOW:**

- 1) l: [overfishing] "make for less fishermen."
- 2) m: [unplanned development] "I don't think it will make much of a difference if its planned or unplanned, it might as well be unplanned."
- 3) n: [hurricanes] "It would have a temporary effect."
- 4) "pile 2 are detrimental to environment, many are a result of things in pile 1 such as paving roads is due to more people."
- 5) c: [offshore oil drilling] "would bring industry into area making area industrialized -- or it would bring oil spills and industrial wastes."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-9-92

RESPONDENT CODE: 015NAG

HOME: "Outer Banks -- as far south as Ocracoke, North to Corolla. Also the Dare Mainland and Alligator National Wildlife Refuge, Manteo and Buxton."

USE AREAS: "Every part of it -- sounds, oceans, marshes, forests, Buxton and Nags Head Woods, suburbanized areas, downtown Manteo.

LENGTH OF RESIDENCE: 8 years associated with community, 7 years as full-time resident (respondent lives on Roanoke Island and works in Nags Head).

ISSUES: Respondent views these issues as overarching and sees them as equal.

1) "Loss of Identity: As we become more homogenized with the rest of the country -- we become less distinctly the Outer Banks."

1) "More diversified economy that is environmentally compatible and sustainable, so we don't become overwhelmed by tourist industry."

1) "Availability of low income housing and meaningful jobs -- so people of modest means can come here to live and work."

1) "Protecting, preserving, and conserving the natural Outer Banks. This includes the estuarine waters, beaches, and drinking water."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
n p v e d f o c m r i x	"specific statements that relate to quality of life issues -- healthy way of living."
t l u g q	"Recreational life-style issues."
s h	"These don't mean much to me personally."
j w k	"These are not true."
a b ;	"Sense of community cards, like pile 1 but more generic."



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	n t q l u	x v e	i r m c f d p	j b o g	h s w k a

PILE SORTS: USES	
ITEMS	EXPLANATION
m a j t l r	"Recreation/commerce/species depletion [pile] -- water related activities that may have purely recreational values but also are fishing related -- they have a strong commercial component in each."
k	"volleyball"
q	"taking a live resource and turning it into a non-live resource. Related to pile 1, but less of a commercial component and it is not water related."
o g f e h b d p	"These don't require taking a resource -- these are activities that use a resource without depleting a resource. Water related activities whose primary component is recreational. Reasons why people come to the Outer Banks."
c i n s ;	"Environmentally -- sort of have a positive educational component and a recreation component. These do not require taking resources."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a m s	j f o g d n i	t r e c	p b	q k l h

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
t	"higher taxes do not directly impact environment negatively or positively."
q x p	"positive connotations for me. Stricter fishing regulations, Clinton, recycling have potentially positive effects for environment and quality of life."
b u j e r c	"Infrastructure. Bigger landscape altering activities. Bringing in big heavy infrastructure size changes in landscape. They'd sit there and we would see them all the time. Negative impact because they have negative environmental consequences -- negative material objects."
n v	"two different things but I see them as largely coming from outside forces impacting area in a destructive way."
i	Negative: very different impact than rest of stuff. They take up areas for exclusive training and security reasons. And the military has not managed its land very well -- having serious environmental issues at stake. Military lifestyle that is present around military bases -- more strip development, more ticky-tacky housing, less community [negative]."
k h g o	"Too, too, over, many: generalized buzz words that don't really mean too much. They could have gone into pile 3 or pile 7 but they are not specific."
s w m d a f l ;	"Processes. Things that relate to managed processes, planning or government regulation or lack thereof. And failure of government to regulate."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	jeospn	bcdlfa	urvighkw m	qt	x

WHY/HOW: Pile 1: "These are most likely to change the social and physical environment."

1) p: [stricter fishing regulations] "depletion of fish populations is a very serious problem, and I think if there were stricter fishing regulations we could do something to protect those resources, and there would be a serious economic impact on certain people in the community."

2) s: [relaxed environmental regulations] "serious negative consequences from that, I don't know if the regulations we have now do that much good, and if we relaxed them then we'd really have a problem."

3) o: [too many people] "This is the crux of the problem anyway, that is the problem all over."

4) e.j: [bridges and paving] "[bridges and paving] they are what brings the people out here, and the bigger the bridges and the more roads and parking we have out here the more people that are going to come and that's is why they are building them."

5) SECOND PILE: "they all seem to be ongoing processes that are already occurring that have serious long-term negative consequences here in a continuing way."

examples: b c d l f a (see description of farm runoff for description of how and why these things may affect the environment.)

6) c: [offshore oil drilling] "Long-term negative consequences that may not be present right on the face of it, i.e. hidden consequences exist with O.O.D."

7) a: [farm runoff] "It is only very recently that people realize that farm run off is one the single most serious types of non-point pollution and its been going on for [hundreds of years] before we began to understand some of the ramifications of that...and I see these other things falling into that same category. Before we realize the ramifications of these things, the ramifications may have reached a point where it is too late to change people's way of doing things, to make it politically feasible to change anything."

**COMMUNITY:** Nags Head

**INTERVIEWER:** R

**DATE:** 12-9-92

**RESPONDENT CODE:** 016NAG

**HOME:** "Outer Banks, Kitty Hawk/Kill Devil Hills/Nags Head/Manteo region." Lives in Kill Devil Hills, Grandmother lives down the street, Father's family is from Manteo)

**USE AREAS:** Sound and Ocean

**LENGTH OF RESIDENCE:** Respondent has been associated with this community all of his life. He has been a full-time resident for 9 years.

**ISSUES:**

1) "wastewater"

1) "Offshore Oil Drilling"

3) "Development"

4) "Ocean dumping and pollution."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
x v m c d b w a	"Atmosphere of place, Sense of place: Southern [thing] brings community feel here. There are still people here who share community. It is people moving in who impact sense of community."
t q l g n u	"Reasons why people come, things that support this area."
f o	"The reason there is natural beauty is because of the open spaces."
h s	"Many instances of important history here -- including Nags Head Tale, piracy, Jockey's Ridge, Wright Brothers, Lost Colony, Fort Raleigh."
e r i p j k ;	"Problems which will make this no longer a special place. The powers that be must consider these issues in long range planning."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	n t h f o	s q l g x w m i f c	r v d a	b k e	p j

PILE SORTS: USES	
ITEMS	EXPLANATION
s h m a f o g d n i q e b p k	"All hobbies or recreational activities."
t r l j	"These use the environment as an industry -- to make a living."
c ;	"Stands separate -- educational."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	p b e d g o f a m h l r t j	k i n s	p	c	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
s u d f c a	"Water Quality Issues."
o e r j u h g k	"This is a broader category of development related issues."
n	"[hurricanes] have their own classification."
b x	"if you recycle landfills won't get too large."
m w l p	"Planning and management issues."
q	"doesn't fit anywhere else."
t	"[taxes] by themselves."
i ;	"class all to themselves."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w m d c s g h o n t	l p f a v k u r x	b j e	- -	q i

**WHY/HOW:**

1) w: [poor management of natural resources] "If natural resources are messed up then the area is lost. People came here for the natural resources. Water quality, fishing, surfing is great. Would hurt revenue if the resources were managed poorly."

2) m: [unplanned development] "same as above but dealing with development. [Earlier the area was not worth money, now the area is worth money.] Unplanned development in Kill Devil Hills hurt the natural beauty people are coming for."

3) d: [sewage problems] "Septic tanks not being maintained, bringing in tax dollars at expense of environment."

4) g: [more tourism] "Need a nice medium. Can't pile people in but with overdevelopment they won't be happy. Wal-mart money doesn't stay in community. People need to look beyond getting a major department store here."

5) n: [hurricanes] "Will be devastating to area. Overdevelopment leaves more prey for the storm. The more that is built here the more that will be destroyed. People won't visit here or people won't invest after a major hurricane. You'll lose history too (old houses)."

6) t: [higher taxes] "Higher taxes push out who can live here and who can not. Pushes people out who had land here for generations and pushes out poor and middle classes."

7) c: [offshore oil drilling] "It is not something we have to have right now. If industry put as much money into alternative fuels as they have into fighting us they could have something [some alternative to oil by now]. Iron Christmas trees to ruin sunrises. Oil Spills, tankers running aground in the graveyard of the Atlantic -- which is a hard place to maneuver tankers. Data from other areas is not valid for this area because of the differences of the geographic area. The ocean is alive, you couldn't contain an oil spill -- a spill would kill this region. Why would government set aside so much of natural environment then take a chance to blow it away [the national seashore would be threatened by offshore oil drilling, he says]. Government doesn't realize what we have."

COMMUNITY: Nags Head  
 INTERVIEWER: R  
 DATE: 12-11-92  
 RESPONDENT CODE: 017NAG  
 HOME: Dare County  
 USE AREAS: Oceanside Beach

LENGTH OF RESIDENCE: 10 years part-time, add'l 20 years full-time (30 years consecutively associated with Nags Head) (lived in Hyde County prior to this).

ISSUES:

- 1) Economy of Area
- 2) Tourist Industry
- 3) Environment

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
s c a v h b	[Qualities due to Isolation]. "Nags Head has been isolated until recently so these qualities are due to that. People moving in are changing sense of community with their "special interests."
e q l g u d t n	[Things that have to do with water.] "Everything here revolves around water. No industry can exist without it. Mild climate brings a lot of species of fish."
k x i r o f	[Natural Beauty cards.] "Area is unique with environmentally sensitive areas which provide water. Preservation (in Nags Head) remains high for this reason."
m	"Debatable, a lot of petty stuff goes on here, people may just not be aware of it."
w p j ;	[Traffic congestion and overcrowdedness exist here during some periods.] "There are periods of overcrowdedness and traffic congestion for such a rural area."



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	bsntduokcha	riglx	me	--	vqlpw

PILE SORTS: USES	
ITEMS	EXPLANATION
kmafobjes	"ocean activities"
trldpjes	"sound activities"
cin	"done on federal property or in state facilities"
qi	"mainland activity"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	fdrsjpgmboa	eh	lp	tcniq	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
n g h o e	[Things related to Hurricanes] "Hurricanes will impact all of these things. Hurricanes are reason used for building bridges. Weather drives economy. Bad weather, hurricane - no economy. Bridges won't increase maximum buildout - we can't build [make] any more property. Bridges will bring people here faster and more efficiently."
l p v u r	[Things that will affect fishing] "More jetties means more marinas -- because more boats will be able to use inlet."
q f a r x d m w	[Environmental Problems/Things which directly affect this area] "Clinton: will change environment - make changes which will affect this "environmentally sensitive" area. Industrial pollution, farm runoff, unplanned development throughout county where there is no zoning."
k	"Chains are straggling in. They are not much of an asset to the uniqueness of the community -- they do not put things back into the community - e.g., Food Lion. You can't excluded someone from building if they meet the requirements for zoning." [Respondent made this last comment when asked: if you do not want chains here, can they be kept out?]
i	[Activity not in Nags Head] "Some activities out in Ocean and on the Mainland."
t b j	[Taxes and things that cause higher taxes] "Landfills, parking lots and roads cost taxpayers money."
c s ;	[Causal relationship -- in order for one to happen (offshore oil drilling -- the other will have to happen (S).]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	p n g e o h l v w d	t j b x r	u s c k	q m f a i	--

**WHY/HOW:** p n g e o h l v w d all impact tourism. "Stricter fishing regulations, overdevelopment, too many people, etc. impacts tourism: Hurricanes and bridges too. People want to close down bridges once they get here -- because the uniqueness is gone [by opening up bridges and letting in too many people so that place isn't like it was when they came here.] "Without tourism there is no Dare County. Tourism brought people, businesses -- no business would come here without tourists. Occupancy taxes, land transfers, meal taxes, sales taxes ...." [show how important tourist dollars are to this area].

1) n: "Hurricanes are reason used for building bridges. Weather drives economy. Bad weather, hurricane - no economy. Bridges won't increase maximum buildout - we can't build [make] any more property. Bridges will bring people here faster and more efficiently." [Hurricanes also impact tourism.]

2) p,w: "If you hurt fishing you will keep people away, if you do not manage resources [you will keep people away too].

3) e: "Bridges won't increase maximum buildout [the amount of building that the land can handle] - we can't build [make] any more property. Bridges will bring people here faster and more efficiently."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-11-92

RESPONDENT CODE: 018NAG

HOME: Manteo (since 1990) [Outer Banks -- Works in Kill Devil Hills and Manteo full-time, also has business in Nags Head.]

USE AREAS: "Beach, fresh air, ocean, sunshine, all things associated with the water and seashore, clean and beautiful beaches."

LENGTH OF RESIDENCE: 18 years as full-time resident of Nags Head. Respondent has been associated with Nags Head for 48 years -- as child, business person, summer time resident/visitor.

**ISSUES:**

{Respondent felt that the issues he stated are equal in importance. he felt that they all dealt with one major issue which is [Maintaining the integrity of the community]: "Keeping it [the community] the kind of community we want and encouraging the growth and development of that community for years to come."

1) "Offshore Oil Drilling"

2) "Land Use Planning and Zoning: It is important to continue updating land use plan and ordinances to keep the community we want."

3) "Appreciate the connection between business community, a healthy economy, and our natural resources."

4) "Population: we don't want to overpopulate: [we] don't want to turn into a Virginia Beach. [Permanent population is what he's focusing on.] So many here depend on seasonal population -- [we need to] maintain levels of visitors so they can still enjoy area without overcrowding."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
a b c d e f g h i k l m n o g r s t u v x	"Typical of things that make this area a place I want to live."
w	[Card is not true in his estimation]"This is not a rural area, by my estimation, [it is] not developed like Virginia Beach, but there is room for some growth."
j p	"Not qualities that make this a place I want to live."
Subset of Pile 1: q l g s u	"These things are not as important as a b c d e f h i k m n o r v x are to me, but they are true of Nags Head." [In an attempt to get him to split I had him break down the larger pile into smaller piles.]
Subset of Pile 1: a b c d e f h i k m n o r v x ;	[Important things to me.]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	e i r c k f h d n l q g u	v x a b t	m o s	j p	w

PILE SORTS: USES	
ITEMS	EXPLANATION
l b m g d f t r	"Activities directly related to use of water and beach. Primarily recreational activities although clamming, crabbing and oystering you can make a living off of."
p e h	"Activities that depend on the water but you don't need pristine water for these, plus these [activities] can adversely impact the water."
k s q i o	"Also things that can occur elsewhere besides Nags Head. Little deer hunting here...You don't need water to do them [these activities]."
j a	[like pile 1] "These cards are more related [than pile 1] because they [are activities] which compete for resources and [create] have conflicts over resources."
c n ;	"Things [activities] you can do elsewhere besides here."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a o e h m g d f	s c n	l t b r i	p k j	q

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
w m n o d h c	"Activities that can impact adversely on quality of life and lifestyle."
q a t b j s u p	"Second category of activities that can impact area [negatively]-- to a lesser degree -- [these activities have] not as immediate an impact
f i k	"These activities do not have as direct an impact as pile 1 or pile 2. I don't particularly like where the K-mart is." [still negative impact]
e g r	"These, with limitations (e.g. having shoulder season tourists) may have positive impact on environment."
x ;	"Positive impact [definite]. Extremely important. Recycling needs to be done."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w m n o d h c l v x e g r	q a t b j s u p f	k i	--	--

**WHY/HOW:**

- 1) w: [will have] "adverse impact on personal quality of life and our ability to provide income for area (through tourism) -- [will] hurt community."
- 2) m: same as w
- 3) n: "[hurricanes] will physically devastate and change area [including] economic impact.
- 4) o: [people like this area because there aren't too many people, when there are too many people they won't come here anymore.]
- 5) d: "Sewage goes into ground through septic tanks [and creates] soil problems." [A better sewage collection system will enhance population development.]
- 6) h: same as w
- 7) c: "Rather not take risk of having it [he assumes it will pollute the ocean]. Rather not have development this industry could bring."
- 8) l: [Fishing is] "important part of life and attracting people here -- hurt this [and you hurt the reason why people come here and how people make a living here]."
- 9) v:[would wipe out fish populations]
- 10) x: "Positive - long range effect. The fact that we don't recycle right now does not create adverse impact, but it will in long run -- landfill problems, etc."



COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-14-92

RESPONDENT CODE: 019NAG

HOME: "Nags Head is my residence. I have a home in Manteo. I'm really a Dare County person. Nags Head -- [respondent] spends more time there. I couldn't afford Manteo home without Nags Head."

USE AREAS: "I'm a working person -- I don't get out because I am working too much. I enjoy riding down 12 -- [which is] much like old Dare County. I appreciate it [environment] -- but cannot express it -- sunsets, smells." [People in little villages such as Manteo, Kitty Hawk Village, Colington, purchased property on the Beach and ran businesses there during the season. They lived there during the season and returned to their villages for the remainder of the year.]

LENGTH OF RESIDENCE: Part-time and full-time for 55 years. Nags Head resident full time for 25 years (approx.), associated with Nags Head an additional 30 years (born and raised in Manteo - 1937)

ISSUES:

[Respondent did not like term "issues".

- 1) "Beach Oceanfront"--"this is what brings people here"...[without the beach oceanfront our economy would be hurt.]
- 2) "Tourism -- economy."
- 3) "General hospitality -- [all people in Dare County (made a point to mention police department) should be full of hospitality -- (respondent worked in Dare County Tourist Bureau from its inception until the late 60's)].

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
s w	"cards that do not apply to our area"
k v j a b m u n c	"Things family would enjoy living here for as a family." [family cards]
d l g p q i r t h e o x f ;	"What area has in terms of beauty and as a physical area."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	m c f r o x f	k d e	a b t g q h	v l p j n u	w s

PILE SORTS: USES	
ITEMS	EXPLANATION
t j a q l m r	"Same type of people do these activities."
e h p b g d k	"Physical Sports"
o f c n i s ;	"[with the] Environment the way it is -- gives you opportunities to do these things in Dare County. [and a] broader group of people do these [activities]."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	m s o f	d i n a	c p h	l b e g k j	q r t

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
x b h g o d k c u	"Things that will affect environment in not a good way."
r j e	"Ongoing issues -- bridges and jetties are related to erosion problems."
a w l s f	"These are all problems which came from poor management of natural resources."
p m	"related somehow"
t	"All of these cards [for the whole pile sort] will cost taxes [so all the cards are related to this card]."
n	"we have no control over this -- Mother Nature."
q	[unique]
i	[unique]
v ;	[unique]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t b p m c n	k h j e	r p u g s w	o a l x f	v q i

**WHY/HOW:**

- 1) n: "[hurricane] will destroy oceanfront -- destroy tax-base."
- 2) c: "Bring in social part of Offshore Oil Drilling -- people who come in here to work [for O.O.D.] -- scary for residents and tourism. [Also] danger of spills to tourism and wildlife."
- 3) m: "bad -- dangerous to property owners and neighbors [because with unplanned development people can build anything anywhere which means neighbors and property owners have no say over what goes up in town or next to them.]"
- 4) b: "affect business and residential community -- and business community is vital to Nags Head."
- 5) t: "all of these [cards] result in higher taxes -- to correct these problems."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-15-92

RESPONDENT CODE: 020NAG

HOME: "Nags Head is my community now. I was born and raised in Northern Virginia, Fairfax county."

USE AREAS: "Kitty Hawk to Ocracoke -- all the beaches for surf fishing, some inshore ocean fishing, and sound fishing. I came down here to fish."

LENGTH OF RESIDENCE: Respondent has 40 years of association with Nags Head. Respondent has visited Nags Head for 35 years, prior to becoming a full-time Nags Head resident 5 years ago. Had decided he would retire here when he visited area in the 1950's.

ISSUES:

- 1) "Loss of Natural resources -- fisheries, [there has been a] steady decline in fish caught by commercial and recreational fishermen."
- 2) "Beach Haul Seine Issue -- Economic issue -- impact on tourist dollar and tax-base [because the recreational fishermen won't come back to area if they have a bad experience with commercial haulers or if they perceive that there is a problem]"
- 3) "Sewage problem: How much can the ground absorb? It could become expensive to live here if we have to install some sewer systems."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
h s	"They don't fit with the others, history and architecture are similar."
k w j p v a x m c b	"Reasons why I'm here. This is "community" aspect of Nags Head."
u	"There is no seasonal lifestyle for me, I fish 12 months a year. Can't figure this [one] out."
l t q n g e d f o i r ;	"Environmental factors that make me want to be here."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	b h c m x a v p j w k t r i o f d g n q l u s	e	--	--	--

PILE SORTS: USES	
ITEMS	EXPLANATION
s n c	"Educational: [these are] things we can do as individuals -- [and these are] similar activities."
r l t	"[These are] similar in activity type."
b g p d h a m e f j	"These are activities that have to do with the water that an individual could do on the Outer Banks."
k o	"Individual things to do on beach other than going into the water."
q i ;	"Fall out from other activities for some reason [unique cards]."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	g m f o k r	p h i d s c	l t j e a n b	q	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
h d g u a b c o n l r x s k m	"Things that would affect the environment."
f i j e	"Things that wouldn't affect the environment."
q	"Could change environment if Clinton reverses Bush's wetland policies and [thus] saves marshes."
t v w p ;	"[These cards would] not necessarily, or indirectly, affect environment."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	h d g u a b c o n l r x m s k	t v w p	f i j e	q	--

WHY/HOW: "They all could bring about change in status quo. Economic and Social Impact."

- 1) k: "[Chain businesses would put] more fluorocarbons in air, more litter, more plastic, and more people on the beach.
- 2) s: "[Relaxing env. regulations would] negate the good [things that have happened with the environment] and positive regulations we have which are meant to control things."
- 3) m: "[With unplanned development] you create mixing zones where business starts moving in with residential areas."
- 4) x,b: "You need to recycle (x) to keep (b) landfills from filling up."
- 5) r: "We are saving a few jobs [commercial fishermen] at a tremendous cost to taxpayers, and Hatteras Island would be robbed of sand."
- 6) c: "Concerned about environmental problems with fisheries [due to Offshore Oil Drilling]."
- 7) a: "Farm runoff -- pollution to water [from runoff] is an environmentalist's nightmare."
- 8) g,d,h: "People problems -- too much waste (human), too much use of water."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-15-92

RESPONDENT CODE: 021NAG

HOME: "[Respondent] lives in Kill Devil Hills but considers Nags Head his community -- a more responsive community that's willing to address issues -- [a] progressive community -- Kill Devil Hills is big and sprawling and less progressive, Kitty Hawk is backward and rural, Southern Shores is a bedroom community."

USE AREAS: "The beach"

LENGTH OF RESIDENCE: 22 years

ISSUES:

- 1) "Water Quality: need more management plans for county -- both for waste and drinking water."
- 2) "Beach renourishment"
- 3) "Maintain quality of life for people living here and for tourists visiting here (not item right now -- [future issue])."
- 4) "Constructing more schools -- [infrastructural issue]"
- 5) "Additional recreational facilities for kids."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
k	"just not true"
s x u f h p a w v c b m j o	"Tied up with small community type qualities."
i r t d e l q n :	"Because environment is still o.k. people can do these things. Also, cards are [represent] positive environmental qualities."



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	irtde lqnguf	sxhwavcbm	poj	k	--

PILE SORTS: USES	
ITEMS	EXPLANATION
f g e m a l t q j b r p	"[These activities] need relative amount of good environmental and water quality to do these."
h d k n i c o s ;	"Don't necessarily need good environmental and water quality to do these [activities]."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	rjamegfod	pbltsh	n	qci k	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
l q x w r f s c n	"[These cards] would change the environment the most [compared to the other cards]."
m a p o e d	"[These cards] would change the environment a little less [than the previous pile]."
j u t i k b g h v ;	"[These cards] would change the environment a little less [than the previous pile]."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	l q x w r f s c n	m a p o e d	j u t i k b g h v	--	--

WHY/HOW:

- 1) l: "fisheries are ruined due top overfishing -- we have a multi-faceted fishery area -- the fisheries are uncontrolled and we have no regulations compared to other states."
- 2) q: "Gore -- environmental change for the positive."
- 3) x: "Recycling will bring about positive change if it keeps up."
- 4) w: "We have no management right now."
- 5) r: "Hardened structures cause major problems."
- 6) f: "Will screw up Sounds."
- 7) s: "Environmental regulations are already being relaxed. For example, Manteo is allowed to discharge wastewater into Shallowbag Bag only because of politics."
- 8) c: "[Offshore Oil Drilling] perception is a big problem [people won't come here if they know drilling is being done off coast], and environmental problems are big problem too."
- 9) n: "[A hurricane would] quickly wipe out area."

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-16-92

RESPONDENT CODE: 022NAG

HOME: "Nags Head first, Dare County second, Outer Banks third, and North Carolina fourth."

USE AREAS: "Sounds, Ocean, Hunting (on lands when we could duck and goose hunt -- family was made up of hunting guides)."

LENGTH OF RESIDENCE: 47 years as full-time resident.

ISSUES:

All issues were of equal importance to the respondent.

- 1) "Water -- drinking water."
- 2) "Sewer"
- 3) "Land Use Practices"
- 4) "Conservation Practices"
- 5) "Beach renourishment"
- 6) "Better laws to enable lawmakers to pull drug dealers off of streets."
- 7) "Getting drunk drivers off of roads."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
o j k s w	"Qualities of this area that are more or less true."
m p	"Big difference in seasonal crime rate and traffic volume." [cards where this is true]
v b t f u l q g h a n c	"Environmental and the way people live cards. (water, atmosphere everything)"
d i r e x ;	"These cards are not necessarily so. Beaches, water quality, air is not good. Peace and quiet is not easy to find."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w k o c q l v b t f u g h n	j x m	s d p a	--	i r e

PILE SORTS: USES	
ITEMS	EXPLANATION
o r e g f s i p t h m d n b l { a j q }	"You use water in all of these activities. Even deer hunting -- you go over water or into marshes, or take a boat to get where you can hunt."
k	"sports, team activity."
c	"Many educational activities in area."
{ a j q } ;	{in attempt to have a further split, I asked respondent to break up pile 1. This is what he separated.} "These are diff't recreation than pile 1 -- a j are commercial, q, you use a gun to do it."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j l n a d m p i s f g e r o b h t	--	--	--	q c k

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
k b i a r f c q s	"Political issues or issues which don't exist in Nags Head."
e j u h g d o m w	"Management of resources and related problems."
n l x t v p ;	"[These cards have] effect on land and resources -- which will cause higher taxes -- these things could help regulate this stuff."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	s k q b i a f c w o j h u v x l n t p	e g m r	--	--	--

**WHY/HOW:**

- 1) s: "Ways development is done -- way pollution is -- this would have a negative effect."
- 2) q: "wild card -- this may have a positive or negative effect."
- 3) b: "need new landfills -- this is a major problem now."

- 4) k: "[Chain businesses] dilute small business pie -- put them out of business."
- 5) i: "Breaking of sound barrier [by jets] used to bust windows, Jockey's Ridge was a bombing range in WWII."
- 6) a: "Run off could have detrimental effect."
- 7) c: "If we had Offshore Oil Drilling, it would have negative impact, pollute water and destroy fishing."
- 8) f: "Get some [industrial pollution] through air and elsewhere."
- 9) w: "We don't have poor management now, but if so it would have negative effect by destroying natural resources."
- 10) o: "[Too many people] bring pollution problems -- sewers and landfills."
- 11) d: "Have it [sewage problems] already."
- 12) j: "Good and bad [positive and negative] impacts -- too much paving hurts natural resources, not enough doesn't take care of tourists."
- 13) h: "[Overdevelopment] brings need for recycling (positive), sewage, law enforcement, people problems, and transportation problems."
- 14) v: "Affects fishing and quality of water."
- 15) u: "[More marinas] take away natural resources and beauty of land, and brings in more recreational boating which pollutes the sounds."
- 16) x: "To overcome pollution and keep natural resources clean and pretty like we want them [this has positive impact]."
- 17) l: "[Overfishing] destroys natural resources, also hurts tourism."
18. n: "[Hurricanes] affect land, building, natural resources, tourism, weather."
19. p: "Stricter [regulations] is more positive -- to save natural resources and fish."
20. t: "Higher taxes: its going to take higher taxes to take care of these things."

COMMUNITY: Nags Head  
INTERVIEWER: R  
DATE: 12-16-92  
RESPONDENT CODE: 023NAG  
HOME: "Outer Banks Region -- Dare and Currituck Counties."  
USE AREAS: "Dunes, Ocean, Sound, Nags Head Woods, Streets and facilities in Nags Head Cove [development]."  
LENGTH OF RESIDENCE: full-time resident for 19 years

ISSUES:

- 1) "Planning, economy for area, and economic planning. Planning is a big issue. Things have been done but overall planning for Outer Banks is vital. We need to plan where and what we want to be 20 years from now. Planning overall to ensure a good environment as the area is developed. Without the environment we will kill what we have to offer residents and tourists. If we do anything to damage environment we are cutting our own throats." [environment = sound, ocean, and land]
- 2) "Government and business need to become a partnership. Past 10 years a lot of federal, town, state, and county government regulations have restricted quality of life. These situations have made no win situations for all involved parties."
- 3) "Create a regional water and sewage authority to ensure good planning for controlling waste water and drinking water."
- 4) "Beach renourishment"
- 5) "Bridge in Currituck."
- 6) "Airport development: improving Manteo facility to handle summer commuter facility."
- 7) "Build a small convention center."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
m j x a p c v b k w q f h n o d s i e r t	"Real important reasons why I love being here."
l g u	"Low on my priority list for living here."
(sub-pile 1) m x j a p c v b k w	{had respondent\lumper split pile 1} "People or social issues" and "Real important reasons why I love being here."
(sub-pile 1) q f h n o d s i e r t ;	{had respondent\lumper split pile 1} "Environmental issues" and "Real important reasons why I love being here."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	m x j p c k q f h n o d s i r e t g l	--	a v b w	u	--

PILE SORTS: USES	
ITEMS	EXPLANATION
k a b m p f d g e h q	"Active recreational activities that take place in area."
t r l j	"Commercial Activities."
c i n s	"Passive or less active recreational things and educational."
o ;	"strictly passive recreation."



SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	h e g d f m k s n o	b t r l	c i	--	j a p q

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
g s u	"If properly done they could be positive influences."
m t p n l v h d o w k b	"negative effects"
q	[unique] "Don't know where to put this one."
r e j	"Positive building of structures which should enhance quality of life as long as they are done properly."
x	"Important but no a critical problem, others are more critical."
f c a i ;	"Not problems which directly affect social and environmental issues -- lower on list of how they would affect social and environmental issues."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	g a n t m v h d w o k b j e a c f	x u p l r	q	i	--

**WHY/HOW:**

1) a: [farm runoff] "could destroy sound water quality, fishing, oystering, and shrimping."

- 2) c: [Offshore Oil Drilling] "If there were spills then it would have negative impacts of publicity which would kill tourism and be a major loss to area. The economic impact would be severe."
- 3) f: [Industrial Pollution] "Same effect as c. Any pollution that generates negative publicity for area would have tremendous impact on economy and tourism."
- 4) e: [Constructing Bridges] "These would help enhance visitors experience of area and alleviate traffic jams and improve hurricane evacuation routes."
- 5) j: [Paving roads for parking] "Same as bridges, it would enhance visitors experience and increase tourism."
- 6) o: [Too many people] "Detrimental because it reduces quality of experience visitor has right now. Reduce quality of life for permanent residents too."
- 7) b: [Landfills getting too full] "Need to handle and manage our waste well. Immediate effect is expense and cost of living would go up."
- 8) k: [Chain Businesses] "Destroys character of Outer Banks. Chain businesses changes perception of area -- makes the area less unique and less attractive. Many businesses are then unable to compete so they go out of business."
- 9) p: [Poor Management of Resources] "Either resources will be destroyed or people won't be able to use them. Manage them well so people can use them -- this is key to our area. If we don't have resources to use we have nothing to offer the visitor -- which is our total economy."
- 10) d: [Sewage Problems] "Destroy water quality, especially of sounds (relates back to poor management of natural resources)."
- 11) h: [Overdevelopment] "Changes character of Outer Banks -- we lose the "Golden Egg." (relates to k)."
- 12) v: [red tide] "Negative publicity from this [affect area as mentioned with Oil Spills and Industrial Pollution]."
- 13) g: [More Tourism] "This is positive. Area can handle more tourists, just need to manage and handle it so there isn't a perception that there are too many people."
- 14) s: [Relax environmental regulations] "Two ways to view this -- positive and negative -- Change wetlands definition, some wetlands are unproductive as wetlands -- we could use that land and make it productive." [On the negative side is the issue that the environment is the basis of our economy and we must not relax regulations so as to hurt this.]
- 11) n: [Hurricanes] "Media problem: problem is from media not from the physical part of hurricane. Threats are from media impact on tourism" [from the negative publicity].
- 12) t: [Higher Taxes] "Make it less desirable to live or retire to the area. This affects the economy detrimentally."
- 13) m: [Unplanned development] "[Contributes to] character loss of area -- which is what we need to protect. [We need] quality development with character so this remains a place people want to come.

COMMUNITY: Nags Head  
 INTERVIEWER: Robbbie Blinkoff  
 DATE: 12-17-92  
 RESPONDENT CODE: 024NAG  
 HOME: "Cape Hatteras to Corolla"  
 USE AREAS: "Ocean and Sound (in a boat for fishing or boating)"  
 LENGTH OF RESIDENCE: Respondent has been associated with community for 20 consecutive years, 10 part-time then 10 as full-time resident.

ISSUES:

- 1) "Too much government regulation (at all levels) -- need too many permits, you need a permit to do anything."
- 2) "Economy -- tourism (our industry is tourism). Need balance of water conservation, landfills, infrastructure -- need adequate but not overtaxed infrastructure." [For example, from in season to off season we need a police force that is adequate for the season. Right now we have a police force that is for the busy season].
- 3) "Oversized infrastructure: The only stop light out here in 1972 was in Manteo." [roads, services, etc, are built up for the season]
- 4) "Transportation: access and egress, and bridges [these are issues here]."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
o w b x c v a m u s j p h	"Social pile"
n f q k i r d t g l e ;	"Environmental pile"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	u o x v j p c m h d r i k q f n e l g t	--	--	--	b s w

PILE SORTS: USES	
ITEMS	EXPLANATION
c o s n	"What a tourist would do."
k p i f b h e g d	"Water related sports."
t j r q a l m ;	"[Activities that are] Fishing and harvesting crops we have."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	f d g m o	r s n j i k e h q t	l	c p b a	--

PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
e j t q k	"Big business and big government controls these."
r s	"You have to relax regulations to get jetties going."
g c i u o b w x m n	"Natural disasters and unplanned events: if there are too many people it wasn't planned for."
a v f d l p h ;	"pollution pile"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f v n	i a e m j d h	w x l u p k q b o c g	t s r	--

**WHY/HOW:**

1) n: Hurricanes: "I don't want hurricanes, all the government bullshit to rebuild." [Respondent says he says this to people who think that he as a developer would want a hurricane because of all the business he would get.]

COMMUNITY: Nags Head

INTERVIEWER: R

DATE: 12-17-92

RESPONDENT CODE: 025NAG

HOME: "Reside in Hills of Nag Head {development}. Work in Manteo. I identify first with the beach and second with Roanoke Island.

USE AREAS: "beach, ocean"

LENGTH OF RESIDENCE: 27 years associated with community. 15 years as full-time resident, and additional 12 years as visitor and vacationer.

ISSUES:

- 1) "Drinking water -- adequate supply of."
- 2) "Adequate sewage disposal."
- 3) "Schools -- infrastructure issues and physical issues."
- 4) "Jobs: we have a feast or famine situation -- a concern but not solvable [given our tourist/seasonal economy]."

PILE SORTS: QUALITIES	
ITEMS	EXPLANATION
n e t g q	"water related"
c b a v	"Quality of life -- including people -- [cards]."
f k i r	"environmental issues"
m x p j o w	"quality of life [cards] -- relating to atmosphere/excluding people."
l	"just don't fit in other categories as I have set them up."
d	"
h	"
s	"
u ;	"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	m x n e t g q f i r u l d	p j o c b a s k	h v	w	--

PILE SORTS: USES	
ITEMS	EXPLANATION
j t r l	"Water related jobs producing seafood, which could be recreational but are commercial."
m b f a d g e h p	"Water related recreational [activities]."
s n c i	"More passive somewhat recreational but more educational activities."
k o	"don't fit into other categories."
q ;	"no one comes to Nags Head to do this."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	r o m a f d g e	h s	i k	q c	t l n b p j



PILE SORTS: SOURCES OF CHANGE	
ITEMS	EXPLANATION
g o h m	"[cards dealing with] planning and development."
s w	"Regulation of Environment."
f d	"Problems we can do something about."
x p	"Stricter regulations."
v c a i k r t n e u l q j b ;	"Cards which no similarity with any other cards." {respondent put these cards into 14 separate piles. For convenience, I placed them all together.}

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n b e t f d s g m o h	r k i v c x p w	u l j	a	q

WHY/HOW:

- 1) n: [Hurricanes] "we have no control over these. Nags Head as we know it today could be wiped out and not recovered."
- 2) b: [landfills getting too full] "need to take care of our garbage -- it will limit our life."
- 3) f: [industrial pollution] "will ruin our beach, air, things that make Nags Head a good place to live."
- 4) d: [sewage problems] "it is a catch-22, we have to take care of it but it will pollute the earth or sounds. We could do ocean outfall but it is too expensive."
- 5) s: [relax environmental regulations] "detrimental to what makes Nags Head desirable."
- 6) g: [more tourism] "positive and negative -- positive because it is good for economy, it is negative because [I don't like all the tourists around] they are obnoxious. When families came and had their cottages and cooked their own meals it was fine -- now they are obnoxious [they complain about everything]. [The way I feel] if you don't like it visit somewhere else, and if you don't like it and live here, move."
- 7) m: [unplanned development] "need planning, because otherwise everyone would think that whatever they do is o.k."
- 8) o: [too many people] "sewage problems, landfill problems..."
- 9) r: [construction of jetties] "positive effect - would protect from erosion if it works."
- 10) i: [military activities] "it would be bad -- but I can't see how it would happen."
- 11) c: [Offshore Oil Drilling] "It could have large impact positively and negatively. Spills would be negative. Offshore drilling should however be good for the economy. We must weigh the benefit to the area vs. the harm to the area."
- 12) x: [Recycling] "got to be done"
- 13) p: [Stricter fishing regulations] "Will impact on how fishing is done."
- 14) w: [Poor Management of Natural Resources]

#### 4.4.3 Hatteras

##### Free-listing Data

##### Quality of Place

"Natural wildness of Hatteras Island"

Natural beauty

ocean

The ocean

Ocean and sea

beaches

Beautiful beaches

Secluded beaches

The seashore

Deep forest

Maritime forest

Maritime forests

Wetlands

Estuary

Flatlands

Black snake species unique to area

Coons

Deer

Deer; sub-species unique to island

Dolphins

Ducks

Geese

Waterfowl

Whales

Good oysters

Reptiles

Figs

grapevines

Juniper trees

Pears

Plants

Plums  
sea oats  
wild rice  
Good storms  
Marinas where you can watch the catch come in  
Our aquifer goes out thirty miles to sea  
seashells: conchs, devil's pocketbook, coral  
Shipwrecks  
"I like the insecurity of being near the ocean"  
Constantly changing water  
"You have to love the water"  
Beautiful place to live  
Beauty  
Challenge of growing things in this climate  
Clean beaches  
Clean water  
Clean ocean  
Good water quality of the ocean and sounds  
People don't litter  
No medical wastes washing up  
Distance from metropolitan areas and related problems  
Federally-protected land  
fishing  
Good seafood  
Good seafood  
Good seafood  
Importance of commercial fishing; essence and history of the town is wrapped up in commercial Lots of history  
No industry  
Peace and quiet  
Peace and quiet  
Peace  
Community  
Community; people care for each other  
Community-oriented  
People are community-oriented  
Sense of community  
Hatteras has maintained its villageness

Friendliness of the area  
Cooperative businesses  
Warm and hospitable people  
Quaintness of the village  
"You gotta live where you are loved and where you can love"  
"I was born and raised here"  
"It's a paradise, all you need is a few amenities"  
"Its a good life"  
"Its home"  
No crime  
Low crime rate  
Down home living  
No class system  
I inherited the land from my parents  
Good school system  
Lack of Blacks and "white niggers" and "related infrastructural problems"

Smell of saltwater  
Silence  
Solitude  
Uncrowded  
Time on our hands  
Seasonal business lets you relax part of the year  
Uniqueness of the place  
Warm winters  
Warmth in the winter

**Use of the environment**

Art  
boating  
Boating  
Recreational boating  
Camping  
Hunting  
Hunting  
Deer hunting  
Deer hunting  
Hunt deer  
Dove hunting  
duck hunting  
Duck hunting  
Hunt waterfowl  
Wildfowl hunting  
Trapping  
Trapping  
Clamming  
Clamming  
Commercial fishing  
Commercial fishing  
Crabbing  
Fishing  
Fishing  
Freshwater bass fishing  
Offshore fishing  
Oystering  
Oystering  
Pound-netting  
Scalloping  
Set-netting  
Surf fishing  
Surf fishing  
Surf fishing  
Surfishing

Shell collecting  
Shell collecting  
Surfing  
Surfing  
Surfing  
swimming  
Swimming  
Sailboarding  
Windsurfing  
Windsurfing  
Windsurfing  
General beachgoing  
Golfing  
kite flying  
Outdoor sports  
"I earn a living in it"  
Clam  
commercial fishing  
Commercial fishing  
Fish  
Fish  
Shellfish  
surf fishing  
Collect shells  
Collect shells  
Enjoy our yard  
Garden  
Garden  
Go to the beach  
Hanging around on the beach all summer  
Picnics on the beach  
Sit in the sun  
Hang out on the beach  
Walk secluded beaches  
Walk on the beach  
Swim  
Swim

Burn firewood  
Dirt bike  
Look for whales  
Look for dolphins  
Observe ducks and geese  
Play tennis  
Sightsee the natural surroundings

**Perception of Sources of Change**

Population growth  
Too many people  
No control on development  
Development  
More motels equals poor or worse water quality  
Big trawlers wiping out the stocks  
Building jetties at Oregon Inlet  
Chemicals from golf course getting into the aquifer  
Excessive harvest of fishery resources  
Federal de-regulation  
Filling of wetlands  
Hurricanes  
Storms  
Storms  
Storms equal new inlets  
Altering land mass of barrier islands  
Recycling  
Red tide  
Certain types of people coming in  
Closing the beach to four-wheel drive vehicles  
Construction of big hotels  
Continuation of water problems  
Continued development  
Continued trend of prioritizing needs of recreational fishermen who are more numerous and powerful than commercial fishermen and who do Continued trend of increasing commercial fishing regulations  
Continued loss of tradition  
Continuing trend of theft



Counting catch from persons not truly commercial fishermen as part of commercial landings quota  
Excessive federal regulation  
Fast food restaurants, commercialization of existing shoreside businesses  
Federal over-regulation  
Inability to maintain Highway 12  
Introduction of fast food restaurants  
Lack of foresight and planning  
Lack of isolation and peace that comes with little development  
Loss of tourism  
Mismanagement of lands  
More people  
More feral cats  
More kids leaving home and not coming back  
No zoning restrictions  
not rely on commercial fishing for a living  
Over-building  
Over-protection of the maritime forest  
Overpopulation

**FILESORT DATA**

**COMMUNITY:** Hatteras  
**INTERVIEWER:** E  
**DATE:** Dec 15  
**RESPONDENT CODE:** 001X  
**HOME:** Hatteras  
**USE AREAS:** Hatteras Island  
**LENGTH OF RESIDENCE:** life (50 yrs.)

**ISSUES:**

- 1) "Incorporation" [informant refers to the possibility of Hatteras becoming its own self-governed entity]
  
- 2) "Commercial fishing; it's dying from old age. There's so many fishermen now that no one of 'em can make a good living anymore. There's too many small timers who do other things for aliving which hurts the market for everybody; it's really hurting the native folks."
  
- 3) "Building on wetlands; people are finding ways to get around the regulations . . ."
  
- 4) "Youth activities: some people are finding things for the kids to do; but people have been dissatisfied with the couny for years [over this]..."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
a b c s t h	This deals with the things you can't put your hands on; sort of atmospherics/mood of the place"
o r e v x w n d l i g f m	"These are the main reasons for living here [for informant]"
p k v q j	"Not real accurate; there may be good surf but I haven't had a board in years"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	t h u	defgilnorvwx	mcbka	s	qpju

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
k	"Nobody comes here to play it"
q	"Some locals do it but not exclusively here"
c	unique
l t j r	"These are occupations"
a b d e f g h i m n o p s	"General recreational activities"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	c j m i g d a	o b p f l t r	h	k	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
u h j m w e k o	"Things that lead the island to having more people than it could support either logisitically or infrastructurally"
n g	"These are indigenous to the area and there's not much you can do about 'em; they aren't really good or bad. I guess you can say hurricanes are bad and tourism's good, but either way...[informant stresses difference between visitors and visitors who stay, the latter being whom he feels are putting burden on the area: "You know what a yankee is, well a damn yankee is one that stays."]
l s r c t	"These are things we don't need; there are better ways"
a f b v	"We aren't faced with these but we are concerned about them"
x d o	"These are some of the things we are trying to deal with"
q i	"These are not directly related to the island; they would have the least effect"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	p h m w l s t	o u j e k	b g d x	r n q	f v a i c

**WHY/HOW:**

- 1) On first pile: "These are directly related to the actual people who live, a direct effect on their livelihoods"
- 2) higher taxes: "This is money directly out of their pockets" [informant indicates these are already strained]
- 3) poor manage: [informant says enforcement is the problems or one of them] "Building on wetlands, tapping water from under the maritime forest is bad for the whole place and could turn "us" into an offshore fishing shoal"
- 4) unplanned/overdevlp/overfishing: "These are all related in that they relate to our history, and if you take away that we're in trouble"

**COMMUNITY: Hatteras**  
**INTERVIEWER: E**  
**DATE: December 14**  
**RESPONDENT CODE: 002 X**  
**HOME: Hatteras**  
**USE AREAS: Hatteras Island**  
**LENGTH OF RESIDENCE: 17 yrs.**

**ISSUES:**

- 1) Quality and availability of the drinking water
- 2) Controlled development; development should be managed
- 3) Preservation of local history and heritage
- 4) Commercial fishing disappearing as a way of life
- 5) Water quality of the oceans and sounds

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
abvch	"These are the things that make the island a unique place to live"
u	unique
lgq	"These are added pluses for living here but are actually the least important"
s	unique
wxomjp	"These are all rural qualities"
kntdfeir;	"All of these items are related to the environment"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	abcdefghijklmnopqrvtwx	--	k	u	s

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q	unique
c	unique
r j	"These are commercial things"
b h e p	"boat stuff"
g d f o k	"beach stuff"
a l t m	"recreational ocean activities"
s n i;	"sightseeing type stuff"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	gdfom	aelt	jr	phpsnik	cq

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
c s b d w a f x v	"These are all environmental concerns"
k d g o h m	"These are development concerns"
l p	"These are fishing problems"
t q	"tax-related pile"
n	unique
i	unique
r	unique
j e;	"public works kinds of things"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n	kugohm	lp	ksbdwafxv	rtqjei

**WHY/HOW:**

1) Hurricanes could wipe out the whole community; we'd have to start all over again. Of course, it depends on how bad the storm was -- not all hurricanes are destructive. But if we were to get a real bad one it would definitely be the number one thing to affect the community."



COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: Dec 15  
 RESPONDENT CODE: 003X  
 HOME: Frisco/Hatteras  
 USE AREAS: Hatteras Island/Offshore waters  
 LENGTH OF RESIDENCE: 87 years or so (lifer)

**Note:** informant was not willing or was not able to offer explanations for his sorting procedures; however, he was quite sharp when it came to talking about things on an open-ended basis and was recommended as a good informant who could manipulate the cards. At the risk of losing all data, the explanatory effort was abandoned.

ISSUES:

- 1) "Beach erosion: its something you can't stop, it's gonna come naturally. What's makin it so bad is people don't realize...people have to move back from the ocean; there is some long-range planning needed. The highway's gonna have to be closer to the shoreside. The beach has eroded quite a few hundred years .... this is the big issue" [informant talked for a good while on the subject: see notes]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
w p n j	[informant would not or could not offer an explanation]
a b c d e f g h i k l m o q r s t u v x	"I just agree with all these, that's all"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h t s p e	c i q l g r	u v f j b a	o d x m n	w k

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
a e h l t r f p b o	
q k c n s	
j m i g d	

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	f r t l a j e	p h d g b	c k q	s m n	i o

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
v i c r q e j	
v f x d s w	
a g p	
k o t	
n b m h l	

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t o u r d n	p g w s l	i c j e h m b	f a x k	q v

**WHY/HOW:**

- 1) "All the items in this pile [pile 1] are related somehow or other"
- 2) Hurricanes: "Could wipe the place out, wipe out the island; hurricanes could also cause more sewage problems"
- 3) Jetties: "They don't do much good...as far as economicseven if you have a jetty in place and working you're still going to have to dredge which is expensive. A lot of the jetties, areas in Florida still have to use pumping stations and they don't have near the weather we have [meaning wave activity]"
- 4) "As far as these [points to higher taxes, more marinas, and too many people] we've had all we can stand"

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: December 15  
 RESPONDENT CODE: 004x  
 HOME: Hatteras  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 8 years

ISSUES:

- 1) "Health care"
- 2) "Quality of the school system"
- 3) "Communication and transportation"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
e q g l r k i f t n d	"These relate to the environment"
a c v m p j x w o b v h	"These are people-related; they are all [causally] related; the crime rate is low because its a rural kind of area and people have family ties, and [so on]"
s	unique

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h n r i f d t m o	x b k e q p v a u c w j	l g	--	s

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
s j a r o m g l n d b i	"Economics; people come here to do these things"
h p t c	"People do these things here but they aren't as important commercially or economically"
f e k q	"These don't fit in; they just don't fit with the others"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	ijdgnmao	lbrsfc	htp	qek	--

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
o h k g u t j m e	"People-related things and economics"
v n w l s p r b d a c f x	"These are more environmental things that people can do something about, like build better"
q	unique
i	"Sound barrier is always... we get sonic booms"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	o h k g u m c	n r j w p s x l	a d b t	q v i f g	--

**WHY/HOW:**

- 1) "Too many people; these are all related to the issues of too many people; the more people the more problems
  
- 2) Offshore oil: "Could be an environmental disaster if a spill occurred. Could also bring in jobs; I don't know -- if they set up a base of operations here [meaning if locals would benefit], it could be good"

**Pile 2**

- 3) jetties: "The jetties would be good for Wanchese; the wall that is there now is causing problems for Pea Island"
  
- 4) overfishing: "Overfishing or polluted waters, I don't know what it is , but somethings been slowing the fishing for the last few years"

COMMUNITY:Hatteras  
INTERVIEWER: E  
DATE: December 14  
RESPONDENT CODE: 005x  
HOME: Buxton  
USE AREAS: Hatteras Island  
LENGTH OF RESIDENCE: 20 years

ISSUES:

- 1) Overdevelopment/uncontrolled development; "all of our main problems stem from this"
- 2) "Depletion of the maritime forest; all of our water supplies lie underneath the forest -- its a bubble of water, it doesn't come from the mainland like some people think."
- 3) "Disappearance of the way of life that is the real Hatteras"
- 4) "Real residents" getting pushed out due to influx of people who can afford the higher priced homes"
- 5) "Sewer problems; more development means more people flushing their toilets and it all ends up in the Sound; we have problems here behind our house because there aren't any inlets -- they have filled them in so there is no flushing of the stagnant water like there used to be

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
j	unique
mp	"These relate to each other; as more tourists come in the crime rate gets higher"
nxv	"Nice life"
skh	"Hatteras, these things are what is Hatteras in my mind"
awbc	"Community" [informant indicate thes items represented things related to the community or sense of community"
lcbwarfgdoi	"These are the things that make Hatteras unique"
qetv	"These are things that bring in the tourists" [attractions for tourists]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	ilrodgfawcbnvx	mpj	qet	skh	u



PILE SORTS: USES	
PILE ITEMS	EXPLANATION
tjqlrfnmc	"This is me" [informant means these are things that make him want to be around Hatteras] "This is most common stuff too"
gkos	"This is community activity stuff; the kind of stuff you do on the beach with your friends"
eahd	"Tourism" [related to tourism]
pb	"These are unique; I don't know what else to do with these except to put them in a pile by themselves"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	tjqlrfnmc	gkos	eahd	--	pb

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
nwcmjs	"These could be devastating for Hatteras as it is known today"
l	unique
oukghdt	"If you have those in [the first cell above, i.e., nwcmjs], you're going to have these, its like the domino effect"
p	"I'm in and out on this one, I mean they are needed but not to the point that they going to push the little guy out, there should be more regulations for the big [trawlers] and the people who waste [by-catch]"
r	"These won't work, I mean they'll work for a while then you'll have to redo one somewhere else"
i	"I used to fish offshore in the shipping lanes; the big [naval] ships used to dump their trash overboard right in the best fishing grounds in the world; that really bothered me"
e	"Bridges don't last; a ferry service would be better."
b	"This would be a no-no for Hatteras but [luckily] we don't have one"
vaf	"These are killers of the environment"
qx	"These are saviors, or salvation"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	qxncdwmjsuhgtkol	re	i	pb	fav

**WHY/HOW:**

- 1) "Almost all of these are linked; if you have one they lead to all of the others. Its the domino effect"
  
- 2) "The chain business thing; everybody freaked out when the Wal-Mart came in 'cause everybody knows that all of the big-boys will be right on their tails. It's like all of the big developers out west are working their way back east and are buying up all the large tracts of land because they know they can sell it off for big bucks."
  
- 3) "Oil drilling: if was to happen it would be disastrous for the community -- it wold screw things up to the max."
  
- 4) "Hurricanes could also devastate the island like they have in other places, but people have to realize that nature's gonna do what she's gonna do and there ain't nothing you can do to stop 'er. People just don't realize they're living thirty-five miles in the ocean with water all around 'em."

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: Dec 14  
 RESPONDENT CODE: 006x  
 HOME: Buxton  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: on and off for life

ISSUES:

- 1) "Development; tourism is the economy but people are moving in and displacing the real native people; people have to pay for the presence of the rich"
- 2) "Saving the maritime forest"
- 3) "Loss of the character of the area; the real local people are having to pay higher taxes because people from New Jersey are driving up the real estate values"
- 4) "Degradation of the water quality; both the drinking water and the ocean and sounds"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
p b e r m j	"This is the non-truth pile"
w x h t v o	"These are personally findable; these are my own kinds of things -- not community"
k w s c a u	"These are the non-truth neighborhood pile"
q g l i d f	"These are true but they don't really apply to me"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	f d i g q o t v x n h	-	-	a b u c w	s k p j m e r

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
k p f h g d e m a b	"These are on their way in; and these [the informant points to the next pile conis below] are on their way out"
c o n i s	"These are the kinds of things people did who used to visit the island, like in the 50's through the 70's"
j r t l q	"These are endangered or are on their way out in the 80's and 90's; these were a way of life here in the past"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l q r t j	g f n s o	m e h a	d p k	c i b

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
g c r k u	"These would cause the most effect in a negative way"
m o h t d v	"These are the outcomes of this [informant points to pile l gcrkv above]"
i f a e p b	"These aren't going to hurt us; won't affect us much here"
j	unique
m s l	"This could have a very negative effect if they occur"
n q x	"This is the saving grace [pile]"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	d o h q n l s w	v m g	k u c r	p t b x	i f a e j

**WHY/HOW:**

- 1) poor management/sewage/relaxed regs: "These are all tied together; relaxed environmental regulations and poor management of resources mean sewage problems like we have back behind us. There is no way to flush the water out back here so all of the shit from Avon and Frisco ends up sitting back here"
- 2) hurricane: "A 'hare-a-cane' would wake us up [informant indicates her feeling that a bad hurricane would be good and scare people from further development]; too many people would make a hurrican even worse"
- 3) Clinton: "I think we have a good president; I think he will take care to have better management"

COMMUNITY: Hatteras  
INTERVIEWER: E  
DATE: December 10  
RESPONDENT CODE: 007  
HOME: Buxton  
USE AREAS: Hatteras Island  
LENGTH OF RESIDENCE: 7 years

ISSUES:

- 1) **Transportation:** keeping the island open for people to come visit; this is essential to area businesses [respondent referred to problems with Oregon Inlet Bridge and general instability of island.
- 2) **Development/water:** these issues are closely related; development is occurring rapidly thus drawing on the water supply
- 3) **Fishing regulations**
- 4) **Tourists/tourism**
- 5) **Tax Base/Economic changes:** local people are unable to compete with newly arriving folks that have money and are highly educated; locals find their tax rates escalating -- this changes the whole economic structure of the island.

PILE SORTS: QUALITIES		
PILE	ITEMS	EXPLANATION
1	s	"this is a unique pile; besides we don't have unique architecture"
2	h	"this is also a unique pile"
3	pjofkd	"these are elements of nature but compared to the other nature pile I consider these to be of less importance to me"
4	nmatbuxwc	" these have to do with people, with a sense of community"
5	u	unique
6	glq	"these are things which attract people here"
7	eir	"these are elements of nature"

SCALE PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	abcdefghijklmnopqrtuvwx				sk



PILE SORTS: USES		
PILE	ITEMS	EXPLANATION
1	q	"this is a different kind of thing; it's not commercial"
2	jtrl	"I see these as being all ways to earn a living, they are all commercial"
3	ci	"these are different...lots of people are birdwatching right now"
4	abdefghkmnops	"these are all forms of recreation"

SCALE PILES: USES					
PILE	1	2	3	4	5
ITEMS	fgdasmn	opbhe	trlj	i	cqk

PILE SORTS: SOURCES OF CHANGE		
PILE	ITEMS	EXPLANATION
1	af	"we don't have industry here so this kind of pollution is not a major problem, same with farm run-off"
2	vn	"these are natural processes, there's not a damn thing we can do about them, they're gonna happen no matter what. . . the only real way they are going to affect us is if they totally destroy us"
3	quitslwcerpd	"these are problems that can only be handled by the federal government; they are all federal issues and the only thing we can do about them is vote"
4	kxbhjummo	"these are local issues; we also have to vote to change these and we can also get involved to make a change; these are locally-determined issues that local people have to deal with; they are real problems"
5	k	"people here aren't necessarily environmentally aware. . ." [unique]

SCALE PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nvcer	pwugomdhbl	sjx	q	kfait

**WHY PILE 1?:**

- 1) "If a major hurricane were to hit all the businesses would be in big trouble; like when the bridge went out everybody lost business."
- 2) "Red tide would cause big problems for the fishermen and since this community is so dependent on fishing . . ."
- 3) "Offshore oil drilling would ruin the whole island."
- 4) Construction of bridges and jetties [combine 4 and 5] would be positive economically if they were able to stabilize the transportation situation since so many businesses depend on people coming in. On the other hand if they are not built it would be devastating economically. On the environmental side of things I look at use [humans] as being part of nature too, so we can stop progress on account of a few creatures like the piping plover which is going to be extinct anyway since it lays its eggs in the overwash areas anyway (it's really a stupid bird).
- 5) [combine with 4].

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: December 17  
 RESPONDENT CODE: 008x  
 HOME: Hatteras  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 2 years

ISSUES:

- 1) "We need more and better county services; regular human services such as support for the blind and elderly... better services are the main issue here"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
k o j p m	"Sometimes are sometimes aren't pile; these are things you need to take two looks at"
d f e i l r g n q	"These are physical qualities of life, things that bring people here and make them want to stay here"
x u b w t v a c s h	"These are human quality of life issues; these are more of a personal nature; second discovery things deeper than the surface"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	f h a c g b v l t u q n i w	d s	e m r x	k o j p	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
p h k e b f g d m	"These are for people with physical stamina"
s t n o	"Sort of activities for visitors"
q t l a j r	"Work-related"
c	unique

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l t n r j a	p b f g d e m h	c i o s	k	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
e r m k h j u	"These are structural impacts; both good and bad"
v f d a c n	"Natural and chemical hazards or disasters"
l w x o p g	"I'm not sure there is a common connection between these and the others [other piles]"
q i s t	"These are administrative kinds of things that could affect us"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n e l p	v a f s w m	h u o i t d	k g c r	q x j b

**WHY/HOW:**

- 1) Overfishing: "So much tourism is dependent on getting here and having nothing [have] happened to the resources; people are attracted here for these reasons [informant means they come here to fish and expect a lot of fish]"
- 2) Stricter regulations: "If they got stricter our folks would have major problems"
- 3) Bridge construction: "If they built a bridge to Ocracoke, things certainly would change"
- 4) Drilling offshore: "Even if there was no pollution there would be change just because people know its [the rigs] out there"
- 5) Hurricanes: "Hurricanes are a natural event; could wipe us out like happened with Andrew in Florida"

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: Dec 21  
 RESPONDENT CODE: 009x  
 HOME: Frisco  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 20 years

ISSUES:

- 1) "Development; development impacts everything else; this island is microcosm -- we have to realize like everybody else that resources are finite; we really face some big decisions about where we want to go as far as weighing quality of life and a healthy environment"
- 2) "Receiving utility services, eater and electric" [informant links these ideas with development]
- 3) "Highway access; keeping the highway open; as we saw last week that is a big problem"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
d g q t	"Climate-related; I don't like cold weather" [note: informant tends to link items in a causal fashion; that is, a and b and c are related because a causes b and therefore is related to c too; this rationale follows for the following]
p j o x u	"We only share the area some of the year with folks who don't live here"
k r n l f i e	"Because we live close to the ocean we don't tend to pollute as much"
s h a c b v	"These relate to the intrinsic value of living in a small community; these things become more intense in a small community like this"
m w	"These are related since a rural area generally means a low crime rate; domestic crime here is like anywhere else but the surface type crimes are not"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	f v t w i o n	r k q u x m j b l	a c d p g h s e	--	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
k s n c	"These are not relevant to us here; these are activities once-removed from the resource; casual kinds of use"
q	"Water-related"
f g p h i e o b d	"These involve using the resource without taking something from it"
j a m r t l	"These involve taking something from the environment.. hopefully"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j	a m r t l	c n s o	k q	-



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
u k e j w l m h t o d s g	"These relate to pressure directly related to the tourist economy"
f a v p i	"These involve impact or interaction with what goes on across the Sound"
r n	"These are natural, weather things; weather causes the need for the jetties"
b x	"We've been here too long [on the earth]; we've got to get an awareness of how we use products"
c q	"These are sort of impersonal; yes we have some say in them but they aren't really a local issue"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	g s o w q	c n	v b u j k e l m h d p v f a	i t r	-

WHY/HOW:

- 1) On the first pile as a whole: "People impact has more damage to change the community than the weather, the environment... its people. . .

PILESORT DATA

RESPONDENT CODE: 010x  
HOME: Hatteras  
USE AREAS: Hatteras Island  
LENGTH OF RESIDENCE: 47 years

ISSUES:

- 1) "The native born to the island would like to see not too many more changes here. You can never go back home but the character, the personality should stay intact as far as possible...the tourists bring the population, the changes..."
- 2) "Would like commercial fishing to carry on; restrictions are good but I would like to think the industry could continue... my son has the family boat now; it gets tough at times..."
- 3) "Water; we used to use cisterns you know, but water is a big problem now [as the population increases]"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
j f w o d e r t	"Geographic qualities"
c b a v h	"People stuff; its people that make it all happen"
i k	"Environmental stuff"
u p	"Seasonal things"
g l q	"Ocean-related"
w x	"I don't know what to call these"
s	unique
n	unique

SCALED PILES: QUALITIES
-------------------------

PILE	1	2	3	4	5
ITEMS	b c d e f g h i l m n q r s u v x	p j o w	k t a	--	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
d p g e m f o	"Entertaining activities; popular summer-going"
j l t	"Commercial activities; things done for a living"
h r	"These are rare [here]"
q	"This is a winter sport"
i s n c	"Sightseeing/tourism"
a	unique "Not as abundant here as other entertaining activities"
k	unique "Rare [here]"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j d g e m f o c n s	q a	i r l t	p	h b k

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
c a f x	"These have to do with the environment"
d j e b r	"These are sort of structural things"
n	unique
s w	"This has to do with governmental regulations"
l	unique
q t	?
o g u	"These are related to population things"
m h	"Development"
k	"We get lower prices but they will change the island; the Food Lion..they take away from the real personality of the island"
v	unique
p	"
i	"These would help the economy; happy to have..."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	d n o u p k i h m t s g w l r s j x c	--	v	--	b a f q

**WHY/HOW:**

- 1) sewage: "This is a priority"
- 2) hurricanes: "Would wipe out a small place like this"
- 3) too many people: "Would be devastating to the [character of] the community"
- 4) marinas: "More marinas would have drastic effect but they'd have to be crazy to build another one [informant refers to the already competitive situation in Hatteras]"
- 5) chain business: "Would hurt the local people [i.e., Red and White grocery] terribly"
- 6) military: "If the Coast Guard pulled out it would be bad"
- 7) unpl/overdevelop.: "We've got to have some restrictions from here on out..."
- 8) higher tax: "This would hurt the locals, the real locals"
- 9) relaxing env regs: "We have to protect what we've got [would have negative effect]"
- 10) tourism/overfish/poor manage: "We need more tourism to help the economy but we have to be careful"
- 11) jetties and bridges: "This would have a good effect for us [more tourism due to better transportation], and people who have to go to doctors and hospitals want the bridge repaired; we need bridges"
- 12) offshore drilling: "This could have a terrible effect on the area if the water was polluted"

**COMMUNITY:** Hatteras  
**INTERVIEWER:** E  
**DATE:** December 17  
**RESPONDENT CODE:** 011X  
**HOME:** Hatteras  
**USE AREAS:** Hatteras Island  
**LENGTH OF RESIDENCE:** 2 years in Hatteras; 8 years in Kill Devil Hills

**ISSUES:**

- 1) Water availability; the quality and quantity of water available for future growth.
- 2) Future growth of the island "I don't want to see it built to the point that is no longer an attractive place to live"
- 3) "Maintaining the environment; actually we first need to re-attain, re-establish it, then protect it; [we need to prevent] the loss of the sound and shellfishing before it is lost to septic problems"
- 4) "The need for zoning"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
dui	"These are seasonal, climate-related; people come here for these things"
ntq	"Water-related"
oxwj	"Peace and quiet"
kerf	"That's natural beauty"
ca	"Things related to community"
sh	"These are related in that unique architecture is an outcome of history"
vb	"Things related to family"
lg	"Things related to resources from the sea"
mp	"These are related because there aren't enough outsiders to be these kinds of problems"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	hbcvrqtniudxjsfo	lkam	pw	g	e

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q	"This has to be separate because I don't hunt and don't have a perspective on hunting"
csn	"These are all visitor activities"
abdefghijklmoprt	"These are all related to the water"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	fgeldm	tipakorj	hbncs	q	-



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
xtbqir	"None of these are relevant to the community"
oukdwslg	"These things are all related to growth and have the greatest affect on quality of life in the community"
fanc	"These would all have a major negative effect"
pmjevhh	"These are sort of infrastructure-related and fishermen-related items"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nokdwslh	vmpguc	rxejaf	tbqi	--

**WHY/HOW:**

- 1) All of these [in pile 1] would have a dramatic effect on the quality of life in the area. Most of us are here because we want to be here; we don't have to be here. We see the rest of the world as "out there," out there beyond the bridge; we don't like it out there, its not the real world -- this is. These items affect our ability to live here the way we do. They all take away from the quality of life that we look for here.

Bringing in chain businesses: "From a business standpoint, all businesses are owned locally; to bring in a K-Mart or Wal-Mart would be a disaster. We uphold the ideal of putting back in what you take out; the majority of us believe this kind of business doesn't really involve this."

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: December 17  
 RESPONDENT CODE: 012X  
 HOME: Buxton Woods  
 USE AREAS: Fishes out of Hatteras, uses Hatteras Island  
 LENGTH OF RESIDENCE: 15 years or more on and off

ISSUES:

- 1) "Politically-motivated fishing regulations"
- 2) "Overdevelopment"
- 3) "Poor management of the environment for the sake of a dollar"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
sh	"These are together because neither of them mean much to me personally"
bkavc	"These are the reason the local people enjoy living in the area; these are why I like living in the area; this is a catch-all pile"
cwixeljrm	"These are the true items; they are related to the quality of life here"
pdvfo	"These are things that make a difference too, but they aren't quite as important [as the items in pile 3 above]."
tqnq	"These are my personal hobbies and are related to my livelihood"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	tqngu	wixeljrm	brauc	pdfo	sh

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
maedg	"These are for the hard-core tourist; people come often for these things"
fpbk	"These are related to people coming to use the water in a casual way"
h	"There's not much sailing here"
q	"This is a native activity"
ncsio	"These kinds of things are related to Park Service kinds of things..These are thing families from Raleigh or New Jersey come to do"
jrtl	"These are commercial things; these are things that involve using the resources here to eat and to feed others"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jrtms	adgi	ncoe	fpbk	qn

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
nv	"Natural phenomenon"
acdf	"Pollution or potential pollution"
qt	"Politics"
pl	"These are politics too." "Fishing regulation will change the face of the island"
ob	"Over-population"
rej	"Construction; hardening the island"
i	"These things do not have much effect here"
smugwhg	"Poor management of the island; these have the potential for the most important kinds of change"
x	unique
k	unique

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nv	smuwghlp	acdferjx	obk	iqt

**WHY/HOW:**

- 1) "A bad hurricane could end end the community; there would be total devastation."
  
- 2) "Red tide could really screw us up, bad water, although this would be temporary."

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: December 17  
 RESPONDENT CODE: 013X  
 HOME: Buxton Woods  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 15 years

ISSUES:

- 1) "Overdevelopment is the primary issue here; people want to increase tourism but the island wasn't meant to hold them. Only some people would benefit"
- 2) "Related to overdevelopment are the problems of water and electricity and other services; the more people there are here the more difficult it will be [to provide these]"
- 3) "Also if there is a big hurricane it will be hard to evacuate all the extra people"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
afhgl	"These are things most important to me in living here"
creidwnv	"These are also important but not as important as these [afhgl in pile 1 above]"
wjbxo	"These were once true but not anymore"
qut	"This pile is true but these things really don't involve me"
psk	"These don't pertain to this area"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	oafcrbjxmgl	hpkiwue	dn	t	qus

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
cjtlmos	"I either participate in these or think they are important to the area"
fieq	"I don't do these but they are important to the area"
gkhb	"These are nice past times for people but I don't do 'em"
mad	"These I don't do and don't like"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	gdmojrIt	fsnc	eha	ib	kqp

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
pogmwthds	"These things are happening right now; real important"
bxiafj	"These are happening now but they're not as important"
re	"Funding-dependent. They aren't happening now but would have disastrous effects if they did; these are very important"
cklnvu	"These are not happening now but could happen much faster than these things [re in the above pile]."
q	"I don't feel he is going to have an immediate impact. I'm fatalistic; it probably doesn't matter [who the president is]."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nshmec	pogkdul	tvxbjrw	afi	q

WHY/HOW:

- 1) Hurricanes: "could totally wipe us out; it would wipe out the [beachfront] houses and form new inlets."
- 2) Relaxation of regulations: "Would really change the aesthetics on this island. The big deal is between Friends of Hatteras and the Cape Hatteras Water Association -- the Coastal Federation went with the judge in the situation surrounding Buxton Woods." [informant refers to the appealable decision made to allow construction of new roads in the forest that the CHWA says are needed to get to new wells which are ultimately planned for development impact units.]
- 3) Overdevelopment: We're coming close to that now and we can't provide the services needed to support the population -- water, electricity, garbage.
- 4) Unplanned development: has gone on for a long time, that's why we have unsightly spots. We haven't had any zoning"
- 5) Bridges: "would bring more people here which means there would be more problems for ... the barrier island"
- 6) Offshore drilling: "the place where they want to drill is really popular with the fishermen. I really think it would change us for the worst. It makes me uncomfortable both to have it [rig] out there and how they plan to get it through to the mainland. This thing could have a lot of effects in people's minds that something *might* happen."



COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: December 18  
 RESPONDENT CODE: 014X  
 HOME: Buxton  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 16 years

ISSUES:

- 1) "Development is the big issue; we're having growing pains. Some would like the place to go back to what it once was, some would like it to stay the same, and others [want to see it grow]."
- 2) "The other issues are related to the first. I would have to say septic problems."
- 3) "Water is another big one [related to development]" [informant refers to water availability]"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
dglutq	"These are not as important for me but these are reasons why others live here"
ferinox	"These are the main reasons why I live here"
jmp	"These are social benefits that are really the opposites of urban life"
bvwca	"This is personal friendly level; small-town stuff"
sh	"I see the history of the place as being sort of the lifesaving; the architecture is related to this to me"
k	"hogwash"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	acvafnqutdhs	bowgmx	per	kj	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
ok	"
hpdbfg	"Activities for transplants and tourists; more active recreational pursuits"
aem	"More serious recreational activities"
snc	"These are things that visitors do; visitation things"
qjrlt	"These are R&R [rest and relaxation] for the real local local people"
i	"This is recreational too but more hard-core like [aem in pile 3 above]"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	mdfgoesn	jtlrq	cia	bphk	--

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
flwhmsdcoar	"These are direct and measurable impacts on the resource"
kgvejr	"These would have a negative impact on the environment but would take longer to measure, would be felt over a longer period"
vn	"These are natural events that you can't do anything about; these don't relate to any of the other piles"
t	unique
i	unique
xpq	"These are possible good things [i.e., Clinton] and definite good things"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n	wfnldcshmo	ratpg	bjeuk	xqiv

WHY/HOW:

- 1) Hurricanes: "would have the swiftest most immediately measurable impact"
- 2) The items in the *second pile* "again, would be have a measurable impact but only over time, they could prevent a change over time for the whole community"

COMMUNITY: Hatteras  
INTERVIEWER: E  
DATE: Dec 20  
RESPONDENT CODE: 015x  
HOME: Hatteras  
USE AREAS: Hatteras Island  
LENGTH OF RESIDENCE: 11 years

ISSUES:

- 1) "Our ability to provide utilities [for a growing population]; water is the most consistent problem right now, and electricity is looming"
- 2) "Our landfill is in trouble"
- 3) "The road thing is a big problem; although I don't really care [about being stuck when the road is overwashed], the medical stuff is scary -- that should be a priority" [informant refers to getting trauma patients to the medical center or airport where they can be airlifted to a hospital in Norfolk or Elizabeth City]
- 4) "Uncontrolled growth; the shellfish beds have all been closed on the west side of the island -- up in Avon and Frisco. Right now the impetus to restrict growth is people-driven ... it's been a public initiative and not a governmental one"
- 5) "The escalating price of land; the local people, I mean the real local people are having a tough time -- the cost of living is rising, water bills, electric bills are up. We are losing the identity of the place; we're going from a fishing community to a high dollar resort area...and the transition is happening in such a short period of time....Some local families have big bucks and can handle it and some are behind it, but it's the working class locals who are having a tough time.... it's already too late..."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
irfkneo	"This pile is the outdoor reason why people are here"
cba	"Small-town atmosphere stuff"
hv	"This represents the historic thing"
u	unique
jpwm	"These are the facts of being in a rural area; these are positives in my mind"
tgq	"Activity-related"
x	unique
l	"
s	"
d	"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	fnhmtuli	abvo	kdecjwrsqgx	--	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
rltj	"Commercial enterprises"
maq	"These are things for the sportsmen"
ofk	"Day beach activities"
debphg	"Athletic types; people who like to have gear" [laughs]
i	unique
ncs	"These are things real tourists do"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	emsn	iofjd	gpa	rltcqb	kh

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
i	unique
jer	"This is the Department of Transportation doing their thing"
ugk	"These are all related to increasing tourism in the area"
x	unique
q	"These are things we need to be doing"
wbmho	"These are bad planning things"
p	unique
t	unique
cvasdf	"Environmental things"
l	unique
n	"Hurricanes are natural disasters"



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	mfhownv	ctxqds	lpæbkg	irjv	

**WHY/HOW:**

1) "In the long term many of these could have a very big effect on the community; if these were to occur it would be the end of life as we know it here on Hatteras. These represent the degradation of the quality of life here"

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: DEc 20  
 RESPONDENT CODE: 016X  
 HOME: Hatteras  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 3 years full-time, life-long visitor

ISSUES:

- 1) "The depressed economy that has resulted from decreased tourist revenue [the informant suggested that the national economy is affecting the local and regional tourist industry], and the depressed fishing seasons. The poor fishing is due to ... unknown factors; some say it's pressure on the stocks, but a lot of the commercial guys, the old-timers are saying that its just cycles, a cyclical thing and that there's plenty of fish out there"
- 2) "For me, maintaining stable health care on the island -- a stable health care system has been a real problem"
- 3) "Educational facilities" [informant indicates development of more or better educational facilities is a priority]
- 4) "Youth activities; having more things for our kids to do"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
wavbc	"This stack is the community aspect of life here"
hukx	"These don't fit in; they are additional statements that do apply to the area but that don't fit in with the other stacks"
smopnt	"Personality and lifestyle things"
qg	"These for me are recreational and outside interest things"
jfelrdt	"This is the environmental quality stack"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	awvbcefmqj	pon	xthril	duks	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
ofei	"These are just things that are fun to do"
bdh	"This stack is things I enjoyed in the past but that I'm not doing alot of right now"
j	unique
rtl	"These are gathering activities I enjoy doing in the sound"
pk	"These are things I really don't do or have an interest in"
agm	"These are things I really enjoy doing in my spare time"
qsnc	"This is the screwed-up pile; nothing I care about"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	nsjof	elmtra	idg	cqb	kph

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
moavhlsnd	"These could definitely ruin this environment"
pqx	"Those things could possibly help protect the environment"
ugrej	"May or may not adversely affect the things that are important here"
fckbt	"These either don't apply to us right now or have the potential for long-term consequences that aren't readily apparent"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	csvhnmlowp	dbtgk	af	qx	erjui

**WHY/HOW:**

- 1) Relaxing env. regs: "We have such a finite amount of resources...the carrying capacity of the idland is limited; without regulations it will get abused for the sake of a dollar"
- 2) Increased fish regs.: "Lots of guys are having trouble making ends meet as it is; more regulations would put an end to their [commercial fishing business]"
- 3) Poor management/unplanned/overdevelopment: "I would say the same thing for these as for relaxing environmental regulations; they all go together"
- 4) Overfishing: "This threatens commercial and recreational fishing which are the backbone of our economy"
- 5) Too many people: "Bringing in too many people could threaten what is attractive about coming here"
- 6) Hurricane: "A Hugo would be devastating for the economy here...it would take years and years to recover"
- 7) Oil drilling: "Would change the face of the area, if we got an influx of out-of-towners who have no stake in the future of the area other than [immediate] financial gain"

COMMUNITY: Hatteras  
INTERVIEWER: E  
DATE: Dec 18  
RESPONDENT CODE: 017X  
HOME: Hatteras  
USE AREAS: Hatteras Island, offshore waters  
LENGTH OF RESIDENCE: life

ISSUES:

- 1) "Economics; the slow down in the national economy; not much money being spent in the markets"
- 2) "Fishing regulations (SAFC) affects how much money guys like me can make"
- 3) "The battle between the recreational guys and the commercial guys" [informant refers to the use conflict situation]
- 4) "Erosion of beaches; how long is Highway 12 going to last?; I decided, a while back that I wasn't going to take out a loan because the bridge was threatened...The jetties [at Oregon Inlet] could be a start but what they really need is some kind of raised highway back along the sound"
- 5) "I don't know, oil derricks offshore, exploration; there's a possibility of oil platforms being set up out there and its a damn wild and pristine area. Pristine areas can be preserved without going into the offshore waters and drilling. Hatteras is 19 miles from the mainland and its a fragile environment as is. We don't want to compromise, I mean just the fact that people *know* its out there, whether or not they can see it will take away from it [the aesthetics of what the informant call the wilderness offshore]"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
d r e f k	"Hatteras Island"
x p n m i o	"There's not many people around; its a 'frontier'; its wide open still"
h s	"The history of Hatteras has dictated its architecture -- not mowadays but the older places like the one you are living in [built 1906], those have character. They used to use driftwood to build a lot of the older places; you can see it in the old architecture, the graveyard of the Atlantic"
q	"This is separate; being 19 miles from the Gulf Stream gives us good [wave-making] weather"
u t l g	"These all have to do with fishin; my activities"
w b c v a	"This is Hatteras Village"
e	"This one bothers me" [informant is not sure that it is a true statement]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q h s o a v g i x d f p n	j r c u	t w k	l b e	w

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q	unique; "almost non-existent -- everybody goes soundside to hunt; the deer here are so small 'cause there ain't nothing to eat"
j	"Work"
c n s	"Education"
d i a m g f b k h o r t e d	"These are all recreation"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	e d r o i c n s f g j m a	l b	t	h k p	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
j t	"More or less just government kind of stuff"
q	"I'm just not sure yet"
c m h k u	"These would have a total effect like dropping a bomb, a major impact. Chanin businesses would kill the little guy; Food Lion wouldn't have got here if it weren' for all the big cottages [informant refers to influx of rich second homeowners]"
a f s d	"I see these as together because they are all related to not enforcing regulations like they should be"
b g o	"These related to that pile [afsd above] but are more pertinent here; these [the pile above] has a larger scope but these are more pertinent to Hatteras"
v l p	"These affect my business"
w x	"These are resource issues"
r e	"These are major money items required for Hatteras Island to continue"
i	unique
n	"Hurricanes are Hatteras Island; hurricanes are Hatteras"



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n k c t q	l p w h	d o g b r m	v x f e a j	i s u

**WHY/HOW:**

- 1) Offshore drilling: "It could be good and allow people to pay taxes [by providing jobs]; could be bad if there was a spill"
  
- 2) Clinton admin: "Could be good if they don't let gays into the army"
  
- 3) Higher taxes: "Bad for the elderly who are on a fixed income, I mean the old people who are form the island itself"
  
- 4) Bringing in chain businesses: "They could put the Mom and Pop businesses out of business; there's not enough population to support chain stores; on the other hand it's too expensive to live in Hatteras and they might be good for getting cheaper prices"

COMMUNITY: Hatteras  
 INTERVIEWER: E  
 DATE: Dec 19  
 RESPONDENT CODE: 018x  
 HOME: Hatteras  
 USE AREAS: Hatteras Island, Roanoke Island, Bodie Island, Pea Island  
 LENGTH OF RESIDENCE: 20 years

ISSUES:

- 1) "Loss of identity of the village; people pass right through Hatteras to get to Ocracoke to find character; they are preserving it down there, they are playing on the quaintness of the place; people want quaintness and charm, they don't want to come to a place that's like where they live already, they come to get away, and soon we won't be able to offer it to them"
  
- 2) "The livelihood of the natives is threatened; rising taxes, cost of living..."
  
- 3) "Protecting natural resources; everybody wants a piece of the frontier"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
s w	"These don't apply; there is not special architecture here"
e q l t r p x i j b	"This is the view of the tourists"
u o f g d a k c w v h n	"This is the view of the community insiders"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v n h a d g f o t q x	k u c l e i	b r p m	s w j	--

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q b p k t o e h	"These don't particularly apply to Hatteras Island"
f a r j g d m l	"This pile certainly does apply: these are <i>popular</i> activities"
n s i c	"That is what they should do; they don't do it; they're goofy they should do these, they don't take it seriously"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j r g m	a d f l o s	c n	b i	q p k t e h

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
j r e	"These are DOT concerns"
w	"Atmospherics"
q	"Political"
t h m o x d	"Things people should be concerned with"
k l g u	"The pile of things we don't need"
f a i v	"Don't apply to the area"
b w c p s	"Important but people aren't involved enough; people don't know what's involved in these things including me; this is the I haven't done enough research pile"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	if	domhgtw	ncseq	jrx	bvaku

**WHY/HOW:**

- 1) "These would be the end of Hatteras Island as we know it: c'est tragique, c'est fini, wildlife, fish"

RESPONDENT CODE: 019x  
 HOME: Hatteras  
 USE AREAS: Hatteras Island  
 LENGTH OF RESIDENCE: 35 years

ISSUES:

- 1) "Erosion is the big problem facing the beach right now; we lost fifteen foot dunes this last storm"
- 2) "Overdevelopment is causing real problems with sewage and septic systems in the area"
- 3) "Water quality of the seawater and sands [is threatened]; the drinking water is okay"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
u s q	"These are things that don't particularly affect me positively or negatively"
p m	"I agree with these but these are seasonal; in the summer you can't get on the
f k r g e t l	"Natural environment; environmentally li=fe is easy here -- as compared to other places, urban areas"
i o n x d h w c b j a u	"I don't know, these just don't fit in..."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	a c o d x n b j	f i h v	g u w	k r l t q	m s p e

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
d p m g h e o f	"These are basic reasons why people come here"
a r c s i n	". . . Secondary reasons why people come"
j l t b	"These can be either commercial or recreational; there is a limited amount of activity with these here"
k q	"These have the least activity around here; deer are much bigger in other places like in the North Carolina Mountains"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	d p m g h e o f	a r c s i n	j b t l	--	qk

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
n v r l d x	"These are growing problems [informant meant problems associated with growing]; development problems"
q a i f	"These would have no consequences for us; they aren't relevant"
p j o g	"Problems of limitation; limiting factors"
e	"Safety features for evacuation"
w m k c u b t s h	"These are also problems associated with development" [informant did not offer reason for differentiating between these and those in pile 1 above]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n e d u s h m w t	l v r o j p g c	x b k	f i a q	--

**WHY/HOW:**

- 1) Hurricanes: "Change everything and who knows with the overdevelopment"
  
- 2) Bridges: "I'm worried about evacuation off the island; bridges mean better flow of traffic evacuation"
  
- 3) Sewage/marinas/overdevelopment: "These are all related to management issues"
  
- 4) Higher taxes: "Everybody is always yelling about having to pay higher taxes and whether they are getting their money's worth from the County "

COMMUNITY: Hatteras  
INTERVIEWER: E  
DATE: Dec 22  
RESPONDENT CODE: 020X  
HOME: Hatteras  
USE AREAS: Hatteras Island  
LENGTH OF RESIDENCE: Visitor for 24 years

ISSUES:

- 1) "Offshore drilling"
- 2) "Protecting wetlands and coastal ecosystems"
- 3) "Protecting fisheries and other natural resources"
- 4) "Overdevelopment"
- 5) "Halting jetty construction at Oregon Inlet"



PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
e	"Water quality in the sound is poor. Not quite accurate."
d	"The climate can be harsh, even life-threatening."
f r i u t x o n	"Physical attractions of the area."
k a v b m c	"Human attractions of the area. Qualities of the people."
p j	"True in winter, false the rest of the year."
h s	"The unique architecture relates to the history."
q g	"Two ocean activities I enjoy."
l	"Yes, the seafood is good."
w	"To me, rural means agricultural."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	i t u o n q g l f	r	h a c m b x	s j p e d k v	w

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
e h g m p d b	"Aquatic activities that require equipment."
k f o	"Beach activities anyone can enjoy."
n c s i	"More sedate activities."
q	"Not related to anything."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a j m n g o f d	r l e b	h t s i	k p c	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
g o b d u j m a k e	"All could result from overpopulation and overuse."
v n	"Natural disasters, although pollution may contribut to red tide."
w l s f a r c i	"Man-made threats to the environment."
x q p	"Things that could help the environment."
t	"Stands alone."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c n a s r h	m w l f i g o u j k	p v t d e	x q b	

**WHY/HOW:**

1)"Offshore drilling could threaten ocean, sound and beach ecosystems through drilling activities, leaking pipelines or tanker spills."

2)"Hurricanes could obliterate both human and natural habitats."

3)s, r, h, a. "These are the result of human negligence and could result in drastic loss of habitat and degrade the quality of natural ecosystems, perhaps causing them to fail."

#### 4.4.4 Ocracoke

##### Free-listing Data

##### Quality of Place

beach

beach

beaches

beaches (11 continuous miles)

birds

birth: born and raised in Ocracoke

climate--not much snow--doesn't like really cold weather

fish

fish-- croakers

fish--blue fish

fish--crab

fish--fin fish

fish--flounder

fish--mackerel

fish--trout

fog

gale force winds

geography of island, you can walk anywhere

geography--unique geography of Outer Banks

gulf stream (keeps temperature mild)

harbor

harbor

Islands are romantic places

landscape

marsh areas

marsh on the sound side

national park--Cape Hatteras National Seashore (Nature Reserve)

national park

National Park/Seashore

natural power of environment ("incredible!")

ocean

ocean  
ocean  
ponies  
Portsmouth and all the banks on the coast  
Portsmouth Island--isolation and lack of development  
protected beaches  
reefs on back of island  
reliable winds  
seashore  
shell fish; clams, oysters and crabs  
sound  
sound  
South Point of Island  
Springer's Point--privately owned maritime forest  
star light and moon light--this is threatened by the increased use of mercury vapor lights in the last 20 years  
surf  
undeveloped land  
vegetation--(against the "McDonaldization" of the US). People should preserve the natural vegetation and not introduce grass and shrubbery that are not natural to area.  
water  
water  
water  
wildlife such as birds, fish and shellfish  
"like being in a modern-day tribe"  
beaches uncrowded  
beaches: among Best Beaches (Ranked by USA Today)  
can still drive on the beach  
can get involved easily in area, there is a job for everybody, don't have to be a specialist  
can still ride horses on the beach  
clean air  
clean water  
concern for the environment  
different types of people, but common interests: ocracoke character  
distance from other places  
don't have to worry about locking doors or locking up your bike  
easy for people to walk around  
env.--clean ocean  
env.--clean sound

env.--clean ocean  
env.--clean beaches  
everybody knows everybody  
exciting environment (things can change quickly, e.g., with a storm)  
family history is here  
fishing is good  
fishing is easily accessible  
fragility of the natural environment (as well as being powerful)  
friendly people--this is threatened by drive-in windows at the bank.. people don't have to get out and make contact  
Historic Nature of Island  
incredible natural environment  
know everybody  
lifestyle--survival-type of live style  
like working on the water  
lots of water activities  
lots of cats  
mental health--"not happy unless I'm on the banks"  
my work  
natural forces are the most powerful forces going on  
natural beauty of area  
NC Coast not as crowded  
no traffic lights  
no franchised businesses  
peace and quite  
people come here for what Ocracoke is, not for the condos  
people look out for each other  
people (natives are generous, hospitable, and intelligent)  
people are nice  
people--special kinds of people come to visit (not everyone, selective people, outdoor-minded people) people--the number of friends of Ocracoke who will help it out when it is in trouble  
pristine state of Howard Street  
pristine clean waters (except in harbor)  
progressive thinking people(people who voted for Clinton)--these are here because Ocracoke is at the end of the road and maybe because these people don't fit in in other places  
quiet  
quiet: little goes on  
quiet: no rat race  
Rural seaside village atmosphere  
seasons

sense of community--you know which way the person in front of you is going to turn before they turn on the blinker  
sense of history  
shape of harbor--village has grown around it  
small town  
small community  
small permanent population  
small community  
town--community feeling of island  
town--no traffic light  
town--things are conveniently located  
weather is good (and when it is bad, the fishing is good)  
when someone wants to borrow his bathtub they just do it  
work: working somewhere else I'd have to go wide open right now, I can take my time to do

#### **Use of the Environment**

beach combing  
bicycling  
bike riding  
biking  
bird watching  
bird watching  
clamming  
commercial fishing  
commercial fishermen use crab, shrimp, scallops, clams and fish  
commercial fishing also depends on protection of water  
crabbing  
diving  
driving along the beach  
duck hunting  
economics: attracting tourists to environment  
enjoying the outdoors  
exploring  
fish  
fishing  
fishing for blufish

fishing for income (commercial)  
fishing for flounder  
fishing for sport  
fishing for mackeral  
fishing for subsistence  
fishing  
fishing  
get out and walk around: too much traffic in other places  
goose hunting (used to do, can't do anymore)  
kayak tours in the marshes--see egrets and other birds  
kayaking  
longhauling  
motor boating  
mullet fishing  
nature trails  
other people use these resources recreationally  
party boating  
photography  
pleasure boating  
real estate developers use the land (land more valuable on an island because it is a scarce resource)  
recreation/sport  
riding horses  
sailing  
setting gill nets  
setting poundnets  
shark fishing (mako)  
shrimping  
sight seeing  
sight seeing  
sport fishing  
sports fishing  
sunbathing/going to the beach  
surf  
surfing  
surfing  
surfing  
swimming



swimming  
swimming  
swimming  
the attraction is the environment  
tourism  
tourist industry depends on the beach and water being here and being protected  
trawling in ocean during the winter  
walking  
water skiing  
water ski  
water ski  
wind surf  
bicycling  
boating around the sound  
boating  
clamming  
clamming (hobby)  
clamming  
clamming  
commercial fishing  
crabbing (hobby)  
exploring  
fish for pleasure  
fish for food for the table  
fish for income (commercial fish)  
fishing  
fishing  
going to Portsmouth  
kayaking  
lease house in Portsmouth for vacation  
likes to be at the ocean  
oystering (hobby)  
photography  
religion  
riding around and looking at pelicans and canadian geese  
skinny dipping in ocean  
sport/recreation

surf  
swim  
swimming  
swimming  
walking  
walking  
water ski  
water skiing

#### **Risk Perception**

any real estate development  
any type of off shore industry (e.g., fish factories, oil)  
bridge  
building  
building--too much commercial building. This includes piers--this imposes on the water quality because none of the places on the harbor have a pump out station  
chain businesses  
continued inadequate development ordinances  
developers  
development  
development --"too much building"  
development of the wrong kind of business/industry  
fishing: pound nets help the environment (see notes 004OCR)  
home mail delivery  
hurricanes  
hurricanes/major storms (which are fairly regularly)  
if park service sold off park land  
increased offshore boat traffic  
increased tourism  
mainland development could affect estuary/water quality which could affect tourism and fishing  
more traffic  
moving to Dare County  
natural disaster/storm  
no link up to Route 12 (no tourist could get here)  
off shore waste of all types (floats up onto beaches)  
offshore boats cleaning bilges (expels gas and oil)

offshore waters peppered with drills  
oil spills (would affect fishing, tourism, natural beauty)  
oil drilling  
oil drilling offshore  
overdevelopment  
overdevelopment -- development that stresses infrastructure  
overharvesting clam beds  
pollution from texas gulf  
pollution from Rocky Mount sewage  
pollution from weyerhouser (pulp)  
pollution of air  
pollution from more septic systems from development  
pollution of water  
pollution: military pollution  
pollution: industrial pollution  
pollution: agricultural runoff  
road washed out by water  
run off from farms  
sewage: septic tanks  
significant find of natural gas or oil off of the coast (send an economic stimulus through island)  
taxes--lopsided (cause people to sell out their land to either live or too make money.  
too many people  
too many vehicles  
too many big buildings  
TV(cable) has changed the area already  
uncontrolled development  
water pollution  
water quality -- in rivers, sounds, and inlets (vital to economy, fishing, and tourism -- watersports  
anything that affects tourism  
anything that affects the natural beauty of the area  
anything that divides the community  
damage to the environment (would affect tourism and fishing in the long run)  
damaging water quality  
changing the good relationship that the town has with the park service  
effort to change the national park status (which is approximately 88% of island)  
development--concentrated building  
development of "the wrong kind of industry such as off shore drilling"

development/population growth that puts too much pressure on existing local services  
development--"too much building" -- don't need big condos and motels  
malls (large shopping complexes)  
zoning restrictions on cottage industries  
fight zoning and regulations  
oil development  
ferry service increase  
fishing decline  
hurricanes  
if park service sold its land--currently protects a large part of the island  
if a giant corporation came in and developed  
if Dare County closed access to landfill from Ocracoke  
inconsistent enforcement  
increase in ferry trips to Ocracoke--can only bear so much traffic  
increasing or decreasing the ferry service level  
higher taxes  
more taxes/higher taxes ("we're being taxed to death" by Hyde County)  
neck ties and high heeled shoes  
pollution: polluted groundwater  
public (government) agencies that aren't protecting the public  
remain unincorporated  
sewage system--this would encourage development  
splitting up families by reducing tourism  
stay in Hyde County  
tourism decline

**PILE SORT DATA**

COMMUNITY: Ocracoke  
INTERVIEWER:j  
DATE:12-10-92  
RESPONDENT CODE:001OCR  
HOME:Ocracoke  
USE AREAS: Pamlico Sound  
LENGTH OF RESIDENCE: 20 years

**ISSUES:**

- 1)Controlling development
- 2)County affiliation
- 3)Incorporation
- 4)Coastal resource management
- 5)Maintaining transportation routes

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
f o n x w k	"Environmentally related, more descriptive."
t r i e l g q	"Activities related to the area."
u d	"Climate of the area."
c v a b p j m	"Something about the people of the community."
h s	"Architecture and history of the area."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	fnxtergimpbvc	iqdu	hsa	k	jow

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
m a e f b k o p g d h n c s q i	"Sports and recreation, leisure activities."
j r l t	"Commercial activities. How you make a living."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jltmogf	ensiah	pkbd	c	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
w s m h	"Development and development related activities."
g o d b	"Problems related to tourism."
a f c v u	"Have to do with water quality. Things that can affect it."
l p	"Sport fishermen say there is overfishing. Commercial fishermen say there are too many regulations."
t q i x	"Government related."
r j e	"Infrastructure."
k	"Doesn't go with anything."
n	"Doesn't go with the others."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	wmjukesh	qir	nbcfxla	dv	optg

**WHY/HOW:**

1)"Construction of bridges between Ocracoke and Hatteras Island would totally change the make-up and psychology of the Ocracoke village."

2)Relaxing environmental regulations: Has already occurred and would further affect commercial fisheries and tourism. "People will not want to come someplace that is "muddy looking with dirty water."

3)chain businesses, more marinas, overdevelopment, unplanned development: "The more Ocracoke gets to look like every other place, the more you are destroying your income. People come here because its Ocracoke, not Nags Head or Atlantic City."

4) poor management of natural resources, paving for roads and parking: have detrimental affects on wetlands, "our most precious natural resources.



RESPONDENT CODE:002OCR  
 HOME:Ocracoke  
 USE AREAS:Pamlico Sound between Hatteras Inlet and Cedar Island  
 LENGTH OF RESIDENCE: 50 years

ISSUES:

- 1)overdevelopment
- 2)water quality
- 3)high property taxes
- 4)increased property values
- 5)changing counties from Hyde to Dare

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
n k t e r o i q g l d f x j a h c v b	"All relate to a clean ocean, beaches, surfing, just what Ocracoke is."
w p m	"Social problems."
u s	"Relate to a seasonal lifestyle. Outer Banks traditions."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	acjxfdhlgqiortknbvwp	us	e		

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
n c a e d o p m g f h b s k i	"All are related to the ocean and beach of the island. More recreational uses."
t j l r	"More commercial uses of environment, livelihood issues."
q	"There is no deer hunting on the island."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jri sh l f g m d e a n	ctpo	kb		q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
u d s b w l c n k f m t h a g j v e o r p i	"Any could have a major change in social or physical environment."
x	"I'm all for it. It's a strong need."
q	"Clinton should help us more than anything environmentally."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	roeviahtmfkncwbsdu	gjpl			qx

WHY/HOW:

- 1)R -- "Jetties often cause more erosion than they prevent."
- 2)O -- "Too many people would be bad for both social and physical environment."
- 3)E -- "We don't need any bridges."
- 4)V -- "Red tide would ruin both commercial fisheries and tourism."
- 5)I -- "Military uses would create noise pollution."
- 6)A -- "Farm runoff is a pollution problem."
- 7)H -- "Overdevelopment is already causing pollution and crowding problems along the harbor."
- 8)M -- "Unplanned development created some of the problems we have now: marinas with no sewage pumping stations and buildings that are too high."

- 9)F -- "Industrial pollution. There is no industry on Ocracoke, but Texas Gulf Sulphur and Weyerhaeuser have polluted the Neuse, Pamlico and Chowan Rivers which affect Pamlico Sound."
- 10)K -- "Chain businesses would run local businesses out. They would pay less wages and people would make less money."
- 11)N -- "Hurricanes could cause total destruction of the island."
- 12)C -- "Offshore drilling. There is no way they can guarantee that we won't have an oil spill. If they had a spill, with our currents, it could be from Virginia Beach to Myrtle Beach. It would cripple tourism as well as commercial fisheries."
- 13)W -- "Poor management of natural resources. The fisheries are well-managed now, but it has come too late. There are too many people fishing and not enough fish."
- 14)B-- "Land fills. We don't have one in Hyde County. They had to close it. Now all the garbage is carried to Beaufort County or Dare County."
- 15)S -- "Environmental regulations are too lax as it is. We can't relax them further. People with money can get anything they want."
- 16)D -- "Sewage treatment is starting to be a problem. Especially after high rainfall, tests have found high levels of coliform bacteria in creeks and marshes. Takes weeks to clear up." Ocracoke voted down plans to build a central sewage treatment facility, fearing that without stricter building ordinances in place it would create more problems with increased development than no facility at all. Also, he noted that it would have to be built on federal land.
- 17)U -- "More marinas aren't needed. The marinas that we have now have no pump outs."
- 18)T-- "Higher taxes might cause the younger people to move to the mainland. If the taxes were raised it could force many of the locals out."

COMMUNITY:Ocracoke  
 INTERVIEWER:j  
 DATE:12-16-92  
 RESPONDENT CODE:005OCR  
 HOME:Ocracoke  
 USE AREAS:Beach, Atlantic Ocean, Pamlico Sound  
 LENGTH OF RESIDENCE:30 years

ISSUES:

- 1)Involvement in civic or private organizations and activities
- 2)Protecting cultural and natural resources
- 3)Develop better working relationship with Hyde County, or press to get into Dare County.
- 4)Fight for fairer property tax laws.
- 5)Future transportation plan to accomodate foot and motorized traffic

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
f n m k j x o w p e r i d	"These have to do with the environment and overall sense of place."
u l q g	"Recreational activities and seasonal lifestyles."
s a c b t h v	"Deals with people and how they've adapted over the years."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	hvbairmfn	tcgueoxjk	wsqdp		

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
g f k h o d m b p q e a	"Deal with recreational, relaxing things and physical activities."
s i c n	"More mental recreational activities."
j l t r	"Traditional activities, commercial or recreational in Ocracoke."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	emofsrj	daghcnit	pbk		q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
n v	"Things that deal with natural occurrences we can do little about."
i a c f	"Larger economic industries that are very difficult to control."
p s w x t q j e b r	"Government-related activities."
l m o k d u h g	"Cause and effect category: More tourism, more development. More chains, more marinas."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	dughomketsn	lfcpw	bjir		vxqa

**WHY/HOW:**

- 1)Hurricanes: "Could wipe out the community."
- 2)Relaxing environmental regulations: "Could have significant impact."
- 3)Higher taxes: "Would make Ocracoke like Martha's Vineyard."
- 4)Construction of bridges: "Would cause lost jobs on the ferries and change the community."
- 5)Chain businesses: "Would bring strip development, like Nags Head."
- 6)Too many people: "Would create a space problem."
- 7)Overdevelopment, more tourism: "Would lead to all of the above."
- 8)Sewage problems, more marinas: "Would damage the natural environment."

COMMUNITY: Ocracoke  
 INTERVIEWER: J  
 DATE: 12-29-92  
 RESPONDENT CODE: 006OCR  
 HOME: Ocracoke  
 USE AREAS: Beach, soundside, Pamlico Sound  
 LENGTH OF RESIDENCE: 30 years, born on the island.

ISSUES:

- 1) taxes
- 2) Economy
- 3) Youth and senior citizens forced out by taxes
- 4) Environment
- 5) Pollution

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
l d r b h p j x v a c m	"Good reasons to live here permanently."
t g u q	"Recreational activities or way of life."
f i n o e k	"Environmental reasons that attract people here."
s w	"Don't apply."



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	nref	ixgm	vocau	khdbp	swlq

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l r t j	"Reasons people live here permanently."
i f a m o e b h g p k d s	"Reasons tourists come here."
c n	"Minority of the tourists come for these."
q	"Doesn't have anything to do with Ocracoke."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	efnj	apor	bgmt	hdsl	ki (cq don't apply)

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
p l c n	"Major things that could affect the two major industries here: tourism and commercial fishing."
r j x q	"These politics may or may not help."
b w d a s f v	"Things that affect commercial fishing."
g e t m k u h o	"Things that could damage the tourist trade."
i	"Not a factor."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nv	homde	scfwr	ablpq	gutjk (xi don't apply)

**WHY/HOW:**

1)Hurricanes/red tide: "Could wipe out most of the industry around here, the economy and way of life. They have the strongest impact."

COMMUNITY:Ocracoke  
 INTERVIEWER:j  
 DATE:12-15-92  
 RESPONDENT CODE:009OCR  
 HOME:Ocracoke  
 USE AREAS:Ocracoke Beach  
 LENGTH OF RESIDENCE:20 years

ISSUES:

- 1)Land use
- 2)Environment
- 3)Preservation of historical aspects
- 4)Recycling
- 5)Transfer to Dare County

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
t x o p n w m h v b f j c a u	"Things Ocracoke offers. Most of the reasons I moved here and stay here."
e g r i d q l	"Qualities about Ocracoke anyone would like."
k	"People aren't really environmentally aware, the true locals."
s	"It doesn't have unique architecture. A typical small-town coastal atmosphere."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	abcdefghijklmnopqrtuvwx				ks

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
n c i s	"Things the island offers through the Park Service."
q	"Not done here."
b p a e d m g f	"Water-related activities enjoyed by locals and tourists."
k o	"Beach activities everyone does here."
j r l t	"Things done here for a living, some are done by visitors."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	acdefghijklmnorstuvwx				pbqi

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
p x	"Recycling and fishing go hand in hand. A lot of plastics are used -- litter and dead fish on the beach."
v n	"Natural happenings beyond our control that could greatly change the environment of the village."
t q	"Governmental changes that could cause Ocracoke to change drastically."
f a i r	"[These] don't affect us as much, but do impact areas across the sound and cause some harm to us."
d u l g o b e h j	"Things that are a result of too many people."
s k m c w	"All would cause great changes in the island, the environment and atmosphere."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	tbchemoknsdugwx	fav		lrp	iqj

**WHY/HOW:**

- 1) "Higher taxes would make it too expensive for most of the local people to live here. It would change the character of the community."
- 2) Sewage problems, more marinas construction of bridges, landfills getting too full, overdevelopment, more tourism, too many people: "These changes would result if the island became commercialized. A result of the I want, I want, I want syndrome. They would drastically change the community. Make it more like Hilton Head or West Palm Beach."
- 3) Relaxing environmental regulations, poor management of natural resources, chain businesses, unplanned development: "People who want growth at all cost would do these things to get it. They would lead to rapid growth and destruction of everything that is here now."
- 4) "Recycling would change the island's appearance. There would be a lot less litter, less killing of wildlife."
- 5) "A hurricane could make an immediate change. It could have a tremendous impact that would last for a long time here."
- 6) Offshore oil drilling: "Changes would occur from everything that comes with it. People, equipment, oil spills. We would see long-lasting effects of that."

COMMUNITY: Ocracoke  
 INTERVIEWER:J  
 DATE: 12-15-92  
 RESPONDENT CODE: 010OCR  
 HOME: Ocracoke  
 USE AREAS: Atlantic Ocean  
 LENGTH OF RESIDENCE: Eight years, visited for 22 years

ISSUES:

- 1) Offshore drilling
- 2) Saving wetlands
- 3) Development within the boundaries of the new land use plan.
- 4) Non-pollution of Pamlico Sound
- 5) Bird nesting

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
l q d i g r e x w o n f j u k	"Environment related."
v t p m b c a	"Community related."
h s	Preservation related."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	htpmbcalqdigrxwonfjuk	e	v	s	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
i h d o p b a e g m k f	"Recreational uses."
s n c	"Educational."
q j r l t	"Livelihood."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	tlrjsneaodhifmg	ckbp			q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
j l h e d g u c k o	"Development."
s m w r p t i	"Government activities we need to watch."
n v a f b	"Environmental disasters."
x	"A needed thing."
q	"Possible solutions."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	j l h d r u c k v o n f s m p w t i x q	e g			a b "not relevant"

**WHY/HOW:**

- 1) Overfishing: "Overfishing could deplete the fishery for local fishermen who depend on it for their livelihood."
- 2) Recycling: "Recycling could alleviate the problem of sending a trash truck to another county."
- 3) Poor management of natural resources would allow building on wetlands.
- 4) "Stricter fishing regulations would help, especially size limits."
- 5) Higher taxes: "Beginning in June, 1992, occupancy tax revenues began coming back to Ocracoke, helping the community. Nobody wants to pay higher property taxes. If the island switches to Dare County, we would pay less. It would be a good idea."
- 6) Military activities: "Low-flying jets are scary. They pollute the air and increase the noise level on the island. They scare people when they fly along the beach."



- 7) Unplanned development: "Would harm wetlands. We couldn't keep up with current water and power supplies on the island."
- 8) Relaxing environmental regulations: "Less land means less wildlife."
- 9) Industrial pollution: "We have no industrial pollution, although there is one smokestack behind the Boyette House."
- 10) "Hurricanes devastate people's lives, businesses and the environment."
- 11) Too many people: "It's a small place. We can't become overpopulated because of sewage, water supply, electricity. Housing could be a problem."
- 12) "Red tide is harmful to shellfish and the livelihoods of fishermen."
- 13) "Chain businesses would knock out small entrepreneurial businesses of the people who live here. Small businesses can deal better with the problem."
- 14) "Offshore drilling would be devastating to the place where the offshore facility (drillship) would be. The environment is not friendly for drilling here, not a good spot for a drill ship. It's called the Graveyard of the Atlantic. With more tanker traffic we would eventually have a spill. There wouldn't be anyway to clean this up. Water moving inland would carry a spill toward wetlands, the source of the food chain. A drill ship couldn't hold bottom."
- 15) Jetties: "Hardening of the shoreline steals from one part of the beach and gives to another. It's stopping nature in its tracks."
- 16) "Paving for roads leads to tar runoff. It doesn't breath, it covers the earth and pollutes the waters."
- 17) Sewage problems: "Ocracoke has drain fields and septic systems. With more development it could be a major problem. In places during the summer, when it gets really hot, you know a sewer is handy. We have to use as little water as possible. We can't have the extensive growth that some people want because of where we live."
- 18) More marinas: "Means more emptying of holding tanks, oil and gas spills. They would harden the shoreline and would not work for Ocracoke."
- 19) Overdevelopment: "Would cause all of the above. We have a square mile to grow on. [Development] needs to be in scale."

COMMUNITY: Ocracoke  
 INTERVIEWER: J  
 DATE: 12-16-92  
 RESPONDENT CODE: 011OCR  
 HOME: Ocracoke  
 USE AREAS: Pamlico Sound  
 LENGTH OF RESIDENCE: Lifelong resident, 35 years

ISSUES:

- 1) Land development
- 2) Health care and the rescue squad
- 3) Changing from Hyde to Dare County
- 4) Ocracoke School
- 5) The tourist trade

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
t d e k l i r n g o	"These describe the way Ocracoke is."
x h v b f u s	"Relates to living here all my life."
j a m c w	"What others say to me about why they like it."
p	"I disagree with that. For such a small area there is too much traffic."
q	"This is the least important to me."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	riltfxhmcwvbn				sdekauopqj

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
t a j l r o m e k f h g	"Pertains to people that live here. This is what we do."
p q d	"Windsurfing we do not need here."
b c s n i	"If I were a tourist, this is what I'd say."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	ajlmefrt	kgohpd	nis	bcq	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
i q j x k e t m	"These things are not a priority right now."
a r f g o	"These are not a big problem now but are getting that way."
h d p c l b w u s	"Problems we have right now."
n v	"They are going to happen. Nothing you can do about it."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nv	hdpcclbwus	arfgo	iqjxketm	

**WHY/HOW:**

1) Hurricanes: "They could devastate us. It wouldn't take much."

2) Red tide: "The last red tide wasn't quite so bad in Ocracoke as it was further south. Those watermen (Cedar Island, Harkers Island) had to come up here to survive. Two-thirds of the people on Ocracoke are commercial fishermen."

COMMUNITY: Ocracoke  
 INTERVIEWER: J  
 DATE: 12-17-92  
 RESPONDENT CODE: 012OCR  
 HOME: Ocracoke  
 USE AREAS: Ocracoke Island, beaches  
 LENGTH OF RESIDENCE: Ten months

ISSUES:

- 1) Education
- 2) Economics
- 3) Health Care
- 4) Environment
- 5) Isolation/transportation

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
h i l f t r c b x m w v g n d k u a g	"Why people would want to live in the area."
o s j p	"Not particular reasons people would live here."
e	Unsure of the quality of the sound.

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	angmbwflih	oruxc	qvkd	sjp	e

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
a m e f o g s h d n i k b p	"Recreational activities individuals and groups enjoy."
t l r	"Individual and commercial activities."
j	"Livelihood."
q	"I don't think there is any."
c	"Stands alone."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	pbkindhsgofemacjrl				q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
j h c s n m t e k f	"Primary concerns of people who say it will ruin the place."
d b l u w v o a r	"Harmful, but not as harmful as the first group."
p x g	"Wanted by some, not by others."
q i	"Things that are yet to be answered."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	wurkftesnmjhcxg	loa	dbv	qi	

**WHY/HOW:**

- 1) More tourism: "Will have an economic impact."
- 2) Recycling: "Will be more helpful for the environment."
- 3) Stricter fishing regs: "Could have economic improvement."
- 4) Offshore drilling: "Possibly a real danger to the overall environment, but it could be an economic boon."
- 5) Overdevelopment: "Could strain the environment, natural resources."
- 6) Paving for roads: "Affects natural beauty but increases tourism."
- 7) Unplanned development: "Promulgates what is happening now, with houses stuck on every available piece of land."
- 8) Hurricanes: "Could wipe everything out or create new inlets." Could cause "massive rebuilding and loss of life."

9)Bridges: "A bridge from Hatteras to Ocracoke would change the nature of tourism. There would be more day traffic."

10)Higher taxes: "Long-time residents now are losing property because of high taxes."

11)Chain businesses: "Chains won't build here because of hurricanes."

12)Jetties: "Many feel it would be an environmental disaster."

13)More marinas: "Those locally say the more you develop, the worse it is."

14)Poor management of natural resources: "This is related to it all -- tourism, economics, natural resources."



COMMUNITY: Ocracoke  
 INTERVIEWER:J  
 DATE:12-21-92  
 RESPONDENT CODE: 013OCR  
 HOME: Ocracoke  
 USE AREAS: Silver Lake, Pamlico Sound, Atlantic Ocean  
 LENGTH OF RESIDENCE: 24 years, but was raised on the island as a child.

ISSUES:

- 1) Preservation of land
- 2) Water quality in Pamlico Sound and the "creek" (Silver Lake)
- 3) Drug problems
- 4) Identity as Ocrackers
- 5) Keeping low-profile buildings

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
g q n t	"All are related to the water, or water-related lifestyle
f v c l	"All are about people, family ties."
k s h	"History, architecture and the environment."
o r j w	"All about space."
w m e p	"Seasonal."
b a x	"Shows a sense of community."
d i	"Climate."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	gqntfvclid	baxorjksh	ump		e

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q	"We have no deer."
m e f o g h d i k b p	"All pertain to Ocracoke, the water and wind."
s l n	"It's all educational."
a j r t l	"All relate to commercial fishing activities."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	egfhdbpmltraj	oknsli			q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
m k t p g v h c o i a d s e n x w	"All are related."
b q f	"We don't have these. They are irrelevant."
l j r	"All are controversial and detrimental to us."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	lwne svugt nkhd				cpfajbqriox

**WHY/HOW:**

- 1) Poor management of natural resources: "If you don't do that you've got nothing."
- 2) Hurricane: "This speaks for itself."
- 3) Overfishing: "This is self-explanatory. Without rules and regulations there will be nothing left for later on."
- 4) More marinas: "There are no pump stations being used now."
- 5) Overdevelopment, sewage problems: "Development is now limited by our septic system."
- 6) Higher taxes: "I don't know how much goddam higher they can go."
- 7) Relaxing environmental regs: "This is what has been going on here."
- 8) Construction of bridges: "We don't want a bridge. We've got too many derelicts already."
- 9) Chain businesses: "These would destroy the little guy."
- 10) Red tide: "Another menace."
- 11) More tourists: "We don't need more tourists."

COMMUNITY:Ocracoke  
 INTERVIEWER:J  
 DATE:12-22-92  
 RESPONDENT CODE:014OCR  
 HOME:Ocracoke  
 USE AREAS: The island, the sound and offshore.  
 LENGTH OF RESIDENCE: 11 years

ISSUES:

- 1)Changing counties from Hyde to Dare
- 2)Land Use (CAMA)
- 3)Growth
- 4)Population
- 5)Community Support

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
n o g t l q	"Why people come here. Lifestyle or recreation."
k f d i e r	"The qualities, environmental part. What makes it fragile."
x b j u a w p m c	"This is the quality of life as people perceive it."
h s n	"Historic."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	vintph	firdqgmawcbu	sxkoj		e

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
o h d b p m f g e k a	"Recreational uses or activities."
r t l j	"Commercial activities."
n s i c	"Educational."
q	"Irrelevant."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	ngfmdsholjrtae	bp	cki		q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s f c a x p w l	"Environmental problems."
q r o b t d h e k m g u j i	"Economic, tourist-related problems."
v n	"Natural problems we have the least control over."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nohe	awcftdums	pkqrbjg	ivx	

**WHY/HOW:**

1)Hurricanes: "Self-explanatory."

2)Too many people: "There is only so much room on Ocracoke."

3)overdevelopment: "Same thing. It would kill the natural beauty, kill what people come to Ocracoke for."

4)Construction of bridges: "Same thing. It would devastate the island."

COMMUNITY: Ocracoke  
 INTERVIEWER: J  
 DATE: 12-28-92  
 RESPONDENT CODE: 015OCR  
 HOME: Ocracoke  
 USE AREAS: the beach, Pamlico Sound  
 LENGTH OF RESIDENCE: 5.5 years

ISSUES:

- 1) Health care
- 2) Changing from Hyde to Dare County
- 3) Resource management
- 4) Growth regulation
- 5) The livelihood of commercial fishermen here

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
o i r e	"What Ocracoke is all about."
f l d	"Describe a couple of the positives of the island."
q t n g	"Reasons I want to live here."
k s u a h c w p x j b v	"What the village is all about."
m	"I haven't locked my home or car in 5 1/2 years."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	rfgnxhum	ioedltvbw	jqpck	a	s

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
n c	"Certain people visit national parks to study birds."
a k b i e p s d o h m f g	"Recreational activities."
l r t j	"Ways you could make a living here on the water."
q	"There are no deer on Ocracoke."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	fmoej	dsa	rghkl	ncpibt	q



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s c m w h	"Involved with management or regulations of development. Others passing rules that affect us."
g o e	"Dealing with people. How they impact the island."
p r b f l d u n a	"Outside influences that would affect the status of people on Ocracoke. More in-state control."
k v j x t	"Things I don't think would affect change as much as others. We need to be concerned about these, but they are not likely to change things."
q i	"Won't make any difference at all."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	lop	get	smcadb	wnufk	iqhrxjv

**WHY/HOW:**

1)Stricter fishing regulations, overfishing: "Ocracoke historically is a fishing community. A good portion of the local livelihoods is made from fishing interests. It's a way of life. The community would change without it. It's very important."

2)Too many people: "Our facilities are maxed out now. Unless changes are made in services we will have to control the number of people on the island."

**COMMUNITY:** Ocracoke  
**INTERVIEWER:** j  
**DATE:** 12-29-92  
**RESPONDENT CODE:** 017OCR  
**HOME:** Ocracoke  
**USE AREAS:** Pamlico Sound  
**LENGTH OF RESIDENCE:** 42 years, born and raised on the island.

**ISSUES:**

- 1) Keeping Highway 12 open
- 2) Fishing industry (including water quality, pollution, overfishing and farm runoff)
- 3) Employment
- 4) Beach Erosion
- 5) Overbuilding/high-rise buildings

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
l p d q u	"Seasonal activities."
t h o j c a v i b w m	"These relate to a small, maritime community."
f r k n e g x s	"Natural characteristics."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	tjvacb	rfudhoi	xlgenk	pqwms	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l t e r j	"About commercial fishing."
b a f p o n i h d g s m k c	"Recreational activities in the National Park."
q	"There is no deer hunting on Ocracoke."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l f o a e r j	s m p b i n	c h d g		q k t

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
a f l h t n p	"Threats to us."
d w c m s k	"Not quite as prominent threats."
i u x o g j	"Further down the list."
e v q b r	"Things not here, not going to happen or not going to make a difference."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	lafsmwn	tcugodh	beixkjp	vqr	

**WHY/HOW:**

- 1)Hurricanes: "Tear up buldings, cut the beach into, wash the road out, pop-up septic tanks."
- 2)Poor management of natural resources/Relaxing environmental regulations: "Not keeping up with the laws or doing something about it. The state is working around the problems. It's all political."
- 3)Unplanned development: "A lot of people would build on the shore. It would destroy this community."
- 4)Farm runoff/industrial pollution: "We need to fight Texas Gulf and Weyerhauser."
- 5)Overfishing: "If we don't regulate the trawlers, they will tear things up. If you're catching all the little fish, there ain't going to have big fish."

RESPONDENT CODE:018OCR

HOME:Ocracoke Island

USE AREAS:Beach, Ocracoke village, Atlantic Ocean

LENGTH OF RESIDENCE:15 years

ISSUES:

1)Development/preservation

2)Utilities

3)Septic system problems

4)Keeping Ocracoke School as it is

5)Economy, "in terms of everyone being able to make a good living, including fishermen."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
p m w x b c v a j	"Reasons why I'm here."
u t	"Lifestyle."
s h	"These go together."
n e i f o r	"These have to do with the natural beauty of the environment."
q g l d	"Recreational activities."
k	"Stands by itself."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	nptwbavciumxof	hklgjeq	rs		d

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
g e b p f o d h	"Water-related, recreational activities."
q	"There are no deer on Ocracoke."
r a m j l t	"Fisheries related."
k	"Unrelated."
c	"Stands alone."
s i n	"Relating to national parks."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	olfmsnrjaeg	hdib	ckp		q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
t m r w k s e u n l g c o f a h	"Any of these would change Ocracoke drastically."
d v p q	"These seem secondary."
j i x b	"Off-island stuff not directly related to Ocracoke."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t m r w k s e u n l g c o f a h		d v p q		j i x b

**WHY/HOW:**

- 1)hurricanes: "Could bring anything from complete destruction to moderate damage."
- 2)Offshore oil drilling, industrial pollution, poor management of natural resources, relaxing environmental regulations, construction of jetties: "Industrial development would be totally devastating. Ocracoke as we know it today would cease to exist. Offshore oil drilling would bring all of this with it."
- 3)Overdevelopment, too many people, more tourism, construction of bridges, unplanned development, bringing in chain businesses, more marinas: "this is our own overdevelopment. we are headed in this direction anyway. These changes would be less drastic, more gradual."
- 4)Overfishing, farm runoff: "These would damage and disrupt the fisheries."
- 5)Higher taxes: "Affects the economy. It's already happening. You are going to see less property holdings by the local population -- the destruction of the community."

**COMMUNITY:**Ocracoke  
**INTERVIEWER:**j  
**DATE:**12-30-92  
**RESPONDENT CODE:**019OCR  
**HOME:**Ocracoke  
**USE AREAS:** Beach, Pamlico Sound  
**LENGTH OF RESIDENCE:** 30 years

**ISSUES:**

- 1)Property taxes
- 2)Health care services
- 3)Growth control
- 4)Environmental Protection
- 5)Transportation



PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
a b v c h	"Related to the people, the general feeling of closeness...of community."
d p u m j x	"The relaxing atmosphere of Ocracoke."
r e i k f	"Environmental concerns of the community, and some of Ocracoke's pluses."
l	"We have good seafood because of a good environment."
w	"I left this out."
g n t o q	"Recreational activities tourists come here for."
s	"Also by itself."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	ulfirabvchtn	osqgdek	xmjp	w	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
g f o d	"Beach activities related to the shore."
h e a p	"Boating related activities."
j r t m l	"Related to our seafood industry and personal pleasure."
n s	"Something people driving through the seashore do who want a quick glimpse of the Outer Banks."
i b	"More nature-related activities."
c	"Stands alone."
k	"Something people do for pleasure, but it doesn't necessarily apply here."
q	"Doesn't apply."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	efjrtmlg	nphaos	bd	ki	qc

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
h w u m g o b s	"These are problems Ocracoke is facing right now."
j x p	"Things that should be better enforced."
l v f a c d	"Things that are already damaging the water and the fishing industry. Could cause long-term damage."
n t r k i e	"These would cause a lot of people to move from the island."
q	"I hope Clinton will help solve these problems."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	vlhwumgobeifcsdak	npt	rxj	q	

**WHY/HOW:**

- 1)Sewage problems, industrial pollution, more marinas, red tide, overfishing, farm runoff, offshore oil drilling: "All would have grave impact on our clean waters, fishing and tourist industries, what we depend on."
- 2)Chain businesses/relaxing environmental regulations, landfill overfilling, unplanned development, overdevelopment, poor management of natural resources, more marinas: "These would change the aesthetics of Ocracoke. We would have more pollution."
- 3)Construction of bridges:"Cause overcrowding by tenfold. We'd lose peace of mind, feeling of safety."
- 4)Too many people, more tourism: "would create a lot fo these problems that face. If we control growth it shouldn't affect us."

COMMUNITY:Ocracoke  
 INTERVIEWER:j  
 DATE:12-31-92  
 RESPONDENT CODE:020OCR  
 HOME:Ocracoke  
 USE AREAS:Beach, village, Atlantic Ocean  
 LENGTH OF RESIDENCE:10 years

ISSUES:

- 1)Health Care
- 2)Taxes are too high here
- 3)Our potential association with Dare County

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
a b c d e f g h i j k l m n o p q r s t u v w x	"All these cards go together. They represent Ocracoke."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	mxqgdnlfirhwbsa				jpoeuvckt

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
a t r j s n	"All are fishing or crabbing things. I thought they went together."
c q k i b m d g l f e h o p	"Swimming, boating. I thought these went together."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	rjtoheflgdmi				bknqcasp

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
c g t x n d	"These are most likely to happen."
s r m e k h a l q p	"Not related too much to this island."
f w u j i b v	"These are not related to the island or to the other cards."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	dnxtpgcqlhkv				aoemrsbijuwf

**WHY/HOW:**

- 1) Sewage problems: "Would definitely change things. The sewage systems now are acceptable but not good."
- 2) Hurricane: "Could destroy the island."
- 3) recycling: "It's a problem. We have to haul everything off the island."
- 4) higher taxes: "We've got the highest taxes in the country right now."
- 5) Stricter fishing regulations: "They are too strict right now."
- 6) More tourism: "We definitely need more of that."
- 7) Offshore oil drilling: "We don't need that."
- 8) The Clinton Administration: "Could be good or bad."
- 9) Overfishing: "Trawlers are overfishing already."
- 10) Overdevelopment: "We have as much as we can have."
- 11) Chain businesses: "We don't need that sort of thing here."
- 12) Red tide: "We definitely don't need."

COMMUNITY: Ocracoke

INTERVIEWER: j

DATE: 12-31-92

RESPONDENT CODE: 021OCR

HOME: Ocracoke

USE AREAS: Beach, Pamlico Sound from Ocracoke to Hatteras Inlets, Atlantic Ocean from Cape Point to Ocracoke Inlet out to three miles, Ocracoke and Portsmouth Islands.

LENGTH OF RESIDENCE: 26 years

ISSUES:

- 1) Escalating taxes
- 2) water quality of sounds and the ocean
- 3) Sanitation on the island itself
- 4) Deteriorating shellfish and fish stocks due to water quality from mainland rivers
- 5) Too much government control

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
j q p	"These are false statements."
e	"This is a false statement."
a w b s n h d g r i f l o x m t k c v u	"These all apply to Ocracoke."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q k u v c t m x o l f i r g d h n b w a	j p	s	e	



PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l l f e t p s n	"These are things I do the most of."
m g h k	"Things I do, but less than those above."
b q c a d o r j	"These things I do very seldom or not at all."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	f n s m j r d a	t e o l g	h i	p k b	c q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
r c q b v	"These don't matter one way or another."
j i s m e x p g l	"Issues that will make a difference but are not earth shaking. They won't kill anything."
h k t n d a o f w u	"These are serious problems."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	pemufdth	soa	gxin	qjk	cribv

**WHY/HOW:**

- 1) stricter fishing regulations: "These will hurt the people doing the least damage to the fish, the commercial and recreational fishermen."
- 2) construction of bridges: "Would destroy the uniqueness of this island completely. It would bring in a less desirable visiting population."
- 3) Unplanned development: "That cause all kinds of social and economic problems -- sewage, water, drainage, pollution."
- 4) More marinas: "The more marinas, the more pollution you have, more sewage and oxygen-poor waters."
- 5) poor management of natural resources: "Decreases the resource. Sometimes restricts use of the resource unnecessarily. Does little to improve the resource."
- 6) sewage problems, farm runoff, industrial pollution: "Is one of the major problems of water quality in Eastern North Carolina."
- 7) Higher taxes: "Make it harder for natives to live in the area they were born and raised in."
- 8) Overdevelopment: "Increases a poorer quality of living, pollution and sewage problems, degrades the land and decreases water quality tremendously."

COMMUNITY: Ocracoke  
 INTERVIEWER:j  
 DATE:12-31-92  
 RESPONDENT CODE:022OCR  
 HOME:Ocracoke  
 USE AREAS:Ocracoke Island, beach, Pamlico Sound, Ocracoke village.  
 LENGTH OF RESIDENCE: 26 years  
 ISSUES:

- 1)Growth/development
- 2)Pollution
- 3)Tourism
- 4)Taxes
- 5)Education

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
l i f g	"These things are true. You don't have to be around people to enjoy them."
a v c d h n b	"This is what it's like to live on Ocracoke and to be a part of the village. This is what it's like to be an O'cocker."
k e x r	"These are bull."
q u t o	"These are a part of my job [managing a surf shop]."
w	"Doesn't fit."
s	"The area did have unique architecture. Now it's how much money can you put in a house to make it the most trashy."
p j m	"These are seasonal. This isn't true in the summer."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	fligncv	tuqbhdax	mowsr	jp	ek

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
b a q	"Activities usually don by tourists spending a lot of money doing it. Hard-core sports."
e h m	"I don't usually like these people. Locals usually don't car for these people. They come here, make a mess, then leave."
l t r j	"The way locals make their money."
s i c n	"Activities I don't mind seeing people do on Ocracoke. Observing without destroying."
k o f	"Locals and tourist do these on the beach. Low key, low cost."
d p g	"What locals and tourists do together, but requiring more money."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jrsokgf	tlem	anpdh	ib	cq

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
h d f w u m e c k g t s o a j b	"All these are very detrimental to Ocracoke and the Outer Banks."
q x	"These are the only two positive things in the pile."
n i r	"Things a normal person has no control over."
l p v	"All affect the local's income."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	ostgkeufdh	nwmc	va	pljbr	iqx

**WHY/HOW:**

1)bridges, chain businesses, more marinas, too many people, relaxing environmental regulations, more tourism, sewage problems, industrial pollution, overdevelopment: "[These] will turn a quaint small fishing village into a Virginia Beach, with strip malls, overdevelopment and pollution, totally losing Ocracoke."

2)Higher taxes: "This would change the community by forcing locals to leave because they can't afford it."

COMMUNITY: Ocracoke  
 INTERVIEWER: j  
 DATE: 1-1-92  
 RESPONDENT CODE: 023OCR  
 HOME: Ocracoke  
 USE AREAS: Pamlico Sound, Ocracoke Island, Beach  
 LENGTH OF RESIDENCE: 24 years (born and raised on the island.)

ISSUES:

- 1) Taxes
- 2) Development
- 3) Water pollution/decline of fisheries

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
h s	"The unique architecture is historical."
f a w p j	"This explains the way the village is."
w	"The crime rate is really low."
i r k e	"Explains the environment here."
b	"Most people here are pretty close knit."
v	"Everybody from Ocracoke is kin to one another. Everybody is family."
x o	"Both are true. Explains Ocracoke a lot."
t d u c q n	"Didn't go with anything."
l g	"These go together at times of the year."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	hsafmribvoxtlgucn	jpek d	w	q	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
r j m l t a	"Commercial activities."
k g f o e h d b p	"Recreational activities."
c	"Doesn't fit."
q	"There are no deer on Ocracoke."
s i n	"These are related to the national park."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	tjlr	kam	psinbdheogf		cq

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
v l p	"All affect commercial fishing."
s w	"These two are a big problem."
t q	"Clinton will bring higher taxes. There is no way around it."
f a c	"All have a big impact on fishing."
m j h e u	"Some of our biggest problems here."
k o	"The more businesses the more people you draw in."
g d	"Two big economic problems, one causing the other."
x b	"When the landfills get full, you have to do something."
r	"No reason."
i	"
n	"



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	abcdefghijklmnopstuvw	i	xq		

**WHY/HOW:**

1)unplanned development, landfills getting too full, construction of jetties, paving for roads and parking, bringing in chain businesses, more marinas, too many people, higher taxes, construction of bridges: "[Ocracoke] would be too overcrowded, driving taxes up to where the true island people would have to leave. They couldn't afford to stay. If these were to occur, Ocracoke would probably become like Hilton Head, a place for rich people."

2)Hurricanes: "Could wipe the place out."

3)relaxing environmental regulations, poor management of natural resources: "If they relax the codes it would be a mess. People would build in the marshland."

4)Overdevelopment, more tourism, sewage problems: "More people and more development would increase sewage problems a whole lot. You'd see more pollution problems in the water. You'd see the whole place go downhill big-time."

5)Industrial pollution, offshore oil drilling, overfishing, stricter fishing regulations, red tide, farm runoff: "These would affect commercial fishing for the worst. There wouldn't be no more fishing if it happens. It's already bad enough as it is."

COMMUNITY: Ocracoke  
 INTERVIEWER:j  
 DATE:1-4-93  
 RESPONDENT CODE: 024OCR  
 HOME: Ocracoke  
 USE AREAS: The entire island, primarily the beach.  
 LENGTH OF RESIDENCE: 3.5 years

ISSUES:

- 1)The Dare County/Hyde County issue
- 2)Sanitation
- 3)Quality of Education
- 4)A future land use/zoning plan
- 5)Some type of carrying capacity for the island

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
b p f m i r j e t d n	"These are why I decided to work here, what brought me here."
h v x k a c	"What I've found since I've been here."
u o w s	"These don't mean a lot to me."
q i g	"All are generally true, but not always."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	nmifbt	coaked	jrhxv	qlus	pwg

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
f g o e d n i s c m	"These are the main reasons folks come here. They represent tourism."
j	"Behind tourism, commercial fishing is the largest source of income."
r l t	"These are don more on a recreational basis, to gather food."
a k h	"Things that take place here, but not popular with everybody."
b p q	"These may occur, but not on a frequent basis."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	f i m o c n s	e d g	r l t a j	k h	b p q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
m r l e a c d	"These are the major threats to what is here now. If anything will impact it, it will be these items."
h s w	"The root causes that are going to have a toll on the Outer Banks. Any environmental damage will come from these."
b u o k f i	"Any one is not that bad, but together they will have a major impact on the environment."
t g j v	"I don't think we have any control over these."
p n x q	"These things will help keep things in balance, help protect the environment."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	dasrlec	mhw	kbxpfq		gtuonjv

**WHY/HOW:**

1)offshore drilling: "The threat of oil spills and regular pollution surrounding that industry would have a definite change on what we see on the beach and our scenic vistas. It would change the character of our area."

2)construction of bridges: "The island has a character unlike other communities on the Outer Banks because of the way you access the island. People who come here are more relaxed, they plan more. People who come to Ocracoke think about it a lot longer. From a park service standpoint, visitors to Ocracoke are better educated and more in tune to the environment. They are here to enjoy the full benefits of the park. A bridge would destroy it."

3)overfishing: "Tourism is the number one money maker, falling back on the commercial fishing industry. This is a real threat. It would change the social fabric of the island if the fisheries were depleted to the extent that the islanders couldn't make a living. I think Ocracokers protect their fish stocks. It's a tradition. They have no mechanical harvesting."

4)construction of jetties: "Certainly will have an impact. Economically if you construct jetties at Oregon Inlet you'll have erosion at Pea Island which will undermine the road (Highway 12) and make getting here even more difficult. It opens the door for jetties up and down the Outer Banks. Once you put a jetty there how could you deny one at Ocracoke, Hatteras or Beaufort Inlets? [The Outer Banks] would lose its character, its fluid nature."

5)relaxing environmental regulations: "These are not enforced enough as they should be. We can't afford to take one step back."

6)farm runoff: "This is a major threat people are just beginning to understand."

7)sewage problems: "We've got the water situation under control and now we have to get sewage under control. Two or three major restaurants had to replace their drain fields this year. You can only pump so much of it underground."

COMMUNITY: Ocracoke  
 INTERVIEWER: j  
 DATE: 1-6-93  
 RESPONDENT CODE: 025OCR  
 HOME: Ocracoke  
 USE AREAS: Ocracoke Island, beaches, the sound and ocean, Ocracoke village  
 LENGTH OF RESIDENCE: 19 years

ISSUES:

- 1) building/development
- 2) pollution of the waters
- 3) drug problem
- 4) economic development for the islanders
- 5) tourism (controlling it, promoting some)

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
n s	"These are things a tourist might say about the island."
t f l q r	"Reasons people would enjoy vacationing here. Fun things to do on Ocracoke."
i e k	"Environmental concerns about the island."
b m o a c p j x w	"People enjoy being in a rural environment. These pertain to that."
h v	"The historical nature of the island."
d u	"Because of the climate and seasons. Each one is special to certain people."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	tflqgr	bmoacpjax	hv	duns	kei

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
rltmaj	"These are fishing or seafood related."
bphefgd	"Water related activities."
q	"This has never been done on Ocracoke."
scni	"These are done by people who enjoy the park itself."
ko	"Activities on the beach."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	rltmaj	bphefgd	ko	iscn	q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
d a l c f w b	"Environmental concerns."
n v	"Natural disasters."
s p q t	"Political concerns."
i	"Not a lot around Ocracoke. Not much affect."
x	"This is a separate problem for the environment, but too big to be lumped with the others."
r e k m h o g u j	"Development related."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	tqps	juoghmkcr	xbwfcld	nv	i



**WHY/HOW:**

1)High taxes: "If they go any higher you will see several generations of islanders leave Ocracoke."

2)Clinton Administration: "This will have a big impact depending on how they deal with public lands, especially the budget of the National Park Service."

3)Stricter fishing regulations: "These are needed because fishing is about nonexistent around here. Fishermen barely eke out a living from it. Something needs to be done to help the marine life. In the long run it would help increase landings."

4)Relaxing environmental regulations: "They are relaxed enough as it is. A lot of pollution is going into the sound and creek. If left unchecked, the fish won't be able to be eaten because of the pollution."

#### 4.4.5 Atlantic

##### Free-listing Data

##### **Quality of Place**

air  
air base  
bear  
cattle  
deer  
ducks  
ducks  
geese  
geese  
great blue herons  
loons  
mosquitos  
nesting birds  
pelicans  
rabbits  
robins  
seagulls  
sheep  
shore birds  
squirrel  
terns  
turtles  
Turtles  
wildlife  
Cape Lookout Nat'l Seashore  
Core Banks cottages  
Core Banks shacks  
black drum  
channel bass  
clams  
clams

crabs  
crabs  
croakers  
fish  
flounder  
hog fish  
jumping mullets  
oysters  
oysters  
pompano  
puppy drum  
scallops  
sea mullet  
sea mullets  
shrimp  
spot  
trout  
food resources  
gardens  
geographical isolation  
high ground  
hunting lodges  
natural park  
ocean  
Ocean  
sound  
Core Sound  
Drum Inlet

water  
water  
water  
outer banks  
Core Banks  
beauty  
clean water  
close proximity of sound to ocean

close-knit community  
community unity  
community support  
community school  
family ties  
family values  
food and firewood to bereaved  
freedom (choice) of churches  
good place to teach kids about wildlife  
island cabins  
little development  
live off the land  
mild climate  
minimal freezing  
most needs met in community  
nice place to raise kids  
nice people  
no tourism  
others look out for your kids  
quiet  
quietness  
retirement place  
serene  
slow pace of life  
small community  
sportfishing at Core Banks  
stand-offish people  
stillness  
village setting  
water quality

**Use of environment**

boating  
boating  
camping  
care for it  
commercial hunting  
commercial fishing  
commercial fishing  
diving  
ecreation  
family vacations  
farming  
fish for recreation  
fish for a living  
fishing  
garden  
gardening  
gardens  
hunt  
hunting  
living area  
make living  
men's hunting parties  
military training  
military testing  
most business and personal needs met here  
oystering  
recreational fishing  
shoot deer  
shoot robins  
shoot loons  
shoot great blue herons  
shorebirds  
skiing  
sport fishing  
sport fishing

subsistence fishing  
subsistence fishing  
subsistence hunting  
swimming  
wind surfing  
clamming  
clamming  
commercial fishing  
fish house business  
fishing  
flounder gigging in Core Sound  
hook and line for fun  
live off the water completely  
mulleting  
raise sheep  
recreation in house boat  
retirement  
shrimping  
spin wool  
swimming

**Risk Perception**

"take the water away"  
decline of commercial fishing  
decline in seafood industry  
decline of natural resources  
disappearance of commercial fishing  
freshwater runoff  
govt. appropriating more land for natural parks  
govt. restrictions on land use (National Park Service)  
hurricane  
less jobs at Cherry Point  
less Cherry Point  
less medical services in Sea Level  
more agribusiness activity

more pollution  
more restrictions on fishing  
more people  
new people moving in  
oil drilling  
open Drum Inlet  
overdevelopment  
pumping wastewater downeast  
take away water (for a living)  
too much dredging  
too many marinas  
wastewater from A.B. spread on nearby Open Ground Farms  
wastewater at Open Ground Farms  
water and sewer systems downeast  
"citification" from newcomers wanting to change community  
Both parents working and not giving children needed attention  
Cherry Point cutting back  
community apathy  
declining economy  
decrease in commercial fishing bad for community  
Drum Inlet closing further  
dumping of wastewater in downeast area  
fishermen having to travel longer and work harder to survive  
force fishermen to leave community for work  
fresh water runoff  
further erosion of medical/ emergency service  
further poisoning of the sound from chemical seepage and runoff  
higher taxes  
hundreds of families destroyed by decline of comm. fishing  
improper planning  
less commercial fishing  
little restrictions on Texasgulf and Open Grounds Farm  
loss of heritage  
low military flight tests  
more agribusiness activity  
more erosion  
more restrictions on commercial and recreational fishing

more military testing  
more military testing/training  
more laws and regulations on commercial fishing  
no fishing  
no commercial fishing  
no Cherry Point  
no jobs  
noise  
outsiders trying to change community  
over development  
people forced to sell houses for money  
plundering of fish traps by tourists  
property values too high for locals to buy lot locally  
remove middle school grades from Atlantic school  
scale down Cherry Point  
scale down local school (take middle school out of village)  
sewerage piped to Open Grounds  
take away biggest asset: water  
too much dredging  
too many marinas  
too many unfair regulations on commercial fishermen  
Turtle Excluder Devices  
uneven salinity levels due to runoff



**PILE SORT DATA**

COMMUNITY: Atlantic  
INTERVIEWER: b  
DATE: 12/7/92  
RESPONDENT CODE: 001.atl  
HOME: Atlantic  
USE AREAS: Core Banks/ Sound  
LENGTH OF RESIDENCE: 13 years

**ISSUES:**

- 1) Water Quality
- 2) Wastewater treatment/ Open Grounds Farms & Atlantic Beach
- 3) Encroachment of the military
- 4) Natives' inability to pay soaring property taxes
- 5) Local sewerage problems: alternative to septics?

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
c d n v x ;	what most people think of Atlantic
t ;	main reason why I chose to live here
h i b w o f j ;	secondary reasons why I'm here
a l m e p r ;	things irrelevant to me
g k q s u ;	things that are not true of Atlantic

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	x f t b w j i p n ;	a l r m e h o d ;	c v ;		n s k g q ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
i n e f ;	things I can do
l t r g p o c d m j q k b a h ;	things I cannot do
s ;	I would do if not for my age

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	t r j e q l ;	o f p m ;	a b h g ;	i ;	n k c d s ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
q x p a s w f l u d j h b ;	would create the most dramatic change
n c v k t r e i g m o ;	important change but of less magnitude

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	q x p a s w f l u d j h b m o ;	n c v k t i r e g ;			

WHY/HOW:

- 1) q big positive impact; needed
- 2) x ditto
- 3) p would further hurt commercial fishermen
- 4) a ditto; would destroy us
- 5) s destroy us environmentally
- 6) w ditto
- 7) f ditto
- 8) l ditto
- 9) u would stir up and pollute water with bottom paint, copper and lead
- 10) d causes runoff into sounds
- 11) j ditto
- 12) h no comment
- 13) b no comment
- 14) m Atlantic Beach's problem now
- 15) o ditto

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/7/92  
 RESPONDENT CODE: 002.atl  
 HOME: Atlantic  
 USE AREAS: Core and Pamlico sounds  
 LENGTH OF RESIDENCE: 28 years

ISSUES:

- 1) water quality
- 2) decline of commercial fishing because of overharvesting
- 3) land application; Open Ground Farms & Atlantic Beach
- 4) air pollution (e.g. Weyerhaeuser paper mill)
- 5) property values too high for locals due to [influx of well to do non-natives]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
w m i o n d e r l g p j h t x b ;	the best of Atlantic
a v u s ;	the worst of Atlantic; doesn't apply to me
c k ;	not true of Atlantic
f z ;	true anywhere along the coast

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	fslrgpjhtxbwmio nde;		avc;		quk;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
abcdefghijklmnopqrst ;	these are all uses around here

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jdrgeanbqitlfm ps hok;		c;		

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
waofbdxhlq;	these are the most serious problems
trigmkcuvnepsj;	things we don't need here

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	q l h o d a w n v u t i s ;		x b f p ;		j e c k m g r ;

**WHY/HOW:**

- 1) q postive change; "he's my man"
- 2) l put fishermen out of business
- 3) h serious problem but [unlikely occurrence]
- 4) o ditto
- 5) d causes runoff problems
- 6) a pesticides [runoff into sounds]
- 7) w this will do us all in
- 8) n ditto
- 9) v ditto
- 10) u this would hurt us all
- 11) t ditto
- 12) i ditto
- 13) s ditto

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/7/92  
 RESPONDENT CODE: 003.atl  
 HOME: Atlantic  
 USE AREAS: Core sound/banks, Atlantic & Sea Level  
 LENGTH OF RESIDENCE: entire life

ISSUES:

- 1) [unsuitability of commercial fishermen's traditional methods] in modern times; reduce overfishing
- 2) the enforcement of existing [environmental regulations] to prevent overdevelopment in [ecologically] sensitive areas
- 3) need for [young] to get better education for [occupational alternatives to commercial fishing]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
v a i o m w t u n ;	most true of Atlantic
s h b f x j p l d c e g ;	fairly true of Atlantic
r ;	little truth regarding Atlantic
q k ;	least true of Atlantic

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v a i o m w t u n ;	s h b f x j p l d c e g ;		r	q k

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
j r l f e q o t ;	what people here do most
i g d n b p a h m s ;	done here but not as much
c k ;	least common activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j r l f e q o t ;		i g d n b p a h m s ;		c k ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s h n a d v o t l u m ;	create the most change
q g w f c k j i e p ;	less drastic change
x b ;	small effect on Atlantic
r	littlest effect here



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	s h n a d v o t l u m ;	q g w f c k j i e p ;		x b ;	r ;

**WHY/HOW:**

- 1) s would bring about more building and pollution
- 2) h ditto
- 3) n this kills people
- 4) a effects water quality and marine life
- 5) d ditto
- 6) v bad for marine life except clams
- 7) o brings on pollution
- 8) t locals will have to move away
- 9) l this kills commercial fishing
- 10) u bad for oil pollution
- 11) m destroys marshland nursery areas

RESPONDENT CODE: 004.atl  
 HOME: Atlantic  
 USE AREAS: Atlantic, Portsmouth Island  
 LENGTH OF RESIDENCE: 36 years

ISSUES:

- 1) water quality
- 2) runoff from Open Grounds Farm into estuaries
- 3) pollution
- 4) overregulation of commercial fishing industry
- 5) imported seafood causing prices to fall

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
ajigxnbcvthomdlfw;	good description of Atlantic
ekup;	relatively true of Atlantic
rsq;	immaterial to this area

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	ajigxnbcvthomhd lfw;		ekup;		rsq;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l j r t ;	commercial fishing
e o f q s p h m c k ;	recreational activities
b d n i a g ;	rare activities in Atlantic

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l j e r t ;		e o f q s p h m c k ;		b d n i a g ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
n v ;	nature; can't control
t d a r ;	serious problems
x b k g s w f h e o m i u ;	problems
p i j ;	things that are no big deal
c q ;	things we do not need

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	y t d a r ;		n v x b k g s w f h e o m l u ;	p i j c q ;	

**WHY/HOW:**

1) t no comment

2) d bad for fishing and therefore netmaking

3) a ditto

4) r would help; inlets accessible to ocean

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/9/92  
 RESPONDENT CODE: 005.atl  
 HOME: Atlantic  
 USE AREAS: all of Core Sound, especially around old Drum Inlet  
 LENGTH OF RESIDENCE: all life

ISSUES:

- 1) Turtle Excluder Devices: putting everyone out of business
- 2) flounder regulations; under 13 inches must be thrown back in; dead anyway, wasted instead of used to feed hungry
- 3) pound nets in wrong places, hogging beach
- 4) leasing public bottom for clam hatcheries for private profit

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
r b x d f e l u t i c a g v j h p n ;	accurate description of Atlantic
w q ;	fairly accurate
k ;	people are somewhat aware
s m o ;	not the case here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	r b x d f e l u t i c a g v j h p n ;	w q ;	k ;		s m o ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
c i f m t r l j ;	popular activities
p o s q ;	less popular activities here
e h a d g ;	not done that much around here
n b k ;	not popular here

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	c i f m t r l j ;	p o s q ;	e h a d g ;		n b k ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s f c q o d l w x n a p g t r v u i ;	would create the most dramatic change
k e j m b h ;	would cause less dramatic change

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	s f c q o d l w x n a p g t r v u i ;		k e j m b h ;		

**WHY/HOW:**

- 1) s could be good or bad, depending on what [policymakers] do; enforce present laws instead of slapping new ones on us
- 2) f no comment
- 3) c too much uncertainty; don't know how much damage with a spill - what will it destroy?
- 4) q no comment
- 5) o no comment
- 6) d no comment
- 7) l no comment
- 8) w we need better enforcement of existing laws
- 9) x good concept but not if they recycle and sell product inferior to one made from scratch
- 10) n wipe everything out
- 11) a no comment
- 12) p this would destroy us
- 13) g this would bring more hollaring against commercial fishermen
- 14) t no comment
- 15) r positive change if old Drum Inlet stabilized for better access
- 16) v no comment
- 17) u means more tourists
- 18) i good and bad: more jobs but take over more land and water in long run

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/28/92  
 RESPONDENT CODE: 006.atl  
 HOME: Atlantic  
 USE AREAS: The Cape (Lookout)  
 LENGTH OF RESIDENCE: 3 years

ISSUES:

- 1) water quality
- 2) decline of commercial fishermen
- 3) health of fisheries resources
- 4) preservation of natural habitat

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
v w c l h k t f n i o u ;	most important qualities of this area
x d b a r g ;	qualities less central to area
e m s q j p ;	qualities that don't apply here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v w c l h k t f n i o u ;	x d b a r g ;			e m s q j d ;



PILE SORTS: USES	
PILE ITEMS	EXPLANATION
rtljcmaenos;	what people do here most
bqihfpkdg;	not common downeast activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	rtljcmaenos;		bqihfpkdg;		

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
olhmbfwapctvniq;	worst stuff, big negative change
eju;	things I could live with; could possibly help
dxskrg;	could be positive if something is done about it

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	o l h m b f w a p c t v n i q ;	d x s k r g ;		e j u ;	

**WHY/HOW:**

- 1) o brings on sewer problems, runoff, decline in water quality
- 2) l no resources left; kill fishermen and bad for economy
- 3) h brings on sewer problems, runoff, decline in water quality
- 4) m need good planning in sensitive area
- 5) b landfill is full as it is
- 6) f puts poisons in the water
- 7) w need better management
- 8) a closes water areas; would devastate area - the fish, water, and soil
- 9) p would put everyone out of business
- 10) c look at the Exxon-Valdez disaster! HBO movie
- 11) t people here can't pay too high a tax
- 12) v natural disaster
- 13) i causes big area restrictions
- 14) q big environmental administration; too many regulations

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/29/92  
 RESPONDENT CODE: 007.atl  
 HOME: Atlantic

USE AREAS: Core and Pamlico Sounds between Atlantic and Englehart; sometimes SC but rarely south of Nelson Bay  
 LENGTH OF RESIDENCE: 19 years

ISSUES:

- 1) Open Grounds Farm as wastewater dump for Atlantic Beach
- 2) Attempt of private interest to lease clam bed bottom on Core Banks - taking public bottom for private profit
- 3) Proposal to take middle school grades out of Atlantic school and turning Smyrna into middle school - decline in education, sacrifice to save county money

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
p j m o c w b e i f n t d x a g ;	qualities important to me
l r k ;	dingbatter [non-local/tourist] values
v h ;	qualities true everywhere
q u ;	not relevant here
s ;	not true

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	u v h l r k a x g d f t n i e b w c o m j p ;				s q ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l t e a m r f j ;	things I do
k q ;	not necessarily a coastal activity
p b d i o s h n c g ;	popular coastal activities but not for me

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	q j f r e l t o ;			n ;	k m a g c h s d b p i ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
x ;	won't make much of a difference
r c q ;	could be good
s k g e j u o h l m b w a n v t i f ;	all would hurt the area
p ;	needed to help fishermen, not to hurt them; need to enforce present regulations instead of imposing more useless regulations
d ;	the worst problem

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	d ;	s k g e j u o h l m b w a n v t i f ;	r c q ;		x ;

**WHY/HOW:**

- 1) like Atlantic Beach overdeveloped and can't handle their waste; waste runoff hurts water quality and marine life, hurts fishermen and economy

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/29/92  
 RESPONDENT CODE: 008.atl  
 HOME: Atlantic  
 USE AREAS: sound side of Core Banks  
 LENGTH OF RESIDENCE: born and raised - 40 years

ISSUES:

- 1) Open Grounds using Atlantic Beach wastewater
- 2) Atlantic middle school taken away and sent to Smyrna
- 3) Clam lease on Core Banks

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
v h l r m c a b w e i n g t f d x ;	reasons important to me as to why I live here
s o j p q u k ;	reasons not so important to me

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v h l r m c a b w e i n g t f d x ;	s p j k q u o ;			

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
l r t j ;	commercial fishermen activities
f o e ;	we do this for fun
q ;	activity here but not water-related
n h c g a k m i s p b d ;	outsider's activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	r t j f o e q l ;	n h c g a k m i s p b d ;			

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
c e i k u j d v n o t m s l h k f b w g a ;	all bad change
q x p r ;	could be good

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	ce kujdvnotmislh kfbwga;		qxpr;		

**WHY/HOW:**

- 1) c oil spill devastating
- 2) e don't need more
- 3) i flight patterns right over here, take your roof off
- 4) k chains in Morehead not impressive



COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/28/92  
 RESPONDENT CODE: 009.atl  
 HOME: Atlantic  
 USE AREAS: Core and Pamlico Sounds  
 LENGTH OF RESIDENCE: 2 years

ISSUES:

- 1) Open Grounds Farm applying Atlantic Beach's wastewater
- 2) TEDS posing terrible expense, hardship to fishermen

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
v h l m t f d x j o a n g e b i ;	very true of Atlantic
p c r k ;	true and not true, depending on the situation
s u q w ;	not so true of Atlantic; not rural agric. community

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v h l m t f d x j o a n g e b i ;		p c r k ;		s u q w ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
c n ;	secondary importance to Atlantic
p f e l r t j s ;	of primary importance to Atlantic
m q h g k i b d o ;	almost non-existent here
a	of primary importance to me and my family

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	p f e l r t j s ;		c n ;		m q h g k i b d o a ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
c i s v n t r x w f d m b g a p ;	would have the greatest impact
u j e o ;	would have secondary effects
k l h ;	doesn't matter much either way
q ;	an unknown

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c i s v n t r x w f d m b g a p ;	u j e o ;	q ;		k i l ;

**WHY/HOW:**

- 1) c would be a boost to the economy
- 2) i no comment
- 3) s would virtually kill us
- 4) v ditto
- 5) n ditto
- 6) t ditto
- 7) r something we need
- 8) x ditto
- 9) w no comment
- 10) f could be terrible if not handled well
- 11) d ditto
- 12) m could be tragic
- 13) b need better way to treat trash
- 14) g could be good
- 15) a could be bad on water quality from pesticide runoff
- 16) p no comment

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/29/92  
 RESPONDENT CODE: 010.atl  
 HOME: Atlantic  
 USE AREAS: Core Banks inside and outside, Key West to Canada  
 LENGTH OF RESIDENCE: 63 years

ISSUES:

- 1) Overregulation of commercial fishing forcing people out of work
- 2) The need for and dependency on Cherry Point for employment
- 3) Young forced to leave area for work, education
- 4) Breaking of tradition: watermen and "proggers"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
v h l m t f d p x j u o c a w b i n g ;	very true qualities of Atlantic
r s k q e ;	not so true

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v h l m t f d p x j u o c a w b i n g ;			r s k q e ;	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
n a m p f e l r t j q ;	all good activities for here
h c g k i s b d o ;	not done so much here

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	n a m p f e l r t j q ;			h c g k i s b d o ;	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s u j d v n o t l h f b g a q p ;	negative change for Atlantic
i e c m k w x r ;	could be good if done right

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	s u j d v n o t l h f b g a q p c m w r ;		i e k x ;		

**WHY/HOW:**

- 1) s need to protect primary nursery areas
- 2) u don't need, environment can't handle it
- 3) j ditto
- 4) d need county-wide facilities
- 5) v damaging although blown out of proportion
- 6) n could wipe us out
- 7) o would over-stress environment
- 8) t foolish gov't spending
- 9) l but commercial fishermen get blamed for scarcities
- 10) h need better facilities to handle growth
- 11) f water quality would decline
- 12) b we need an incinerator
- 13) g need facilities like county-wide sewer system
- 14) a chemicals bad for water quality
- 15) q remains to be seen
- 16) p commer. fishermen need to have more input on this
- 17) c good for economy and sportfishing, although risk is there
- 18) m don't have adequate facilities
- 19) w contributes to bad water quality, scarcities of fish
- 20) r positive for access to ocean by bigger boats

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/28/92  
 RESPONDENT CODE: 011.atl  
 HOME: Atlantic  
 USE AREAS: Core Sound, Atlantic waters north and south  
 LENGTH OF RESIDENCE: life - 35 years

ISSUES:

- 1) Need for Drum Inlet to be dredged and stabilized
- 2) overregulation of fishing industry
- 3) depressed local economy

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
n b e l t d r e v g ;	characteristics of Atlantic
x j a w m p ;	somewhat true of Atlantic
k i o f u q ;	not very true of Atlantic
s h ;	characteristics least important to me

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	n b e l t d r e v g ;	x j a w m p ;	k i o f u s n q ;		

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
efjrl;	popular activities here now
mos;	touristy activities
pdbighnt;	marginal activities now
kacq;	not done right here

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	efjrl;	mos;	pdbighnt;		kacq;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
hmdocafswgk;	big negative impact
ulvnxbrpejitq;	things that wouldn't make a great impact or could be postive



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	h m d o c a f s w g k r ;		u l v n x b p e j i t q ;		

**WHY/HOW:**

- 1) h this leads to runoff and decline of water quality
- 2) m ditto
- 3) d ditto
- 4) o ditto
- 5) c we need much more study on the impacts of a spill
- 6) a decline of water quality
- 7) f ditto
- 8) s this would have a negative impact in an already strained ecosystem
- 9) w ditto
- 10) g we need better water and sewer systems to support this
- 11) k no comment

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/29/82  
 RESPONDENT CODE: 012.atl  
 HOME: Atlantic  
 USE AREAS: Core Banks, Core Sound  
 LENGTH OF RESIDENCE: 50 years

ISSUES:

- 1) Dredging and stabilization of Drum Inlet
- 2) Decline of commercial fishing as a viable livelihood
- 3) Overregulation of commercial fishing industry

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
f h o i j x p e u v t b m w a r d n l g c ;	describes Atlantic to a tee
k s ;	more or less true of Atlantic
q	not here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	f h o i j x p e u v t b m w a r d n l g c ;		k s ;		q ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
ckdgb;	activities not too common here
qatnh;	very few people do these
ipsomlrjfe;	things I do

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	ipsomlrjfe;			ckdgb;	qatnh;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
nvlubpejthdoafgkwcm s;	things we definitely don't need
xriq;	things I would like to happen; a postive change

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	nvlubpejthdoafg kwcmr;	xriq;			

**WHY/HOW:**

- 1) n a natural disaster
- 2) v ditto
- 3) l depletes resources
- 4) u don't need anymore
- 5) b we have an inconvenient convience center which takes it to Newport landfill
- 6) p need to enforce the ones we have
- 7) e don't need anymore unless it helps ferry traffic
- 8) j no comment
- 9) g tourists don't contribute to community, they buy property and cause taxes to rise so locals can't afford to live here
- 10) t locals can't afford to pay taxes for land being bought up by wealthy outsiders
- 11) h bad for resources
- 12) d ditto
- 13) o ditto
- 14) a ditto
- 15) f ditto
- 16) k not enough people here to support chain businesses
- 17) w need the best management
- 18) c bad for fishing if spill occurs
- 19) m ruins everything
- 20) s we need to keep and enforce present regulations
- 21) r boon to area for closer access to ocean, flush out sound with ocean water to restore resources

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/29/92  
 RESPONDENT CODE: 013.atl  
 HOME: Atlantic  
 USE AREAS: Core Sound and Core Banks  
 LENGTH OF RESIDENCE: 4 years

ISSUES:

- 1) economy: no work locally
- 2) Open Grounds Farm applying Atlantic Beach's wastewater
- 3) TEDS regulations hurting fishermen
- 4) water quality

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
tlv uepxjiohfbm wadnc;	locals' favorites
grqks;	"dingbatter" qualities

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	grtlv uepxjiohfb m wadnc;				ksq;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
ckqtiolrje;	Core Sounders spend time at these
sbdganhpmf;	not done here much

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	ckqtiolrje;			sbdganhpmf;	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
fbmwlvaodh;	negative change
kscirxup;	could be positive
jtengq;	unpredictable; could go either way

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	fbmwlvaodhkscir xup;			qgnetj;	

WHY/HOW:

- 1) f upstate industries dump on us; we get byproducts, they get profit
- 2) b no comment
- 3) m need more zoning, now mobile homes stuck anywhere, hurts property values
- 4) w need better management like Virginia
- 5) l we'd get fished out
- 6) v destroyed the oysters here
- 7) a causes decline in water quality
- 8) d ditto
- 9) h runoff killing shrimp in sounds
- 10) o enhances sportsfishermen/ commercial fishermen conflict
- 11) k no comment
- 12) s no comment
- 13) c would be good for the economy I think...
- 14) i no comment
- 15) r no comment
- 16) x no comment
- 17) u no comment
- 18) p no comment

COMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/30/92  
 RESPONDENT CODE: 014.atl  
 HOME: Downeast  
 USE AREAS: Core Sound, Atlantic Ocean from Wilmington to Hatteras  
 LENGTH OF RESIDENCE: all life

ISSUES:

- 1) water quality and sewer treatment problems
- 2) decline of commercial fishing
- 3) scarcity of seafood [resources]
- 4) too many recreational fishermen selling their catch
- 5) overfishing

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
g e n t i l v c m a ;	why I live here
x k p o h f ;	other very true characteristics of Atlantic
b d j q r s u w ;	good description of this area in general



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	gentilvcmaxkpo fmcbdjqrsw;				

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
tmjelr;	most common uses here
oafshpgd;	fairly common uses
nckqib;	less common uses

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	tmjelr;	oafshpgd;	nckqib;		

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
s d r q g j ;	if done right could be good
a n t p c k f m l v a h o ;	worst changes
e u x i b w ;	less destructive, could be okay

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	d r q g j ;	a n t p c k f s m l v h o ;	e u x i b w ;		

**WHY/HOW:**

- 1) a destroys marine resources
- 2) n natural disaster could wipe everything out
- 3) t need less waste in gov't spending
- 4) p many are not effective regulations but bad regulations
- 5) c don't need it; could hurt tourism business of county
- 6) k hurts the independent/family businesses; no local taxes paid, profits leave the area
- 7) f detrimental to the environment
- 8) m ditto
- 9) l ditto
- 10) v no comment
- 11) h puts stress on environment
- 12) o ditto

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/30/92  
 RESPONDENT CODE: 015.atl  
 HOME: Atlantic  
 USE AREAS: Core Sound; here to Cape Hatteras  
 LENGTH OF RESIDENCE: 16 years

ISSUES:

- 1) TEDS/FEDS hurting fishermen
- 2) lack of support for fishermen by "higher ups: Marine fisheries policymakers and fish dealers"
- 3) Price fixing by fish dealers; not paying fishermen enough and profiting off fishermen's hard work
- 4) tourism/sportsmen triving at expense of fishermen and giving fishermen bad rap

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
q x o f l i n d ;	natural features
b w c a h p j v m u ;	community features
s r k t g e ;	negative or untrue aspects of life here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q x o f l i n d b w c a h p j v m u r k t g e ;				s

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
a m k b i ;	I don't do much of this
n e o d q g p h s f ;	my family's recreational activities
c t j l r ;	working stuff, livehihood activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a m b i f e o d q g p h s f c t j l r ;			k	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
x k s j e ;	good things that could help us
v n ;	natural phenomena
u b w p d h o a f m l c ;	negative aspects of change
q i t ;	political stuff
g r ;	won't make much of a change

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w p f d a h o l c k s n v q ;				u b m r g x r j e i t ;

**WHY/HOW:**

- 1) w fishing families would go down the tubes
- 2) p ditto
- 3) f decline in water quality and natural resources
- 4) d Open Grounds runoff from Atlantic Beach waste would kill us with water quality decline
- 5) a ditto
- 6) h some development needed but not too much like Atlantic beach
- 7) o ditto
- 8) l hurts fishing families
- 9) c oil might be good for jobs but not likely; company would probably import laborers and not give us a chance
- 10) k some would be good for bringing in more jobs to locals
- 11) s would have a big effect
- 12) n ditto
- 13) v ditto
- 14) q a big change

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/30/92  
 RESPONDENT CODE: 016.atl  
 HOME: Atlantic  
 USE AREAS: Core Banks  
 LENGTH OF RESIDENCE: 13 years

ISSUES:

- 1) Need for more manufacturing businesses in county to provide jobs
- 2) Need for improved, county-wide water and sewer systems
- 3) County [commissioners, etc] needs to recognize "Downeast" [east of Beaufort] as part of county; tend to its needs

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
k a ;	does not describe Atlantic
l s q r ;	unrelated to why I live here
w c x o f i n d b h p j v m u t g e ;	describes Atlantic

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w c x o f i n d b h p j v m u t g e l ;				k a s q r ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
k ;	this makes no difference; irrelevant
p d g q h s f o e n i m a ;	tourist activities
b t r l j ;	livelihood activities
c ;	general education

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	p d g q h s f o e n i m a b t r l j c ;				k ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
w d f l h n v p m t o ;	negative change
e j a i q u ;	already exists; would make little difference
x s g k r c ;	positive change
b ;	I don't know anything about this

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w d f l h n v p m t o x s g k r c ;		b		e j a i q u ;

**WHY/HOW:**

- 1) w destroys resources
- 2) d runoff destroys water quality
- 3) f ditto
- 4) l destroys resources and livelihood
- 5) h brings on pollution
- 6) n very detrimental if one hits here
- 7) v ditto
- 8) p makes it impossible to make a living fishing
- 9) m destroys resources
- 10) t makes it difficult for locals to live here
- 11) o brings on all sorts of pollution and problems
- 12) x might cut down on roadside trash
- 13) s relax unreasonable regulations so fishermen can live
- 14) g good for economy and my business
- 15) k good for economy
- 16) r provides needed access to ocean here
- 17) c good for economy; provides jobs



COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/30/92  
 RESPONDENT CODE: 017.atl  
 HOME: Atlantic  
 USE AREAS: Atlantic Beach and Core Sound  
 LENGTH OF RESIDENCE: 10 years

ISSUES:

- 1) need for higher level personnel in EMS; rescue squad has no paramedic
- 2) proposed cut-backs on local elementary teachers and services because of no employment down here
- 3) decline of commercial fishing; young leave area for work so fewer children in local school
- 4) need for better waste treatment, garbage and trash disposal

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
w c x o f i n d b p j v m u t g e l r a ;	why I love it here
h ;	semi-true of Atlantic
s q k ;	not true of Atlantic

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w x o f i n d b p j v m u t g e l r a ;		h ;		s q k ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
a m i e s p ;	things I love to do
j l r t n h q k ;	I could do these
c b o f g d ;	things I don't do

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	a m i e s p l r t n h q k b o f g d c j ;				

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
f c q n p m h t o v ;	negative things
e g w i s u l k ;	mildly negative or things with both good and bad aspects
a r j d x b ;	things we need to make better

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f c q n p m h t o v ;	e g w i s u l k a r j d x b ;			

**WHY/HOW:**

- 1) f destroys the air
- 2) c people see pollution in this, not jobs
- 3) q will bring higher taxes and interest rates
- 4) n can wipe everything out
- 5) p this is killing fishermen today
- 6) m too much development is bad
- 7) t need higher wages to pay higher taxes which we won't get
- 8) h too much of this is bad
- 9) o brings on more pollution and crime
- 10) v one reason why fishing is devastated now

**COMMUNITY:** Atlantic  
**INTERVIEWER:** b  
**DATE:** 12/31/92  
**RESPONDENT CODE:** 018.atl  
**HOME:** Atlantic  
**USE AREAS:** Core Sound, Core Banks  
**LENGTH OF RESIDENCE:** 50 years

**ISSUES:**

- 1) Proposal to take middle school grades out of Atlantic elementary school to Smyrna school
- 2) Overregulation of commercial fishing: killing only source of employment here
- 3) TEDS: an unnecessary regulation designed to destroy fishing
- 4) overfishing
- 5) need for Drum Inlet to be dredged and stabilized

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
i f o w x b d c n j ;	describes the way of life here
e t k q r g u ;	recreational activities
v s a h ;	historical aspects
l ;	eating
m p ;	public safety

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	ifowxbdcnjetkqr guvsahlmp;				

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
jlr t;	occupational activities
e m a;	macho sports
s i k q;	hobbies
h d g;	sports which take skill; an "art"
f b o p;	"dingbatter" sports
n c;	doesn't fit anywhere

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jlrtemasikqhdgfb op;				cn;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
o u k g d a f n m h s ;	devastating
b x t p w i r e l j ;	doesn't effect us much
c ;	devastating if accident occurs; good for sportfishing
v ;	harmful but uncontrollable; we've had one in 50 years
q ;	we have to wait and see

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	o u k g d a f n m h s ;	c v ;		b x t p w i r e l j q ;	

**WHY/HOW:**

- 1) o no comment
- 2) u pollutes; puts oil in the water
- 3) k money goes out of area
- 4) g brings about more trash
- 5) d need a county wide system
- 6) a water quality declines, creeks surrounding Open Grounds dead
- 7) f pollution, devastating to water quality
- 8) n devastating
- 9) m look at Atlantic Beach
- 10) h ditto
- 11) s too many now; good ones not enforced

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 12/31/92  
 RESPONDENT CODE: 019.atl  
 HOME: Atlantic  
 USE AREAS: Core Banks  
 LENGTH OF RESIDENCE: 32 years

ISSUES:

- 1) Economy: lack of jobs forces young to leave the area
- 2) Proposal to take middle school grades from local school to Smyrna school
- 3) need for youth recreation: dances, theaters, hamburger hangouts
- 4) no health insurance for most fishing families: too expensive

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
d c l n v a t r g u b x j i o f w e k ;	qualities most important to me
m q p ;	qualities of secondary importance to me
s h ;	qualities of least importance to me

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	d c l n v a t r g u b x j i o f w e m q p k s h ;				

<b>PILE SORTS: USES</b>	
<b>PILE ITEMS</b>	<b>EXPLANATION</b>
j l r t d g h p k f o e q c ;	priority activities for my family
i s n b m a ;	not so important to us

<b>SCALED PILES: USES</b>					
<b>PILE</b>	1	2	3	4	5
<b>ITEMS</b>	j l r t d g h p k f o e q c i s n b m a ;				

<b>PILE SORTS: SOURCES OF CHANGE</b>	
<b>PILE ITEMS</b>	<b>EXPLANATION</b>
r c k g u e j x s ;	positive change; things we need
w d a v b n l p t ;	negative threats
m h o i q f ;	least danger, no immediate threat



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w d a v b n l p t r c ;	k g u e j x s ;			m h o i q f ;

**WHY/HOW:**

- 1) w hurts fishermen
- 2) d could lead to poor water quality and hurt fishermen: Open Grounds Farms
- 3) a ditto
- 4) v natural disaster
- 5) b too much garbage and expense with system we have now
- 6) n natural disaster
- 7) l this could hurt the economy
- 8) p ditto
- 9) t locals can't keep family homes because of higher taxes like what happened in Beaufort
- 10) r could improve sound fisheries and access to ocean
- 11) c could provide badly needed jobs to local people

COMMUNITY: Atlantic  
 INTERVIEWER: b  
 DATE: 1/6/93  
 RESPONDENT CODE: 020.atl  
 HOME: Atlantic  
 USE AREAS: Outer Banks  
 LENGTH OF RESIDENCE: 22 years

ISSUES:

- 1) decline of commercial fishing in Atlantic
- 2) lack of occupational alternatives for people of Atlantic
- 3) TEDS imposed by NMFS without just cause to cripple fishermen

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
q r x k j p o d f m s ;	good reasons to live here; why it's a nice place to live
g e u t n l i ;	reasons commercial fishermen can live here
h c b a w v ;	people qualities; nice people live here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q r x k j p o d f m s g e u t n l i h c b a w v ;				

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
d b j r l t m a p h g f e ;	stuff you do on the water
n i q s c ;	nature-related activities, not necessarily on the water
k o ;	beach activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	o e f g h p a m t l r j b c s q i n ;				k d ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
l g f n p o v t ;	definitely bad change
i e j s w x k ;	will make no difference around here
q m ;	unknown; can't say
b d h a c u r ;	would make a moderate change

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t v o p n f g l ;	b d h a c u r ;		q m ;	i e j s w x k ;

**WHY/HOW:**

- 1) t because people can't afford to pay anymore
- 2) v this would wipe out everyone and cause a drop in the economy
- 3) o new people are outsiders with money who buy up land and cause taxes to rise so locals can't afford to live here
- 4) p fishermen have a harder time making money
- 5) n could destroy the whole community
- 6) f this destroys water quality
- 7) g tourism makes it harder to make a living because so many object to what commercial fishermen do
- 8) l if no more fish people here would suffer because they don't know anything else except fishing

4.4.6 Beaufort

Free-listing data

**Quality of Place**

"everything from the coast to the gulf"

ocean

ocean

ocean

ocean

ocean

ocean

oceans

sound

sound

sounds

sounds

sounds

deep water

water

water

water

salt water (ocean/sound)

salt marshes

salt marshes

wetlands

wetlands

marshes

marshes

marshes

estuaries

pocosins

beaches

beaches

beaches

beaches  
coastal beaches  
ocean beaches  
rivers  
rivers  
rivers  
Taylors Creek  
fresh water (rivers)  
newport river  
fish  
fish  
fishes  
fishes  
fishes  
fishes  
crowns (fish)  
flounder (fish)  
drum (fish)  
big game fish  
king mackerel  
menhaden (fish)  
roe mullets (fish)  
tuna  
wahoo  
dolphin (mahi-mahi)  
other fish  
seafood  
birds  
birds  
birds  
birds  
birds  
birds  
black skimmers  
black backed, laughing, and burning ring billed gulls  
royal, least, sandwich, and foresters turns  
brown pelicans

osprey  
other birds  
ducks  
piping plovers  
perigrine, merlin, and kestrel falcons  
marsh, sharp skinned, and coopers hawks  
dolphins  
dolphins (bottle nosed)  
dolphins  
bottle-nosed dolphins  
outer banks  
outer banks  
barrier islands  
Bird Shoals  
radio island  
Cape Lookout  
carrot island  
Carrot Island  
shackelford banks  
Shackelford Banks  
uninhabited islands  
islands  
parks  
Rachel Carson Sanctuary  
protected natural forest  
protected areas (e.g.,national seashore)  
bird sanctuaries  
ponies (feral)  
ponies (feral)  
feral ponies  
feral ponies  
wild ponies  
sea turtles (5 species, including leatherback and loggerhead)  
sea turtles  
sea mammals  
sea turtles  
loggerhead turtles (an endangered species)

whales  
whales  
humpback, sperm, and pilot whales  
wildlife  
wildlife  
wildlife  
woods  
trees  
maritime forests  
sand dunes  
dunes  
island waterways  
natural channels  
large spaces (undeveloped land)  
scenery  
deer  
wind (for sailing)  
camping areas

wrecks (attraction to divers)  
boats  
"more birds than I've ever seen anywhere else"  
a lot of birds  
abundant wildlife  
diverse wildlife  
basically unspoiled  
beautiful scenery  
can just enjoy looking around because it is so pretty  
clean air  
clean air  
clean air  
clean air  
blue skies  
relatively pristine  
blue water  
good water quality  
pretty clean water



water quality  
river not too polluted (doesn't smell bad) (polluted compared to past, but when conditions are right, you can still clam)  
clean town  
low pollution  
clean, unscortched beaches  
open beaches  
town well taken care of  
climate  
gentle climate  
good climate  
great climate (except the humidity)  
mild weather  
critical environmental issues  
endangered species consciousness  
environmental issues are prominent  
focus on overfishing  
local politics are fun  
participation of residents/"can make a difference" attitude  
resource use conflicts exist (e.g., sport v. commercial fishing)  
worried about marine pollution  
the environment here is a wonderful research lab  
local v. non-local cliques  
food prices too high  
gas prices too high  
good boating  
good diving  
good surf  
good sailing  
good fishing  
great fishing  
sometimes good fishing  
can get a meal off the land  
historic houses/beautiful architecture  
historic  
historic awareness  
historical integrity  
history of town reflected in architecture

history of town reflected in lifestyle  
people have strong ties to the area  
people proud of their heritage  
preservation instinct of community history  
tradition of boys doing what their fathers did (e.g., being a fisherman)  
unique architecture  
black chief of police does a good job  
can safely run errands on a bicycle  
safeness of town  
good place to have a family  
police protection makes people feel safe  
different than other places, "always like coming home"  
people are great  
nice people  
pretty girls  
know people  
sense of community  
sense of independence  
social informalities  
relaxed atmosphere (socially/culturally)  
welcoming town ("until you disturb the tax base")  
southern hospitality  
small town  
small town  
size of community (small)  
small communities  
rural area  
rural areas  
welcoming town ("until you disturb the tax base")  
not overcrowded (compared to other towns/cities)  
not congested  
little congestion  
relatively little car traffic  
population, though growing, is not overwhelming (death ratio replaced by new people, "no big population change")  
orientation to water  
proximity to ocean  
proximity to water

water activities accessible  
easy water access  
line off sea islands  
scenic  
scenic surroundings  
variety of surroundings  
"it's a little paradise"  
seasons change  
not noisy (quiet)

#### **Use of the Environment**

recreation  
for recreation  
adventure  
ambiance  
beach walking  
beaches attract tourists for sun bathing, walking, shelling  
big rock fishing  
bird watching  
bird watching  
bird watching  
board surfing  
body surfing  
camping  
canoeing  
clamming  
diving  
diving  
diving  
diving  
dune bugging  
education  
educational purposes (e.g., elder hostel, environmental groups, Duke and NOAA marine labs, youth education)  
to enjoy the bounty of the sea  
fishing (sport) (food gathering for fun/culture/family)

fishing (sport/recreational)  
fishing for fun (sport fishing)  
fishing  
fishing (sport)  
trolling (fishing)  
gregory pool fish  
flying (sight seeing)  
hiking  
hunting ducks  
hunting deer  
hunting bear  
hunting deer  
hunting quails  
hunting ducks  
king and spanish mackerel  
kite flying  
looking around (sight seeing)  
marlin tournaments  
motor boating  
motor boating  
outdoor entertainment  
outdoors (recreation)  
photography  
pleasure boating (chartering, sailing, motoring, stopover/jumping off point to caribbean/virgin islands)  
pleasure fishing  
pleasure boating  
power boating  
recreation  
research  
running  
sailing  
sailing  
sailing regattas  
sailing  
sailing  
sailing  
searching the marshes for oysters

shelling (collecting sea shells)  
sight seeing  
sight seeing  
sight seeing ("people come from all over")  
sightseeing  
spear fishing  
sport fishing  
sport fishing  
sports fishing  
stargazing  
sun bathing  
sun bathing  
sunning  
surfing  
surfing  
surfing  
swimming  
swimming  
swimming  
swimming  
swimming  
swimming  
touring  
tourism  
turtle watching  
used to hunt goose, but not any more (closed by law)  
walking (exercising/sight seeing)  
walking  
watching bottle-nosed dolphins  
water skiing  
water activities in general  
water skiing  
waterfront used to attract tourists to small shops  
commercial use of environment  
"everyone is tied to the sea."  
blue fishing  
clamming

clamming  
commercial fishing  
commercial fishing  
commercial fishing  
crabbing  
crabbing  
employment (research, fishing)  
farming  
fishing for food (subsistence fishing)  
fishing to make money (commercial fishing)  
scalloping  
shell fishing  
shrimping  
shrimping  
shrimping  
to make a living commercial fishing  
fishing for fin fish  
fishing (commercial)  
fishing for menhaden  
flounder fishing  
menhaden fishery  
menhaden fishing  
menhaden fishing  
menhaden fishery business (commercial fishing)  
mulleting  
other commercial fishing  
oysters  
people work in it (fish, do research)  
puppy drums (in gulf)  
hunting for food  
movie companies coming in for scenic background  
research  
important part of economy  
tourists come to see it  
waterways are transportation routes to state port (e.g., for military, texas gulf, weyerhauser)  
waterways are transportation routes to islands, beaches, and other towns  
transportation of goods to the port

littering  
dumping trash  
dumping sewage  
tide flushes this area twice a day and keeps water clean  
"show it off to visitors" (sight seeing)  
adventure  
ambiance  
beach walking  
beach bumming  
bird watching  
bird watching  
bird watching  
boating  
boating  
camping  
canoeing  
diving  
diving  
educating tourists  
educating youths  
education  
education  
employment  
enjoyment: fishing for speckled trout  
experiencing/understanding the environment for writing (research)  
field trips  
fish for mackerel  
fish for blues  
fish for menhaden (commercial fish)  
fish for speckled trout (recreationally fish)  
fish for flounder  
fishing (sport/recreational)  
fishing for drums  
fishing for mackerel, blues, dolphin (mahimahi) tuna, and sailfish  
fishing  
fishing (for fun)  
have a great appreciation for the view (sight seeing)

hiking  
keep/protect what we have always had: a beautiful area  
keeping property clean and natural  
locating/verifying artifacts  
make a living commercial fishing (primarily menhaden)  
outdoor entertainment  
outdoors  
photographing  
pleasure fishing  
pleasure boating  
pony watching  
power boating  
preserving what we have  
recycling to protect environment  
research  
research  
retirement ("enjoy the surroundings")  
sailing  
sailing  
spear fishing  
sunning  
surfing  
swim  
swimming  
swimming  
take kids out into water and woods (pass on/teach fishing and hunting)  
touring  
used to hunt  
walking

#### **Risk Perception**

air pollution  
anoxia  
beach traffic (tire ruts inhibit the movement of turtle hatchlings to sea)  
beach erosion



building condos  
building in area (development)  
building development  
development of any kind  
overdevelopment  
land developers  
changed regulations of diving (tell people not to bring up stuff)  
changed regulations on fishing  
changing the inlets (opening or closing them)  
degradation of water quality (through pollution and other means)  
degradation of habitat  
destruction of marine life from pollution  
doing away with the draw bridge and putting in a highrise bridge  
effluent/sewer problems  
effluent/sewage discharges  
shipping sewage to open farms  
hypoxia  
impacted hydrology  
eutrophication  
changed water table  
seawater rise (globally/locally)  
fish diseases  
shellfish diseases  
hurricane  
hurricanes  
hurricanes (physical damage to area)  
hurricanes  
hurricanes (releasing toxins into environment)  
hurricanes  
storms  
lights on the beaches (affects nesting of sea turtles and maybe birds)  
low flights of military (startle effect on nesting birds and possibly other wildlife)  
military actions  
military target ranges/airspace create noise pollution/destruction  
military bombing practices and other activities  
military actions  
jets flying low creates noise pollution affects wildlife/dangerous accident possibilities

practice/accidental bombings affects surroundings  
gas/oil pollution  
large spills (from state port or maritime accidents)  
off shore drilling for oil  
off shore oil development  
mobil oil/off shore drilling  
oil spills  
small fuel spills (from filling boats everyday)  
plastic debris (from trash and loading things at port)  
polluting estuaries (closing them to clamming)  
polluting water (emissions and effluent  
pollution (water and air)  
pollution in waters  
pollution  
fish-processing byproducts (pollution)  
sound pollution ("military worst polluters")  
strain on the wetlands  
sulphur nitrate spills  
texas gulf  
texas gulf port terminal  
trash  
trash pollution from navy ships  
trash on land and in water  
trash dumping  
water pollution  
weyerhouser (timber cutting and pollution)  
wood pulp pollution  
people moving here  
population influx  
population growth  
shear weight of numbers (population influx)  
tourism  
influx of people moving to area  
uncontrolled population growth  
unplanned population growth  
waterways crowded with boats  
over fishing

obliteration of marine life from overfishing  
overfishing  
resource overutilization  
paving (changes drainage patters, effects ecology)  
impervious surfaces (e.g., pavement)  
mis-management by politicians (of resources and development)  
no fishing zones  
red tide ("spooked the public")  
poor air quality  
re-routing of roads  
relaxation of historic preservation standards  
relaxation of environmental preservation standards  
the Clinton Administration  
wasting water  
air pollution  
anything that happens to change the local environment  
anything that hurt tourism  
bad hurricane would do physical and economic damage  
bad politics (small communities are now the last to get state funding, attention)  
completion of I-40 to Willmington which allows people to easily bypass this area  
continue the problem of not having skilled people to work in technical industries  
damaged fishing industry ("about 1/5 of the people depend on it")  
damaging the environment which draws economically-important tourism to the area  
development (building that infringes on natural space)  
dirtying the white sandy beaches  
DOT injecting their opinions into local affairs  
downside of expanding post-secondary education (may be high job turnover, expense to business, loss of town history in growth)  
high rise bridge which could damage historic district  
higher taxes  
ignorant sport fishermen  
improvements of roads outside of area (e.g. I-40) that route tourists around and not through area  
increased development because of improved water/sewer systems  
influx of "well-to-do" driving out locals  
influx of retirement community (different interests/not focused on school bond referendums, etc.)  
large, new, commercial building (damage historic integrity of town)  
larger freeway that brings in more population  
less communication between communities

less environmental consciousness  
local politicians using a bandaid instead of fixing problems (e.g., growth, high taxes)  
locals getting the brunt of higher taxes  
loss of large business/industry (e.g., Atlantic Veneer)  
loss of military (large contributor to area economy)  
loss of people coming to see beauty and learn about area (loss of tourism)  
maritime accidents  
military aviation fuel spills  
new bridge over gallants channel  
no enforcement of environmental codes  
no action on fisheries management  
no improved public education  
no management of growth period (population growth)  
no zoning improvements  
no centralized wastewater treatment facilities  
no planning for growth  
no water reclamation  
no action for conservation  
no action for preservation  
no mass local transportation  
not being able to buy or build a home (prohibitive costs)  
oil or fuel spills  
people who want to change the place  
people moving here because they like the lack of restriction, then trying to restrict the locals  
poor use of military funds (e.g., \$41 project--museum--funds could be put to better use)  
population influx  
price of real estate  
price of realestate increasing  
re-evaluations of property in county (raises taxes)  
re-routing of I-70 around area  
relaxing historic preservation standards  
restricted funding for/among communities  
running the locals out  
running the fisheries out of business  
slowed growth (may lead to more depressed regional economy)  
status quo fishing techniques  
sulphur nitrate spills

the Clinton Administration or other politicians making laws that hurt fishermen  
too many people perpetuating jobs instead of focusing of problems  
too much useless education and not practical stuff  
trashing the environment would hurt area economy  
uncontrolled population growth  
unfair taxes  
water pollution (would damage economy)  
wood pulp pollution

**PILE SORT DATA**

**COMMUNITY:** Beaufort

**INTERVIEWER:**Liesl Schernthanner

**DATE:**12/15/92

**RESPONDENT CODE:** 001BEA

**HOME:** Carteret County, live on the Newport River, work in Beaufort

**USE AREAS:**water, ocean, sound, river, marshes, islands

**LENGTH OF RESIDENCE:** "all my life" [-35 years]

**ISSUES:**

1)"waste disposal--sewage: will affect environmental productivity of the land and water"

2)"environmental cleanup: runoff from farms, pollution from cities is affecting shellfish in rivers and sounds"

3)"fishery regulations or laws: there are a lot of commercial fishermen or watermen by trade and when something happens--red tide, rain period, or regulations--they have to turn to welfare and social services. For example, TEDs [Turtle Excluder Devices] just makes their [fishermen's] costs higher, they don't see it as helping the turtles; they don't see any benefit."

4)"trash: the beaches are dirty with bottles and cans mainly from government boats. The Navy pollution is the worst; they dump everything overboard."

5)"this goes with the environmental issues above because it is a potential source of pollution, but the threat of new industries like oil is an issue here"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
S U T ;	"water-related and seasonal lifestyle are one in the same. [This pile] also has to do with the people that came from other areas [in the 1700's] for the water-related lifestyle--they could live off the water and the land--and the architecture reflects where they came from."
O E R I D ;	"relates to the quality of the environment"
N Q G L ;	[relates to proximity of water] "living close to the ocean and sounds leads to these other things"
P F J X W M ;	"describes the area: rural, has natural beauty, etc."
B A H V C K ;	"has to do with people that live here and how they affect the environment" [the type of people that live here will effect how the environment is affected.]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	H F N L D U ;	C V A B X O I S ;	K W M Q R T ;	P E ;	J G ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
G M D H E A ;	"draws for tourism in the area: reasons people/tourists travel here"
F P B O ;	"also reasons-draws for tourism, but a lot of locals do these things too"
J L T J ;	"commercial fishing activities"
S N I C ;	"these are all educational, even if they are recreational, for example, people bird watching learn about birds"
Q ;	"local people do this"
K ;	"activity that happens here, but not really a draw for tourists"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	J L A E ;	T R N S M ;	C H G O B P F ;	Q I D ;	K ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
A X P F W I K T Q H S C M ;	"things that can be managed or humanly controlled, for example, by government or political action"
L U O D B G ;	"these are because of the growing dynamics of people and tourism" [more people in the area will result in these things]
V N ;	"Mother Nature's profound changes she could make"
J E R ;	"these things can also be affected by political decisions, but these are physical structures that could change the area"



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	N F C S H I A D M ;	W R E J T B L ;	P G O V ;	;	Q K U X ;

**WHY/HOW:**

1) all of these "most likely" things are happening or are threatening to happen even now.

N: "would wipe us out"

F: "affects tourism and commercial fishing. It damages the economy. Texas gulf and Weyerhouser are the biggest industrial polluters now."

C: "would devastate everything. It conflicts with tourism and threatens to spoil the area."

S: "would be detrimental to commercial and recreational fishing. Maybe there will be more enforcement of existing regulations with the Clinton Administration."

H: "this spoils a lot of why people come here. Overdevelopment is ongoing on the beaches."

I: "can have a profound effect on quality of life, both good and bad. They are good for economy, but low flights and other activities are disturbing and possibly dangerous."

A: "affects the fisheries, the nurseries [marshes and estuaries], and is a real problem"

D: "What's going to happen to our fresh water if land application is used? What about the beaches if it's offshore [ocean outfall]? Communities are being divided on this issue."

M: "this is the bull in the china shop. There is a delicate balance here and upsetting it creates more of the problems above."

COMMUNITY: Beaufort  
INTERVIEWER:Liesl Schernthanner  
DATE:12/16/92  
RESPONDENT CODE: 004BEA  
HOME: Beaufort  
USE AREAS: Taylor's Creek, Rachel Carson Sanctuary, Carrot Island, the Waterfront, beach  
LENGTH OF RESIDENCE:22 years

ISSUES:

- 1)"the decision on Commission of accepting North River Waterworks" This is an opportunity that won't come again, water bills are already high, and it could supplement the town of Beaufort. The county Commissioners are looking at this very cautiously because there may be problems in the long range, but it is a gift if they want it.
- 2)"There should be more of a united effort to promote and control tourism." Apparently the commissioners don't believe in tourism as the most powerful economic force, but the respondent thinks it is the "lifeblood" of the area. "We don't have a lot of big industry... it's become a bedroom community," A lot of new people have moved here too and "99.5 % of the new comers have brought in talent."
- 3)"the thoroughfare plan." The plan for a new bridge from Beaufort to Morehead. "how will it [a new bridge] tie into or bypass town?"
- 4)possible annexation of outlying areas into the town of Beaufort, for example, Lennoxville road, highway 101, highway 70 east to Shell landing. "Study to look at annexation in the future. Population hasn't grown that much... so we need to plan for this." [Annexation would raise the tax base].
- 5)"extension of the airport has been discussed"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
S V H ;	"all have to do with historical qualities of the town"
X O ;	"you'll find peace and quiet in the open spaces and by getting away from people."
E G L ;	"the quality of the ocean and sounds will influence the quality of the fishing, and subsequently the seafood."
I R F K Q ;	"describe the qualities that exist because the environment is taken care of"
D N ;	"doesn't really fit any where else--the climate is nice here, most of the time."
J B M C A W P U T ;	"all have to do with the non-city-like atmosphere of the community"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	N S H V X I R F L C ;	A T O E K G B M ;	J W P D U ;	Q ;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
T M J R L A Q ;	"all forms of fishing or gathering food for income or subsistence"
D G O F K ;	"things that are commonly done at the beach"
B ;	"done on the wrecks" [getting more popular all the time]
H P E ;	[recreational activities that involve going out in boats]
C N I S ;	"can learn from all these things"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	O T J R L A H E S ;	W P F C N I ;	D G K B Q ;	;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
J I P Q G R X	"positive changes"
T V L A N U H F D W B M S ;	"all bad things"
C O K E ;	"undecided on; not sure about these effects"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	O T V L A U H F W N M S ;	K P I J D ;	C E G ;	R ;	X Q B ;

**WHY/HOW:**

- 1) O H: over population and over development could be planned for and avoided, but without careful planning they are disastrous
- 2) T: primarily will cause the older population problems, makes for more discontent in the community
- 3) V: scares people and is bad for the fishing industry
- 4) L: negatively affects tourism and fishing industry
- 5) A F: damages water quality
- 6) U: because of the pollution they cause (wastes) more marinas are bad
- 7) W N M: "would be disastrous" for the community
- 8) S: could be relaxed a very small amount to help natives survive in the area, but it is such a delicate balance that one must be careful. "There is a delicate relationship between natives and non-natives, and we try to create a balance"

COMMUNITY: Beaufort  
INTERVIEWER:Liesl Schemthanner  
DATE:12/11/92  
RESPONDENT CODE: 008BEA  
HOME: Beaufort Township  
USE AREAS: water from Taylors Creek to Outer Banks to the Gulf for work and rec.  
LENGTH OF RESIDENCE:15 years

ISSUES:

1)"Disposal of treated wastewater": as it relates to water quality and relates to fishery. Fishing landings are relatively good records because they have been kept accurately for a long time and "they indicate that some landings have declined, some have stayed the same, but the effort per unit catch has gone up. There are new ways of catching fish now. The economic return is less and there is less resource." Part of this is because of declining water quality.

2)"economic base--jobs": how to provide jobs has become a major issue in the community. The mean family income for Carteret Co. is "between \$14-\$17 thousand. People who make more than \$75,000 are in the 99th percentile." "Lifestyles are depressed and there is a weak base for good-paying jobs." "Port activities is a hot issues that goes along with the economic base. Some see it as a source of jobs, others say its and environmental blight."

3)"uncontrolled development...zoning": getting zoning to control development is a big issue. West of Beaufort is weakly zoned, but it is easy to get variances. Need zoning to protect environment as well as town.

4)"storm-water runoff is a continuing issue of concern" The primary cause for this being a problem is "from making surfaces impervious"--paving, etc. This also related to water quality and thus affects the fishery.

5)"the education system": general education is poor here. "With CAT scores, North Carolina ranks 50th out of 50 States... [Poor education relates to the depressed lifestyles and poor economic base of the region]... Potential clean industries don't come here because of [the low] skill base"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
U H S ;	"don't make any sense--not really true to the area"
L G E Q N R T F D ;	relate to "the notion of natural beauty."
W O X I P H M ;	"has to do with the fact that there aren't a lot of people"
B C V A K ;	"speaks to one's fantasy of what people are like here. [It's true that] people are different here though: people wave in cars, catch eyes on the street, people stop by unannounced... but this more describes rural America [than this community specifically]."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	J M P I X O W L G E N R T F D B C ;	;	V A K ;	H S Q U ;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
L T R ;	"commercial fishing"
Q K N I A S O B H P G M F E D ;	"outdoor recreation of all types...all types do it."
C ;	"educational purposes stands alone"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	Q J L T R D E F M P H O S A I N ;	C ;	;	K G B ;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
I H G T C ;	"economic-related changes"
X E U R A D J ;	"infrastructural things" [which depend largely on the regulators or government controllers]
Q ;	"don't know what it will do... no administration is so pervasive that it will affect this county." [will cause little or no change to this community]
B F K ;	"[these items] don't compute for this area... they're not very relevant to this area, for example, there is no land fill here after this year."
V L N ;	"environmental disasters and natural disasters"
P W M O S ;	"regulation of one sort or another that--controls, or [these things are just] related to control or lack of it" [things that are or could be regulated by humans]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	L P W H G V N D O M ;	;	A T C I S ;	U J F K B E X ;	Q R ;



**WHY/HOW:**

1) All the number 1's are negative impacts the how/why for each is explained below:

L: "depletes the resource"

P: "eliminates jobs, reduces the number of fishermen... I predict that 90% of commercial fishermen will be gone in the next five years, but subsistence fishing will continue... [With respect to "inside fishing"], net fishing is indiscriminate [and] needs to be eliminated because it is the hatching area."

W: [the fishery example is proof of what can happen with poorly managed habitat resources. There are a lot of habitat resources: wetlands, pocosin forests, maritime forests, that need good management because they affect other element and resources of nature, such as the fishery.]

H: "this is a great concern...need zoning"

G: "significant portion of the economy, but not contributing to the infrastructure of the impact... For example, the occupancy tax goes to promoting more tourism [instead of fixing the roads that all the tourists' cars help destroy]."

V: "this is increasing globally...don't know exactly what causes it, but it is associated with urbanization of the coastline...it really whacked the oyster and scallop industry [when it happened in 87] although there are indications that the scallops were already going down when it happened."

N: "we've been lucky so far, but that just increases the probability that we will have one...it would affect the local people, but not like in Charleston." [It would cause physical damage and force people to rebuild, but because of small population, a hurricane would be less devastating here than in some of the more urban areas.]

D: "this is the number one water quality problem"

O M: "also affect water quality"

2) The respondent also had comments on things that could change the community, but were less likely to change the community than the above items:

C: "offshore oil drilling would have very little impact on this community, but where it goes ashore, it will have a big impact."

S: "they are already relaxed"

I: [the military is good and bad: good for economy, bad for quality of life in the area. In addition, the respondent said that the military has the highest rate of death in the county, quite often they are competing for females: lovetress killings].

3) The items that scaled #4 {UJFKBEX}, the respondent said "are not going to happen" or won't affect this community. For example landfills filling up wont affect this community because it will be someone else's problem--there are no landfills here in Carteret County (the only one is closing this year).

**COMMUNITY:** Beaufort  
**INTERVIEWER:** Liesl Schemthanner  
**DATE:** 12/3/92  
**RESPONDENT CODE:** 009BEA  
**HOME:** Beaufort Township  
**USE AREAS:** Emerald Isle, Harkers Island, the Beach, boating in the Sound  
**LENGTH OF RESIDENCE:** 7 years permanent, but visited here for years prior to moving

**ISSUES:**

- 1) "the environment: keeping it clean" [Maintaining the quality of the beaches, water, marshes, because if it gets dirty and ugly, tourists won't come here, and then the area will die.]
- 2) "economic issues: increasing tourism, increasing manufacturing" [increasing the number of jobs and the economic base]
- 3) "the level of regulation of the commercial fishing industry" [whether to increase or decrease regulation is a "big issue" in the community]
- 4) "a county-wide water/sewer system" [relates to Atlantic Beach's sewer problem, but eventually the whole county will need a better system, so the solution has to be something we can all tie into]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
U O E I K ;	"environmental values or qualities that are important to business relocation [to this area]"
V A C B N T D P J X W M ;	"reasons to live here... things that attract retirees"
L H S F G R Q ;	"thing that tourists do"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	R F H O U I W V M X ;	L T S N ;	Q G E B C A ;	K ;	D P J ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
N S I ;	"passive-tourism types of things"
E H A C ;	"water-related tourism things ... often done by the older tourists"
K P M O F B G D ;	"water-related tourism things ... often done more by the younger tourists"
Q R J L T ;	"important to the livelihood of the people who live here"

SCALED PILES: USES					
PILE	1*	2	3	4	5
ITEMS	A B C D E F G H I J K L M N O P Q R S T ;	;	;	;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
N V ;	"natural disasters... would change the community for the worse."
W S L I ;	"environmental-management types of issues that can change the community... people-related changes" [changes that are caused from human decision-making on how to manage the environment]
D A B F ;	"man-made types of changes which are results of peoples actions"
G P X Q ;	"positive effects" [things that could positively effect the community]"
U T K M H C R J E O ;	"government development decisions that could be disastrous" [community growth- and development-related changes that can be affected by local government actions"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	J W S L F A D B ;	E R C H U M O G P ;	X N V I ;	T ;	Q K ;

**WHY/HOW:**

1) The items which are most likely to change the community are described below:

J: [this could help manage the number of people coming into the community better]

W S: "these would destroy the uniqueness of the area that makes it attractive to tourists and residents" [anything that affected the level and quality of tourism in the area would be a bad thing for the community]

L: "this would greatly reduce tourism" [because a lot of people come here to fish, and if the resource was not there because of overfishing or poor management, recreational/sport fishers wouldn't come to the area, and they are an important tourism component]

F A D: "the worst things that could happen for tourism and residents" [because they are forms of pollution that damage the environment]

B: "this would be very expensive and would have an impact on taxes" [This would be a bad thing because taxes are already increasing beyond what some people can handle, and the existing receipts are needed in other infrastructural improvements. Sighting new landfills is expensive and can be avoided for a long time if people don't throw so much away and recycle]

COMMUNITY: Beaufort  
 INTERVIEWER: Liesl Schemthanner  
 DATE: 12/7/92  
 RESPONDENT CODE: 010BEA  
 HOME: Beaufort  
 USE AREAS: From Ocracoke Inlet to Swansboro Inlet "all the coastal areas."  
 LENGTH OF RESIDENCE: 16 years (came here temporarily in '76, full time in '79)

ISSUES:

- 1) "development of the tourism and travel industry"
- 2) "development of beach access...opening up beach access to the public" [Opening up Radio Island as a public beach would promote tourism and improve quality of life for the residents]
- 3) "preservation of the environment. If it is developed, people won't come here." [tourist and residents come for the natural beauty of the area, so it should be preserved]
- 4) "declining fisheries" [fisheries are declining--they have been "trickling down" for years--and regulation needs to be increased so that the resource lasts for both the commercial and sport fishermen]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
J O P W ;	"attractions to moving here for me in '76, but these things have changed [these things are not so true anymore...it is "not good" that they have changed]"
U L Q ;	"I don't agree with these items... they are all relative issues" [It depends where you are coming from, but for me these things aren't true compared to other areas I've been]
G ;	"this is true statement, but it's a sideline thing--also a relative statement"
E D F N T I R ;	"these things are relating to the ocean and living and working here"
X M A B C V S H ;	"these things relate to the town as it is now"
K ;	"a true statement"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	G N T I E ;	R K F V C B S H X ;	W P O J D A M ;	U ;	Q L ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
N C ;	"both educational and informative things"
B D G P H K S O I F E ;	"[activities that involve] using natural resources, but not taking anything from them"
R J Q A M T L ;	"[activities that involve] taking things--natural resources--from the land or water"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	O S ;	E N C ;	F H A ;	I K P G D M B ;	R J Q T L ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
J K H T U E ;	"physical construction...development-related activity. The more development, the more of these things you'll see"
N V ;	"natural disasters" [red tide could be population related and is bad for tourism and fishing, and a hurricane could be good or bad depending on how you look at it. It could wipe the condos off the beach and force people to be smarter about the environment--good things--but it could cause a lot of physical damage that would be expensive and painful to overcome--bad things.]
W S M ;	"bad changes because of lack of planning"
R C ;	[things that are restricted from happening right now, but could happen in the future] "offshore oil drilling, if allowed, would be bad" [beach hardening, if allowed, could be a good thing]
P L ;	"fishing-related changes...fishermen look too short term and need stricter regulations"
G O B D X ;	"population-related changes that could be good or bad...things that will result from overdevelopment and dealing with these [population and development-related] problems, for example the necessity for recycling"
I ;	"good and bad...increasing base size would help economy by increasing the amount of disposable income in the area, but their maneuvers and activity is bad, if increased, for the environment."
Q ;	"depends...may change things, may not."
F A ;	"problems or pollution items that need restrictions"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	V N ;	L P B R H O G ;	M S W T U K C I E ;	J A F D X ;	Q ;

**WHY/HOW:**

1) V N: the respondent thought that natural disasters would be most likely to cause "major negative effects" and change the community, and "you can't do anything about it." [However, the respondent thought that some good may come out of a hurricane in that it would force people to be more aware of the forces of nature and the fragility of the environment.]

2) L P G R H O G: The items the respondent listed and second most likely to change the community were considered as "not necessarily devastating effects. These things could be overcome." Of these, P and R were considered causing potentially good changes

3) Of the third most likely group, the respondent considered:

M S W : "moderate to negative end"

T: "people will live with"

U K C I E: "better changes for the area" [in particular, the respondent noted that the military can have a positive effect on the economy]

4) Of the fourth group,

J A F: were considered negative, but with the "least effect, because we don't have much of these"

D X: related to taking care of the environment and "trying to solve problems"

5) Q: considered least likely of all to change this community.



COMMUNITY: Beaufort

INTERVIEWER:Liesl Schemthanner

DATE:12/8/92

RESPONDENT CODE: 011BEA

HOME: Beaufort

USE AREAS: for boating, fishing, waterskiing, being outside use the water, shackelford banks, Emerald Isle, Cape Lookout, sand bars (party on), and beaches

LENGTH OF RESIDENCE: 3 years as resident; vacationed here while growing up (25)

ISSUES:

1) "an important issue is whether or not the County Commissioners will allow the city to continue to grow...they shouldn't try to stop growth, rather they should guide it" ... "compared to [and different than] Ocracoke most businesses [here] want it to grow. They [the commissioners] want to decrease taxes and that doesn't necessarily help the community," [for example the sidewalks and sewer lines on the 200-300 blocks of Front Street needed repair, but they only repaired the sidewalks because it "made it look pretty" and was too expensive, i.e., would have had to raise taxes, to do the sewerlines, but it will only cost more later]

2)"an important issue is for young people to get involved in the area. Most active community members are older, for example the Historical Association, but more younger people are moving here now, for example there are a lot of young people in the Business and Professional Association."

3) "need economy improved: need more tourism and industry to increase employment... for example, Blue Bell [clothing industry] used to be here ... we need industries like that--things that don't pollute and damage tourism."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
Q X T N G L ;	"things that I would enjoy doing if I had more free time"
H S ;	"history and architecture: the time period in history made the architecture"
V A B C ;	"[this pile] describes the community" ... "people definitely have family ties here"
U ;	"a lot of people come here for summer" "people like it because it has seasonal weather"
J O P W I R E F K M D ;	"reasons people move to the area... things that make it really attractive" "For example, the low crime rate, low taxes--even though some people complain they are high, they're pretty low--and mild temperatures are prime reasons people move here." "The area attracts people who like to hunt and fish--outdoorsmen...People are living here for the way of life."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	C B A V T N G L S F H ;	Q X D K P O J I R E M ;	U W ;	;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
A L T R J ;	"ways people live off the land"
N S ;	"what tourists do when they come here"
K B G D H P E F O ;	"activities that locals and tourists can do at the beach or surround area... sounds like a fun weekend"
I ;	"bird watching, although popular--there are more birds in Carteret County than in any other county in North Carolina--it isn't too prevalent"
M Q ;	"things my boyfriend enjoys doing"
C ;	"educational purposes describes itself" [stands alone]

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	E O I M B H S J A L T R ;	F Q K G D P N ;	C ;	;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
A D T C V N O H B M S F P W L ;	"things that could hurt our area"
J U E G X Q ;	"things that could help area or economy or show progression"
R ;	"[construction of jetties is] not a problem here... this is more a problem up around Nags Head"
I ;	"only affects port" [because that is where the military ships its personnel and supplies in and out of. For example the port was very busy during Desert Storm]
K ;	"bringing in chain businesses won't affect the area"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	G ;	H P L M E J O N V Q C D ;	S W F B X U T A ;	K I ;	R ;

**WHY/HOW:**

1) G: The most likely thing to change the community is more tourism, which would be "good" because it would mean "more money for the area"

2) Of the second group, the following was commented on:

H: "overdevelopment won't happen in Beaufort, but if it did, it would change the town negatively...there is no zoning east of beaufort, so overdevelopment may be a problem out there"

V L: "anything to do with fishing will change the way a lot of people make a living. Overfishing shouldn't become a problem because it is so plentiful. ... [If the fishing industry was further damaged,] maybe crime rate would go up, etc, because people would be out of work."

3)Of the third group, the following was commented on:

F: "don't have much industrial pollution, but it would affect us negatively if we did"

COMMUNITY: Beaufort  
 INTERVIEWER:Liesl Schemthanner  
 DATE:12/10/92  
 RESPONDENT CODE: 012BEA

HOME: Work and spend most time in Beaufort, but live in Atlantic Beach. Consider "community from Bogue Banks to Beaufort, but will try to focus on Beaufort in interview.  
 USE AREAS: water, power boating, fishing, Shackelford Banks, Cape Lookout  
 LENGTH OF RESIDENCE: 3 years as a permanent resident, (lived in New Bern before that and was born in Charlotte, so visited Beaufort many times before moving. Moved here because of work.)

ISSUES:

- 1) "education in Carteret County need work... look at East Carteret High: it's well respected, but on the whole, it needs better facilities, more teachers, etc."
- 2)"county-wide sewer system. Downtown Beaufort doesn't specifically have this problem, but something has to happen in the next 5 years... if it rains, people cant flush their commodes... Atlantic Beach was mandated to get a system... but there is a paradox between the system and the environment as well as not having a system and the environment."
- 3)"lack of sound, planned, healthy economic growth...there is a slowdown or halt of community development because the [local government] is interested in lowering taxes and lowering spending ... [which is leading to a] degradation of infrastructure, sidewalks, cleanliness, and sound community development." [However,] "I don't want to see industrial growth and break-neck residential growth because it is important to preserve some of the natural resource areas that exists here." ... "We need something with better paying jobs other than the service industry--which is typically low paying--...the lack of fish, volatility of the red tide--demand of seafood has been down for 2 years--and competition has driven commercial fishing out of existence...commercial fishing is gone [and other industries such as Blue Bell and Owens Coming Fiberglass have left] and new industry won't come in, for example levi strauss, because it is too expensive and there is no adequate water or sewer systems. The sad irony is that there is no way for manufacturing industry to come in with higher paying jobs, so there is nothing for the displaced fishermen."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
S U H ;	"not pertinent to things that make me happy in this area; not things that make Beaufort an attractive place"
T G L N D Q K ;	"fringe benefits of living in Beaufort, Carteret County. These aren't real critical, but they're nice"... "can find most of these in any town in North Carolina, outside of the metros." [regarding card 'K'"people are environmentally aware"]: "I don't really think this is true as a whole."
P M X W V A E J F R C B I O ;	"what it's all about...these are things that make me enjoy living here and other people too. ... these are why I moved here."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	PNLTOFC;	BRJIVXGDHU;	EAWM;	QK;	S;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
C S N B ;	[the best and the most educational uses of the environment] "These are the best representation of non-destructive uses of the environment: they're healthy [for the environment] and educational [to the users]"
K Q F I H G R O P D M ;	"neutral uses of the environment: not extremely healthful to the environment, but not damaging either"
L J T E A ;	"destructive uses of the environment"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	OFSNJAE;	MGHB;	DRCLT;	PQ;	IK;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
C B L W H F M R O N A D ;	"most detrimental effects to the environment and the community because they are connected... the environment is so sensitive to change with human impacts." [as an example, the respondent cited a study that ECU did on the effects of jetties and seawalls]
Q I ;	[effects of these things unknown] "who knows what they'll do to the community? The military is secretive [and you don't know how they are impacting the environment], but they have a positive economic impact because of employment"
P B J U K S E T G ;	"these things may have an impact [on the community] but less so than the first pile" [less impact than C V L W H F M R O N A D] [with respect to 'P', stricter fishing regulations: "I don't know if they are right making it so difficult on people to make a living."]
X ;	[stands alone] "very positive impact for the environment and the community. Recycling goes county-wide in '93, but there will be revolts [because property taxes may go up to pay for it]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	A N F W V C ;	X I G S K D O M H L ;	T U R ;	B J P ;	Q E ;

WHY/HOW:

1)All of the first group (most likely to change community) were negative impacts:

A: "negative impact to the tributaries and the wetlands"

N: "a hurricane could cause terrible physical damage, and many people are uninsured, so people couldn't handle it"

F: "could affect air and water and quality of life"

W: "we have a pristine area and a loss of it would impact the economy"

V: "another red tide would completely devastate the commercial fishing industry"

C: "the psychology of OCS drilling would create stress in the community ... the 'new' and 'change' associated with entities--such as oil companies--[that want to come in], things like this don't just slip in around here... there is a protectionist-type attitude. It's hard to get people to focus on one thing though. There's a lack of organization, so it goes back to stress, mental stress, and controversy... and there may be environmental impacts from a failure of a system of any kind."

COMMUNITY: Beaufort  
 INTERVIEWER:Liesl Schemthanner  
 DATE:12/7/92  
 RESPONDENT CODE: 013BEA  
 HOME: Beaufort  
 USE AREAS:from Atlantic Beach to Beaufort, swim, walk on beaches and waterfront, do some sailing  
 LENGTH OF RESIDENCE:5 years

ISSUES:

- 1)[lack of good community leadership] "leadership doesn't encourage what community could be... community leadership is narrow-minded and not looking down the road.... the town needs good planning...won't go swimming in Taylors Creek [because of pollution from boats and fish factory], restaurant on dock throws trash out and it drains into the street--enforcement in the community is weak ...environmental, nutritional, and exercise knowledge is not here...the area has been isolated so long that it isn't adjusting well to change. There is a lack of unity in Beaufort... Community leaders lack foresight... there is a pretty resistant town council now; more progressive people would help... [things leadership could do to help the town include:] promote tourism, regulate what is dumped in Taylors Creek, think ahead, encourage citizen participation in keeping the area clean."
- 2)[need to improve tourism for town economy--ties into lack-of-leadership issue] "Tourism is good but needs to be increased. Tourists increase revenue and we need that... it is most important to increase tourism, and [leadership] can promote that by keeping the town clean, improving the waterfront park, making a nice picnic area, more family-type activities, improving infrastructure, increasing the sales tax [to pay for these things]... more people that have come here would like to see more cultural activity, for example a music group on the dock..."
- 3)"the waterfront is not taken care of" [also related to the lack-of-leadership issue: need better enforcement and community involvement]
- 4)"education need improvement"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
R A K C ;	"these things are not true about the area"
G T Q ;	[respondent doesn't do these things] "don't apply to me, so I can't really judge"
B S V W H L ;	"these things exist here and describe the community"
F E N I O X D U ;	"reasons we came here and like it here... [but] the seasons could be utilized better" [e.g., could get more tourists coming all year and not so seasonally]
P M J ;	"could monitor these things and improve the area by regulation and planning"



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	FXIJNDOEB;	USG;	QH;	TV;	MPLWCKRA;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
JALTR;	"fishing-related activities"
KOMFG;	"beach-related activities"
EBPHD;	"water recreation"
ISNC;	"educational or informative activities"
Q;	"doesn't fit in"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	HLDS;	ETPC;	MJR;	IABG;	FONKQ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
Q T I ;	"these go hand in hand: military activities will have to be dealt with by the Clinton Administration"
A U C F ;	"has to do with pollution of the water" [these things lower water quality and would effect the economy and beauty of the area]
B L R P W S ;	"has to do with no regulating the environment"
D X ;	"community action/involvement in environmental issues... things the community [and community leadership] can work on and improve"
V N ;	"natural disasters that we can't do anything about"
E J M K O G H ;	"broader community problems--county and state [governments] have an effect on them"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	T F C U A S W D G E J N V H M O ;	Q ;	B X L P R ;	I ;	K ;

**WHY/HOW:**

1) For the first group (most likely to change the community) the why/how is described below:

T: "would allow for improved infrastructure"

F C U A: "all cause pollution to the water which would be bad for the area economy and tourism"

S W: "major negative impacts... need to make people--locals and tourists--more responsible [and you cant do that with relaxed regulations or poor management, for example, even small things like just letting helium balloons on the waterfront is bad because they get into the water and choke the sea life]

D: "need a better sewage-treatment system for the county. That would allow for better tourism and economic growth"

G E J: "these are good things"

N V: "cause physical damage and scare people"

H M O: "all bad things [regarding population growth and development] if planning doesn't go along with it"

RESPONDENT CODE: 014BEA

HOME: Beaufort

USE AREAS: use coast for work and recreation (have business on waterfront for 12 years, like to go fishing and boating ocean and sound)

LENGTH OF RESIDENCE:15 years as a resident, but great grandfather was born here, so have been visiting entire life.

ISSUES:

1)[planning and directing growth in the community]: [parking, traffic, a new bridge are all part of this required planning, as are environmental concerns discussed below] "Growth deals with people, which needs to be directed, controlled, but at what cost? The other things [environmental concerns] happen."

2)"environmental concerns--true for the country as well as here: not using up water; wastewater [sewage] problems; runoff into rivers, ocean, and sound; maintaining scientific research; keeping accessibility and quality of water; the wrong type of industry would damage water quality and research--for example, there has been discussion of offshore drilling--being careful of the industry they bring in. Scientific research and development [which is ongoing here at 5 labs] should be maintained at the cost of industry if need be."

3)[need for improved education] "Carteret County education is poor: I have kids, so this would be my most important personal issue"

4)"the area hospital is awful: health care needs development and improvement"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
A K ;	"these are a part of what I'd like to have more of; I wish these were stronger issues because they need more attention"
R B J N F T X M D C W P O I ;	"true and significant issues; they are part of where I am"
E L U G Q S H V ;	"true of area, but not major, not necessarily significant. These things wont make people come specifically"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	L U G S V H C D T F N B ;	I E W Q M X J R ;	O P A K ;	;	;

PILE SORTS: USES	
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PILE ITEMS	EXPLANATION
D G Q K P ;	[things that are not and never were important to me] "insignificant things [to me]: I'm not involved in them, never did them, but they are here"
E F N S I R C O M ;	[things important to me] "thing that are near and dear to me: I do these activities"
H B J A T L ;	[things that used to be important to me] "things not related to me now: have done them, but don't do anymore"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	O ;	L J A E F N S I C R ;	T H M D G P K ;	Q B ;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
S T L H C M K W G O U ;	"things we don't need in the community"
N V ;	"natural things: have to deal with and be ready for by knowing what to do, but have no control over"
Q ;	"represents hope for the future, maybe we will get our priorities in line and leave something for our grandchildren"
P F E A R B D J X ;	"issues we have to keep an eye on, have to control [because they are problems right now]. These things need constant attention." [for example,] "Acid rain coming from the west is a problem"... "Farm runoff is a problem with algal growth"
I ;	"also needs a watchful eye because it could cause problems" [in the future because they often don't tell the public what they are doing and what the impacts are]

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	H G O U C L S W Q V N ;	T M K R D X A E F ;	P B J ;	;	I ;

**WHY/HOW:**

H G O U: "too many people for a confined area. The change leads to overcrowding, longer lines, more traffic, more people..."[can be for the environment or quality of life here]

C L S W: "these things will make a change in the quality of the environment and life here...they will diminish the view, the beautiful beaches, reduce water quality...oil drilling will hamper science that occurs here. It's a dirty industry! Bad all around...it brings in a transient population, a spill threatens water quality...."

Q: "Clinton may lead to better education, health benefits, money to pay bills, just a better quality of life."

V: "will make people leave, won't be able to breath, scares and drives people away"

N: "would devastate area, damage property"

COMMUNITY: Beaufort

INTERVIEWER:Liesl Schemthanner

DATE:12/12/92

RESPONDENT CODE: 015BEA

HOME: Carteret County/Beaufort

USE AREAS: water, Taylors Creek, Atlantic beach, Radio Island ("grew up surfing here"), recreational fishing, boating, make a living off of boats that come in here

LENGTH OF RESIDENCE: 14 years in here, in County for over 30 years total (move here when 2, lived previously at Cape Carteret)

ISSUES:

1) "keeping water quality [of ocean and sounds] high: without it we'd have nothing...we have some of the prettiest water on the coast, no brackish creeks dumping in, but more people are living in lowlands with septic tanks [threatening water quality]...Atlantic Beach is a mess and they don't have the property to do it [dispose of their treated sewage] so we need a county-wide system... dirty industry would be terrible for water quality... Open Grounds farm runoff also affects water quality [kills fish]."

2)[need to promote tourism for economic growth in the community] "some say the economy is a big issue, but here its always been bad--economically repressed and always squeaking by...we're used to it." "Fishing has always been here, but commercial fishing is oppressed and squeaking by, its overfished, but it's in their blood, so it will stay around mostly as subsistence, maybe make a meager living but it is too expensive to insure a living, but they're never going to get behind a desk. They [fishermen] will hang on to feed their families.... tourism is the only draw for money and economic growth, although if the [military] base closed it would be a problem [economically for the area]."

3)"beach access for the public" [all the beach has been built on, accesses have been sold out. This is more of a county issue--over at Bogue Banks--but the beach people come over to Beaufort to spend money, so it is important to keep them happy]

4)"higher taxes: this is a mixed blessing. It's a problem for the local people who have been here forever. The local people can't afford to stay here so have to sell out... Maybe they could grandfather [or freeze some of the tax structures for the older natives or older houses].... But at least if they sell, they have enough money to go somewhere else, [and higher taxes do allow for improvements in the community]."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
G V Q S ;	"these things didn't influence my living [moving or staying] here"
A M E ;	"these things are true, but happening less and less"
K ;	[only some people are environmentally aware] "the people who come here are, but the natives aren't so much, for example, the fishermen throw stuff over the side because daddy did it, etc."
N T B F X I U R C ;	"these are true things, nice things... reasons why I'm here, things I like [about the area]"
D W ;	"this group doesn't really have any meaning for me: doesn't matter to me"
J O P ;	"these are not really true: it is overcrowded, there is a lot of traffic, and there are no so many open spaces anymore"
L H ;	"things I enjoy, but not very often"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	S R E A K N T B F I U C L H ;	M D ;	G X V ;	W Q J ;	O P ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
J L T R ;	"traditional ways indigenous people earned a living and [these things] are disappearing because there are too many people [doing them now]"
F K D E G O ;	"things people can do on their own with out paying--costs no money to do these"
P B I S H ;	"thing people can do, but generally costs money"
A M Q N ;	"things that draw people here"
C ;	"education ... the importance of education about the area is underrated. The area is unique and important... When you understand it, it becomes important, for example, the pocosin land is important, but you have to learn about it to know that, then you value it."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	J T R L O E S ;	G H B ;	C N A M F D P ;	I ;	Q K ;



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
O P F U D B V ;	"all relate to too many people" [assuming that red tide is related to population growth and urbanization]
K R E J ;	"all related to building and accommodating more people"
N ;	"could be a short-term disaster, but long-term good because it will blow the condos off the beach"
W H L S C M A ;	"poor-management-of-resource-related or bad planning"
I ;	"good for economy--furniture sales, beer sales, income from DUT's, lawyer fees"
T X Q ;	[the Clinton Administration may effect these things] "maybe Clinton will raise taxes for some people and encourage recycling too"
G ;	"more tourism is good and bad: it's good for the economy... but does bring more people into the area and I'm not sure if the fragile environment can handle it"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	F O H W L S C M A N ;	G J D I ;	V P R K B E ;	U Q X T ;	;

**WHY/HOW:**

1) For the first group (most likely to cause change in the comm.) the why/how is discussed below:

F: "would hurt water or air quality...boat yards are polluters"

O H M: "all go together: too many people make the place undesirable, [if too many people come and it get's overdeveloped or developed without planning] then people won't come here [and the economy falters]."

W: "need to protect the resources...harvest of resources needs to be managed to save some for the future."

L: "sport fishermen [a big part of regional tourism] won't come if it is overfished"

S: "need tight regulation to save the area. It could put people out of work, but we need to do it while there is something left"

C: "too many ifs [associated to offshore drilling]. They should look to Louisiana for examples. ... potential spills, crew boats blowing money quickly... but bad for town. It would be bad for town"

A: "first destroys marshes, and all sealife come from them--the nursery of the ocean, then destroys the fishermen, etc."

N: "hurricanes are bad and good: short-term disaster, but long-term good because it will blow the condos off the beach"

COMMUNITY: Beaufort  
 INTERVIEWER:Liesl Schemthanner  
 DATE:12/8/92  
 RESPONDENT CODE: 016BEA

HOME: the Beaufort Area: the waterfront to North River (i.e., the entire Beaufort township)

USE AREAS:of the NC coastal area, I work in the central part, recreate in the north, central and south areas of the coast. Use the water and beach some, but mostly deal with people who are on the land.

LENGTH OF RESIDENCE: 5 years (came here for work)

ISSUES:

1)[cultural conservation] "conservation of the culture and the environment: you can't have one without the other... the question is how do you have change that is progressive change? This is not being dealt with."

2)[environmental conservation] [directly tied to cultural conservation. Specifically mentioned the proposed sewer transfer to Open Grounds Farms]: "rich white retiree's shit being forced on poor black and rural folks."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
A U M P J N B S V C H ;	"has to do with the people, history, and culture of the area"
F I E L G R K Q X D T W O ;	"these are qualities, dubious in that category, but they related to the environment"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	B V W T ;	F N H C D ;	X S M R L G I ;	U A E P J Q O ;	K ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
O G D P K B ;	[basis the respondent used for this pile sort: is the activity indigenous or not] "these are the most atypical activities, they were brought in from somewhere else"
A M ;	[slightly less atypical] "slightly less so from above--still alien, but not quite so much"
C S N I ;	"indifferent activities, meaning activities that both locals--indigenous--and newcomers--imposed--do"
E H F ;	"indigenous, but more pleasure-oriented activities"
T L R J Q ;	"indigenous, but life-style oriented activities."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	O E H F ;	A M ;	P K D G ;	B T L R J Q ;	N I S C ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
H C F S I ;	"evil activities"
E K R U ;	"[these changes are] probably intended to do good, but probably will not"
A M W D B L O ;	"unintended ill effects"
N V ;	"uncontrollable natural events"
P G J T Q X ;	"could have positive impacts"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	Q G H W I F N X ;	A D B O ;	M T S V ;	U R K E C ;	J P L ;

**WHY/HOW:**

1)For the first group (most likely to change the comm) the why/how is described below:

Q G: "don't know how much these will change the community, but it could be a lot...mostly positive I suspect"

H W I F: "clear and present dangers. Overdevelopment is happening now and is detrimental to the environment. Poor management is never good. Military activity is positive in that it can change economic activity, but it is a negative change for quality of life. Industrial pollution is increasing all the time ... it is bad thing for the environment which affects the culture of the area."

N: "a negative change because of physical destruction, but it may change the way people build [a positive change]"

X: "changes how people run their household: a positive thing. It could change the way people behave. Increasing the [recycling] programs could only be better."

2)For the comments on the third group (mid range on likelihood in changing the comm) the why/how is described below:

T: "higher taxes is ok if they accomplish something"

3)For the comments on the fifth group (least likely to change the comm) the why/how is described below:

J P L: "I don't think these ultimately matter at this point... there has already been so much paving...and I'm not sure if stricter fishing regulations is likely to be a problem...over-politicizing of fishing is more likely to change fishing [than overfishing and stricter regulations]"

COMMUNITY: Beaufort  
INTERVIEWER:Liesl Schemthanner  
DATE:12/10/92

RESPONDENT CODE: 017BEA

HOME: North River (in the Beaufort Township)

USE AREAS:use the water for recreation, fishing, crabbing, clamming ('go fishing when I'm upset...don't go anywhere without my pole, bucket, shovel, line, and bait, just in case.")

LENGTH OF RESIDENCE:15 years

ISSUES:

1)"environmental health": the respondent was concerned about the cleanliness of the environment... generations of dumping in the marsh has created environments for rats and snakes, high density of housing with septic tanks too close together and other human-related elements are compounded with a high [ground]water level in the soil and has created an unhealthy environment. The respondent even suspected that there was a higher than normal rate of cancer in the community.

2)"lack of future for the children within the community": "Jobs": people growing up in this community have to leave the county for jobs elsewhere, "especially minority children". The potential rate of drug use, alcoholism, and teenage pregnancy are also high.

3)"work displacement with adults": fishermen and others are loosing their jobs, e.g., there are quite a few older men who used to go fishing for 6 months of the year, but they have been "regulated out of work" and contribute to "an increased number of men with little education, little experience doing anything else, and no jobs."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
M K P E ;	"things I totally disagree with... [for example] the people aren't environmentally aware, and the traffic is awful."
Q N U R D L ;	"If I was a tourist, that is why I'd come here."
T O C V A I X G F W ;	"describes my community"
S H G J ;	"describes Beaufort more than North River specifically" [describes the main town more than the community I live in]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	W F G X A V C L ;	J B K I O ;	E H M T ;	D R U N Q ;	S P ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
B H G M D P A ;	"I don't know anyone who does this stuff... most people can't afford it"
N S O K ;	"things we do at least once in a while" [N and S: "do when my people come down from Ohio" and O and K: "my daughter does these"]
Q L T J E ;	"I have done this at lease once, and I know people who do this a lot."
F C R I ;	"my activities; I do these a lot"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	E L R Q ;	F M T J ;	I C ;	K N ;	A P D G H B O S ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
RE V X I ;	"these have an extreme, indirect effect on my community, because of it's location"
U F K J L ;	"these may be things that could happen in the future, but not in the next five years"
M H O B G T P ;	"if they happen, it would affected [my community] on a shorter time frame"
Q A D W S X N ;	"if activated, these would have an immediate response or need [from the community]. Some of these are current needs too, for example recycling."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	N S W D A M ;	T H I B ;	X L O P C ;	G U F K ;	Q J R E V ;

**WHY/HOW:**

1) The why/how for the first group (things most likely to cause change) are described below:

N S W D A M : "these things are happening now or are things that have an immediate potential for complete devastation of the community." "A hurricane would have to be responded to. Relaxing environmental regulations would help activate land application of waste water. We are already seeing poor management of natural resources with the sewer problems going on. Farm runoff is a problem because CAMA regulation would not allow construction that is being allowed now."

2) Other comments included: "Industrial pollution would maybe provide jobs, but there would positive and negative exchanges with development... [as an example of industry in the area,] Parker Boats builds boats and employs a lot of people... I would like to see environmentally-sound industries and industries conscious toward health and the community, not things like paper mills."... "What Clinton will do remains to be seen." ... R E V J : "won't affect the community [because its location]"

COMMUNITY: Beaufort  
 INTERVIEWER: Liesl Scherthanner  
 DATE: 12/13/92  
 RESPONDENT CODE: 018BEA  
 HOME: Beaufort

USE AREAS: the water, carrot island, shelling on beaches, sailing, picnics and run dog on outer banks (shackelford banks), take visitors over to carrot island, cape lookout, and shackelford banks  
 LENGTH OF RESIDENCE: 3 years (sailed through, then came back and stayed)

ISSUES:

- 1) "protecting the coastline: controlling a lot more things, for example, military buildup, pollution, mostly from texas gulf, availability of beach access..."
- 2) "[the local] government is resisting change instead of controlling it. This has a backlash, because it [change] happens anyway, so they could do something, but they're now doing nothing. They could help the economy by participating in the process of change...there is too much unplanned development...We're going to get raped if somebody doesn't take control of it."
- 3) "problems with new population: the part time residents don't really contribute to the community ... [for example] the increased number of retirees don't feed the school system [because that is not where their interest are, they vote and put their money into things that benefit the older population and not necessarily the younger/family/permanent population]."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
M W A B F N X J P S V H ;	"the reasons I live where; why I stay"
K Q E R O L G I F C U D ;	"what got me here originally; why I found the place"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	X M W A B F N T U D Q O ;	G I L ;	R E K C P V H J ;	S ;	;



PILE SORTS: USES	
PILE ITEMS	EXPLANATION
RTJL ;	"a lot of people make a living doing these things, but others can't do them as well"
IHB EAM ;	"recreational activities: all brings money into the community"
KS ;	"not too many people come here to do these things"
FOQPDG ;	"people like to do that [pile]. It keeps them living here all year 'round."
C ;	[education stands alone] "this is by itself"
N ;	[visiting parks stands alone] "so is this [by itself]"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	LJTREBHDPOF ;	MAKQG ;	;	CNIS ;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
A B R ;	"don't know much about these things"
P ;	"fishing is important to the economy [esp. sports fishing] and the heritage [esp. commercial fishing], so both sides of stricter fishing regulations can be seen" [because it could hurt the commercial fishermen, but maybe help the sports fishermen]
X G K M L C F W S ;	"these are the most critical issues in the community"
E D H O I J T ;	"these are the second-most critical issues in the community"
Q ;	"don't know yet if its good or not [for the community]"
V N ;	"we have no control over these; we can only worry about the aftermath"
U ;	"don't need more marinas; there are enough people working at the existing ones"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	F S K V N B P C M ;	X G L W A R ;	O T H D E Q ;	I J ;	U ;

**WHY/HOW:**

1) for the first group (items most likely to cause a change in the community), the why/how is explained below:

F S K V N B P C M : "these are all negative"

F: "if pollution is here, people won't come to do the things they come for"

S: "these are probably too relaxed already. You give an inch and they'll take a mile. Corporate people are the worse than three-year-olds."

K: "this is a pet peeve of mine; I want to keep the individuality of the place. By bringing in chain business, especially clothing stores like Banana Republik, the area will turn into a mall and we will lose our uniqueness."

V N : "these will have a major effect on the economy"

B: "this goes against the whole image of the 'crystal coast'"

P: "affects the economy by putting fishermen out of work and changing the areas heritage"

C: "brings in jobs, but too big of a risk. They are not of aware of the impacts from drilling and there is always a threat of an oil spill"

M: "this is happening now. It needs to be controlled."

COMMUNITY: Beaufort  
INTERVIEWER: Liesl Schemthanner  
DATE: 12/6/92  
RESPONDENT CODE: 019BEA  
HOME: Beaufort Township  
USE AREAS: from Ocracoke to Hammocks Beach State Park; use the ocean, beaches, and maritime forests  
LENGTH OF RESIDENCE: 8 years

ISSUES:

- 1)"the environment: water (estuaries and sounds) and wetlands--saving and preserving these areas [which will have a positive effect on the economy]...if the environment changes, the community will change for the worse...the environment v. economy has been a 'them-us' syndrome. it polarizes people, but it shouldn't because historically the environment has been the reason people come here, the reason the economy has been good."
- 2)"schools and education: this is a cause for concern here because they [schools & ed.] are poor"
- 3)"controlling growth" [so that infrastructure and other aspects of the town can keep up with it without damaging the qualities of the town and the environment]
- 4)"Infrastructure" [as it relates to growth pressures, the water/sewer issue, and generally maintaining and developing infrastructure as the population grows]
- 5)"the economy [which relates to the environment as stated above] there is a desire and need to have a better economic base, but the elected officials want new industry [which could damage the environment and the economy in the area depends on the environment, e.g., tourists come here and spend their money because of the environment]...it is important to keep people working, but there need to be a choice [between dirty industry and tourism, because there can't be both] ...[in regards to commercial fishing as an industry] it is getting harder and harder to make a living on the water. There is some overfishing, some environmental degradation [polluted waters has resulted in a decline of shellfish], but the issue is separate from fishing regulations, it relates to an overall weak economy ...there has been a general decline in the economic health of the region over time."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
S P ;	"basically not true; relative to circumstances. For example, not much traffic is relative to the roads...for these roads, there is a lot of traffic."
F I R N H W D ;	"almost always true statements for the community"
A B X O G V E K ;	"generally true, but not always true"
Q L T J M U C ;	"usually not true, but sometime true: for example, water-related life-style is only true if you can afford it, it is not a given to living here. Crime rate is low depends on the crime--drug crimes are increasing in the area. People are friendly: actually people are not as open and accepting when you first get here--it takes a long time to break in..."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	F I R N H W D ;	A B X O G V E K ;	Q L T J M U C ;	S P ;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
J E R Q T L ;	[The respondent's basis for the sort was done on the likelihood that they would be engaged in by only locals v. outsiders] "not exclusive, but most likely to be done by locals--overwhelmingly done by locals"
A H M ;	"done mostly by locals, but also by several tourists"
F G P O I ;	"a few locals do, but very common for outsiders"
D N B S ;	"overwhelmingly done by visitors"
K C ;	"didn't really fit in [to the basis on which the piles were sorted]"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	F O A E ;	H M N S ;	P G Q J D ;	B R T L I ;	K C ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
F S C K W H O ;	"any of these would have a very significant impact on the community" [the respondent's basis for the sort was on degree of impacts to the community; each pile was successively less of a significant impact]
D R M U G L V ;	"harder to say that it would be a significant impact, or, it would be slightly less of an impact [than the first group]"
N X P Q A T ;	[either not very significant impacts or short term impacts] "could be a significant impact--for example a hurricane or the Clinton Administration--but it will be a short term impact, or not very significant activities"
B J E I ;	"probably not long term impacts, or not very big impacts...[for example, when discussing the construction of bridges and paving of roads] bridges and paving roads isn't as large [of an issue as the previous group] because environmental or economic activity will dictate that these activities won't be done now, or most of it has already been done [e.g., there really aren't too many bridges that could be built]"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	C S F H ;	O W K D ;	R M U G L V ;	T A P X N Q ;	I E J B ;

**WHY/HOW:**

1)

- C:** "off shore oil: if drilling lead to significant, economically-recoverable oil and gas, there would be an enormous impact because of the huge amount of secondary effects: large transient population, large staging area, support activity, and this area doesn't have the infrastructure for that. Because money speaks, environmental regulation would be bulldozed. Secondary effects would be major? Spill impacts would be on top of that. All environmental effects would be negative, for example, filling wetlands for landing areas, spills would affect sea life and beaches and tourism... look to Louisiana for examples [of the bad things that can happen from oil development]: the boomtown of the the 80s... roughnecks... misconceptions that money will continue... discharges of mud... or the oil spill in Alaska [can be looked to for examples too]...the area is not set up to have that kind iof industry--it's a 'dirty' dirty industry, a heavy industry... [Some people think it will be good for the area because of royalties, but ] there is also a diffenence here because it is an issue of state v. federal water for oil development, which is different from Louisiana. They want to drill in federals waters, which is disadvantageous [because there would be no state royalties], so they offered federal royalties which is blackmail... with oil development and industry they need to ask the question of whether it is the change they want to make--a change for the worse I think..."
- S:** "relaxing environmental regulations:...very large septic tank regulations, filling wetlands, dumping industrial waste--the more relaxing the more change...developers say there are too many environmental regulations; environmentalists say the opposite"
- F:** "industrial pollution: could not be handled here. The land is too low [the ground water is high and easily polluted], and there is not enough infrastructure. More industry would be a problem."
- H:** "over development: one can argue what overdevelopment means. I think it is having too much built for the area to withstand. It suggests filling in wetlands, destroying estuaries, building more roads, paving, etc. [--all negative]"



COMMUNITY: Beaufort  
 INTERVIEWER: Liesl Schernthanner  
 DATE: 12/15/92  
 RESPONDENT CODE: 020BEA  
 HOME: Beaufort  
 USE AREAS: don't go out in the water or use the environment, use the community center sometimes for recreation  
 LENGTH OF RESIDENCE: 38 years (whole life)

ISSUES:

- 1) "more jobs--jobs for young people and for older people too"
- 2) "need activity and places for children to go. Something to keep young kids off the street... need a recreation area, a better gym or community center"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
O K ;	[generally true statements] "there is a lot of open spaces and people think about the environment...they're kind of related"
M X J H M ;	"describes the area; all true things"
G L ;	"both describe fishing and catching seafood"
Q E ;	"the ocean is good for surfing" [the items related to each other]
B S F P D I R U T N ;	"describes the town"
A C V ;	"describes the people in town"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	B S F P D I R U T N C A V ;	W X J H M ;	O K Q E G L ;	;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
E H F P G O G M ;	"there is a lot of this activity in this community; these are activities for fun"
T L R A D J Q ;	"there is a lot of this too, but this related more to the livelihood of people [as opposed to recreation]"
I S K ;	"less common and not done for a living, just for getting out of the house"
C ;	"education" [stands alone]
N ;	[not done right inside the town] "you have to travel to see national parks, like to Fort Makon"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	R T L J ;	F H P E Q ;	A B M G O ;	D I S K ;	C N ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
R G V L A N H D U ;	"things that would destroy the town or ruin the community--not helping the community"
P K I O C J E Q ;	"things that could better the community--give people more work"
T X W F M S B ;	"some of the problems in the community [ongoing now]"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	E J K P ;	I O C Q ;	U D H N A L V G R ;	S M F B W T X ;	;

**WHY/HOW:**

1)for the first group (most likely to change the community) most the changes were considered positive in that they would improve the economy (except for stricter fishing regs which would put fishermen out of work). The why/how for each is explained below:

E: "would provide more work, more people would travel through the area"

J: "better roads would mean more tourists" [this would improve the economy]

K: "need more privately-owned businesses, but even chains would employ people"

P: "this would put fishermen out of work--it would mean less jobs" [which would not help the economy]

2) Other comments included:

C: "oil drilling won't affect us because they wont find anything."

SMFBWTX: "they [town government] probably wont do anything about these, so they wont change the community too much"

COMMUNITY: Beaufort  
INTERVIEWER:Liesl Schemthanner  
DATE:12/10/92  
RESPONDENT CODE: 022BEA

HOME: the Beaufort Area from bridge to turnoff to go downeast

USE AREAS: "all of it" ocean, beaches on the banks, boating in sound, sight seeing

LENGTH OF RESIDENCE: [10 years as permanent resident]; not born here, but have been associated to the community entire life [now retired, 60-some years old]: grew up here, aunt had a fish factory, fishing was on the decline, left and went to kinston, bought current house in 1977 (15 years ago) and lived here part time, and made a permanent move back here 10 years ago.

ISSUES:

1)"economy: the concern for jobs. This is a perceptive thing; the reality is not quite that way" [according to the respondent, the need for jobs and boosting the economy is not as big an issue as some other things, but most people will probably say it is the most important].

2)"a hot item is the Atlantic Beach sewer issue...the impact to Downeast is the problem" [land application of waste water] "the rational is that a centralized sewer system will bring in industry. This is a misnomer because we are too remote, too far away from distribution centers."

3)"declining water quality that is affecting water quality for shell fishing and fishing is a problem"

4)"incompetent local government--municipal and county--is a problem...it is too much a product of self interest rather than community interest... there is concern for industry and business development but we should package what we have and let go of the port [development] and other ideas...for much of the industry that is being pursued, we don't have the land or the people...the area is not suitable for large development, highrises, etc. What we do have is water that is perfect for research, small industries, credit-card monitoring systems, marine-dependent industries that don't need a high level of materials-like making fishing rods--tourism and retirement and service for those things...small industries that employ 25-100 people would be good...large industry does not pay partly because if something happens to it, the economy goes belly-up. It is just not wise to put all the eggs in one basket, but small industry isn't being pursued..."

5)"a high-rise bridge to Morehead would affect Beaufort--it would be a bad thing...most of the traffic is people moving slowly through the area [tourists] anyway, so they don't mind stopping."

PILE SORTS: QUALITIES [respondent's basis for sort: "what appeals to me"]	
PILE ITEMS	EXPLANATION
B C H S F I O N L T G J ;	"my reasons for liking the area"
Q ;	"don't know enough about surfing to say anything about it"
A V ;	"I have some ambivalence on this: it is true, but not specific to here, there is a sense of divisiveness"
E R ;	"[these things are] not uniformly so, but better [than most places] comparatively speaking"
U D K M P ;	"these things are relative..." [respondent thinks they are "more to the negative end" than suggested by the card]
W X ;	"relative again; but these don't really describe the area"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	B C H S F I O N L T G J ;	R E A V ;	W X U D K M P ;	;	Q ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
T J R L ;	"traditional commercial uses"
A E B F H Q ;	"related recreational/commercial uses" [recreational uses that provide livings for many people]
I M D P O G S ;	"strictly recreational uses, often done by tourists when they come"
K ;	"people don't do this here too much"
N C ;	"related to learning from the environment"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	T J R L A E B F H G O P D M ;	C I N S ;	Q ;	;	K ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
J H C F R K I U M S V L W ;	"major contributors to the demise of the area"
A D B X ;	"all interrelated items; human use- and refuse-related...consequences of people living here"
E ;	"could be devastating"
N Q ;	"have no control over these things"
Q T ;	"can plan for and address these things...they are or will be impacting area infrastructure"
P G ;	"not all bad, but need to be addressed in order to maintain the economy"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	V L W U M S F R C H J I K ;	O T E ;	A D B X ;	G P ;	Q N ;

**WHY/HOW:**

1) The why/how for the first group (things that are most likely to change the community) are described below:

V: "devastating to the economy"

L: "will lose not only jobs and money [because of the income commercial and sport fishing brings in] but will upset balance of the environment which will further effect the economy"

U: "degrade water and sediment qualities"

W M S F R C H : "these are hand and glove--they all go together. They're the most serious because of the potential demise of quality of life...poor management and lack of planning go with environmental regulations... industrial pollution degrades water quality....with oil drilling, if there is a find, we're in trouble. It emphasizes the problem of a test well..."

I: "military activities are already impacting areas and more problems are likely to happen..."

J: "more paving would probably mean filling in wetlands and would also affect water quality"

K: [changes the nature of the community--makes the area lose it's uniqueness]

2)Other comments:

E: Construction of bridges in the area [a bridge from beaufort to morehead would affect if, how, and where traffic came through town]

N: hurricanes are not all bad because they would point out some of the weaknesses in development procedures and make people plan better for the future.



COMMUNITY: Beaufort  
 INTERVIEWER:Liesl Scherthanner  
 DATE:12/11/92  
 RESPONDENT CODE: 028BEA  
 HOME: Beaufort  
 USE AREAS:water, beach, ocean, sound, banks  
 LENGTH OF RESIDENCE: 5 years

ISSUES:

- 1)"environmental concerns"
- 2)"offshore drilling" [relates to environmental concerns]
- 3)"education: the schools suck"
- 4)"development along the coast...condos...beach hardening, false beach walls" [relates to environmental concerns]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
U J X O W B C A V I K ;	"this is why I live here--sort of relates to lifestyle" [these make the particular lifestyle in the area possible]
F D G E N R T ;	"this is also why I live here, but it relates more to the environment and things I like to do" [these contribute to my to the activities available in the area]
M ;	"[stands alone], crime is low, but that's changing--its increasing"
H S ;	"I'm not interested in these things"
P ;	"not true"
Q ;	"I don't do this" [have no opinion on]
L ;	"I love seafood, so this stands up front" [this is true, unique, and important]

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	L F G N T B ;	E A C K X ;	Q D R I W O J U V ;	M H S ;	P ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
O A H B P D E F ;	"sports--I enjoy of all of these and do a lot of these"
M L T J R ;	"livelihoods on the water; I also like to do these things and would like to do more of them"
I S N ;	"there is a fair amount of these in the area, but I don't have interest in doing them...this is what the older generation does"
G K O ;	"I don't do these things"
C ;	"out of place, could go in with [pile # 2: M L T J R: livelihoods]"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	A O H B P D E F L T J R ;	Q S N ;	I M K G ;	C ;	;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
R U L C ;	"things we do to damage the environment--things more concerned with the water"
N V ;	"natural phenomenon"
J E ;	"land-related or road-related items. Some are not necessary"
P X ;	"things that would help the environment...for example the issue of TEDs [Turtle excluder devices], I can empathize with the fishermen, but I think the fishermen are the only ones who don't put back anything into the environment [thus the TEDs are necessary]."
K M G O ;	"all have to do with growing too fast and not thinking out developments. We're [as locals] in control of this more than other things."
I Q T ;	"not a local-control level; more federal"
F S H A D B W ;	"result of all those other things [listed above]. The result of overdevelopment, growing too rapidly, and not planning it out"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	N C I H F A D B ;	X P Q ;	T S B L W ;	U O G K M ;	J E R ;

**WHY/HOW:**

1)the why/how for the first group (things most likely to change community) are explained below:

N: "if a hurricane hit us head on, it would devastate the community, it would have to rebuild"

C: "devastating change to the community...would cause pollution and environmental damage"

I: "the likelihood of change is minor now, but if they become active [such as in the case of a war], it would make it an uncomfortable place to live"

H: "caused by other problem further down the line...overdevelopment would ruin the community"

F A D B: "pollution problems... goes into overdevelopment... would ruin the community"

2)Other comments included:

X P Q: "these are things we can do as a society to prevent further deterioration...these are controls and positive things for the environment"

T S V L W: "have some control over these, but they cause some damage or change to the community"

U O G K M : "these are happening slowly"

COMMUNITY: Beaufort

INTERVIEWER:Liesl Schemthanner

DATE:12/7/92

RESPONDENT CODE: 035BEA

HOME: lives in Otway, Carteret County, but works in Beaufort and "grew up in Beaufort"

USE AREAS: live in a marsh, go boating, go to shackelford banks, horseback ride near Open Grounds Farm.

LENGTH OF RESIDENCE: 3 years as a permanent resident, [went to school here then went away for college etc--gone 12 years, has been back for 3 years now]

ISSUES:

1)"regulation of the environment: its changing the culture in the area... regarding fishing as a declining industry, people don't appreciate it as much as they should. They're hurting a lot of people [by restricting commercial fishing]"

2)"development restrictions: the question of how much to develop Beaufort...it wa like a ghost town in Front Street and they developed it--made it better, but how far should they go?"

3)"education is poor. It needs to be an issue, but it isn't. I feel like the kids get more education at home. ... This isn't a racial thing, its more of a cultural thing. Some people haven't left their spot [their small community], and by high school, people talk different [and show other differences between the communities because of lack of communication and lack of education]. ... For example, black people don't live Downeast, they live on 'the other side of the tracks' or in North River, and Downeast is not aggressive... it just goes from little town to little town, it's 'clumpy' or separate. It shows in the way they cook, they way they act, what the kids do when they get out of school. Everyone is isolated, and they like it that way. But the economics makes it hard for kids to do what their parents did, so they need better education opportunities."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
M A C F B W ;	"why I like to live here--the most important reasons"
P J ;	"doesn't describe the area"
K E R I O ;	"describe physical attributes of the area"
N X ;	"high priorities for me, but not exactly why I move back here"
V S H ;	"this is a unique quirk of mine--I like these things"
D ;	"not too important to me; not special to here;"
U T Q G L ;	"not too important to me as far a why I live here"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	W B C F A M H S V ;	O K E R I ;	D X N ;	G Q U T L ;	P J ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
S I E ;	"I like doing these things; I like looking around and going for a ride"
H T L R ;	"Not commercial, just a way t get out in the fresh air--fun"
C N ;	"not real important to me, more things that tourists do. I like going off on my own doing these types of things [and not going to organized or public places like parks]."
F K P B J Q D G M A O ;	"I don't do these things. I'm just not that athletic... sunbathing is the least important of all these things"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	J Q G F L R T E H O A M ;	S ;	N C ;	B K P D ;	I ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
N V C L P ;	"If we had any of these things the community would be changed [negatively]. They would affect the livelihood of the area"
R S M B D A W F ;	"all have to do with unplanned development and politics controlling the community"
X ;	"this needs to be done"
H G O J E ;	"these mean more people coming in, but it could be planned for... paving and bridges would affect the flow of people coming in--could avoid congestion."
T Q ;	"wouldn't change the area much, if at all. For taxes, people will do what they have to do"
K I U ;	"don't have a real big effect. If anything, they bring more money into the area and help the economy"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	N V S M D W L ;	J E P H A ;	F B X C O G ;	R ;	Q T U I K ;

**WHY/HOW:**

1)For the first group (most likely to change the community), the why/how is described below:

N: "natural disaster, can't do anything about...would change physical area"

V: "natural disaster, can't do anything about...would affect the amount of fishing that could be done"

S: "need to keep these strict to help the area" [relaxing regs. would hurt the area]

M: "could change the area for the worse; we need better planning"

D: "we already have this; it's a bad problem that is dividing communities...needs to be studied better" [reference to land application of Atlantic Beach sewer to Open Grounds Farm]

W L: "because so many people are fishing so much, and farming, and building, etc., we need to keep tabs on it all to ensure some resources for the future"



**COMMUNITY:** Beaufort  
**INTERVIEWER:** Liesl Schemthanner  
**DATE:** 12/4/92  
**RESPONDENT CODE:** 036BEA  
**HOME:** Beaufort township  
**USE AREAS:** Beaufort, Shackelford Banks, Hanging Rock, State Port, hang out around Seashore, Mill Creek, motor boat in ocean and sound and rivers, walk on dunes, visit marshes (fresh and salt)  
**LENGTH OF RESIDENCE:** 8 years

**ISSUES:**

- 1)"the schools are rotten. Education needs more support. I have kids, so this is the most important issue to me."
- 2)"clean water for fishing, shellfishing, recreation, and boating"
- 3)"industrial pollution is a threat, for example, there is a problem with stuff that comes down the Neuss River from New Bern, but it all ends up on the coast, it isn't gone [also used Mississippi River as an example]."
- 4)"overbuilding, for example too many condo complexes"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
U Q ;	"totally irrelevant to the area"
C V ;	"something that you notice in the area, but not exclusive to this area"
H S ;	"sort of goes with [pile number 1: U G], they are here, but they are not relevant to making it a place you want to live...they're functional, you can walk out and see the architecture, but these things don't make much of a difference to me"
G K D P F I X J N A M T R L B W E O ;	"these make the area neat! This is why I live here."

SCALED PILES: QUALITIES
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PILE	1	2	3	4	5
ITEMS	A B C D E F G H I J K L M N O P R T V W X ;	;	;	;	Q U S ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
C I L N E R ;	"things I do and like doing"
F T ;	"things I'd like to do more often"
A Q M H O P D G K S J ;	"things I don't do and have no desire to do"

SCALED PILES: USES					
PILE	1	2	3	4	5 "these are the hardest to do, or I don't know anything about"
ITEMS	I E R S Q M A O J ;	L T F H G ;	;	;	K B D P N C ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
P X ;	"things that we can control that will help keep the community what it is"
Q T I ;	"human-related things that we don't really have any control over"
N V ;	"natural things that we have no control over, but they tend to do major damage"
W L H D G E M A R K J B O U C F S ;	"dominant things that when you get some of them, everything goes down hill...poor management, poor development are things in this community. We shouldn't have these things on the coast."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	C V N S W B J K D H A M L R E G O U F ;	;	Q T I ;	;	X P ;

**WHY/HOW:**

1) For the first group (things most likely to change the community), the why/how is described below:

C: unplanned industrial development including offshore oil drilling affects the community, affects family life with the industry here. As an example, look to Cameron LA".

V N: "major change, but not all bad... house gone would be a major change, but people will learn from it."

S: "this is generally done to bring in business, but there is plenty relaxing already"

A W B J: "eat away at what is nice about he area...dominant effects... [for example,] because of the farm runoff you can't clam or oyster, it causes eutrophication and is unhealthy for the environment... all can cause water quality problems"

K D: "too many people and chain businesses will ruin the character of the community"

H: "again causes sewage and water problems"

M: "you wind up with the wrong thing in the wrong place, for example, condos on the coast"

L: "with overfishing, the whole cycle of what the ocean is stops"

R: "when you harden the beach, you bring in more people right now, and a hurricane can take it all away tomorrow"

E G O U: "all relate to too many people in the area, which is bad"

F: "this is hidden, you don't know where it is and it can cause sudden damage, but you can't plan for it. It can cause unthinkable damage...for example, acid rain, chemical discharges in the rivers..."

COMMUNITY: Beaufort  
 INTERVIEWER:Liesl Schemthanner  
 DATE:12/7/92  
 RESPONDENT CODE: 038BEA  
 HOME: Beaufort  
 USE AREAS:Beaufort to Harkers Island, oystering, boating, fishing, floundering at night, berry picking, "when I grew up the water and land was our living"  
 LENGTH OF RESIDENCE:68 years (born here 1924)

ISSUES: the respondent stated that all these issues "are interconnected"

1)"environmental controls on wetlands: the environmentalists' strangle-hold power" [the respondent has land which she cannot develop because it is designated wetlands]

2)"[decline of the] fishing industry" [TEDs and other regulations are making it impossible to make a living fishing]

3)"taxing landowners: we're being taxed to death" [locals are being taxed to pay for part-time residents, the results of wetland regulation (being land which can't be used, but is taxed), the increased number of homes, new infrastructure, etc., and it is more than they can afford. The boat people pay no taxes, but use the water, town, and facilities, and the land owners have to pay for this and deal with all the boaties' waste] ...In addition, "the multi-county recycling center relates to taxing land owners...it is set up for profit and taxes the citizens." [The respondent felt that the county ought to be making money of the facility, if anyone was going to, and not private industry]

4)"industrial pollution" [industrial pollution is affecting the fishing and shellfishing industries]

5)"sewage problems" [this is a problem because too many houses, hotels, and condos have been built on the beach--the Atlantic Beach wastewater problem was mentioned]

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANAT ION
D E G F N I R U Q L T ;	"describe the area, itself"
X O M J P W ;	"relate to problems of the area now because of the growth...[for example] the crime rate is not low anymore...the area is not rural anymore...the statements about traffic and population are not that accurate anymore..."
C A B K V S H ;	"describe the people of the area...family ties are part of the history"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	DEGFNIRUHLT;	CSKV;	JPX;	QAO;	MBW;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
QHPEFA;	"recreation for tourists and locals"
C;	"nothing else relates to education" [stands alone]
JLRT;	"local activities...the fishing industry"
IOSBGD;	"vacationing activities, done by tourists mostly"
N;	[stands alone; visiting parks describes itself]
K;	"don't do much of this here"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	IOSAEH;	FMP;	JLRTQG;	CNBD;	K;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
E R U G D ;	"construction-related changes"
L P W ;	"fishing-related changes...environmental control of natural resources includes fishing...overfishing is not a problem anymore...we don't need stricter regulations, fishermen know what is right, [with TEDs for example, it is to the fishermen's advantage not to catch the turtles, and if they do, they carry them out of their fishing grounds so that they don't get caught in the nets, they don't need the excluder devises because TEDs don't help]."
A C ;	"pollution that could happen in the future...the farm runoff problem is only in one place now, that's Open Grounds"
M H B S O ;	"development-related changes"
V N ;	"natural disasters, can't avoid, but part of life here...hurricanes are no big deal..."
I K J X T F ;	"ongoing activities in the community"
Q ;	"deals with the management of things...this may change; maybe he will straighten it all out...it should be fairer"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	O H B D F G T M C ;	P L I K J G ;	V W ;	Q A ;	X R U N E ;

**WHY/HOW:**

1)for the first group (things most likely to cause change in the community) the why/how is described below:

O: "increases infrastructure and sewer problems, and the crime rate"

H B D F G M:"covers all the problems all because of too many people"

T: "is forcing local people out"

C: "oil drilling is not really an issue anymore, but if it starts up again, it will cause a bad change in the area because of transients and pollution ..."

2)Other comments:

P L: "have been dealt with"

V: caused a scare, but it was a seasonal thing, the local people know which ones [clams and scallops] are good [and which ones are bad to eat], they can tell [by the look and smell]."

A: [regarding runoff from the inland forests draining "runoff can't be harmful, only Open Grounds is a problem" with runoff] [because they use chemicals on the land. In general, runoff is a natural thing, just like the marshes filling up eventually, that is why the wetland regulations are so bad]

N: "the houses have been here since the 1700's ... hurricanes are no big deal here... we just live with the possibility of one [and life goes on]"

#### 4.4.7 Morehead City

##### Free-listing Data

##### Quality of Place

ocean  
oceanfront  
water  
water  
waterways  
artificial reefs  
underwater rock formations  
underwater wrecks  
flat sandy bottoms  
beach  
beaches  
climate  
sunshine  
temperature  
baitfish  
bluefish  
clams  
commercial fish  
fish  
flounder  
grouper  
grouper  
lobster  
mackerel  
mackerel  
marlin  
monkfish  
pinfish  
sea life  
snapper  
sportfish



starfish  
toadfish  
tropical fish  
wreckfish  
golf courses  
Gulf Stream  
Labrador Current  
islands  
Shackelford Banks  
national parks  
nets  
people  
recreational activities  
sand dollars  
scenery  
seashore  
wildlife  
bike or walk to work  
clean water  
clean air  
good water access to sounds, ocean, bays  
distinct seasons  
easier lifestyle  
friendly people  
good quality of life  
informality  
good variety of water activities  
inland water access  
laid-back  
laid-back  
laid-back  
long fishing seasons  
mild year-round temperature  
natural beauty  
nice weather  
no people pollution  
not commercialized

people  
recreational setting  
slow pace  
small towns  
spring, summer, winter fishing  
temperate climate  
water quality  
year-round water activities (fishing)

**Use of the Environment**

birding  
boating  
boating  
boating  
boating  
bottom fishing  
clamming  
commercial fish  
commercial fishing  
commercial fishing  
crabbing  
fishing  
fishing  
fishing  
oystering  
recreational fishing  
scallops  
shrimping  
sport fishing  
sport fish  
trawling  
head boats  
dove hunting  
deer hunting  
dive operations

diving  
diving  
scuba  
golfing  
income  
port activities  
recreation  
recreational businesses  
recreationally  
year round outdoor activities  
research  
retirement  
retirement  
retirement  
sailing  
shipping  
cargo moving in waterways  
industrial transport  
swimming  
swimming  
tourism industries  
vacation  
waterskiing  
buy fish  
commercial diving  
dive destinations  
export fish  
go to national parks  
golfing  
import fish  
pack fish  
process fish  
recreational fishing  
recreationally  
run commercial fishing boats  
seashore walking  
sell second homes

sell fish  
selling bait  
selling tackle  
ship fish  
sport fishing  
sportfishing  
tourism - sport diving  
tourism business

**Risk Perception**

central sewer system  
development  
gov't destroy local socio-econ heritage with fishing regs  
gov't destroy fishing industry with regulations  
hurricane  
hurricane  
increase in runoff  
increase in pesticides  
increase in population  
indiscriminant use of shoreline  
influx of big money  
more marinas  
more tourism  
new high paying industry  
offshore oil drilling  
oil drilling  
overpopulation  
pollution  
pollution  
pollution  
prohibitive restrictions on fishing  
shrinking market bec. of regs (e.g. can't sell smaller fish)  
storms  
"license to sell" requirement  
barriers to tourism growth

changing tax laws for recreational vehicles  
changing tax laws for second homes  
conflicting rules and regulations  
deprivation of resource use  
failure to push for tourism  
growth in marshes  
hurricane  
hurricane  
imported seafood  
increase in runoff  
lower water quality  
maintaining septic tanks in Atlantic Beach  
more pesticides  
more pollution of waters  
nothing to replace livelihood of fishing for watermen  
offshore oil drilling bad for environment  
out-of-touch retiree town commissioners  
overpopulation  
pollution  
pollution  
poor planning for development  
poorer planning  
prohibitive commercial and recreational fishing regulations and fees  
radical environmentalism  
storms  
too much commercialization  
too many people  
uncontrolled growth

**PILE SORT DATA**

COMMUNITY: Morehead City  
INTERVIEWER: b  
DATE: 12/2/92  
RESPONDENT CODE: 001.mhd  
HOME: Beaufort (nurse in Morehead)  
USE AREAS: Fort Macon Beach  
LENGTH OF RESIDENCE: 2 1/2 years

**ISSUES:**

- 1) Wastewater disposal from Atlantic Beach to Open Grounds Farm
  
- 2) Trawlers overfishing and not wanting to use TEDS
  
- 3) Proposal to lengthen Beaufort/Morehead Airport to allow for bigger planes

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
d u p q l g ;	superficial touristy vacation qualities
a c b k m v ;	ideal living conditions
s h ;	historical
x t r f n w j o e i ;	aesthetics

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	c b v d n w t s h p g ;	o i m r f ;	q x k a ;	e ;	j l u ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
p o i h g d f a ;	hobbies
t b e j l m q r ;	things to make a living
c n s k ;	tourist activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	l m i a t g f h o s n b e f j ;		c ;		d p q k ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
a b c d f l s w ;	negative human impacts on environment
u e g h i j k m o r t ;	big business impacts
n v ;	natural impacts
p q x ;	politics

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c w l s v p n u o ;		e a d f g h i r j m k ;		b x q t ;

**WHY/HOW:**

- 1) c sudden, devastating impact
- 2) w devastating and negative
- 3) l ditto
- 4) s ditto
- 5) v immediate devastating impact
- 6) p positive impact
- 7) n sudden devastation
- 8) u negative impact
- 9) o devastating to fragile environment



COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE:12/8/92  
 RESPONDENT CODE: 004.mhd  
 HOME: Morehead City  
 USE AREAS: the ocean underwater: wrecks, reefs, jetties  
 LENGTH OF RESIDENCE: 23 years

ISSUES:

- 1) Economy sucks: port layoffs, manufacturing down the tubes
- 2) poverty: lots [in county] on food stamps, especially since red tide
- 3) overregulation of fishing industry: comm. and recreational
- 4) bad county planning with no input from commercial interests
- 5) increase crime rate and drug use from unemployment

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
t w c b n h m f e ;	main reasons why I came here and stayed
x d i o k j p r s ;	secondary reasons why I'm here
g l a v u q ;	other less significant reasons to live here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w t b h f d g l ;	n e x i v ;	c m o k a u ;	p r q ;	j s ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
e f b ;	what I do most
n c ;	what I do some
t r l j ;	what I do a little
s o ;	what I rarely do
g d a i h k m p q ;	what I don't do

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	e a m ;	g b h t q r l j ;	C D F I P ;	n k o ;	s ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
h v c s f w ;	most significant change
m d o u g ;	big change but less significant
a l r ;	moderate change
i b p ;	small change
q e j t k x n ;	insignificant change

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	w v c s f h ;	m d o u g ;	a l r ;	i b p ;	q e j t k x n ;

**WHY/HOW:**

- 1) w poor planning of fisheries effects entire economy here
- 2) v whole economy goes to hell
- 3) c real environmental danger
- 4) s regulations needed to keep people in line
- 5) f look at New Jersey, Norfolk marshes, rivers foul
- 6) h threat in sensitive region, ex: dunes bulldozed in late 70's, destroyed maritime forests, opened vulnerability to hurricanes

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/8/92  
 RESPONDENT CODE: 005.mhd  
 HOME: Morehead City  
 USE AREAS: Cape Lookout out to 30 miles underwater  
 LENGTH OF RESIDENCE: 3 years

ISSUES:

- 1) Coastal development
- 2) fisheries management: gov't wants more, fishermen want less
- 3) increasing tourism
- 4) TEDS controversy

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
r d n f o t i e ;	natural attributes of area
u a b v x c k ;	"perceived" qualities
w j h s p m ;	observable qualities
q g l ;	leftovers, no category

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	notqhvwucufeg;	kilw;	jbdsp;	mar;	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
qsn ci;	land-based activities
ko;	on-beach activities
eh;	boats
rltjma;	seafood industry
gdbfd;	physical contact with ocean

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	shnejagdf;	oltmb;	cr;		qikp;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
v n ;	totally natural
x i g k u d e j f a r ;	physical changes
p s t q ;	governmental stuff
m c b h l o w ;	environmental activism issues with little scientific basis

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n t l ;	a g p c o w ;	v x d q h ;	k e j f s b ;	i u r m ;

**WHY/HOW:**

- 1) n will wipe out development on barrier islands
- 2) t people won't want to invest or travel; will cut down on tourism business
- 3) l this is a big fishing area; would be devastated

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/8/92  
 RESPONDENT CODE: 006.mhd  
 HOME: Atlantic Beach  
 USE AREAS: Atlantic Beach and ocean  
 LENGTH OF RESIDENCE: 10 years

ISSUES:

- 1) sewerage treatment problems
- 2) need for more tourism
- 3) control of development in environmentally sensitive areas

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
q l e g ;	recreation; fishing
n t h r s d f i ;	reasons to live here
k a ;	people's attitude that live here
x v c u j b m ;	people's lifestyles
o w p ;	nothing to do with anything

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	q n l e g ;	k a ;	t h r s d f i x v c u j b m ;	o w p ;	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
i s c n ;	educational uses
f g m b h e a p d ;	water-related uses
q ;	deer hunting
r j l t ;	commercial fishing
o k ;	beach recreation

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	f g m b h e a p d ;	r j l t ;	i s c n ;	q o k ;	



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
b d ;	waste management
q t j e ;	politics
w c f a s m ;	environmental pollution
o ;	too many people
x ;	recycling
v n ;	acts of God
r k g u ;	promote jobs/tourism
i h l p ;	stricter regulations on tourism/environment

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n v ;	m s a f c w ;	l p i b d ;	h o x ;	q e r g u k j t ;

**WHY/HOW:**

- 1) n can wipe everything out
- 2) v can wipe everything out environmentally

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/4/92  
 RESPONDENT CODE: 020.mhd  
 HOME: Morehead City  
 USE AREAS: Municipal park in Morehead to fish in Bogue Sound  
 LENGTH OF RESIDENCE: 74 years

ISSUES:

- 1) TEDS destroying shrimper livelihoods; turtles made more important than people
- 2) Drug problems in Morehead City
- 3) development of wetlands
- 4) retiring mayor; tussle on who's next

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
h a k t v c x f b u ;	pertains to people and town
i d q n e r l g ;	pertains to beaches and fishing
o w s p j m ;	doesn't relate to my community

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	v t u b n k ;	i d q a e r l g c f x ;		m j s w o h ;	p ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
s n p b h o f q g r m d ;	recreation
l t j a e ;	livehoods
k i ;	sports that aren't so popular here
c ;	educational purposes

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j ;	e a t l s n d m r g q f o h b p ;			c i k ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
n a w q j e g k b d v p i l t s ;	would change environment drastically; good and bad
r c x m f o u h ;	probably would not happen here

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n w b t ;	a j e g k d v p i l s ;	q ;		r c x m f o u h ;

**WHY/HOW:**

1) n particularly serious

2) w ditto

3) b ditto

4) t effects poor people

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/10/92  
 RESPONDENT CODE: 021.mhd  
 HOME: Morehead City  
 USE AREAS: ocean, 200 miles up and down offshore  
 LENGTH OF RESIDENCE: 28 years

ISSUES:

- 1) overregulation of commercial fishing industry
- 2) big trawlers "most out-of-state" tearing up NC bottom with roller rigs
- 3) out-of-state fishermen taking over bottom with long-line gear

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
k a v f p r n o l g e j u t q i c m d h x b w s ;	about the people and the area

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	k a v f p r n o l g e j u t q i c m d h x b w s ;				

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
o a r l q k d h j t n s i e p m g b f c ;	all popular activities here

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	o a r l q k d h j t n s i e p f m g b c ;				

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
f h i s a g u b p m n c q t w ;	would hurt us (the community)
l r o e j d v k x ;	wouldn't make much difference

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f h i s a g u b p m n c q t w ;		l r o e j d v k x ;		

**WHY/HOW:**

- 1) i limits fishing areas and is disruptive; copters buzz you and jets scare you to death
- 2) h hurts fishery stocks
- 3) f hurts fishery stocks
- 4) c destroy the world with an oil spill
- 5) w hurts stocks and fishermen
- 6) t poor people live on the coast and can't pay huge taxes
- 7) q more taxes?
- 8) n natural disaster
- 9) m no comment
- 10) p no comment
- 11) u no comment
- 12) g no comment
- 13) a no comment
- 14) s no comment

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/10/92  
 RESPONDENT CODE: 022.mhd  
 HOME: Morehead  
 USE AREAS: Morehead to 50 miles offshore; Hatteras to Topsail  
 LENGTH OF RESIDENCE: 6 years

ISSUES:

- 1) Commercial fishermen losing livelihoods
- 2) Snapper-grouper size limitations unreasonable
- 3) Coast Guard not giving vessels time to conform to regulations
- 4) NMFS imposing TEDS and destroying shrimpers
- 5) Endangered Species Act overemphasizing turtles over people

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
k c i l t g ;	commercial fishing
d x b v f n ;	describes this area in general
u w h r e ;	least important area attributes
j m q s o p a ;	other



SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	tgilnde;		kcfxha;		vbuwrposqmj;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
ljtrefmo;	what I do
kqdhapgsbcni;	what I don't do

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	jl rtea;		domficbgh;		snpqk;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
fwhnuscvaqlq;	most important; greatest impact
oimbgxkdjert;	less of an impact

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f w h n u s c v a p l q ;	o i m b g x k d j e r t ;			

**WHY/HOW:**

- 1) f too much sewer waste, etc.
- 2) w policymakers not studying situation enough before regulating it
- 3) h means less areas to fish
- 4) n could wipe us out
- 5) u less area for net fishermen, oysters, clamming
- 6) s harms fishing
- 7) c spill would endanger offshore fishing
- 8) v wipes out shellfishing
- 9) a kills nursery area; clams and oysters
- 10) p puts men out of work
- 11) l brings on quotas
- 12) q Gore is an environmentalist, ESA not realistic, environment over people

RESPONDENT CODE: 030.mhd  
 HOME: Morehead City: Crab Point  
 USE AREAS: Estuaries: Newport River, North River, Core Sound  
 LENGTH OF RESIDENCE: 15 years

ISSUES:

- 1) Decline in water quality
- 2) pollution from development
- 3) enforcement of TEDS in inside waters
- 4) loss of shellfish bottom

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
a w r o b m g c d n i t v l ;	reasons why I live here
h x u f p s e ;	why others move here
k j ;	not true
q ;	my favorite hobby

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	h x u f r o b m t q v w i d a n c g ;		l e ;		k j s p ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
m s h i n ;	tourist activities
k d ;	big money sport
c ;	education purposes, big state money
r t j q g b a e o f l p ;	activities important to me

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	p l f o e a b g q j t r ;	m d k h c ;	s i n ;		

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
q ;	politics: who cares?
n t o i m b g u k d j h a e f v c ;	hurts us; no control over these
l ;	due to lack of management
p x r w s ;	would effect me maybe for the better

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c v f e a h j d k u g b m i o t ;		l ;	q s n w x r p ;	

**WHY/HOW:**

- 1) c more development to put it here (refineries etc), spill devastating
- 2) v natural, can't be helped
- 3) f can be helped
- 4) e makes channel narrower for vessels
- 5) a destroys water quality
- 6) h development bad in fragile areas
- 7) j causes runoff
- 8) d causes water quality problems
- 9) k hire, then leave and lay-off when business slows
- 10) u closes shellfish, commercial off-limits
- 11) g too many people
- 12) b more recycling needed
- 13) m more runoff, sewer, etc.
- 14) t takes money from me

RESPONDENT CODE: 053.mhd  
 HOME: Morehead/Radio Island  
 USE AREAS: offshore from Hatteras to Cape Fear  
 LENGTH OF RESIDENCE: 26 years

ISSUES:

- 1) Too many regulations that fishermen can't afford
- 2) Wealthy sport fishermen and sport organizations pushing commercial fishing out so they can have sport
- 3) Unreasonable size limits that promotes waste; dead fish thrown back in rather than eaten
- 4) Coast Guard imposing expensive regulations and fines; not giving fishermen enough time or notice to conform

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
w m j u o q g f c l s t i d r a b k n v x h ;	true attributes of this area
e p ;	less true of this area

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w m j u o q g f c l s t i d r a b k n v x h ;	e p ;			

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
q j ;	not tourist activities
e p g n i b h k m d r l t a s o f ;	weekend activities for non-permanent residents
c ;	education

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	j q ;	e p g n i b h k m d r l t a s o f c ;			

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
d a o f w h p t k u s l ;	bad for us; I disagree with this happening
n v ;	these happen and are bad but can't be controlled
h j m ;	we can do something about these; workable solutions
e r c x g q i ;	agree with these; they can't hurt and could help

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	f w h p t k l s u o a d ;	v n ;	m j b ;		i q g x c r e ;

**WHY/HOW:**

- 1) f kills shellfish
- 2) w bad water quality
- 3) h condos and such; close fishing area
- 4) p puts us out of business
- 5) t we can't pay what we have now
- 6) k Atlantic Veneer etc. brings in outside workers
- 7) l hurts us
- 8) s this would destroy everything; hurt us
- 9) u too many tourists now
- 10) o condos and such; close fishing area
- 11) a runoff destroys shellfishing; Open Grounds
- 12) d "



COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 12/11/92  
 RESPONDENT CODE: 054.mhd  
 HOME: Morehead  
 USE AREAS: sounds for netting fish; beaches for shelling  
 LENGTH OF RESIDENCE: 3 years

ISSUES:

- 1) closing of manufacturing businesses (Bluebell, Conner Homes); leaving need for jobs
- 2) decline of commercial fishing due to governmental intervention
- 3) state and gov't policymakers lack of communication with commercial fishermen
- 4) need for a United Fund system to help coordinate community service fundraising

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
o f k d i ;	pertaining to climate and environment
b u m j c l p x h a ;	quality of living
g r t e n q ;	recreational qualities
w v s ;	personal inclinations

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	a ;	b u m j c l p x o f k d i g r t e n q v w ;			h s ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
j q d s b f t h i l n m g p e o a r ;	things I do
k ;	done here but not by me
c ;	educational purposes

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	c o e m b a j f n ;	p r s d q l i h t k c ;			

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
m o b n v p w u a h l f d s ;	very detrimental
j e ;	beneficial for safety
g i r c ;	very beneficial
t k ;	bad for local businesses
x q ;	makes no difference

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	c i r g s d f l h a u w p v n b o m ;		t k j e ;		q x ;

**WHY/HOW:**

- 1) c beneficial economically in providing jobs
- 2) i ditto
- 3) r beneficial to provide better ocean access
- 4) g beneficial for local economy
- 5) s destroys fishing
- 6) d detrimental to environment
- 7) f destroys fishing
- 8) l depletes stocks
- 9) h hurts environment
- 10) a ditto
- 11) u ditto
- 12) w destroys economic and social heritage [comm fishing]
- 13) p ibid
- 14) v uncontrollable natural disaster
- 15) n ibid
- 16) b strains city/county governments
- 17) o strains infrastructure
- 18) m depreciates value of property

COMMUNITY: Morehead  
 INTERVIEWER: Liesl Schemthanner  
 DATE: 12/4/92  
 RESPONDENT CODE: 056MOR  
 HOME: Carteret County: Live in Newport, freq. go to Morehead/Beach  
 USE AREAS: piers, beaches, parks  
 LENGTH OF RESIDENCE: 6 years

ISSUES:

- 1) "Saving the wetlands" "hate to see it change; it's the next thing to paradise. A great place to live."
- 2) "getting rid of wastewater" [Atlantic Beach sewer to Open Ground Farms-Issue]
- 3) "Stop development right on the beach; need to be environmentally conscious." This also contributes to higher taxes when they have problems in these development areas, e.g., county has to pay for fixing sewage problems.
- 4) "crime: need better police surveillance."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
A M H J W P X C V I B D F ;	"make it a great place to live"
T N R E L Q G ;	"[these cards] talked about water-related things"
F O S ;	"not really true or descriptive of the area"
U ;	"describes the life style here"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	S I F P D U K N H J C B R L T M A ;	V G ;	Q ;	O S E W ;	;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
D A P H F O I G K Q E B S ;	"Fun and recreation...tourists and locals do"
R M L T J ;	"all commercial activities" "commercial activity is less common than recreation"
C ;	"education is not good in the county...highest drop out rate...education is awful here"
N ;	"takes traveling to go do, for example, go to Fort Makon"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	E M N Q A H F O S ;	R L T J ;	P D I B G K ;	;	C ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
T X S F A B D C ;	"problems from humans in the community"
K W V L Q N I ;	"things that can be dangerous to the area"
M U H E G O P J ;	"problems from too many people in the area"
R ;	"not a problem here"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	I N V W D S H U M O C ;	G P J B F ;	A E L T ;	K ;	X Q R ;

WHY/HOW:

- 1)I: if military left it would hurt the economy
- 2)N: could do devastating physical damage to the area
- 3)V: if it happened again, tourists wouldn't come because it scares people
- 4)W: could change the wetlands which would be bad because it would change the whole environment
- 5)D: sending sewage to open grounds may damage the environment down east, but it needs to be dealt with somehow...need more studies.
- 6)S: would promote development of wetlands which would be bad
- 7)H U M O: all from too many people coming here; it should be left the way it is
- 8)C: an oil spill would be bad because it would damage the environment

COMMUNITY: Morehead  
 INTERVIEWER: Liesl Schemthanner  
 DATE: 12/15/92  
 RESPONDENT CODE: 057MOR  
 HOME: West Morehead  
 USE AREAS: water (for fieldwork, "don't use too much for recreation,")  
 LENGTH OF RESIDENCE: 25 years

ISSUES:

- 1) Wastewater, e.g., "Atlantic Beach Sewage: what to do with the sludge."
- 2) "Pollution in general from septic systems leaking into the sound"
- 3) "Commercial-Sport fishing battles"
- 4) "Our construction of condominiums and houses"
- 5) "Tourism and needing better services, for example, there is no local transportation system. We tried several times to get a bus service that made runs to Beaufort or the beach, but Trailways got it defeated."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
O P J R G E ;	"disagree with these things"
U T Q ;	"play group" [things people do for fun]
D I K X W H V C N F B A ;	"depicts the community"
L ;	"Seafood is good.' Don't know what you mean--I don't think the restaurants here are good."
S ;	[disagree] "we have almost no architecture here"
M ;	[somewhat true now, but changing rapidly] "so so, but coming up rapidly"

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	H V Q D ;	W C B A K ;	N M U T O J G E I ;	F L P R X ;	X ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
G K F O P D H B E S I ;	"recreation--for all different types [of people]" e.g., old, young, tourists, locals all can do these things.
Q ;	"a number of people do this in the area"
R T J L M A ;	"commercial aspect [of uses]"
N ;	"tourism aspect [of uses]"
C ;	"education: there is a lot of learning from the environment here. For example, there are 5 marine labs in the area."

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	N M A ;	F O H E R ;	G J B L C ;	P D S T ;	K I Q ;



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
H G K O ;	"all deal with overpopulation; with more people coming in"
N V S F W A D E I U M ;	"these would be the biggest changes and would affect the area the most. They would change the outlook of the area and the physical environment."
X B T ;	"people would look at [these things] in monetary terms: costs them money."
L P ;	"fishing problems for both commercial and sport fishing"
R C ;	"only the environmentalists are interest in these things"
Q ;	"doesn't apply at all"
J ;	"a political football; [infrastructural improvements] only happens when people are trying to get re-elected."

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	O M H T D ;	P N G I S ;	E A W V ;	L K X U F C ;	Q J R ;

**WHY/HOW:**

- 1) O M H D: all affect the water quality: "sewage is a problem because of the high water table; septic tanks are overflowing and seeping in the ground water; this is changing water quality." The land application (to Open Grounds) of wastewater (from Atlantic Beach) would be okay if planned carefully and monitored, but "ocean outfall will ruin the tourist industry here--a 12 million dollar industry." "The best thing to do would be to control construction and population on the islands." The way it is now is "wherever they [developers] have a space, they do what ever they want. Sewage disposal is a problem."
- 2) T : "effects the area drastically: if there are higher taxes, the people will sell off their homes and land to Raleighites... it chases the locals out and changes the composition of the community."
- 3) I: military activities could change the community in still-unknown ways because of their overflights and war games, although their presence is good for the economy.
- 4) F: is less likely to change the community because we have no industry here and are unlikely to get much new industry.
- 5) C: wouldn't worry about the drilling affecting the community, but the shore-related activities might have an effect. Some people worry about oil slicks; but most people are concerned about jobs, and there might be some created, but who knows if they'd be filled by locals. It might bring more people in. If there is an oil slick at the drill sight, the gulf will take it north so the people in New Jersey should be concerned. If there is a spill that ends up on the beaches, tourism would be devastated.

COMMUNITY: Morehead  
 INTERVIEWER: Liesl Schermthanner  
 DATE: 12/11/92  
 RESPONDENT CODE: 058MOR  
 HOME: Carteret County, the Morehead-Beaufort Area  
 USE AREAS: sound and beach (fish and swim)  
 LENGTH OF RESIDENCE: 4 years in Morehead; all life in Beaufort

ISSUES:

- 1) Economy/number of jobs: "There aren't any."
- 2) Fishing (goes with economy in #1): "too many regulations; its killing the fishermen" and fishing is a source of employment to a lot of people. "The fishing industry is dying."
- 3) Crime: "the drug problem is growing" particularly in Morehead.
- 4) Overcrowded: "both from tourists and people moving in... traffic is always bumper to bumper."

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
P M O J X ;	"all incorrect statements...all opposite of the truth."
H B S W V C A F ;	"describe the town"
Q N U D R T I K E ;	"describe the local environment"
L ;	[true] "all food is good here"
G ;	[somewhat true] "commercial fishing is not good [as it used to be], but surf fishing and pier fishing okay."

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	H S W F A V C B L N T I;	U R K ;	D Q ;	G E ;	P J M O X ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
K C ;	"done only in the schools"
J R L T ;	"related to commercial fishing, and all [this type of fishing is] bad right now"
Q ;	"popular...a way to get food" [for locals and people who travel to the area to hunt]; "there's good hunting up in South River."
I N A S O B G H D P E F M ;	"all popular and are [activities] done by locals"

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	D E F M G P H B O S A ;	Q J R L T ;	;	I N ;	K C ;

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
E Q J R U ;	"don't need any more of these things...shouldn't develop land which would be a natural resource just because its beautiful. I hate to see the trees cut down for building development."
M C ;	"don't know much about, but if it [offshore drilling] helps create jobs and is safe to fishing, then okay, but it needs to be carefully planned, then okay." "unplanned development of any kind is bad."
T S ;	[things that are bad for the economy] "don't need higher taxes—that's what's wrong with the economy. And environmental regulations are good—we need to balance the environment with the economy."
G K O H ;	"We already have too many people, [so we] don't need more of these things. I'm for growth, but the right kind: no shopping centers and over development."
P L ;	"not true: the water is not overfished; regulations are too strict."
V N ;	"natural disasters"
W F B X ;	"deal with environmental precautions or necessities for precautions."
D A ;	"major problems here right now"

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	ILPMOHGCTNV;	K;	SDA;	QW;	JRUExBF;

**WHY/HOW:**

- 1) I: Cherry Point employs a lot of people, so closing it down or cutting down activity there would hurt the local economy.
- 2) L P: The fishing industry is dying. It employs a lot of people. It is their livelihood, so you can't just retrain them to do something else. The problem is farmers stick together; fishermen cut each other's throat. They just won't organize together to help themselves.
- 3) M O H: brings in too many people; the area can't handle it.
- 4) G: brings in more money to the area, so it is good for the economy, but it needs to be planned for so it doesn't ruin the area.
- 5) C: would bring in new industry, new breed of people, more jobs. This would be good as long as it helps the locals--no like Atlantic Veneer that is employing Brazilians and such and not really helping the locals much.
- 6) T: this chases the locals out, and that is bad.
- 7) N: damages property, bad for fishing: buries clams and oysters.
- 8) V: bad for fishing: even if it only effects shell fish, the whole industry suffers because people get scared.

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 1/5/93  
 RESPONDENT CODE: 060.mhd  
 HOME: Beaufort; work in Morehead  
 USE AREAS: Taylor's Creek  
 LENGTH OF RESIDENCE: 12 years

ISSUES:

- 1) need for economic development; tourism is not the total answer
- 2) need for more production industries; mixture of high-tech and manufacturing; non-polluting industry for jobs
- 3) high drop-out rate in county high schools; attracts no or wrong kind of employers
- 4) industries' reluctance to relocated here because of coastal "playground" image
- 5) community college "selling a product nobody needs"; graduates find no local jobs; welding/automotive programs eliminated because of lack of funds and interest

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
x v s h c b a ;	community and sense of pride in community
u t q n f l g ;	where one lives; quality of things here
o w p m j ;	physical perimeters
e k i r d ;	environmental qualities

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	w m o g l f n t u v h c b a k d x q p j ;			s r e i ;	q ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
t r m l j a ;	fishing and water-related
o p h g f e d b k ;	beach and water activities
i q s n c ;	can happen anywhere

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	t r m l j a            o p h g f e d b k i q s n c ;				



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
x d a b f u n v ;	natural and man-made problems
o g t k ;	economic conditions
r e j m h ;	construction stuff
c l p s w ;	regulated things
q i ;	don't know

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	v n t c w i x u ;	d a j m h l p s ;		b o g k r e f ;	q ;

**WHY/HOW:**

- 1) v natural disaster with tremendous impact
- 2) n ditto
- 3) t need increase to improve county schools
- 4) c job impacts (positive) and potential for destruction (negative)
- 5) w fisheries decline
- 6) i county employment; devastating if declines
- 7) x helps us with landfill problems and so on
- 8) u takes up water space

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 1/5/93  
 RESPONDENT CODE: 061.mhd  
 HOME: Morehead City - Mitchell Village subdivision  
 USE AREAS: Shackelford Banks  
 LENGTH OF RESIDENCE: 10 years

ISSUES:

- 1) poor planning for sewer problems; need county wide system
- 2) lack of employment possibilities; no future for young locally; out-migration for jobs
- 3) lack of progressive thinking in school system; "old line" still employed

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
g q l n t ;	environmental; water-related
d f u r i e k ;	environmental living conditions
s h ;	historical
m w o x p j ;	why people move here; quality of life
c b a ;	describes people in the area
v ;	why people return here

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	abcdefghijklmnop pqrstuvwxyz;				qr;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
phgfedbk;	coastal recreational sports
j;	commercial fishing
l r t m a q ;	outdoorsmen sports
c n ;	educational activities
i ;	bird watching
s o ;	relaxing activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	phgfedbkjlrtaq cniso;				

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
b f d a s u w v ;	things that will effect the environment
t h m r e j x ;	problems pertaining to local government
n ;	messes up everything; stands alone
c ;	government decision effecting employment and possibly environment
g o ;	tourism; people complain about too much and too little
i ;	effects environment and land
p ;	detrimental effects on commercial fishing
l ;	recreational fishermen overfish
k ;	not enough locally-owned businesses
q ;	unknown

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	n ;	b a u f w s d l p v ;	c o x r e h m ;	g t j k i q ;	

WHY/HOW:

1) n messes up everything

COMMUNITY: Morehead City  
 INTERVIEWER: b  
 DATE: 1/5/92  
 RESPONDENT CODE: 063.mhd  
 HOME: Beaufort - work in Morehead  
 USE AREAS: Atlantic Beach  
 LENGTH OF RESIDENCE: 68 years

ISSUES:

- 1) need for jobs, new industry to keep our people home
- 2) need for better outreach programs such as literacy centers in communities such as North River
- 3) need for parents and community leaders to cooperate for the development of youth recreation centers in areas such as North River

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
g l n t d f u e k h s q r ;	seashore qualities
i j a b c v p x ;	community attributes
m w o ;	not true of Beaufort/Morehead City

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	g l n t d f u e k h s q r i j a b c v p x ;				m w o ;

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
o s g f e d b j r l t m a k p h ;	beach activities
n q c i ;	not necessarily coastal activities

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	o s g f e d b j r l t m a k p h n c ;	q i ;			

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
f t o n c h m v p l d a b w ;	negative change
u s x j k i q r e g ;	things to improve the area

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	t w c p n f l d b k i ;	a e g h j m o q r s u v x ;			

**WHY/HOW:**

- 1) t no industry here so people can't afford to pay their bills or higher taxes
- 2) w we should use are natural resources in non-polluting industries; e.g. seafood canneries, fish processing, etc.
- 3) c risk of pollution
- 4) p commercial fishing going under; too many uncalled for, restrictive policies
- 5) n can't block Mother Nature; that's God's business
- 6) f industries pollute water and fishermen get blame/restrictions
- 7) l undersized fish harvested because there's not enough resource to go around
- 8) d don't know much about this
- 9) b ditto
- 10) k positive; bring in large employers, not fast food chains
- 11) i means employment and harrassment with land restrictions, loud planes, etc.

#### 4.4.8 INLAND-BASED COASTAL USER GROUPS

##### PILE SORT DATA

USER GROUP: Atlantic Coast Conservation Association

INTERVIEWER: Y

DATE: 12/15/92

RESPONDENT CODE: acca02

HOME: Winston-Salem

USE AREAS:

PERIOD OF USE (IN YEARS): >20 years

Past President - Atlantic Coast Conservation Association of North Carolina

Helped start ACCA

Protect and promote enhancement of marine resources

North Carolina and voice of salt water anglers

Membership greater than 2000

Nationwide coastal conservation association

meetings every two months - Executive Board monthly meetings

not lobbying! is conservation oriented

Greenville, Fayetteville, Goldsboro all have chapters

Activities - Tag and Release King Mackerel Tournament

Take individuals - "courting" for monetary support

chapter set up from Outer Banks to Ocean Isle area

THE BIG ISSUES (In order of perceived importance by informant):

- 1) Marine fisheries - fishery stocks; 14 of 22 species that monitored on decline stressful new situation
- 2) wetland protection, water quality, destruction of wetlands private and public use
- 3) coastal hardened structures - implementation and placement (jetties)/ beach erosion



PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
B H S	architecture/history; coastal towns are historical
F E R O P I D W J M X U	reasons like to go to coast - unless Menhaden Factory going - not much traffic - lots open spaces - natural beauty
Q N T G L	tied to water/fishing/water related
V A C K	people share sense of community, family ties, environmental conscious; people related things

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	A L N V I X M U Q S J D F S H T P C O B T R	W K E	G		

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
K G F E O D P B H	basically items that people come to coast - stay on beach - in sounds, inshore for recreational purpose
C N I S	group not want to be on beach/swimming/ do these things
M A	recreational activities
L J T R	primarily commercial fishing - oystering, crabbing
Q	where to put - lot done around Morehead City; not truly water related

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	H O G F E S N M A	C D P B	I K R T J L	Q	

Pile 1:

Pile 2: Xseparate

Pile 3: Iseparate

Pile 4:

Pile 5, 6, 7, 8, 9 N/A

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
O J U H B G K E	all fit in a similar theme - ties in with overdevelopment, more bridges to Sunset Beach - more tourism - more marinas - landfills get full
X	separate
I	separate
M	by itself - not too many areas not scrutinized - marina permits take 2-5 years
T Q	Clinton and higher taxes
R	jetties by self
W L P	group tied in with - not managing resources; overfishing - need stricter regulations
N V	natural disasters; no control, acts of God
D F A C S	water quality related allow offshore drilling, create possible catastrophe water runoff industrial pollution sewage problems - housing developments all water quality

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	V R N W L P M H	D F A C S B O G	U E	Q T I X K J	

**WHY/HOW FOR PILE ONE ONLY:**

- 1) V - negative - economic loss millions (4-6)
- 2) R - negative - result in beach erosion - rob Peter to pay Paul  
Oregon Inlet - dramatically affect fisheries  
decline - open more boats & gear attack
- 3) N - negative - not help friend/foe  
take property & beaches
- 4) W - negative - if don't manage resources will go away - that's  
why going to coast
- 5) L - negative - economic value \$250 million/year; recreational fishing; destroy by depletion
- 6) P - positive - substantial effect - effect if replenish resources will be great
- 7) M - negative - unplanned development - ruin wetlands, back to more pollution - property loss down
- 8) H - negative - overdevelopment - too many people/trash sewer problems/water quality problems

USER GROUP: ACCA (Atlantic Coast Conservation Association)  
 INTERVIEWER: Y  
 DATE: 12/22/92  
 RESPONDENT CODE: ACCA10  
 HOME: Greenville  
 USE AREAS:  
 PERIOD OF USE (IN YEARS):

THE BIG ISSUES (In order of perceived importance by informant):

- 1) gear reduction - certain waters. barrier islands inland
- 2) license to sell
- 3) regulation of surf fishing - "commercial free zones" - no net within 2 miles of recreational anglers  
nets killing outer banks as economic issue

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
A K R J V W M C B P	deal with community
E	disagree - no place to put
D F T X I O N U	natural beauty, lifestyle
Q	
S	
H	
G	
L	all separate

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	A V O N D F T X I	B W U H L	J R Q	C K E G	P M S

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
FOARTJHBGEIMCL	things people do on coast
DP	do around water - ocean not good place -- more wind surfing inland
SN	some people do on beach
Q	no one beach to deer hunt - across inland water great
K	maybe lay on beach, play volleyball - not very important

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	H J T R A O L M I E G B	S N F D C	K P		Q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
K T H B M E U O J S G W D L	all bad things bring serious change. all concern unplanned and overdevelopment. bring in more population than area can handle
A V F	pollution problems that may bring change
C R	just different emphasis not opposed to either - take on different flavor. jetties more port traffic; drilling - different population base - people in oil business
X P	things will help - bring population in
Q	no idea effect Clinton administration
I	military no effect
N	major position economic impact. Southern Miami - Marathon Florida \$10 billion into economy, Hugo \$3 billion into economy. creates jobs. massive spending. devastating - take care unemployment

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	W G S L P	D X R J M E O H	B K U A F	T N	C V Q I

**WHY/HOW FOR PILE ONE ONLY:**

- 1)W - negative - less people - significant change
- 2)G - positive - people spend money enjoy recreation
- 3)S - negative - tourism will drop - want see pristine ocean. less \$ being spent
- 4)L negative - Outer Banks - primary draw is fishing - if not catch not willing to spend that kind of money. Boat is expensive, minimum of \$400 in fuel to go fishing
- 5)P - positive - significant

USER GROUP: Atlantic Coast Conservation Association (ACCA)  
INTERVIEWER: Y  
DATE: 12/21/92; 1/6/93  
RESPONDENT CODE: ACCA15  
HOME: Greenville  
USE AREAS: Atlantic Beach, Hatteras (also Swan Quarter, Englehard areas  
PERIOD OF USE (IN YEARS): all life

THE BIG ISSUES (In order of perceived importance by informant):

- 1) economic development in eastern North Carolina, along the coastal area lack of opportunities for young - Hyde, Tyrell- Washington counties. no future on coast. drilling is resource and economic issue
- 2) water quality - seen degradation over years. extremely disturbed by the state of water resources. family interests have impact on water (chicken, swine, tobacco) runoff concern and trying to be good stewards for the resource. Need more emphasis - need happy medium - regulations to protect and resources use.
- 3) impact resources fisheries and growth in population  
overdevelopment - population and technology impact waterways - storm, municipal sewer, industrial pollution. Texas Gulf and Weyerhauser got away [pollution for years, now changed]  
[concerned with] pressure on fish stock - more years commercial and recreational fishermen have electronic gear - fish have no chance. the number of people using this resource. In past fished at the sea buoy and at a grouper hole - now hundreds of boats at the sea buoy and no grouper in the water. What about our children? Will they be able to experience the North Carolina I have grown to love?

Water quality and resource issue - fisheries themselves.

As a member of ACCA I want balance in the equation where in the past state government has listened to who shout loudest and who had the biggest pocket book. Texas Gulf and Weyerhauser went unchecked - now changed. Large part commercial fishermen live for today. don't worry about tomorrow. Through proper resource management they have a future. I understand that they are trying to survive. Perhaps if other opportunities were available...The state put a new prison in Elizabeth City - that creates a lot of jobs, is a clean industry, increases payroll that should attract groceries, a doctor to the area, ...

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
L N T I E R G	major priorities when go to beach, fishing not that great anymore; clean beaches high priority, work hard and play hard, water important
Q F O W P M	good surfing here, lower priority, natural to region, aesthetic values - ocean is only open space, rural areas Hyde county, natural beauty. Quality items
V J B D X	things that make eastern North Carolina so special; able to get away, still a lot of isolated areas, 30 miles offshore; Vandemere area is special - peace and quiet; climate is mild
K A V C H S	things unique to region - mainly people and buildings unique to eastern North Carolina - beliefs, accents, ways, architecture and buildings relate to history - flare about it you find at Corolla and other coastal towns

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	I O M P W J B D X C	G T N L F V A	R E U S H	Q K	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
E A Q T M	highest priority for family - what derive from coast
O F R	next priority
C S N J L	next priority
B D P K H I G	next priority for me personally and for family

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	S O F E	P H J L R M T Q A B	D G N	C	I K



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
F D C U H O M W L S E A J V	all negative for coast; most concerned about as far as this group (of cards) goes
P R	consider positive - favorable - like to see happen - for stricter fishing regulations - construction of jetties at Oregon Inlet - almost sunk my boat there and will not go out the inlet 'til the jetties are built
G	by itself - good for people who live in Dare and Carteret counties. Don't like it but don't have a problem with it
X B	jointly related; land fills filled/recycling helps
Q N T K I	things beyond control - don't worry about it

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	O C U F D N G P W L E	M H U J A S R		I K T	X B Q

**WHY/HOW FOR PILE ONE ONLY:**

- 1) N - negative - depend on severity - very drastic change
- 2) G - more than moderate change - could be positive or negative
- 3) P - more than moderate change - positive
- 4) W - poor management of natural resources - negative - more than moderate change
- 5) L - overfishing - negative - more than moderate change
- 6) E - construction of bridges - positive - extreme impact
- 7) O - too many people - 50/50 negative way stated - extreme impact
- 8) U - negative - more than moderate
- 9) C - negative - moderate change
- 10) F - industrial pollution - negative - moderate
- 11) D - negative - more than moderate change

**Additional comments:**

need to be a balance with growth and prosperity and the protection of our natural resources. Due to the fragile nature of coastal environment feel that existing policies and regulations need to be looked at with fresh approach and new ones put in caps so not studied to death. we've studied a lot of problems way too long and need to take action. Like to see more balanced representation among committees and regulatory commissions if possible appointees better balanced to better reflect the overall population of North Carolina. Want to see a future for coastal residents for eastern North Carolina. Do not want to place the desire for rapid growth above protection of natural resources. If that desperate can move to Greenville and Raleigh - Quick money on the coast will pay the price for decades. Although offshore drilling will have an economic impact in the short term, fear that if an accident to occur it would permanently damage the coast and threaten the livelihood of motel owner, restaurant owner, commercial fishermen, etc. Economic impact needs to be weighed into the equation.

RESPONDENT CODE: acca50  
 HOME: Raleigh area  
 USE AREAS:  
 PERIOD OF USE (IN YEARS):

ACCA is 4-5 years old

THE BIG ISSUES (In order of perceived importance by informant):

- 1) poor water quality in sounds - doing to shellfish and other fish is real key problem
- 2) from fishermen standpoint - decreasing quality of fishing - increasing pressure diminishing species.
- 3) commercial over harvest juvenile fin fish - taking fish whether by-kill or deliberate going after scrap
- 4) User conflict between recreational fishermen and commercial fishermen going after the same catch. Recently at Oregon Inlet commercial fishermen came in with nets where surf fishermen were catching fish. Boats right beside the Emerald Isle Pier. Anglers/recreational fishermen will see a backlash
- 5) lack of access by surf fishermen to beach unless National Seashore. more towns closing to beach buggies or can't park in front. Unless on a pier or on a boat can't fish. Emerald Isle and Pine Knoll Shores are good examples of the declining access.
- 6) EROSION - Nags Head to Topsail Beach - can't do much about it
- 7) Don't complain about marinas and buildings - but infringement on barren areas by building up

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
G L H C V N T A X U K R E	mean most - more important things come to mind about what enjoy at coast
Q M T S D I W O P B J	Less important about what enjoy at coast. Don't think about crime rate.

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	GLHVNAFKQD	CXIBO	RES	MJ	TWP

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
Q	by itself
ME A	recreational fishing related - sport fishermen
JL TR	commercial fishing related
PHGDBFOK	water sports - people play at beach
CNSI	people enjoy about environment at beach. Bird watching, see Canadian Geese/water fowl, boats and hunting

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	SIHGFOJMEA	NDBLTR	CPK		Q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
L P	fishing related - work hand-in-hand
N V	Natural disasters
R C	future disasters
M J O U T D G K E	current disasters
S A F H B W I	environmental disregard
X	something that's needed
Q	don't know where went

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	R X A L N	M B V O D F	S E U W C K H	G J T	I Q P

WHY/HOW FOR PILE ONE ONLY:

- 1) Hurricanes obviously - some extent temporary damage - hotels damaged makes difficult lengthy stays - erosion - Northeasters can have significant damage - one organized weekend when one forecasted everyone went home - \$100,000 left the area because of weather forecast.
- 2) Jetties - lose one of best fishing spots, Oregon Inlet. Boondoggle, increase commercial pressure on fisheries to point have collapse.
- 3) Farm run off - Number 1 problem with water quality - going to reduce nursery areas - ell grasses and sea grasses habitat
- 4) Overfishing - people like to fish and to eat fish. Can't allow to continue to be abused. Businesses in boats, marinas. loss then trickle down through communities.
- 5) Losing beaches to people who buy in - no longer access
- 6) Recycling positive effect - less in land fills, Keep stuff out of water, landfills, sounds. Should be done everywhere.

USER GROUP: North Carolina Coastal Federation  
 INTERVIEWER: J  
 DATE: 12/11/92  
 RESPONDENT CODE:DCP102  
 HOME:  
 USE AREAS: Visit outer banks  
 PERIOD OF USE (IN YEARS): 10 years

THE BIG ISSUES (In order of perceived importance by informant):

- 1) maintain traditional coastal lifestyle
- 2) maintain employment related to natural resources
- 3) preserve the area for future use (generations)

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
H T G L	History, lifestyle of fishing, enjoyment of harvest
V F E	Environment, and people, quality of environment
P N I B	small town atmosphere with clean environment, less pressure needed on fragile environment. Small town atmosphere gives you that
S X J A	speaks to overdevelopment; people responding to it because of sense of community
C M O	People who are free of urban problems
W X V K D	speaks to peace and quiet in a rural setting; people aware of natural ecosystems
O R	speaks to recreational enjoyment

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	K H U B L	F X G M E	V T C A D	P O J I R	Q W N S

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
P F G D B	water (utilization)
I S N C	educational
Q A H E	sporting activity, directed for food
I T R L M	employment
O K	recreational

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	R T L J	M A C	E H N S	K D P G	I O Q F B

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
K G	increase in business will occur with increased tourism
N V	will raise havoc in coastal zone
O C X J R P	Clinton will have to decide on offshore drilling and all the other items here in order to encourage -----recycling
I	have to curtail military bases or work out better management system for growth
T	In order to bring change, might have to raise taxes
U S O L D F M B W A H	all related to deregulation of coastal resources

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	S R U B L A D W	H G O C M	J Q T	E X P N	K I F V

**WHY/HOW FOR PILE ONE ONLY:**

- 1)S - loss of control
- 2)R more erosion
- 3)U more pollution
- 4)B pollution of water
- 5)L depletion of stocks
- 6)A water quality degradation
- 7)D water quality degradation
- 8) W depletion of natural resources



USER GROUP: Ducks Unlimited  
INTERVIEWER: Y  
DATE: 12/10/92  
RESPONDENT CODE: DUC002  
HOME: Raleigh  
USE AREAS: Atlantic Beach  
PERIOD OF USE (IN YEARS): 20 years

**THE BIG ISSUES (In order of perceived importance by informant):**

- 1)Water Quality is most important issue
- 2)Commercial fishing and shell fishing industry seems on a collision course with what we want to see long term and what's happening
- 3)It's being addressed not, but 10 years ago we were losing wetlands- not now. Wetlands need to become more focussed as opposed to the shotgun effect we're seeing now. Also real estate developers are caught in wetlands regulations - Need focus on what truly needs attention.
- 4)Recognizing concern of over fishing and over use of resource - more inshore than offshore

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
A J F O I W X P	The environment, lots of open space
L T G U	basically lifestyle
R E C K	basically things I don't agree with
B N V H M S Q D	things don't make much difference one way or the other

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	O F W I U T B M D	J G L N S H	X A C V Q	P K	E R

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
E P O D H F K	All things really can be done - doesn't take the coast
G R T L M B A	Take the coast to do it
Q	Separate deal; lot done down east
N S I C	not on priority list
J	different activity - somebody's job

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	H F O E	M J Q A	T R L P	B D G S	I K C [N in category by itself]

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
P X	Things will help
S B A W H D F M L	Could definitely hurt if not ----
U C E R	All depends on whether done properly. Could be bad, could be good
Q T	Neither one good for us
I J K O G N V	Things have to live with - Can't worry about them.

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	A D H W M F Q	S L E G O	J K R U B	V C	I N T X P

**WHY/HOW FOR PILE ONE ONLY:**

than focus - need to design and direct efforts.

- 1)Industrial pollution - be water quality - main concern
- 2)Overdevelopment - so much developable land down there
- 3)Sewage problems - again water quality
- 4)Farm run off - again water quality
- 5)Unplanned development - poor anywhere
- 6)Poor management of natural resources - must manage properly
- 7)Clinton administration - jury is out. Afraid more shot gun rather than focused approach

ESPONDENT CODE: DUC003

HOME: Raleigh

USE AREAS: Morehead City, Dare County, Body Island, Pea Island, Nags Head

PERIOD OF USE (IN YEARS): all life

THE BIG ISSUES (In order of perceived importance by informant):

- 1) protection of estuaries - Texas Gulf Sulfur and pollutants in streams and sounds is travesty. Talk about cleaning it up but is mainly lip service. Raping land - Estuaries is birthplace of all in sea. oysters and crabs, can't be eaten. coast needs to do something about it.
- 2) Control growth - too many condos. too small place  
Atlantic Beach and Nags Head probably the same. Afraid greed get in the way. Grow too fast - don't like where live anymore.

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
Q T G	recreational
L F N D E I	environmental reasons
C V B S U W R K P O M J A X H	social and psychological reasons

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	T N F L H	G I D S R X	M Q E U V C K A	B W	O P J

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
T R L B M A H D G S K Q P F I O	sport and recreational
N C	educational
J	occupational

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	M E O F G	D H A R L T B	Q P K	C N I S	J

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
R I E P T C Q	governmental influences
B O V W J S A F D H M U K G L	poor land and population planning
X	positive response
N	natural disasters

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	C H S F W N L O	R G M A B U D	P V X J	K I	Q T E

**WHY/HOW FOR PILE ONE ONLY:**

1) Hurricanes - obvious

2) Industrial pollution - industries not in the area - if it happens would be drastic

3) DEAD AGAINST OFFSHORE DRILLING - Technically can probably do safely - realistically not!

4) Relaxing environmental regulations - happened - fear more so - hope it doesn't (would be significant change)

5) Overdevelopment - happened - fear more so - hope it doesn't (would be significant change)

6) Overfishing - significant change - purely commercial - recreational fishermen don't effect. Keep longline fishing off the coast with the Coast Guard

7) Too many people - can be managed

8) Natural resources - aware of what have - if don't do a good job will lose more than just beaches

Hope learn from past - make some mistakes over - look at Oregon Inlet bridge - Jetties as big a fiasco as the bridge - jetties completely change the face of the beach.

Much more careful development along estuaries.

Farm run off into estuaries is problem - don't know how to stop it.

USER GROUP: Duck's Unlimited and ACCA  
 INTERVIEWER: Y  
 DATE: 12/15/92  
 RESPONDENT CODE: DUC004  
 HOME: Raleigh  
 USE AREAS: Nags Head, Outer Banks, Morehead/Beaufort, Pamlico County  
 PERIOD OF USE (IN YEARS): 20 years

**THE BIG ISSUES (In order of perceived importance by informant):**

- 1) tied 1st (A)        to strike a balance between environmental concerns and economic concerns - tourism and development
- tied 1st(B)        infrastructure - governmental services
  
- 2) environmental impact on traditional income industries, i.e., commercial fishing and farming

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
O B D X V A C W I	my perception how eastern North Carolinians view themselves
M K N F U H	characteristics that I personally think describe area. don't think natives see as descriptive
J S T R G Q	non-people related description of area
E P L	relate to coast I'm familiar with

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	V W H F N	U B D X A C K T I S	O M P R J	E	Q L

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
L J Q R T B M E H A	consumptive
C I N	nonconsumptive, educational
S O	nonconsumptive, recreational
D F G P K	nonconsumptive activities at the beach

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	F Q	O E J	A R H M N S	T L C I D P	K B G

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
V N	not manmade
E C R U	impactors on the water, major impacting water
W A F D S	pollution concerns
X M B J T G O K H	population growth concerns or effects
P L	relates to fishing
Q	unrelated
I	unrelated



SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	H O G M	C U A D J L P	E R W F S K T B S	V N	I Q

WHY/HOW FOR PILE ONE ONLY:

All are negative

1) two leading ones - unplanned development and overdevelopment  
 apocalyptic/awful  
 even with planning have significant change

2) tourism and too many people - significant change

USER GROUP:  
 INTERVIEWER: Y  
 DATE: 12/23/92; 1/5/93  
 RESPONDENT CODE: GW001  
 HOME: Greenville, NC  
 USE AREAS: Morehead City, Hatteras, Ocracoke  
 PERIOD OF USE (IN YEARS): 24

THE BIG ISSUES (In order of perceived importance by informant):

- 1) education and roads - top of list always
- 2) jobs - byproduct - great communities need industries. for job market don't need to drive to Norfolk.
- 3) environmental issues - development versus wetlands destruction - impact on environment
- 4) fisheries resource - don't seem to appreciate true value - depleting resource without regard for tomorrow. Value of fisheries recreationally - incredibly valuable to the state. We need to protect and enhance the resource. agricultural runoff is the primary problem. commercial fishing is wiping out the resource - kill 10 pounds of juvenile fin fish for every 1 pound of shrimp they catch. sport fishermen spend money on motel rooms, restaurants and buy fishing gear --as a result of depletion of the resource, not as once did - very much a "hot button"

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
O J M X P B F W	rural, small town, peace and quiet, not overcrowded, all related, describes areas
C H K S U A V	lifestyle - family ties, seasonal lifestyle - way of life
I E L N T G R Q D	more specific to coastal area - water related - lifestyle along the coast

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	I U H F X O N T	R L V A S K C B D	E M G Q	J	W P

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
O B H P D F G E	all strictly water related recreational activities
Q M L R T J A	more active water related activity. primarily hunting and fishing - gathering of food one way or the other
K I C N S	not as water related - could do that in Colorado

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	J E F H O	S A M G D P B	L R T	N C I Q	K

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
A F D O H M L W B	all imply too much of something - almost certain to cause problems - farm run off largest single source of pollution, <u>too</u> many people, <u>poor</u> management, <u>too</u> key words - real dangers people have not done well in modern times
X J G U E	more infrastructure things that could be good for area. More positive than negative for area. Not necessarily bad - in all probability will happen. Need to be done with good judgment
C R	together because potential negative and very positive effects on areas - both good economically but could be detrimental environmentally
V N	act of God. Can't control - nothing to do about it. very definitely change area
K I	what the hell- will change area --is it good or bad? positive economic impact
S	in all probability could be detrimental. Certain regulations probably need more flexibility but if that got wholesale relaxing of regulations could destroy the area!
Q T	go together. assured of that. no brainer - environmental much tougher environmental enforcement in area of environmental destruction - may do good for environment but could be detrimental economically. (if adopt Gore's proposals)
P	by itself. think need desperately personally

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	A F D O H M L	S G B W	P R C U E V N J	X T Q I K	

WHY/HOW FOR PILE ONE ONLY:

- 1) M - negative - in time bad, in early stages not so bad, ultimately don't have adequate systems to accommodate population
- 2)H - negative - basically same as M
- 3)O same category and H & M, negative - as numbers increase negative progressively increases
- 4)D - negative - but probably to lesser degree - forced to react and something gets done - have to deal with it
- 5) F - negative - probably not as bad as think; first, we have laws to deal grievously situation to be addressed immediately. not allowed to run away
- 6)A very negative - somewhat unchecked - some laws not enforced - not enough manpower - history tells that farmers are voters and politicians not want to come down on farmers. very serious problem
- 7)L very negative - would take last fish without regard or what children will fish for. most unregulated state on east coast with regards to commercial fishing. Example: no close of season for Menhaden during breeding season. Other boats come here at that time.

Additional comments:

Eastern North Carolina is one of the most magnificent areas in the world. We exhibit our product at 88 major boat shows in the United States and abroad. I have never been anywhere on the face of the earth as special as eastern North Carolina. We have the opportunity and obligation to do the right thing. We need to find a reasonable balance. Can't fence the area and keep others out. Must do the right thing - not done that with fisheries - through pollution and overfishing - Look at what happened with the Great Lakes - was a dead sea - introduced salmonoid fishing and it's returned to [health]. In the Chesapeake Bay they had a moratorium on strikers and now you can walk on them. Regulations are painful, but they do work. Need to see what the new administration will do. With commercial fishing interests so active, I will be surprised to see new regulations.

USER GROUP: North Carolina Coastal Federation  
 INTERVIEWER: Y  
 DATE: 12/21/92  
 RESPONDENT CODE: NCCF001  
 HOME: Carteret County  
 USE AREAS: all 20 coastal counties  
 PERIOD OF USE (IN YEARS): personally and organization 10 years

Purpose of organization: Work with citizens to be involved in decision making regarding coastal resources - all 20 coastal counties and then some.  
 50 affiliated organizations  
 3000 individual members the majority of whom are from NC  
 one annual membership meeting; quarterly board meetings, four regional committees meet every two months

THE BIG ISSUES (In order of perceived importance by informant):

- 1) growth management and enforcement of water quality standards - plan population growth
- 2) trying to maintain local environment in face of population growth - economy is dependent on clean environment.

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
N F O D I E L Q G	natural environmental condition; nothing to do with people
J R P X	still relate natural environment; impact people on it
H A M C K S B T U V	human environment

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	H	Q L D F N V T B K A C	G E I O X W R J U S	P M	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
K O P D H E	general recreational activities -- not coastal dependent --occur anywhere
I J A R N M Q F B G L T	activities or uses depend on having a clean environment
S C	activities either way

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	F E S	M A I H O N P Q	G T D C J R L	K B	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
V	just a natural occurrence - no one influence over
Q X	positive efforts toward environmental management
P G K	influences change fundamental social structure of region
T E S W	function of trying not doing good job managing environment consequences
L N	relationship natural environment - impact nature has - population foes - under natural conditions not have problem
R F H I C M D O A U J B	results of poor planning

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	OMFHC	SWAJKGBDUTN	LQXEPRI	V	

**WHY/HOW FOR PILE ONE ONLY:**

1) C - dramatic if oil discovered - change economic base of region - go from fishing and tourism to industry

2) H & M- coastal environmental so much dependent on clean coast - need to maintain coastal ecosystems

3) F - industrial pollution relates to drilling - industry would have a profound impact

4) O - relates to M and H

USER GROUP: North Carolina Coastal Federation  
 INTERVIEWER: Y  
 DATE: 12/21/92  
 RESPONDENT CODE: NCCF002  
 HOME: Onslow County  
 USE AREAS:  
 PERIOD OF USE (IN YEARS): entire life - 7th generation of fishermen

Active in organization for 9 years; employee for 5 years; volunteer; board member/past president/staff person

THE BIG ISSUES (In order of perceived importance by informant):  
 ALL EQUALLY IMPORTANT TO INFORMANT! Can't have one without the other

- 1) How to cope with what's coming in and what's already here and maintain quality of life that both desire
- 2) dwindling resources - big issue  
 locals depend for living and way of life/culture; ones moving in expect picture perfect - dreams; need to strike a happy medium
- 3) starts in rich man's development and ends up in backyard of fishermen or poor person - example: Atlantic Beach's proposal to pipe treated sewage to Open Grounds Farm
- 4) state not accepted responsibility in maintaining water quality - Federal Clean Water Act is supposed to be a safety net  
 poor or no planning

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
K H J X E O P U G B T V F D L C N R W I	grew up here - oceans and sounds are dirty - lots of open spaces; fishing could be good again - compared to coast of New York and New Jersey our beaches are clean
A M Q S	didn't fit with others; sense of community is gone - influx of people who want to change it to something more like area they left

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	F N U V R L D I H K T B W G				X C S Q M A P E J



PILE SORTS: USES	
PILE ITEMS	EXPLANATION
R L T J I M C	most reasons come or live here; most people deal with
O B S E A	next reason they come
H P F N	less of than previous
G D	next least
Q	some come to the North East corner of the state like hunting
K	wild card

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	C M I J T L R A O F	S E N P H	Q G B D	K	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
I Q N V	wild cards - nothing to do with development
C E R	rank together
K F X	same category - rank together
T B Z U G D W P M H S O J L	most - more people - more fishing - more roads and parking - unplanned development - go to stricter regulations - poor job of managing resources - already sewage problems - more people - more marinas - already higher taxes

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	G U T M H W O D S J E C R N	A B K F	I L V	X P	Q

**WHY/HOW FOR PILE ONE ONLY:**

1)N Hurricanes - natural and nothing to do about them - very significant change

2)G - tourism - bottom - least destructive

3) all the remaining items are **NEGATIVE** impacts  
 all are killing what people come for  
 burden higher taxes on everyone - locals are here to stay  
 need to make up minds if they want wall to wall parking lots and roof tops  
 already have sewage problems  
 can't predict what hurricanes do

**USER GROUP: Piedmont Sport Fishing Club**

**INTERVIEWER: Y**

**DATE: 12/14/92**

**RESPONDENT CODE: PSFC001**

**HOME: High Point, NC**

**USE AREAS: Atlantic Beach, Morehead City, Oregon Inlet, Hatteras**

**PERIOD OF USE (IN YEARS): group 20 years**

**THE BIG ISSUES (In order of perceived importance by informant):**

1) how development happens and goes forth; how to build or accommodate growth with infrastructure, zoning, etc.

2) governmental economics - taxes - raising revenues and how spent

3) environmental impact utilization of resources - land or sea

4) In the High Point area situation in the image of TRIAD developing within the context of towns grappling with development goals and plans for future. Recently a survey assessment (250 questions, with Wachovia) Lack of common vision - Need vision - in our case if want to grow and prosper - economics dependent on tax base. educational quality and level of people - arts, etc. contact is focused/limited/infrequent. Brunswick newspaper - Beacon read islands high rise bridges/sewer system/zoning situations common to coastal communities. Interest resources to accommodate fishing, marinas, governmental regulations.

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
K V W U S A M H	can't evaluate
X O I L N D B C Q G R E J P	being statements about qualities that attract people to area, in terms visiting, valued types qualities
T F	may be true but can't relate to

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	T F U G I O X	H C D L	K V W S A M B N J	R P E	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
J I A F O K H G M L D B Q P E R T	action oriented
C N S	less participative

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	N O F A J D M G E	S I L H T R	P Q B C K		

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
B L O G C K E I X T P Q H J S R U F D W A M	things we bring about/cause
V N	what nature might do

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	L O G E P H U R S M D F	W A J X T I B V C	K N Q		

**WHY/HOW FOR PILE ONE ONLY:**

1)Most are negative

one positive is stricter fishing regulations (P)

Most of these are development or relaxation of standards of utilization of resources - overdevelopment - front end of industrial pollution, construction of bridges, lead to overdevelopment  
negative to great degree

Hate to turn out to be New Jersey

USER GROUP: Piedmont Salt Water Fishing Club  
 INTERVIEWER: Y  
 DATE: 12/14/92  
 RESPONDENT CODE: PSWFC002  
 HOME: High Point  
 USE AREAS: Hatteras to Myrtle Beach  
 PERIOD OF USE (IN YEARS):

THE BIG ISSUES (In order of perceived importance by informant):

1)environmental - things deal with environment - changes over the years - some good but a lot bad

2)commercial developing/residential developing

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
FTUGXQNILDECW	reasons I'm there
HS	second reason there
OJBMAPV	no personal ties, (traffic situation getting worse)
K	don't agree with environmentally aware

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	DLNQXGUTF	ISH	WCA	REMBJV	POK

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
M R T A L	what I do 70% of time when I go
C P E S N B	when not doing fishing, etc. what do rest of time
O F D H G K	rarely do
J Q I	don't do, no interest in

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	A M N E P C F	L T R B O	I S	D H G K	Q J

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
N V	nature of God, not much can be done
X P	would help a lot to bring about better coastal area
I	military by self
H M K U	can control - environmental issues with control in these areas
R E A J D	problems at hand now - need to be remedied
W	self-explanatory - problems - key part getting things right
B C F	of major concern
Q T G O	any could have impact, good, bad, indifferent. Don't know
S	would be ludicrous
L	needs to stop

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	L X P M H R E A J D W F C B S	Q T	O G K U	I	V N

**WHY/HOW FOR PILE ONE ONLY:**

- 1) S - relax environmental regulations - extremely bad - go back to 60s and 70s when dumping in water detrimental to environment - want to help
- 2)B - landfills - afraid contamination of ground water - wetlands 3)- D Juvenile fish breeding grounds
- 4)W - poor management - detrimental to environment - if allow companies to do as wish afraid of what will happen
- 5)F - industrial pollution - how describe how bad could be - Pamlico Sound being killed slowly
- 6)C Offshore Oil Drilling - Don't know - opinion both ways - if done correctly - help economy - incorrectly devastate North Carolina Coast to England
- 7)R Jetties - heard good and a lot bad about what do to the Outer Banks
- 8)Construction of bridges - good - or Sunset Beach barge bridge bad  
Don't sit and don't dump as much
- 9)Farm runoff - negative - goes in water ends up lakes/rivers/bays/sounds
- 10)J - negative - roads and parking - not great but can with runoff - lots of trash on roads and parking
- 11)L - overfishing - already damaged lot of resources; need to bring under control; bycatch is big problem
- 12)X - recycling - very positive - less stuff roads & beaches/use less of resources
- 13)P - stricter fishing regulations - very positive  
commercial as well as sport or weekenders
- 14)M - unplanned development - nightmare - mostly bad
- 15)H - overdevelopment - very bad - taking too much wetlands - need them

Additional comments: Watch what do - tax base go  
 Can destroy resource - has been to some extent already  
 Young man - ocean plentiful - Pitiful today!  
 regulations and technology help catch more  
 sport fish volume minimal  
 environmental issues stay on top  
 need information before making big decisions



USER GROUP: Croaker Marlin Sport Fishing Club  
 INTERVIEWER: M  
 DATE: 12/11/92  
 RESPONDENT CODE: PW/PI01  
 HOME:  
 USE AREAS:  
 PERIOD OF USE (IN YEARS):

THE BIG ISSUES (In order of perceived importance by informant):

- 1) Fisheries management/conservation and allocation
- 2) Water quality related to waste management/growth/infrastructure

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
N G E F C D J O L A K P I R H B S X U W T M V	every one of these is at Ocracoke
Q	no interest in surfing

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	T W U X R I O J F E N G	S B H P K D C	V M N	L	Q

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
M N B Q A	directed activity (recreational)
T L R S	commercial activity (fishing)
P D E F K H O S G I	probably most important reasons people go to beach, but not respondent. These are all recreational activities
C	school groups, history, _____

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	N M B A	Q	P T L	J R E	C I G S O H K F D

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
P V R L	
O U M N H G E W S T A B	
X K	
C D F J	
I	
Q	

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	Q N C	S O A W H M V U F D	J B T E G P L	R J	K X

WHY/HOW FOR PILE ONE ONLY:

1) Q N C - possibility of catastrophic impact. Clinton administration would act to counter CN

Items under 2 - could have immediate effects; but would be long term and serious effects

Items under 3 - T. Higher taxes. Property becoming so valuable that families who have lived there for years can no longer afford the taxes

USER GROUP: Raleigh Salt Water Sport Fishing Club  
 INTERVIEWER: Young  
 DATE: 12/10 92  
 RESPONDENT CODE: RSFC001  
 HOME: Raleigh  
 USE AREAS: Nags Head to Morehead City  
 PERIOD OF USE (IN YEARS): group 14 years

THE BIG ISSUES (In order of perceived importance by informant):

- 1) Resources - preserving resources
  - Marine life - blue crabs to marlin
  - Inshore water quality to offshore oil wells
  - Hogarth done a good job - need regulation to preserve resources for commercial and recreational fishermen
- 2) Development primary concern, curtailing development

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
K D E I	air not as clean as like to see it; water quality not as good as could be, not as environmentally aware as should be
G J A X P R V C N F T H M B W L	personal goals - most of these pertain to it
S Q O U	only place open space is out fishing

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	T L B V C N F G	Q H X A	W D U S	M R	K O P E I J

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
D G M F O	things - people do this kind of thing
J T R L	relate to commercial fishing
E A P B H	all boat - on water related
C N S I	people want state parks, educational activities
K	volleyball - stands by self
Q	deer hunting - stands by self

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	A M E O J T L R L B	G D H	P F	C N S I	Q K

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
C W P L V	related to fishing and what's happening
G O H D F M A B K	things can control - things shouldn't happen, don't want to see
I J T Q	political
S R U E	construction and environmental relaxing
X	by self
N	by self

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	C D H O F M A B R N	V L P W G S	J T E U	X	K I Q

**WHY/HOW FOR PILE ONE ONLY:**

most go hand-in-hand

1) Hurricane change more than any on thing - only positive thing would be to open or close an inlet

Remainder are negative

2) Jetties - mixed emotions - good in proper place - if studies done and not environmental impact elsewhere then good - don't know 'til put there.

3) Offshore drilling - 150% negative. Environmental impact. Only positive way down to environmental change - It's located at the breeding grounds for bill fish - where stream and current meet. Worst place to possibly put it.

All other problems pertain to people.

4) Too many - sewage, landfills - all human error! because things we do

5/6) Take off farm run off and industrial pollution and remainder are tourist caused.

7) Must be managed - few places that are undeveloped or underdeveloped. Needs to be handled

8) Farm run off and industrial - both businesses do things shouldn't. Can correct it! No reason not to correct. Got to be corrected..

No wetlands = no seafood

Ground root of problem - WATER QUALITY

Man caused and can be man corrected.

USER GROUP: Raleigh Salt Water Sport Fishing Club  
 INTERVIEWER: Y  
 DATE: 12/11/92  
 RESPONDENT CODE: RSFC002  
 HOME: Raleigh  
 USE AREAS: Ocracoke, Hatteras, Nags Head, Atlantic Beach, Morehead City (all the way to South Port  
 PERIOD OF USE (IN YEARS): club since 13

**THE BIG ISSUES (In order of perceived importance by informant):**

- 1)overfishing of most species
- 2)user conflicts between recreational/commercial fishermen - Nags Head (pond) Oregon Inlet. Netters come where surf fishermen were located. then not catch remainder of week
- 3) overdevelopment some coastal areas
- 4)too many people on outer banks

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
F T D G L E H I R Q N U	basically coastal related
X J B P M C A O V W	basically rural
S	different from others
K	different from other groups

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	N H T F D	U L R I G	S X K C V A E	B M W O	Q P J

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
P K D G F O	nonfishing water related things to do at beach
R T L	shell fish gathering
A M	recreational fishing
H E	could or could not necessarily involve fishing
S N C	visitor going to a park - for that purpose, not necessarily to experience the beach
B	little different from others
I	different from others
Q	different from others
J	way of making a living

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	J O F G D L T R M A E H C N S B I	K	P		Q



PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
J G E K M H O	related to overdevelopment due to making more accessible
W B L F D C A R S U	man-related problems or caused problems
V N	natural disasters
X P	possible improvements
I	not similar to others
Q	not similar
T	not similar

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	W A S V J G M H O F L D R U N	E C K B	P Q T	I	X

WHY/HOW FOR PILE ONE ONLY:

- 1) For J, H, O, M, G adversely and overdevelopment; change a lot
- 2) N - adverse change; could change quite a bit to not very much
- 3) V and L - affect social/economic nature of area adversely; to a large extent
- 4) R, A, W, U, D, F, S - adversely affect to a large extent the environment and water quality of the area

USER GROUP: wildlife organization (not to be named)  
 INTERVIEWER: Y  
 DATE: 12/10/92  
 RESPONDENT CODE: WL001  
 HOME: Clinton  
 USE AREAS: Morehead to Manteo  
 PERIOD OF USE (IN YEARS): approx. 30 years

THE BIG ISSUES (In order of perceived importance by informant):

- 1) Pollution control - industrial, agricultural, individual; homesites - trash, garbage, sewage leakage most important, must be controlled
- 2) Development - Standpoint of someone who goes to the coast hunting, enjoys undeveloped shore lines and sand dunes. When condos cover the area that 20 years ago was just dunes, it's depressing. [Area like Little River inlet is now wall-to-wall condos, destroyed aesthetic value] Wonder if North Carolina will become wall-to-wall condos from the Virginia state line to the South Carolina state line. Personally would love to live at the coast; love the water.

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
K	some natives not environmentally aware, take for granted
V	by self
B	by self
S	unique architecture
P V	sometimes more traffic, sometimes none
R P E X D T L G N O	coastal
A C	
M J H I F W	not necessarily coastal - Manteo in July not rural, could be anywhere

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	N T L D X F I H O U	B M A C G	S V J W R E P	K Q	

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
Q	by itself
P B K G D	active recreation
F M S O	lazy, laid back, leisurely, passive
A E H	getting out in boat, recreational sailing, fishing, boating
L J T R	using the water resources, clamming, fishing
C N I	educational

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	E	A F M O	P R S H C N	B T L I	D G K J Q

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
V N	natural phenomena, no one can do anything about
I S O H W P L M	more subtle but noise of military, overdevelopment, overfish is problem. more indirect, bad over long haul
T Q	conservative, Clinton will raise taxes, not do anything
X K	recycle supposed good, oddballs - chain stores, rather than family businesses - less appealing businesses
G B D U R A J E C F	closely related - pollution- jetties change movement of sand - direct pollutants

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	O H W F N M	D G Q T C E S I	A U B X J L	R V K P	

WHY/HOW FOR PILE ONE ONLY:

1)Hurricanes most obvious immediate, long term to get over; Unplanned development and pollution are negative things, change beauty and aesthetics of area; All items in column 1 are negative

**USER GROUP:** Winston-Salem Sport Fishing Club  
**INTERVIEWER:** Y  
**DATE:** 12/15/92  
**RESPONDENT CODE:** WSFC001  
**HOME:** Winston-Salem  
**USE AREAS:** Hatteras, Morehead City  
**PERIOD OF USE (IN YEARS):** group 10 years; personally 40 years

Winston-Salem salt water sport fishing club  
 40-50 members; Winston-Salem, Kernersville, Forsythe County, few members from contiguous counties  
 Hatteras surfing - blue water/marlin/tuna/Big Rock, Gulf Stream  
 Tournament & King or all fish  
 monthly dinner meetings - speakers, commercial fishing interests  
 Dick Brame Executive Director of Association  
 Trips to Coast - outings/meet at coast  
 twice formally - spring/fall tournaments  
 more often informally  
 15-20 participants in outings  
 most Morehead City area - many have places in Morehead City area  
 motel with boat docks, etc.

group 10 years old  
 member 5 years  
 going to coast 40 years personally

**THE BIG ISSUES (In order of perceived importance by informant):**

- 1)depletion of resources - paramount problems
- 2)physical resources - environment pollution problems
- 3)reaching point where over taxing of systems; too many people, too much ground, too many condos Atlantic Beach to Salter Path

PILE SORTS: QUALITIES	
PILE ITEMS	EXPLANATION
B O M C L A V	humanistic related
Q R H F I N E G D T	ocean related issues
P S U X W K J	basically sounded good - not true

SCALED PILES: QUALITIES					
PILE	1	2	3	4	5
ITEMS	T D G E N F	I H X C L A	R Q O B M V	K W U S	J P

PILE SORTS: USES	
PILE ITEMS	EXPLANATION
R T J H M E A L	resource related - some form fishing, etc.
F G D P B	water related
K O	beach related
C	didn't fit others
Q	didn't fit others
N S I	involve take advantage all areas around beach

SCALED PILES: USES					
PILE	1	2	3	4	5
ITEMS	L O A E M H J T R F D G B		N S K P	Q I C	

PILE SORTS: SOURCES OF CHANGE	
PILE ITEMS	EXPLANATION
Q T	by itself - Clinton File
N	separate definitely
A F W D B X	environmental concerns
M G S O H K J	concern with development of area
I C U R E	manmade changes in marine environment
P L	involve fishing directly

SCALED PILES: SOURCES OF CHANGE					
PILE	1	2	3	4	5
ITEMS	H N W M P O L	F T U R G S	Q E I D V	C A J K	B X

**WHY/HOW FOR PILE ONE ONLY:**

- 1) Hurricanes obviously - stacked trailer units - big scrap pile, another Hazel - not if, when, untold devastation. nature taking care of Hatteras
- 2) W - poor management - fishing stocks nearly completely depleted, need salt water fish license.; manage catches
- 3) M unplanned development - need care in what allow protect what left
- 4) fishing regulations - need enforcement; don't mind throw back 12" flounder if everyone is doing it; violations everywhere
- 5) L overfishing - commercial not recreational; purse seiner - 2 million lbs? of menhaden in 36 hours. when deplete to that extent in that amount of time how long can it continue (2nd boat also similar catch)
- 6/7) H & O overdevelopment = too many people - tax the system to max. 4th of July - can't gear up for this size crowd with permanent population. 1 light very congested - can't handle in small towns

**Additional comments:**

need inspectors in fish houses  
license to salt water fish  
keep track of fish sold  
Jetties worthwhile - haven't proven won't harm  
oil exploration - jobs - industry to unload  
positive things for state  
draw fish to platforms pollution of freighters more significant  
this positive things.

## 4.5 DATA ANALYSIS

This section provides basic Likert scale data for the study communities and inland sample for each of the domains of quality of place, uses of the environment, and sources of change. Similarity data for perception of risk is also provided. As in the presentation of the raw data, the analyses are provided by study community and sample in sequence.

Pile-sort data was analyzed using ANTHROPAC software. Three sets of information are provided. Non-metric, multi-dimensional (MDS) scaling analysis is provided first. This depicts, in two dimensional space, a visual representation of informant's perceptions about the similarity of items, events, and processes that are reported to have the potential to change life in the study area. Items in close proximity on the scale represent items perceived as being similar in the minds of the informants. According to Borgatti (1992):

From a slightly more technical point of view, what MDS does is find a set of vectors in p-dimensional space such that the matrix of euclidean distance among them corresponds as closely as possible to some function of the input matrix according to a criterion function called stress...the smaller the [stress] value, the greater the correspondence between the two.

The input matrix for the MDS scale is the aggregate proximity matrix of the pile-sort task implemented with twenty informants in each community. Each cell  $X_{ij}$  of the matrix contains the number of informants who placed items  $i$  and  $j$  in the same pile. Since it is assumed that persons putting items in the same pile perceive that the items are similar (per the researcher's directions to put similar items in the same pile), the MDS map depicts the proximity of items in terms of informants' perceptions about their similarity. In situations where data are poorly represented on the MDS scale, a high stress value is indicated. The MDS maps that follow include measures of stress.

A valuable tool used in interpreting MDS plots, and second analysis provided for each community, is Johnson's Hierarchical Clustering Analysis. The technique allows the researcher to identify the most proximate pair of items on the MDS plot and then progressively merge items into clusters based on degree of similarity. This method compliments MDS in that it helps to explain groupings of items (clusters) and dimensions as they appear on the MDS plots.

Finally, we provide the results of Cultural Consensus Analysis. The Cultural Consensus Model is used to model the level of agreement between informants about their perception of the similarity of items, events and processes that have potential to change life along the North Carolina coast. The Cultural Consensus Model quantifies agreement across respondents through calculation of an item-by-informant matrix. The matrix is factor analyzed and the ratio between the first and second eigenvalue indicates the degree to which informants agree

about the similarity of items. For the assumptions of the model to be met, the first factor, which represents cultural understanding for the domain of items representing potential sources of change to the community, should be several times larger than the second, accounting for the structure in the matrix apart from sampling variability (Weller, Romney, and Batchelder 1986). Since the model generates an "answer key," that is, the group norm of judgements about the similarity of items, it is also possible to assign a score to the performance of each informant in the pile-sort task. High scores indicate close approximation to the cultural "mean" of response, while low scores suggest that the informant's responses does not approximate the mean and that the informant does not share the cultural understanding of the group. Given that the model identifies the most knowledgeable informants in the sample per the cultural domain in question, it may be valuable to contact these informants for longitudinal research/monitoring purposes.

#### **KEY FOR MDS SCALES:**

FRM=farm runoff  
LFIL=landfills getting too full  
OIL= offshore oil drilling  
SEW=sewage problems  
BRG=construction of bridges  
IND=industrial pollution  
TOU=more tourism  
OVD=overdevelopment  
MIL=military activities  
PAV=paving for roads and parking  
CHB=bringing in chain businesses  
OFIS=overfishing  
UNP=unplanned development  
HUR=hurricanes  
PEO=too many people  
FREG=strict fishing regulations  
CLI=the Clinton Administration  
JET=construction of jetties  
EREG=relaxing environmental regulations  
TAX=higher taxes  
MAR=more marinas  
RED=red tide  
MAN=poor management of natural resources  
RECY=recycling



#### 4.5.1 Wanchese

##### **RANK ORDERED QUALITIES OF PLACE: WANCHESE**

<u>Quality/Description</u>	<u>Value</u>
V: People have family ties here	1.15
I: The air is clean	1.35
B: There is a "small town"atmosphere	1.45
X: It is easy to find peace and quiet	1.45
T: You can live a water-related lifestyle	1.5
C: People are friendly	1.5
W: This is a rural area	1.55
L: The seafood is good	1.6
J: The area is not overcrowded	1.65
N: You live close to the ocean and sound	1.7
G: The fishing is good	1.75
F: There is natural beauty here	1.75
A: People share a sense of community	1.8
P: There is not much traffic	2.0
M: The crime rate is low	2.2
H: There is a lot of history here	2.3
E: Water quality of ocean & sound is good	2.35
D: The climate is mild	2.4
O: There are lots of open spaces	2.8
U: There is a seasonal lifestyle	3.0
K: People here are environmentally aware	3.05
R: The beaches are clean	3.55
S: The area has unique architecture	3.8
Q: There is good surfing here	4.65

**RANK ORDERED USES OF THE ENVIRONMENT: WANCHESE**

<u>Uses/Description</u>	<u>Value</u>
R: crabbing	1.05
T: oystering	1.05
J: commercial fishing	1.1
E: boating	1.3
L: clamming	1.65
P: water skiing	2.1
A: offshore recreational fishing	2.3
F: swimming	2.35
H: sailing	2.8
O: sun bathing	3.1
D: windsurfing	3.55
Q: deer hunting	3.6
M: surf fishing	3.75
B: scuba diving	3.8
S: sightseeing	3.9
G: surfing	3.95
K: volleyball	4.15
C: educational purposes	4.35
I: bird watching	4.5
N: visiting state and national parks	4.6

## RANK ORDERED PERCEPTION OF SOURCES OF CHANGE: WANCHESE

<u>Source of Change</u>	<u>Value</u>
R: construction of jetties	1.3
N: hurricanes	1.5
P: stricter fishing regulations	1.5
C: offshore oil drilling	1.65
L: overfishing	1.9
S: relaxing environmental regulations	2.0
V: red tide	2.15
D: sewage problems	2.3
M: unplanned development	2.4
O: too many people	2.4
W: poor management of natural resources	2.45
T: higher taxes	2.5
U: more marinas	2.5
F: industrial pollution	2.7
H: overdevelopment	2.7
K: bringing in chain businesses	2.8
G: more tourism	2.95
B: landfills getting too full	3.3
E: construction of bridges	3.3
I: military activities	3.4
Q: the Clinton Administration	3.53
A: farm runoff	3.55
X: recycling	3.8
J: paving for roads and parking	3.95

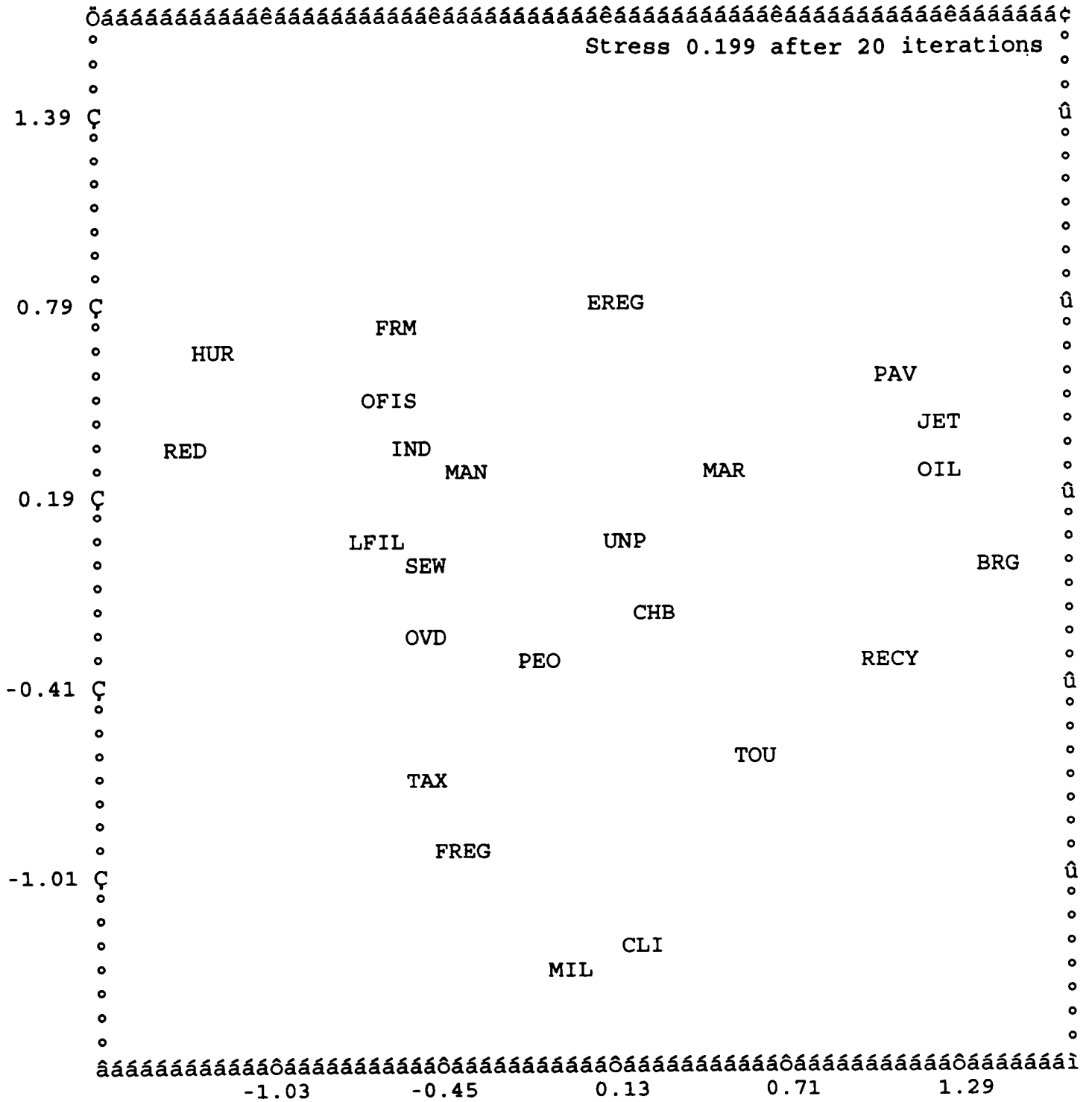
## LIKERT SCALE ANALYSIS

Wanchese informants consider the quality "People have family ties here" to be the most accurate description of their community among those qualities offered in the pile-sort exercise. This finding triangulates with findings generated through other research methods that Wanchese is a socially tight-knit community in which residents value family life and maintain an identity of membership in an important fishing community. The next most accurate qualities include "The air is clean," "There is a 'small town' atmosphere," and "It is easy to find peace and quiet." Several qualities related to the ocean environment receive average values of less than 2.0 including "You can live a water-related lifestyle," "The seafood is good," and "You live close to the ocean and sound." Those qualities judged least accurate by Wanchese informants include "The area has unique architecture," and recognizing their inland location, "There is good surfing here," given respective average values of 3.8 and 4.65.

Four of the top five most common uses of the environment identified by Wanchese informants consist of food gathering/food catching activities. "Crabbing" and "oystering" are ranked as the most common uses, sharing average values of 1.05. "Commercial fishing," ranked next has an average value of 1.1; followed by "boating," 1.3; and "clamming," 1.65. These findings confirm the obvious; Wanchese residents value the surrounding ocean and sound waters and the resources they provide. Least common uses of their environment perceived by Wanchese informants are "bird watching" with an average value of 4.5, and "visiting state and national parks" with an average value of 4.6. Since the local culture of commercial fishers do not typically include bird watching as a primary activity (although there may be exceptions), this finding seems plausible. Additionally, there are no state or national parks within the bounds of the community, a fact which supports the findings.

Wanchese informants identified "construction of jetties" as the item most likely to change their community if it were to occur tomorrow, giving it an average value of 1.3. Construction of jetties at Oregon Inlet is much desired by local fishers since the common belief is that this would allow easier access to the Atlantic Ocean and offshore fishing grounds. In fact, the top five ranked items are items which would impact the coast in particular: "hurricanes," 1.5; "stricter fishing regulations," 1.5; "offshore oil drilling," 1.65; and "overfishing," 1.9. In fact, fishing regulations such as those involving the Turtle Excluder Device have been enacted, and this finding underscores perceptions that such regulations can be hard on fishers. Items somewhat likely to change the community include "higher taxes" and "more marinas," receiving average values of 2.5; and "industrial pollution" and "overdevelopment," receiving average values of 2.7. "Paving for roads and parking," judged least likely to change the community by Wanchese informants, received an average value of 3.95.

# MULTI-DIMENSIONAL SCALING SOURCES OF CHANGE: WANCHESE



# HIERARCHICAL CLUSTERING SOURCES OF CHANGE: WANCHESE

	E O F L														R										
	M	C	R	H	R	T	F	R	B	P	O	J	T	M	F	F	C	S	I	O	U	P	M	E	
	I	L	E	U	E	O	I	E	R	A	I	E	A	A	I	R	H	E	N	V	N	E	A	C	
	L	I	G	R	D	U	S	G	G	V	L	T	X	R	L	M	B	W	D	D	P	O	N	Y	
			1	1	1	2		1	1		1		1	2	2		1					1	1	2	2
Level	9	7	9	4	2	7	2	6	5	0	3	8	0	1	2	1	1	4	6	8	3	5	3	4	
-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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0.6500	.	.	.	XXX	.	.	.	.	.	.	.	XXX	.	.	.	.	XXXXXXXXXXXX	.	.	.	.	.	.	.	
0.6316	.	.	.	XXX	.	.	.	.	.	.	.	XXX	.	.	.	.	XXXXXXXXXXXX	.	.	.	.	.	.	.	
0.6000	.	.	.	XXX	.	.	.	.	XXXXXXXX	.	.	XXXXXXXXXXXXXXXX	.	.	.	.	XXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	
0.5263	.	.	.	XXX	.	.	.	.	XXXXXXXX	.	.	XXXXXXXXXXXXXXXX	.	.	.	.	XXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	
0.5000	XXX	.	XXX	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0.4500	XXX	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0.4000	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

## CULTURAL CONSENSUS MODELLING SOURCES OF CHANGE: WANCHESE

Table C-1 CULTURAL CONSENSUS EIGENVALUES: WANCHESE				
Factor	Value	Percent	Cum %	Ratio
1	7.212	83.0	83.0	7.533
2	0.957	11.0	94.0	1.832
3	0.523	6.0	100.0	--
	8.917	100.0	--	--

Table C-2  
ESTIMATED KNOWLEDGE OF EACH INFORMANT: WANCHESE

Informant	Score	Rank
1	.68	8
2	.67	9
3	.72	4
4	.30	17
5	.54	14
6	.70	6
7	.28	18
8	.13	20
9	.57	12
10	.55	13
11	.79	3
12	.63	11
13	.66	10
14	.71	5
15	.44	15
16	.24	19
17	.81	2
18	.35	16
19	.68	7
20	.84	1



## **SOURCES OF CHANGE PERCEPTION: SIMILARITY ANALYSIS**

According to Multi-Dimensional Scaling (MDS) representation and Johnson's (1967) hierarchical clustering method, Wanchese informants perceive "offshore oil drilling" and "construction of jetties" to be the most similar change items. At a slightly lower degree of similarity is the perceived cluster of "sewage problems," "industrial pollution," "overdevelopment," and "unplanned development." At the level of 0.6500, "red tide" and "hurricanes" are perceived to be similar, and "farm runoff" and "bringing in chain businesses" join the previous cluster of "sewage problems." At level 0.6316, "landfills getting too full" is included in the "sewage problems" et al. cluster, and at level 0.6000, "too many people" joins the same cluster. Those items perceived to be the least similar to any other in nature are "relaxing environmental regulations," which does not join a cluster until level 0.5000, and "recycling," which is the last to join a cluster at level 0.4000.

Use of the Cultural Consensus Model shows that for the domain of sources of change, there is a very high level of agreement about the similarity of sources of change items. The data fit the model, revealing a high level of concordance between informants. Informant 20 showed the closest approximation to full knowledge of the local cultural judgements about the similarity of items.

## 4.5.2 Nags Head

### RANK ORDERED QUALITIES OF PLACE: NAGS HEAD

<u>Quality/Description</u>	<u>Value</u>
N: You live close to the ocean and sound	1.25
F: There is natural beauty here	1.32
T: You can live a water-related lifestyle	1.45
Q: There is good surfing here	1.55
U: There is a seasonal lifestyle	1.58
I: The air is clean	1.58
L: The seafood is good	1.6
R: The beaches are clean	1.65
G: The fishing is good	1.75
C: People are friendly	1.8
E: Water quality of ocean & sounds is good	1.9
M: The crime rate is low	1.95
D: The climate is mild	2.0
H: There is a lot of history here	2.0
O: There are lots of open spaces	2.0
X: It is easy to find peace and quiet	2.05
K: People here are environmentally aware	2.25
B: There is a "small town" atmosphere	2.55
V: People have family ties here	2.8
A: People share a sense of community	2.89
J: The area is not overcrowded	3.0
S: The area has unique architecture	3.0
P: There is not much traffic	3.35
W: This is a rural area	3.68

## RANK ORDERED USES OF THE ENVIRONMENT: NAGS HEAD

<u>Use/Description</u>	<u>Value</u>
M: surf fishing	1.0
F: swimming	1.05
O: sun bathing	1.05
G: surfing	1.3
D: windsurfing	1.35
S: sightseeing	1.5
E: boating	1.8
H: sailing	1.95
A: offshore recreational fishing	2.05
N: visiting state and national parks	2.15
R: crabbing	2.15
I: bird watching	2.7
K: volleyball	2.7
J: commercial fishing	2.9
B: scuba diving	3.0
L: clamming	3.05
C: educational purposes	3.1
P: water skiing	3.11
T: oystering	3.5
Q: deer hunting	4.42

## RANK ORDERED SOURCES OF CHANGE PERCEPTION: NAGS HEAD

<u>Source of Change</u>	<u>Value</u>
N: hurricanes	1.1
H: overdevelopment	1.4
D: sewage problems	1.58
O: too many people	1.6
M: unplanned development	1.7
S: relaxing environmental regulations	1.7
W: poor management of natural resources	1.75
C: offshore oil drilling	1.85
G: more tourism	1.85
E: construction of bridges	2.0
B: landfills getting too full	2.1
F: industrial pollution	2.35
L: overfishing	2.4
J: paving for roads and parking	2.5
V: red tide	2.5
R: construction of jetties	2.55
K: bringing in chain businesses	2.55
A: farm runoff	2.6
U: more marinas	2.65
P: stricter fishing regulations	2.7
T: higher taxes	2.75
X: recycling	2.9
I: military activities	3.8
Q: the Clinton Administration	3.85

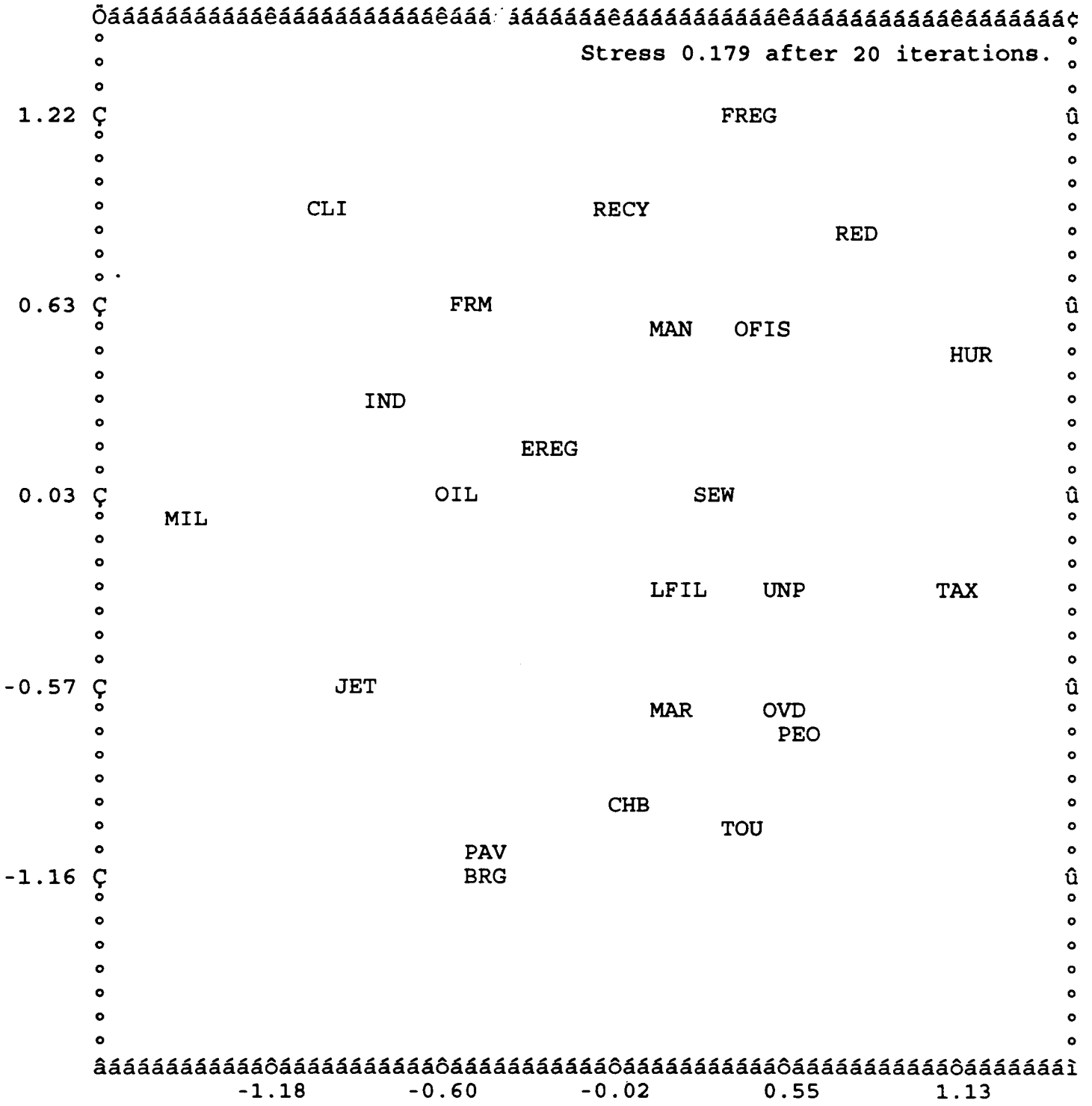
## LIKERT SCALE ANALYSIS

The three qualities ranked by Nags Head informants as most accurate regarding their community are: "You live close to the ocean and sound" 1.25; "There is natural beauty here" 1.32; and "You can live a water-related lifestyle" 1.45. This finding reflects data recovered through other research methods that indicate these are important aspects of life in the community. A water-related lifestyle in Nags Head, however, is more likely to consist of recreation than of a commercial activity as it might in a town like Wanchese. Qualities given average values of 2.0 include "The climate is mild," "There is a lot of history here" and "There are lots of open spaces." Judged to be least accurate in their applicability to Nagshead are the qualities "There is not much traffic" and "This is a rural area" with respective average values of 3.35 and 3.68

The most common use of the environment as perceived by Nags Head informants is "surf fishing" with an average value of 1.0, indicating it was unanimously ranked as such. This speaks to the local importance of this form of recreation. Additional recreational activities of "swimming" and "sunbathing" are ranked as only slightly less common uses, both receiving an average value of 1.05. This is significant in that although key informants were all permanent year-round residents and were queried in the fall and early winter months, they chose exclusively summer activities as being most common. This may reflect either a recognition that in terms of sheer numbers of users, beach-goers are an important category of local resource users, or a bias towards thinking about the importance of this population to the economic welfare of the community. Somewhat common uses of the environment, indicted by the shared average values of 2.7, are "bird watching" and "volleyball." Nags Head informants judged "deer hunting" to be the least common use of their environment, ascribing it an average value of 4.42.

Nags Head informants judge "hurricanes" most likely to change their community if it were to occur tomorrow, ascribing it an average value of 1.1. This is expected in a community that experiences damage numerous times each year as a result of storm activity. Second and third most likely items are "overdevelopment," 1.4; and "sewage problems," 1.58. The high ranking of "overdevelopment" is interesting and confirms other findings that, while it is widely recognized that the local economy is dependent on continued growth, overdevelopment may ultimately damage the local economy since local aesthetics may be sacrificed and since government services and local infrastructure may be strained by excessive development. Items associated with the ocean environment in particular (ie; overfishing) are fairly evenly disbursed amongst more generic items such as "industrial pollution." Items judged to be somewhat likely to change Nags Head if they were to occur tomorrow include "paving for roads and parking" and "red tide" with average values of 2.5. "The Clinton Administration" is considered least likely to change the community, receiving an average value of 3.85.

**MULTI-DIMENSIONAL SCALING PERCEPTION OF SOURCES OF CHANGE: NAGS  
HEAD**



# HIERARCHICAL CLUSTERING PERCEPTION OF SOURCES OF CHANGE: NAGS HEAD

	M	C	T	O	P	B	J	F	H	F	I	C	F	S	O	U	T	P	M	R	R	M	R	E	F	R	
	I	L	A	I	A	R	E	I	U	R	N	H	I	E	V	N	O	E	A	E	E	A	E	E	A	E	C
	L	I	X	L	V	G	T	S	R	M	D	B	L	W	D	P	U	O	R	D	G	N	G	Y			
	1	2		1	1	1						1				1	1	2	2	1	2	1	2				
Level	9	7	0	3	0	5	8	2	4	1	6	1	2	4	8	3	7	5	1	2	9	3	6	4			
0.7500	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.		
0.7000	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	XXX	XXX	.	.	.	.	.	.	.	.		
0.6500	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	XXXXXXXXXX	.	.	.	.	.	.	.	.	.		
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0.5000	.	.	.	.	XXXXX	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXX	XXX	.	.	.	.	.	.		
0.4500	.	.	.	.	XXXXXXXX	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.		
0.4000	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.		
0.3500	.	XXX	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.		
0.3000	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.		

## CULTURAL CONSENSUS MODELLING SOURCES OF CHANGE: NAGS HEAD

Table C-3 CULTURAL CONSENSUS EIGENVALUES: NAGS HEAD				
Factor	Value	Percent	Cum %	Ratio
1	8.209	87.2	87.2	12.826
2	0.640	6.8	94.0	1.135
3	0.564	6.0	100.0	-
	9.413	100.0	-	-



Table C-4  
ESTIMATED KNOWLEDGE OF EACH INFORMANT: NAGS HEAD

Informant	Score	Rank
1	.70	9
2	.63	12
3	.55	13
4	.70	8
5	.78	3
6	.75	6
7	.65	11
8	.38	19
9	.78	4
10	.75	7
11	.65	10
12	.52	14
13	.73	5
14	.29	20
15	.39	18
16	.47	16
17	.51	15
18	.47	17
19	.91	1
20	.78	2

## **SOURCES OF CHANGE SIMILARITY ANALYSIS**

According to Multi-Dimensional Scaling (MDS) and hierarchical clustering, Nags Head informants perceive "paving of roads and parking" and "construction of bridges" to be the most similar items. Clustered on the same level (0.7500) is the relationship between "more tourism" and "too many people." At level 0.7000, a relationship of similarity is perceived between "overdevelopment" and "unplanned development." At level 0.6500, a cluster of "overdevelopment," "unplanned development," "more tourism," "too many people" and "more marinas" is established. "Sewage problems" joins this cluster at level 0.6000. "Industrial pollution" and "farm runoff" are perceived to be similar at level 0.5500, while "landfills getting too full" joins the "overdevelopment" et al. cluster. "Military activities," "the Clinton Administration" and "higher taxes" are perceived to be the least similar to other items, joining clusters at 0.3500 and 0.3000 levels.

As in Wanchese, there is a high level of agreement about the similarity of items, events, and processes. The third factor is over nine times greater than the first, meaning that the data fit the model and indicating a significant level of concordance about similarity of items. At .91, informant 19 ranks as closest to the cultural mean for judgement about the similarity of items.

### 4.5.3 Hatteras

#### RANK ORDERED QUALITIES OF PLACE: HATTERAS

<u>Quality/Description</u>	<u>Value</u>
F: There is natural beauty here	1.35
N: You live close to the ocean and sound	1.35
I: The air is clean	1.45
V: People have family ties here	1.5
T: You can live a water-related lifestyle	1.7
O: There are lots of open spaces	1.7
G: The fishing is good	1.7
H: There is a lot of history here	1.75
X: It is easy to find peace and quiet	1.8
L: The seafood is good	1.84
C: People are friendly	1.85
A: People share a sense of community	1.9
Q: There is good surfing here	1.9
B: There is a "small town" atmosphere	2.0
D: The climate is mild	2.0
R: The beaches are clean	2.15
U: There is a seasonal lifestyle	2.25
M: The crime rate is low	2.26
W: This is a rural area	2.4
J: The area is not overcrowded	2.5
E: Water quality of ocean & sounds is good	2.65
P: There is not much traffic	2.8
K: People here are environmentally aware	3.37
S: The area has unique architecture	3.4

## **RANK ORDERED USES OF THE ENVIRONMENT: HATTERAS**

<u>Use/Description</u>	<u>Value</u>
M: surf fishing	1.4
N: visiting state and national parks	1.4
J: commercial fishing	1.45
G: surfing	1.47
F: swimming	1.53
D: windsurfing	1.63
A: offshore recreational fishing	1.8
O: sun bathing	1.85
R: crabbing	1.85
L: clamming	1.9
S: sightseeing	2.05
E: boating	2.11
T: oystering	2.25
I: bird watching	2.79
C: educational purposes	2.9
B: scuba diving	3.28
H: sailing	3.33
P: water skiing	3.42
Q: deer hunting	3.95
K: volleyball	4.1

## RANK ORDERED SOURCES OF CHANGE: HATTERAS

<u>Source of Change</u>	<u>Value</u>
N: hurricanes	1.4
H: overdevelopment	1.6
W: poor management of natural resources	1.7
M: unplanned development	1.75
O: too many people	1.75
L: overfishing	1.79
S: relaxing environmental regulations	1.85
C: offshore oil drilling	2.05
D: sewage problems	2.15
P: stricter fishing regulations	2.26
G: more tourism	2.32
U: more marinas	2.47
K: bringing in chain businesses	2.55
T: higher taxes	2.7
E: construction of bridges	2.89
R: construction of jetties	2.9
J: paving for roads and parking	3.2
V: red tide	3.2
X: recycling	3.26
F: industrial pollution	3.45
B: landfills getting too full	3.55
Q: the Clinton Administration	3.6
A: farm runoff	3.7
I: military activities	3.85

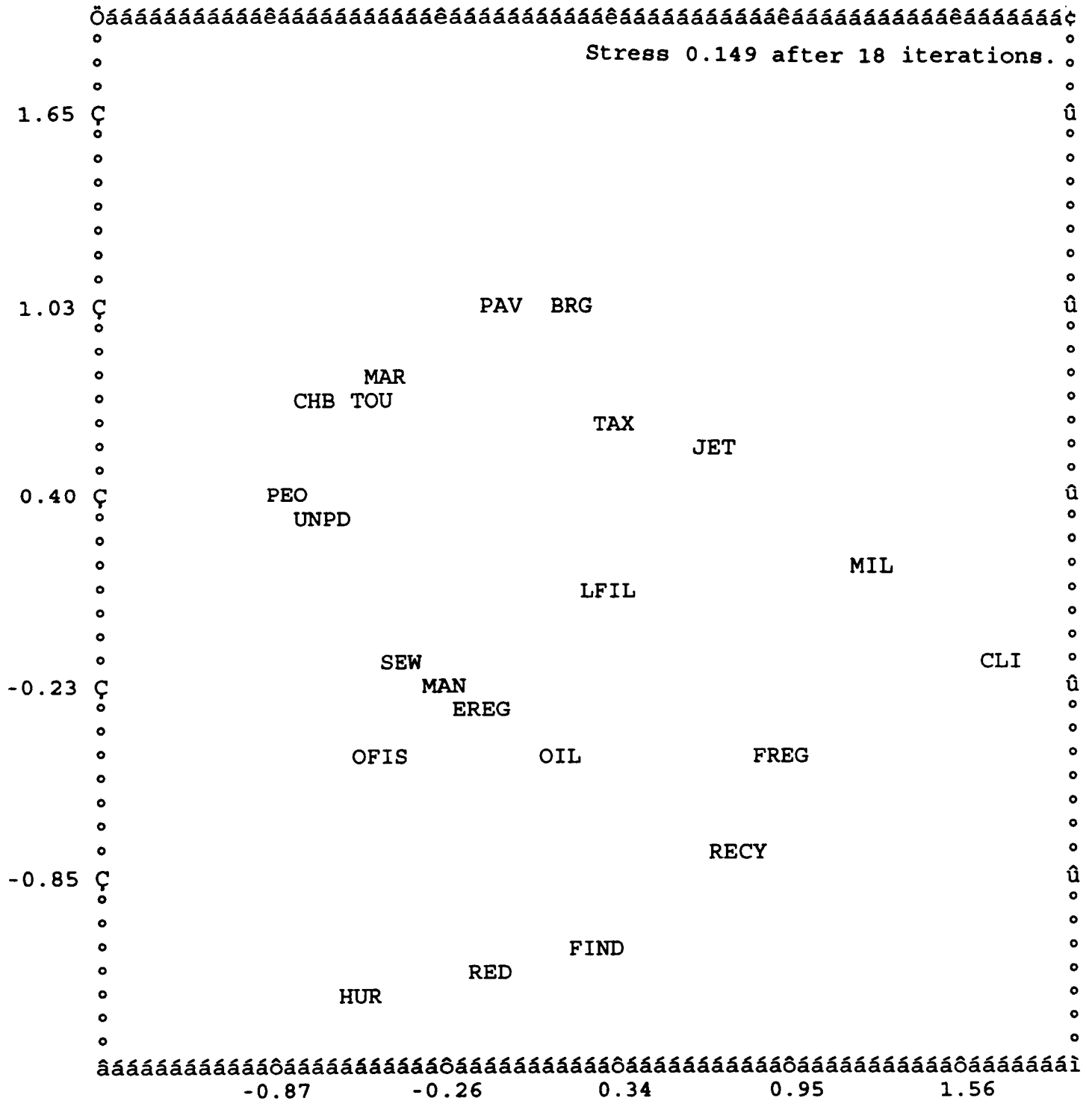
## LIKERT SCALE ANALYSIS

In ranking the qualities most accurate of their community, Hatteras informants ascribe the average value of 1.35 to both "There is natural beauty here" and "You live close to the ocean and sound." Those qualities judged to be third and fourth most accurate of Hatteras are "The air is clean" with an average value of 1.45; and "People have family ties here" with an average value of 1.5. Hatteras informants ranked the similar qualities of "People are friendly," "People share a sense of community" and "There is a 'small town' atmosphere" in a cluster with an average value ranging from 1.85 to 2.0. (This triage is interrupted only by the quality "There is good surfing here," itself receiving a value of 1.9). The two qualities judged to be least accurate of the Hatteras community are "People here are environmentally aware," 3.37; and "The area has unique architecture," 3.4.

Hatteras informants judge "surf fishing" and "visiting state and national parks" to be the most common uses of their environment, ascribing them both an average value of 1.4. "Commercial fishing" and "surfing" are ranked as only slightly less common uses with respective average values of 1.45 and 1.47. Uses judged to be somewhat common include "bird watching," 2.79; and "educational purposes," 2.9. Ranked least common by Hatteras informants as a use of their environment is "volleyball" with an average value of 4.1.

"Hurricanes," the item judged most likely to change Hatteras if it were to occur tomorrow, received an average value of 1.4 from Hatteras informants. This is not unexpected as the area has witnessed many storms and recent devastation resulting from hurricanes in South Carolina and Florida. Of the top five ranked items, three are issues of growth and development: "overdevelopment," average score 1.6; "unplanned development," average score 1.75; and "too many people," average score 1.75. Items deemed somewhat likely to change the community include "higher taxes," ascribed an average value of 2.7; and "construction of bridges," ascribed an average value of 2.89. The three items judged least likely to change Hatteras if they were to occur tomorrow are "the Clinton Administration," 3.6; "farm runoff," 3.7; and "military activities," 3.85.

# MULTI-DIMENSIONAL SCALING: HATTERAS



# HIERARCHICAL CLUSTERING: HATTERAS

	F	L	O															E	R						
	M	R	C	F	T	F	H	B	P	J	R	O	S	F	I	U	O	P	T	C	M	R	M	E	
	I	E	L	I	A	I	U	R	A	E	E	I	E	R	N	N	V	E	O	H	A	E	A	C	
	L	G	I	L	X	S	R	G	V	T	D	L	W	M	D	P	D	O	U	B	R	G	N	Y	
		1	1		2	1	1		1	1	2					1	1		1	2	1	2	2		
Level	9	6	7	2	0	2	4	5	0	8	2	3	4	1	6	3	8	5	7	1	1	9	3	4	
-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
0.9000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	XXX	XXX	.	.	.	.	.	.	.	.	
0.8000	.	.	.	.	.	.	.	.	.	.	.	.	.	.	XXX	XXX	.	.	XXX	XXX	.	.	.	.	
0.7000	.	.	.	.	.	.	.	XXX	.	.	.	.	.	.	XXX	XXX	.	XXXXX	XXX	.	.	.	.	.	
0.6000	.	.	.	.	.	.	.	XXX	.	.	.	.	.	.	XXX	XXXXXXXXXXXXX	XXX	.	.	.	.	.	.	.	
0.5500	.	.	.	.	.	.	.	XXXXX	.	.	.	.	.	.	XXX	XXXXXXXXXXXXX	XXX	.	.	.	.	.	.	.	
0.5000	.	.	.	.	.	.	.	XXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0.4500	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
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0.3000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXX



## CULTURAL CONSENSUS MODELLING: HATTERAS

Table C-5 CULTURAL CONSENSUS EIGENVALUES: HATTERAS				
Factor	Value	Percent	Cum %	Ratio
1	9.180	93.8	93.8	15.042
2	0.160	6.2	100.0	
	9.790	100		

**Table C-6**  
**ESTIMATED KNOWLEDGE OF EACH INFORMANT: HATTERAS**

Informant	Score	Rank
1	.72	8
2	.77	7
3	.62	12
4	.38	20
5	.77	6
6	.69	9
7	.42	19
8	.67	10
9	.52	18
10	.85	3
11	.60	13
12	.85	2
13	.58	15
14	.63	11
15	.87	1
16	.56	16
17	.83	3
18	.78	5
19	.60	14
20	.56	17

## **SOURCES OF CHANGE PERCEPTION: SIMILARITY ANALYSIS**

Multi-Dimensional Scaling and hierarchical clustering reveal that Hatteras informants perceive highly similar relationships between "farm runoff" and "industrial pollution" and "unplanned development" and "overdevelopment" items. Slightly less similar relationships are viewed between "bringing in chain businesses" and "more marinas" and "relaxing environmental regulations" and "poor management of natural resources." At level 0.7000 "more tourism" joins the "bringing in chain businesses/more marinas" cluster, and a relationship between "construction of bridges" and "paving for roads and parking" is established. A large cluster is formed at level 0.6000 which includes "unplanned development," "overdevelopment," "too many people," "more tourism," "bringing in chain businesses," and "more marinas." Those items perceived by Hatteras informants to be least similar in nature to any other item are "military activities," "stricter fishing regulations," and "the Clinton Administration," none of which are represented until the final level of 0.3000.

As in Wanchese and Nags Head, there is a highly significant level of agreement about the similarity of items across the Hatteras informants. The data fit the Cultural Consensus Model. Informant 15 most closely approximates the cultural mean for judgements about the similarity of items.

#### 4.5.4 Ocracoke

##### RANK ORDERED QUALITIES OF PLACE: OCRACOKE

<u>Quality/Description</u>	<u>Value</u>
F: There is natural beauty here	1.1
N: You live close to the ocean and sound	1.25
T: You can live a water-related lifestyle	1.35
B: There is a "small town" atmosphere	1.4
I: The air is clean	1.45
R: The beaches are clean	1.5
G: The fishing is good	1.55
L: The seafood is good	1.6
M: The crime rate is low	1.6
C: People are friendly	1.65
H: There is a lot of history here	1.65
X: It is easy to find peace and quiet	1.7
V: People have family ties here	1.75
A: People share a sense of community	1.8
O: There are lots of open spaces	2.25
U: There is a seasonal lifestyle	2.25
D: The climate is mild	2.3
Q: There is good surfing here	2.4
W: This is a rural area	2.42
J: The area is not overcrowded	2.65
P: There is not much traffic	2.75
K: People here are environmentally aware	3.0
E: Water quality of ocean & sounds is good	3.1
S: The area has unique architecture	3.3

## RANK ORDERED USES OF THE ENVIRONMENT: OCRACOKE

<u>Use/Description</u>	<u>Value</u>
J: commercial fishing	1.1
F: swimming	1.15
M: surf fishing	1.25
R: crabbing	1.25
E: boating	1.35
L: clamming	1.5
O: sun bathing	1.5
G: surfing	1.65
A: offshore recreational fishing	1.7
T: oystering	1.75
D: windsurfing	1.95
S: sightseeing	1.95
N: visiting state and national parks	2.05
H: sailing	2.1
I: bird watching	2.65
P: water skiing	2.8
K: volleyball	2.95
B: scuba diving	3.0
C: educational purposes	3.28
Q: deer hunting	4.79

## RANK ORDERED SOURCES OF CHANGE PERCEPTION: OCRACOKE

<u>Source of Change</u>	<u>Value</u>
H: overdevelopment	1.45
S: relaxing environmental regulations	1.55
E: construction of bridges	1.65
M: unplanned development	1.7
D: sewage problems	1.75
N: hurricanes	1.8
W: poor management of natural resources	1.8
T: higher taxes	1.95
U: more marinas	1.95
K: bringing in chain businesses	2.0
C: offshore oil drilling	2.05
L: overfishing	2.1
G: more tourism	2.15
O: too many people	2.15
F: industrial pollution	2.2
P: stricter fishing regulations	2.45
A: farm runoffs	2.53
V: red tide	2.75
R: construction of jetties	2.85
B: landfills getting too full	3.05
X: recycling	3.32
J: paving for roads and parking	3.35
I: military activities	3.47
Q: the Clinton Administration	3.55

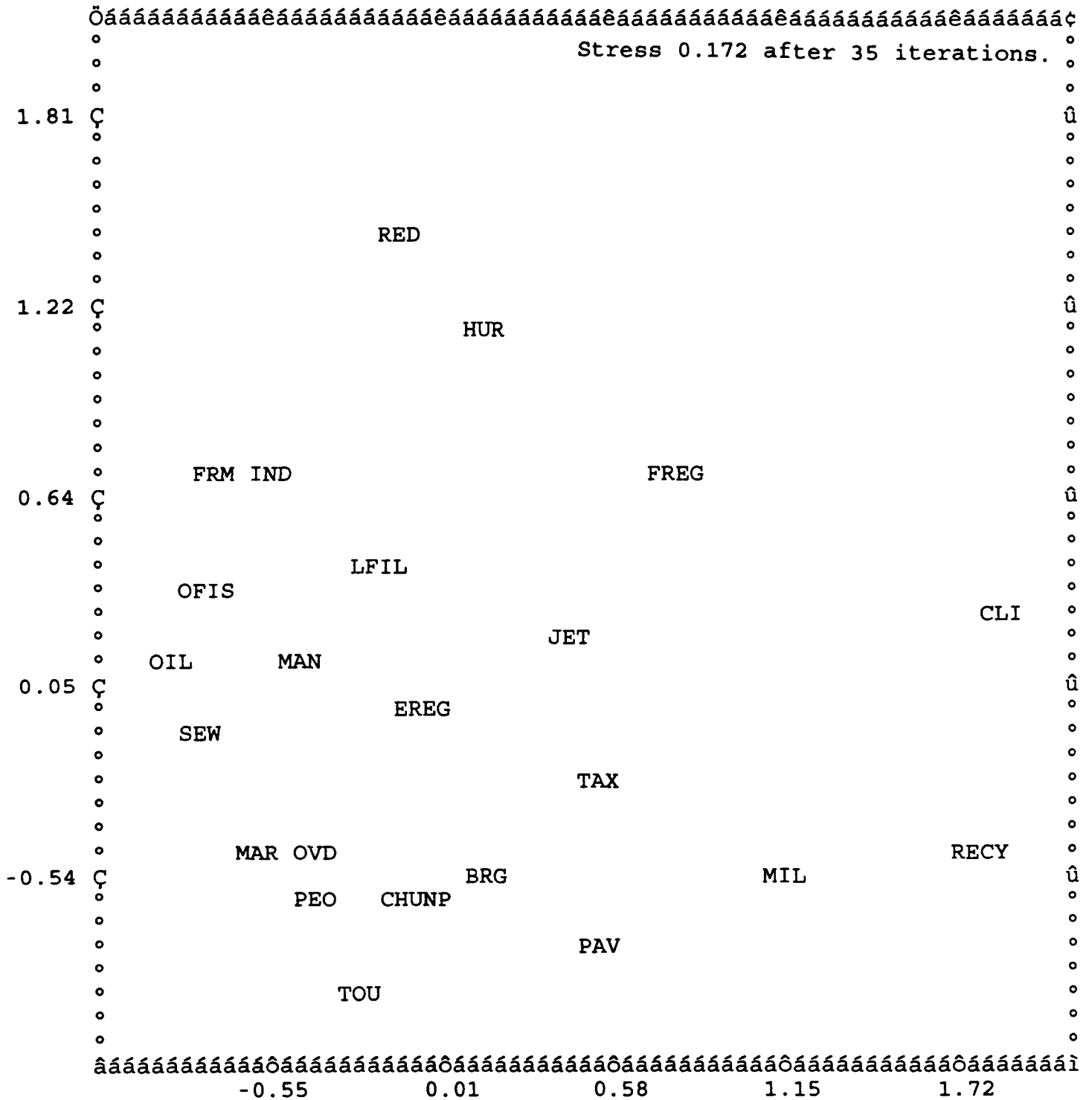
## **LIKERT SCALE ANALYSIS**

The three qualities Ocracoke informants judge to be the most accurate of their community are "There is natural beauty here" with an average value of 1.1; "You live close to the ocean and sound" with an average value of 1.25; and "You can live a water-related lifestyle" with an average value of 1.35. These findings reflect more general findings about the importance residents place on the aesthetic qualities of life on Ocracoke and the unique lifestyle attainable here. Ranked as slightly less accurate by Ocracoke informants are a string of four positive sounding statements about the environment, "The air is clean," 1.45; "The beaches are clean," 1.5; "The fishing is good," 1.55; and "The seafood is good," 1.6. In fact, fifteen of the twenty-four total qualities were ascribed average values of less than 2.0 by Ocracoke informants. Those qualities judged to be the least accurate of Ocracoke are "Water quality of ocean & sounds is good" with an average value of 3.1 and "The area has unique architecture" with an average value of 3.3.

Ocracoke informants perceive "commercial fishing" to be the most common use of their environment, ascribing it an average value of 1.1. This is significant in that commercial fishing in the area, while important to small sectors of the population, is not nearly as significant as it has been in years past. Part of the community does, however, retain a sense of identity about being a fishing village. This use is followed closely by "swimming," "surf fishing" and "crabbing" with respective average values of 1.15, 1.25, and 1.25. A series of eight recreational uses of the environment begins with "windsurfing" and "sight seeing" both ranked at 1.95, and ends with "scuba diving" ranked with an average value of 3.0. A large gap occurs between the two least common uses of the environment: "educational purposes" receives an average value of 3.28 by Ocracoke informants and "deer hunting," judged the least common use of the environment, receives an average value of 4.79. This finding is plausible given that island deer are very small and not generally valued as a source of quality venison.

Four of the top five ranked items identified by Ocracoke informants as most likely to change their community, if they were to occur tomorrow, center on issues of development and infrastructure. "Overdevelopment" was judged the most likely item to change the community, receiving an average value of 1.45. This is followed closely by "construction of bridges," 1.65; "unplanned development," 1.7; and "sewage problems," 1.75. "Stricter fishing regulations," with an average value of 2.45, and "farm runoffs," with an average value of 2.53, are deemed somewhat likely to change Ocracoke if they were to occur tomorrow. "Paving for roads and parking," "military activities" and "the Clinton Administration," with respective average values of 3.35, 3.47, and 3.55, are those items judged least likely to change Ocracoke. Selection of "paving for roads and parking" as not likely to change the community is contradictory to earlier findings, but perhaps reflects a local desire to improve travel and accommodations in the village.

# MULTI-DIMENSIONAL SCALING: OCRACOKE





# HIERARCHICAL CLUSTERING: OCRACOKE

	M	C	H	R	O	S	F	I	F	R	J	F	T	P	B	C	O	U	T	P	M	R	M	E	
	I	L	U	E	I	E	R	N	I	E	E	I	A	A	R	H	V	N	O	E	A	E	A	E	A
	L	I	R	D	L	W	M	D	S	G	T	L	X	V	G	B	D	P	U	O	R	G	N	Y	
		1	1	2					1	1	1		2	1		1		1		1	2	1	2	2	
Level	9	7	4	2	3	4	1	6	2	6	8	2	0	0	5	1	8	3	7	5	1	9	3	4	
0.8500	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
0.8000	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	XXX	.	
0.7500	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	.	.	XXX	.	XXX	.	.	
0.7000	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	XXX	XXXXX	XXX	.	.	.	.	.	
0.6500	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	
0.6000	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	
0.5500	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	
0.5000	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	
0.4000	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	
0.3500	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	

## CULTURAL CONSENSUS MODELLING: OCRACOKE

Table C-7 CULTURAL CONSENSUS EIGENVALUES: OCRACOKE				
Factor	Value	Percent	Cum %	Ratio
1	6.120	76.7	76.7	5.086
2	1.203	15.1	91.8	1.842
3	0.653	8.2	100.0	-
	7.997	100.0	-	-

**Table C-8**  
**ESTIMATED KNOWLEDGE OF EACH INFORMANT: OCRACOKE**

Informant	Score	Rank
1	.81	2
2	-.39	14
3	.53	12
4	.68	5
5	.72	3
6	.56	10
7	.54	11
8	.44	13
9	.09	20
10	.33	17
11	.61	8
12	.57	9
13	.19	19
14	.65	6
15	.34	16
16	.36	15
17	.30	18
18	.87	1
19	.63	7
20	.71	4

## **SOURCES OF CHANGE PERCEPTION: SIMILARITY ANALYSIS**

Multi-Dimensional Scaling (MDS) and hierarchical clustering reveal that Ocracoke informants conceive of "farm runoff" and "industrial pollution" as highly similar items. Perceived as slightly less similar in nature is the relationship between "relaxing environmental regulations" and "poor management of natural resources." At level 0.7500, a relationship between "more tourism" and "too many people" is established, and at level 0.7000 this relationship is augmented by the addition of "more marinas." At this same level, a perceived similarity between "overdevelopment" and "unplanned development" is also revealed. A large cluster is formed at level 0.6500, which includes the items of "construction of bridges," "bringing in chain businesses," "overdevelopment," "unplanned development," "more tourism," "too many people," "more marinas," "relaxing environmental regulations," and "poor management of natural resources." Ocracoke informants perceive "military activities" and "the Clinton Administration" to be the least similar in nature to other items, joining the last cluster at level 0.3500.

Although there is still highly significant consensus about the similarity of items among the Ocracoke informants, there was slightly less agreement than in the previously analyzed communities. The data fit the model, however, indicating a high degree of concordance about the judged similarity of items. Informant 18 ranked highest in relation to the cultural norm of judgements about item similarity.

#### 4.5.5 Atlantic

##### **RANK ORDERED QUALITIES OF PLACE: ATLANTIC**

<u>Quality/Description</u>	<u>Value</u>
T: You can live a water-related lifestyle	1.0
I: The air is clean	1.1
L: The seafood is good	1.1
N: You live close to the ocean and sound	1.1
B: There is a "small town" atmosphere	1.15
F: There is natural beauty here	1.15
X: It is easy to find peace and quiet	1.15
V: People have family ties here	1.2
D: The climate is mild	1.2
H: There is a lot of history here	1.21
G: The fishing is good	1.3
W: This is a rural area	1.3
J: The area is not overcrowded	1.35
C: People are friendly	1.4
O: There are lots of open spaces	1.4
A: People share a sense of community	1.45
M: The crime rate is low	1.5
P: There is not much traffic	1.55
E: Water quality of ocean & sounds is good	1.6
U: There is a seasonal lifestyle	1.68
R: The beaches are clean	1.9
K: People here are environmentally aware	2.9
Q: There is good surfing here	3.3
S: The area has unique architecture	3.45

## **RANK ORDERED USES OF THE ENVIRONMENT: ATLANTIC**

<u>Use/Description</u>	<u>Value</u>
L: clamming	1.0
R: crabbing	1.0
J: commercial fishing	1.15
E: boating	1.2
T: oystering	1.3
F: swimming	1.45
O: sun bathing	1.65
M: surf fishing	1.9
P: water skiing	1.95
Q: deer hunting	1.95
S: sightseeing	2.1
I: bird watching	2.35
A: offshore recreational fishing	2.55
H: sailing	2.6
G: surfing	2.65
C: educational purposes	2.74
B: scuba diving	2.8
N: visiting state and national parks	2.84
D: windsurfing	2.95
K: volleyball	3.4

## RANK ORDERED SOURCES OF CHANGE PERCEPTION: ATLANTIC

<u>Sources of change</u>	<u>Value</u>
D: sewage problems	1.15
A: farm runoff	1.4
V: red tide	1.4
O: too many people	1.45
F: industrial pollution	1.55
S: relaxing environmental regulations	1.55
H: overdevelopment	1.58
C: offshore oil drilling	1.7
L: overfishing	1.7
W: poor management of natural resources	1.7
P: stricter fishing regulations	1.75
T: higher taxes	1.75
G: more tourism	1.95
N: hurricanes	2.0
M: unplanned development	2.05
U: more marinas	2.1
R: construction of jetties	2.15
B: landfills getting too full	2.25
K: bringing in chain businesses	2.25
Q: the Clinton Administration	2.5
X: recycling	2.7
I: military activities	2.74
J: paving for roads and parking	2.85
E: construction of bridges	3.05

## **LIKERT SCALE ANALYSIS**

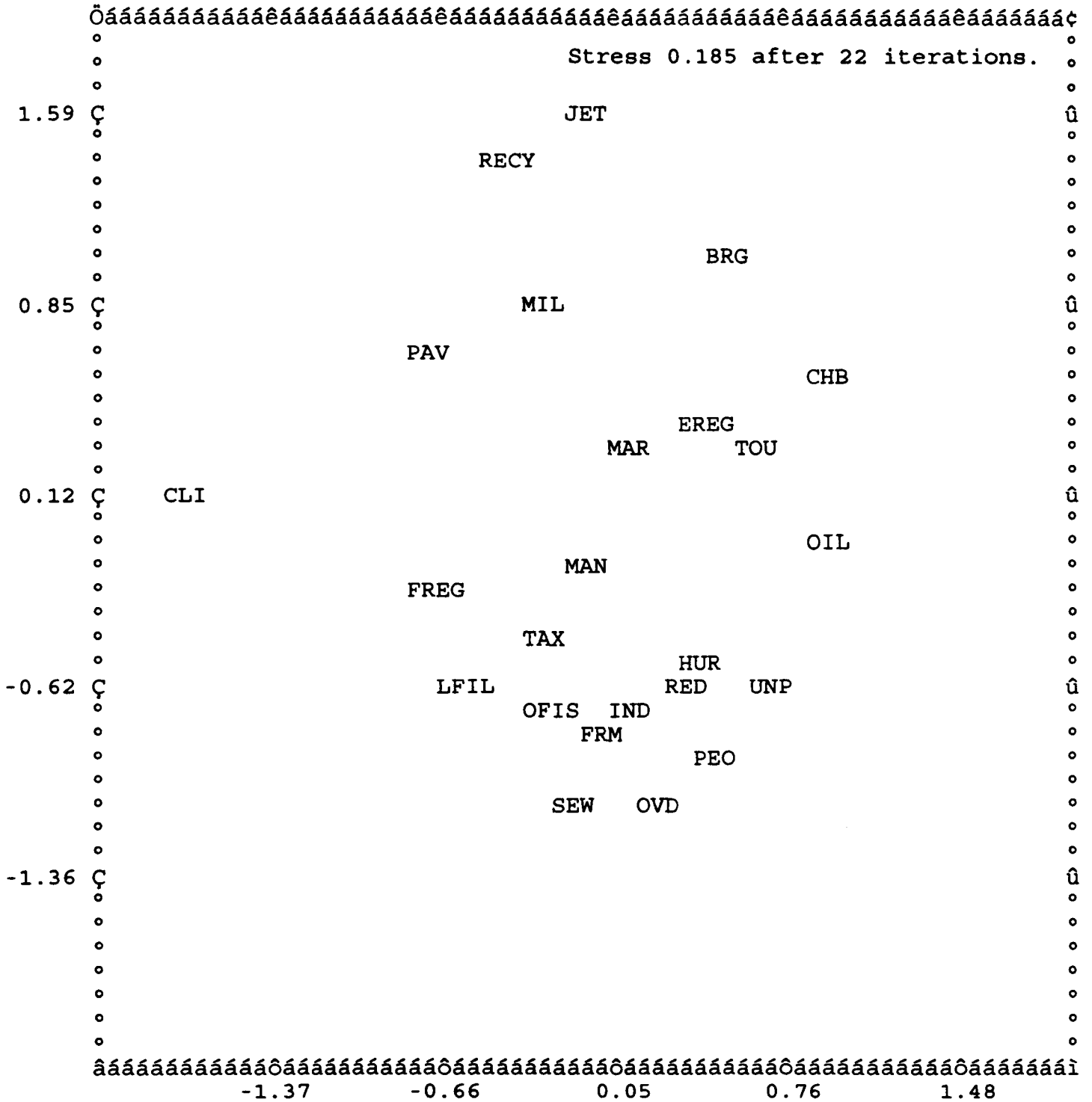
Atlantic informants ranked the quality "You can live a water-related lifestyle" as the most accurate description of their community with an average value of 1.0, indicating that informants were unanimous in their scoring of this item. This finding was expected given the importance local residents place on the fishing lifestyle. In fact, of the twenty-four qualities offered in the pile-sort exercise, Atlantic informants ascribed average values of less than 2.0 to twenty-one qualities, assigning average values of less than 1.5 to a full sixteen qualities. A large gap then occurs between the last item to receive a score of less than 2.0, "The beaches are clean" receiving an average value of 1.9; and the first item to be ranked greater than 2.0, "People here are environmentally aware" receiving an average value of 2.9. The two qualities judged to be the least accurate of Atlantic are "There is good surfing here," 3.3; and "The area has unique architecture," 3.45.

The top three uses of their environment identified by Atlantic informants consist of food gathering/food catching items. "Clamming" and "crabbing" are both ascribed average values of 1.0, indicating they were selected unanimously as the most common uses of the Atlantic environment. "Commercial fishing" follows closely, receiving an average value of 1.15. Again, these responses reflect the local importance of the fishing lifestyle. Judged somewhat common uses of the environment are "bird watching," 2.35; and "offshore recreational fishing," 2.55. The four uses ranked least common of the environment are recreational in nature: "scuba diving," average value 2.8; "visiting state and national parks," average value 2.84; "windsurfing," average value 2.95; and "volleyball," average value 3.4. Given the non-recreational milieu of the community, this finding is not surprising.

A diverse group of change items is ranked as the top five most likely items to change Atlantic if they were occur tomorrow. "Sewage problems" is perceived as the most likely item to change Atlantic, receiving an average value of 1.15. This is followed by "farm runoff" and "red tide" with average values of 1.4; "too many people" with an average value of 1.45; and "industrial pollution" with an average value of 1.55. "Unplanned development," "more marinas," and "construction of jetties" deemed by Atlantic informants as somewhat likely to change their community, received respective average values of 2.05, 2.1, and 2.15. The three change items judged least likely to change Atlantic if they were occur tomorrow are "military activities," 2.75; "paving for roads and parking," 2.85; and "construction of bridges," 3.05.



# MULTI-DIMENSIONAL SCALING: ATLANTIC



# HIERARCHICAL CLUSTERING: ATLANTIC

	C	O	M	B	P	C	T	R	M	F	R	T	R	H	F	S	U	O	I	P	M	J	E	R	
	L	I	R	A	H	O	E	A	I	E	A	E	U	I	R	E	N	V	N	E	A	E	C		
	I	L	L	G	V	B	U	G	R	L	G	X	D	R	S	M	W	P	D	D	O	N	T	Y	
	1				1	1		1	2		1	2	2	1	1		1			1	2	1	2		
Level	7	3	9	5	0	1	7	9	1	2	6	0	2	4	2	1	4	3	8	6	5	3	8	4	
-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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0.5500	.	.	.	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
0.5000	.	.	.	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
0.4000	.	.	.	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX

## CULTURAL CONSENSUS MODELLING: ATLANTIC

Table C-9 CULTURAL CONSENSUS EIGENVALUES: ATLANTIC				
Factor	Value	Percent	Cum %	Ratio
1	6.630	74.4	74.4	4.029
2	1.645	18.5	92.8	2.566
3	0.641	7.2	100.0	-
	8.917	100.0	-	-

Table C-10  
ESTIMATED KNOWLEDGE OF EACH INFORMANT: ATLANTIC

Informant	Score	Rank
1	.50	17
2	.52	14
3	.60	8
4	.58	11
5	.41	20
6	.63	6
7	.55	12
8	.49	18
9	.48	19
10	.53	13
11	.51	16
12	.52	15
13	.65	3
14	.59	9
15	.68	2
16	.69	1
17	.62	7
18	.58	10
19	.64	5
20	.64	4

## **SOURCES OF CHANGE SIMILARITY ANALYSIS**

Multi-Dimensional Scaling and hierarchical clustering indicate that Atlantic residents perceive a high degree of similarity between "red tide" and "hurricanes" items. This relationship is augmented by the addition of "higher taxes" at the 0.8500 level. A relationship between "industrial pollution" and "too many people" is also revealed at this level. The "industrial pollution/too many people" relationship is joined by "overdevelopment" at the 0.8000 level, and a new correlation between "farm runoff" and "sewage problems" is established. At 0.7500 relationships between "construction of bridges" and "paving for roads and parking" and between "more tourism" and "relaxing environmental regulations" are perceived. At this level a larger cluster is also formed between the items of "farm runoff," "sewage problems," "unplanned development," "overdevelopment," "industrial pollution," and "too many people." "The Clinton Administration" is the item which Atlantic residents conceive of to be the least similar in nature to any other item, joining the final cluster at the 0.4000 level.

There was a high level agreement about the similarity of items across the informants in Atlantic. The data fit the Cultural Consensus Model. Informant 16 most closely approximates the cultural norm of judged similarity of items.

#### 4.5.6 Beaufort

##### **RANK ORDERED QUALITIES OF PLACE: BEAUFORT**

<u>Quality/Description</u>	<u>Value</u>
F: There is natural beauty here	1.1
N: You live close to the ocean and sound	1.35
I: The air is clean	1.55
B: There is a "small town" atmosphere	1.6
T: You can live a water-related lifestyle	1.7
C: People are friendly	1.75
H: There is a lot of history here	1.8
V: People have family ties here	1.85
X: It is easy to find peace and quiet	1.9
L: The seafood is good	1.95
G: The fishing is good	2.0
D: The climate is mild	2.05
E: Water quality of ocean & sounds is good	2.15
O: There are lots of open spaces	2.2
R: The beaches are clean	2.2
A: People share a sense of community	2.25
W: This is a rural area	2.35
M: The crime rate is low	2.5
S: The area has unique architecture	2.55
U: There is a seasonal lifestyle	2.55
K: People here are environmentally aware	2.7
J: The area is not overcrowded	2.75
P: There is not much traffic	3.3
Q: There is good surfing here	3.5

## RANK ORDERED USES OF THE ENVIRONMENT: BEAUFORT

<u>Use/Description</u>	<u>Value</u>
E: boating	1.2
O: sun bathing	1.6
H: sailing	1.75
J: commercial fishing	1.75
L: clamming	1.8
A: offshore recreational fishing	1.8
F: swimming	1.85
R: crabbing	1.9
S: sight seeing	2.0
T: oystering	2.0
M: surf fishing	2.05
P: water skiing	2.6
G: surfing	2.7
D: windsurfing	2.8
Q: deer hunting	2.8
N: visiting state and national parks	2.89
I: bird watching	3.0
B: scuba diving	3.05
C: educational purposes	3.15
K: volleyball	3.85

## RANK ORDERED SOURCES OF CHANGE: BEAUFORT

<u>Source of Change</u>	<u>Value</u>
H: overdevelopment	1.5
W: poor management of natural resources	1.7
S: relaxing environmental regulations	1.74
C: offshore oil drilling	1.8
D: sewage problems	1.8
M: unplanned development	1.8
N: hurricanes	1.8
F: industrial pollution	1.85
O: too many people	1.95
L: overfishing	2.0
V: red tide	2.0
A: farm runoff	2.05
G: more tourism	2.15
B: landfills getting too full	2.6
P: stricter fishing regulations	2.7
I: military activities	2.75
J: paving for roads and parking	2.8
T: higher taxes	2.8
E: construction of bridges	3.0
K: bringing in chain businesses	3.0
U: more marinas	3.1
R: construction of jetties	3.2
X: recycling	3.35
Q: the Clinton Administration	3.65



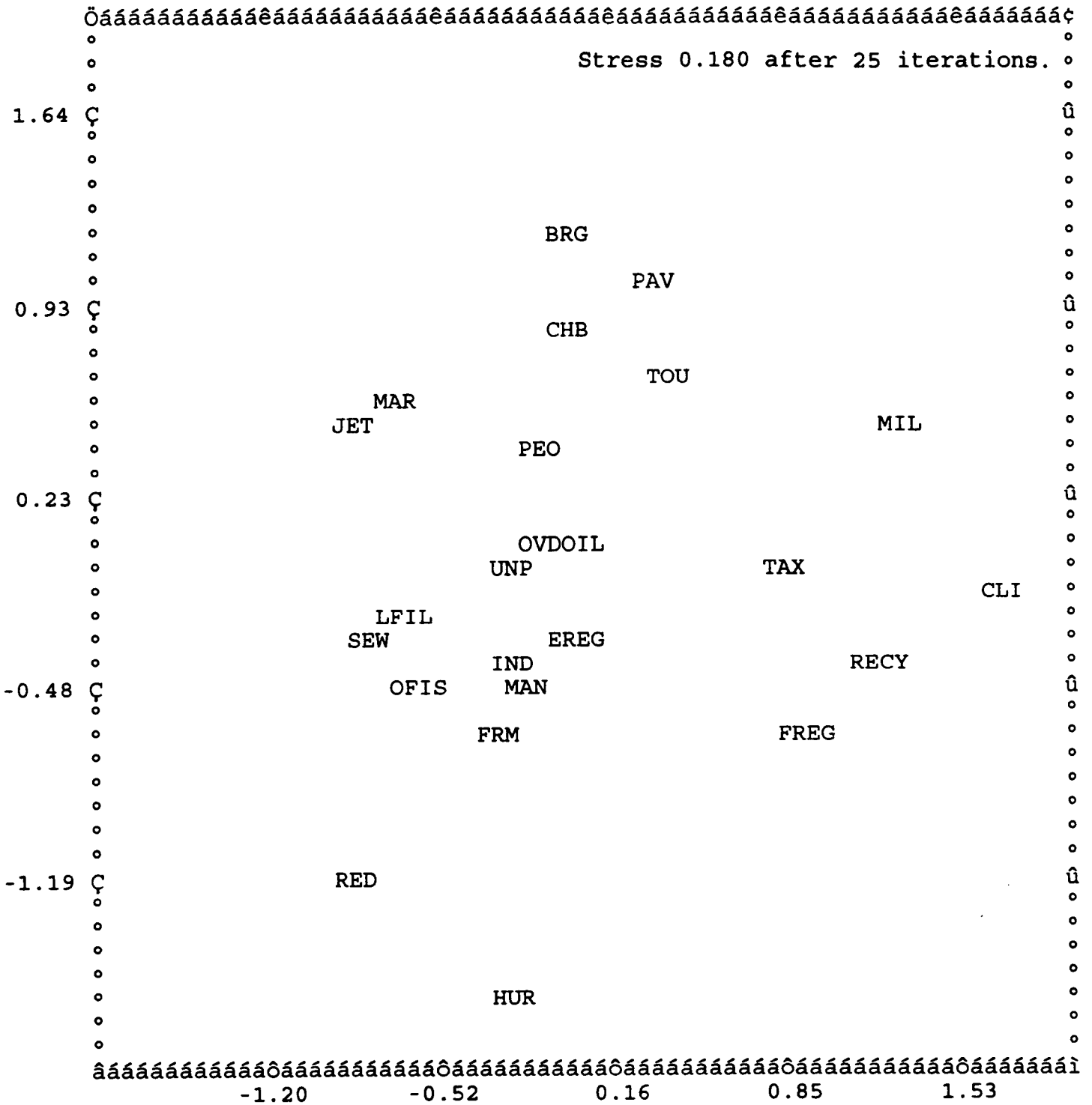
## LIKERT SCALE ANALYSIS

The quality judged most accurate of their community by Beaufort informants is "There is natural beauty here," with an average value assigned of 1.1. Second and third most accurate qualities are "You live close to the ocean and sound," 1.35; and "The air is clean," 1.55. These judgements all support findings that Beaufort residents value the aesthetic qualities of the town, particularly those related to the coastal environment. Half of the twenty-four total items are ranked within values of 2.0 to 2.75. Initiating this span is "The fishing is good," ascribed a value of 2.0; ending the span is "The area is not overcrowded," with an average value of 2.75. The qualities judged to be least accurate by Beaufort informants are "There is not much traffic," average value: 3.3; and "There is good surfing here," average value: 3.5."

Beaufort informants identified the recreational items of "boating" and "sun bathing" as the two most common uses of their environment, ascribing them respective average values of 1.2 and 1.6. This is reflective of the perceived importance of the area as a summer tourist attraction. A tie for the third most common use occurs between "commercial fishing" and "sailing," each of which receive an average value of 1.75. This combination of perceptions about commercial use of the ocean and recreational use supports assertions about the community's diverse economy. "Water skiing" is ranked as a somewhat common use with an average value of 2.6. Beaufort informants judge "volleyball" the least common use of their environment, average value 3.85. This may speak to the fact that this sport is often played on the beach and there is no beach per se in Beaufort.

Beaufort informants identify "overdevelopment" as the item most likely to change their community if it were to occur tomorrow, ascribing it an average value of 1.5. Second and third most likely items are "poor management of natural resources" and "relaxing environmental regulations," with respective average values of 1.7 and 1.74. A cluster of items, "offshore oil drilling," "sewage problems," "unplanned development" and "hurricanes" received average values of 1.8. The three items judged least likely to change Beaufort are "construction of jetties," 3.2; "recycling," 3.35; and "the Clinton Administration," 3.65.

# MULTI-DIMENSIONAL SCALING: BEAUFORT



# HIERARCHICAL CLUSTERING: BEAUFORT

	F									L						O				E		R				
	M	T	R	C	H	R	B	P	C	J	T	M	O	F	F	S	I	P	O	F	F	U	R	E	M	E
	I	O	E	L	U	E	R	A	H	E	A	A	I	I	R	E	N	E	V	I	N	E	A	C		
	L	U	G	I	R	D	G	V	B	T	X	R	L	L	M	W	D	O	D	S	P	G	N	Y		
Level	9	7	6	7	4	2	5	0	1	8	0	1	3	2	1	4	6	5	8	2	3	9	3	4		
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## CULTURAL CONSENSUS MODELLING: BEAUFORT

Table C-11 CULTURAL CONSENSUS EIGENVALUES: BEAUFORT				
Factor	Value	Percent	Cum %	Ratio
1	6.946	79.5	79.5	6.841
2	1.015	11.6	91.1	1.305
3	0.778	8.9	100.0	-
	8.740	100.0	-	-

Table C-12  
ESTIMATED KNOWLEDGE OF EACH INFORMANT: BEAUFORT

Informant	Score	Rank
1	.40	16
2	.36	18
3	.68	8
4	.65	9
5	.80	2
6	.30	19
7	.37	17
8	.72	4
9	.49	13
10	.70	7
11	.70	6
12	.55	12
13	.61	10
14	.58	11
15	.43	15
16	.46	14
17	.81	1
18	.71	5
19	.27	20
20	.73	3

## **SOURCES OF CHANGE SIMILARITY ANALYSIS**

Multi-Dimensional Scaling and hierarchical clustering methods reveal that Beaufort informants perceive a high degree in similarity between the items of "relaxing environmental regulations" and "poor management of natural resources." A slightly lower degree of similarity is perceived between "red tide" and "hurricanes." At level 0.7500, a relationship between "construction of bridges" and "paving for roads and parking" is established, and at level 0.7000 "unplanned development" is added to the "relaxing environmental regulations/poor management of natural resources" cluster. At level 0.6500 a relationship between "farm runoff" and "sewage problems" is revealed, and in level 0.6000, this is augmented with the addition of "landfills getting too full." In this same level, a large cluster is perceived which includes "overdevelopment," "overfishing," "unplanned development," "relaxing environmental regulations," and "poor management of natural resources." "Military activities" is the item which Beaufort informants perceive to be the least similar to any other item; included in the last cluster at level 0.3500.

There was a significant level of consensus about the similarity of items across Beaufort informants. The data fit the Cultural Consensus Model. Informant 17 most closely approximated the cultural norm for the judged similarity of items.

#### 4.5.7 Morehead

##### **RANK ORDERED QUALITIES OF PLACE: MOREHEAD**

<u>Quality/Description</u>	<u>Value</u>
N: You live close to the ocean and sound	1.2
T: You can live a water-related lifestyle	1.25
D: The climate is mild	1.4
B: There is a "small town" atmosphere	1.5
F: There is natural beauty here	1.5
G: The fishing is good	1.5
V: People have family ties here	1.55
I: The air is clean	1.6
L: The seafood is good	1.6
C: People are friendly	1.65
A: People share a sense of community	1.7
H: There is a lot of history here	1.85
W: This is a rural area	1.9
X: It is easy to find peace and quiet	1.94
K: People here are environmentally aware	2.05
E: Water quality of ocean & sounds is good	2.1
Q: There is good surfing here	2.1
U: There is a seasonal lifestyle	2.15
R: The beaches are clean	2.3
O: There are lots of open spaces	2.35
M: The crime rate is low	2.4
S: The area has unique architecture	2.9
J: The area is not overcrowded	2.9
P: There is not much traffic	2.95

## **RANK ORDERED USES OF THE ENVIRONMENT: MOREHEAD**

<u>Use/Description</u>	<u>Value</u>
A: offshore recreational fishing	1.15
E: boating	1.2
J: commercial fishing	1.3
M: surf fishing	1.35
F: swimming	1.4
H: sailing	1.5
L: clamming	1.5
R: crabbing	1.53
T: oystering	1.55
B: scuba diving	1.6
G: surfing	1.68
O: sun bathing	1.75
N: visiting state and national parks	1.85
D: windsurfing	1.95
S: sightseeing	2.05
P: water skiing	2.2
Q: deer hunting	2.26
I: bird watching	2.45
C: educational purposes	2.5
K: volleyball	2.95



## RANK ORDERED SOURCES OF CHANGE: MOREHEAD

<u>Source of Change</u>	<u>Value</u>
N: hurricanes	1.45
W: poor management of natural resources	1.55
V: red tide	1.55
S: relaxing environmental regulations	1.7
H: overdevelopment	1.75
A: farm runoff	1.8
D: sewage problems	1.8
L: overfishing	1.8
C: offshore oil drilling	1.84
P: stricter fishing regulations	1.85
M: unplanned development	1.95
O: too many people	1.95
F: industrial pollution	2.1
I: military activities	2.15
T: higher taxes	2.25
U: more marinas	2.25
B: landfills getting too full	2.26
G: more tourism	2.3
K: bringing in chain businesses	2.7
J: paving for roads and parking	3.0
E: construction of bridges	3.0
R: construction of jetties	3.32
X: recycling	3.5
Q: the Clinton Administration	3.7

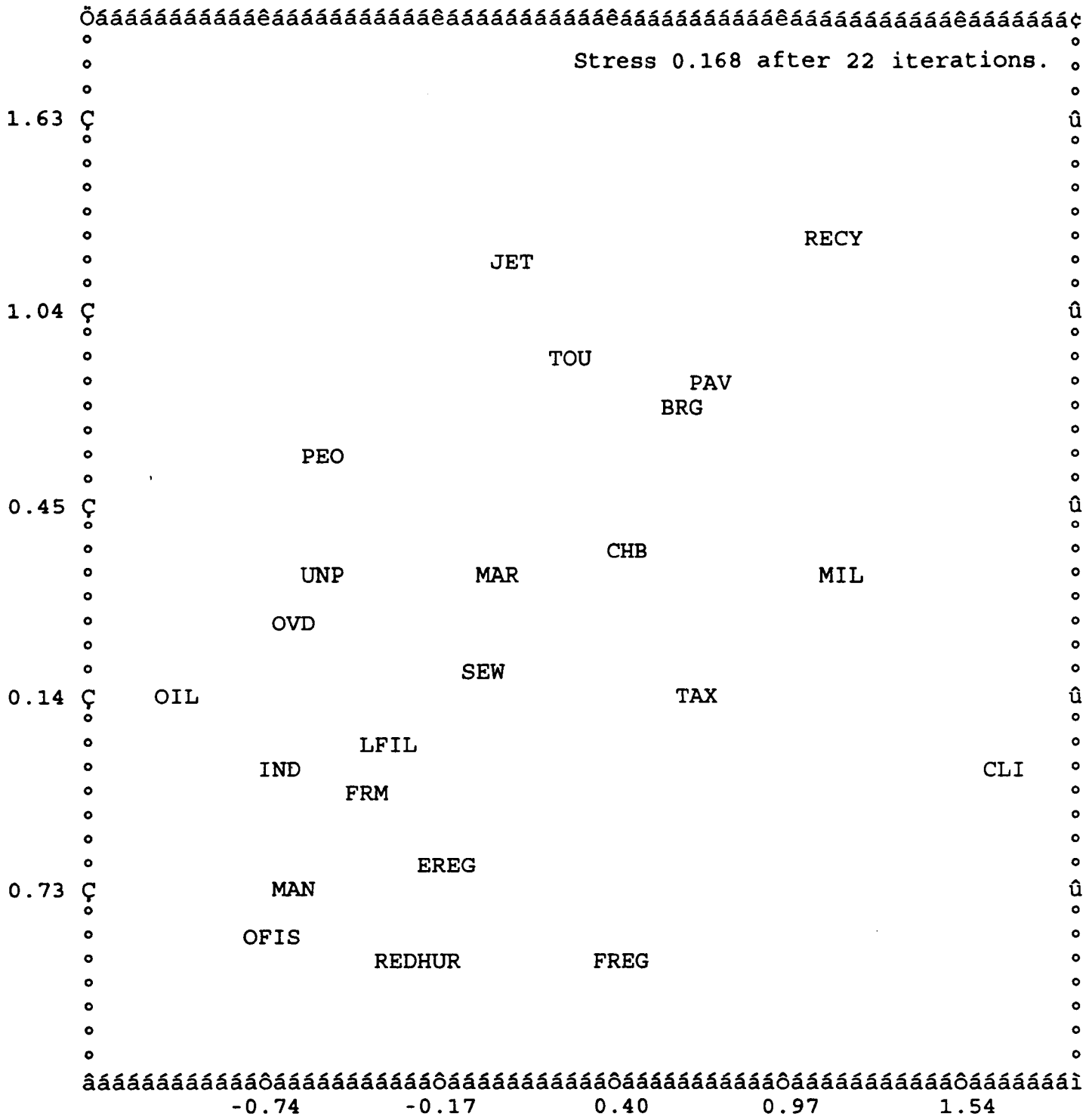
## **LIKERT SCALE ANALYSIS**

Qualities selected as most accurate of their community by Morehead informants are "You live close to the ocean and sound," average value 1.2; "You can live a water-related lifestyle" average value 1.25; and "The climate is mild," average value 1.4. Morehead informants ascribed no average values higher than 2.95. The three qualities considered the least accurate of Morehead are "The area has unique architecture," 2.9; "The area is not overcrowded," 2.9; and "There is not much traffic," 2.95.

Morehead informants rank "offshore recreational fishing" the most common use of their environment, giving it an average value of 1.15. Second and third most common uses are "boating" with an average value of 1.2, and "commercial fishing" with an average value of 1.3. Overall, Morehead informants ascribe no use an average value higher than 2.95, and ascribe fourteen of the twenty uses average values of less than 2.0. "Bird watching," "educational purposes" and "volleyball" are identified as the least common uses of the Morehead environment with respective average values of 2.45, 2.5 and 2.95.

Morehead informants include a wide range of items amongst those that they rank top five most likely to change their community if they were to occur tomorrow. "Hurricanes" tops the list with an average value of 1.45; followed by "poor management of natural resources" and "red tide," each receiving an average value of 1.55; "relaxing environmental regulations," average value 1.7; and "overdevelopment," average value 1.75. The three items deemed least likely to change Morehead are "construction of jetties," 3.32; "recycling," 3.5; and "the Clinton Administration," 3.7.

# MULTI-DIMENSIONAL SCALING: MOREHEAD CITY



# HIERARCHICAL CLUSTERING: MOREHEAD CITY

	C	T	M	J	O	T	P	B	C	R	H	R	O	U	P	M	F	F	S	F	I	R	M	E	
	L	A	I	E	I	O	A	R	H	E	U	E	V	N	E	A	I	I	E	R	N	E	A	C	
	I	X	L	T	L	U	V	G	B	G	R	D	D	P	O	R	S	L	W	M	D	G	N	Y	
	1	2		1			1		1	1	1	2		1	1	2	1						1	2	2
Level	7	0	9	8	3	7	0	5	1	6	4	2	8	3	5	1	2	2	4	1	6	9	3	4	
0.8500	.	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	.	.	.	.	XXX	.	.	.	.	.
0.8000	.	.	.	.	.	.	XXX	.	.	XXX	.	.	.	.	.	.	.	.	.	XXX	.	.	.	.	.
0.7500	.	.	.	.	.	.	XXX	.	.	XXX	.	.	.	.	.	.	.	.	.	XXXXXXX	.	.	.	.	.
0.7000	.	.	.	.	.	.	XXX	.	.	XXX	XXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXX	.	.	.	.	.
0.6500	.	.	.	.	.	.	XXX	.	.	XXX	XXXXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXX	.	.	.	.	.
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## CULTURAL CONSENSUS MODELLING: MOREHEAD CITY

Table C-13 CULTURAL CONSENSUS EIGENVALUES: MOREHEAD CITY				
Factor	Value	Percent	Cum %	Ratio
1	4.995	70.5	70.5	3.609
2	1.384	19.5	90.0	1.995
3	0.708	10.0	100.0	-
	7.087	100.0	-	-

**Table C-14**  
**ESTIMATED KNOWLEDGE OF EACH INFORMANT: MOREHEAD CITY**

Informant	Score	Rank
1	.57	7
2	.61	5
3	.47	10
4	.80	2
5	-.02	19
6	.06	18
7	.24	15
8	.06	17
9	.44	12
10	.47	11
11	.35	13
12	.33	14
13	.50	9
14	.57	8
15	.60	6
16	-.23	20
17	.82	1
18	.70	4
19	.74	3
20	.23	16

## **SOURCES OF CHANGE SIMILARITY ANALYSIS**

According to Multi-Dimensional Scaling and hierarchical clustering Morehead informants perceive a high degree of similarity between the items of "paving for roads and parking" and "construction of bridges" and between "farm runoff" and "industrial pollution." They perceive a slightly lower degree of similarity between "hurricanes" and "red tide." At a level of 0.7500, a cluster of similarly perceived items appears which includes "farm runoff," "industrial pollution," "relaxing of environmental regulations," and "poor management of natural resources." At level 0.7000, this cluster is augmented by the addition of "landfills getting too full" and "sewage problems." A new relationship is also revealed at this level between "overdevelopment" and "unplanned development." At level 0.6500, the "overdevelopment/unplanned development" coupling is joined by "too many people," and the "farm runoff" et al. cluster is further added to by "overfishing" and "more marinas." "The Clinton Administration" is the items perceived by Morehead informants to be the least similar to any other item, becoming part of a cluster at level 0.4000.

There was a significant level of consensus about the similarity of items across Morehead informants. The data fit the Cultural Consensus Model. Informant 17 most closely approximated the cultural norm for the judged similarity of items.

#### 4.5.8 Inland Groups

#### RANK ORDERED QUALITIES OF PLACE: INLAND GROUPS

<u>Quality/Description</u>	<u>Value</u>
F: There is natural beauty here	1.17
H: There is a lot of history here	1.5
T: You can live a water-related lifestyle	1.5
D: The climate is mild	1.56
N: You live close to the ocean and sound	1.61
U: There is a seasonal lifestyle	1.82
I: The air is clean	1.83
L: The seafood is good	1.83
G: The fishing is good	1.88
X: It is easy to find peace and quiet	1.94
O: There are lots of open spaces	2.0
B: There is a "small town" atmosphere	2.11
V: People have family ties here	2.22
C: People are friendly	2.39
A: People share a sense of community	2.47
R: The beaches are clean	2.83
W: This is a rural area	2.83
K: People here are environmentally aware	2.89
S: The area has unique architecture	2.94
M: The crime rate is low	3.06
E: Water quality of ocean & sounds is good	3.22
Q: There is good surfing here	3.24
J: The area is not overcrowded	3.39
P: There is not much traffic	3.94



## RANK ORDERED USES OF ENVIRONMENT: INLAND GROUPS

<u>Use/Description</u>	<u>Value</u>
E: boating	1.39
M: surf fishing	1.44
A: offshore recreational fishing	1.5
F: swimming	1.67
O: sun bathing	1.67
H: sailing	2.06
R: crabbing	2.11
L: clamming	2.17
T: oystering	2.17
J: commercial fishing	2.22
N: visiting state and national parks	2.35
B: scuba diving	2.5
S: sightseeing	2.5
G: surfing	2.61
D: windsurfing	2.72
P: water skiing	2.72
C: educational purposes	3.06
I: bird watching	3.22
Q: deer hunting	3.61
K: volleyball	3.94

## RANK ORDERED SOURCES OF CHANGE: INLAND GROUPS

<u>Source of Change</u>	<u>Value</u>
H: overdevelopment	1.33
M: unplanned development	1.33
O: too many people	1.44
W: poor management of natural resources	1.5
D: sewage problems	1.56
L: overfishing	1.61
F: industrial pollution	1.72
S: relaxing environmental regulations	1.72
A: farm runoff	1.83
G: more tourism	1.89
R: construction of jetties	2.00
C: offshore oil drilling	2.11
N: hurricanes	2.22
U: more marinas	2.24
B: landfills getting too full	2.44
E: construction of bridges	2.5
J: paving for roads and parking	2.53
P: stricter fishing regulations	2.61
V: red tide	2.94
T: higher taxes	3.11
K: bringing in chain businesses	3.50
X: recycling	3.53
Q: the Clinton Administration	3.56
I: military activities	3.94

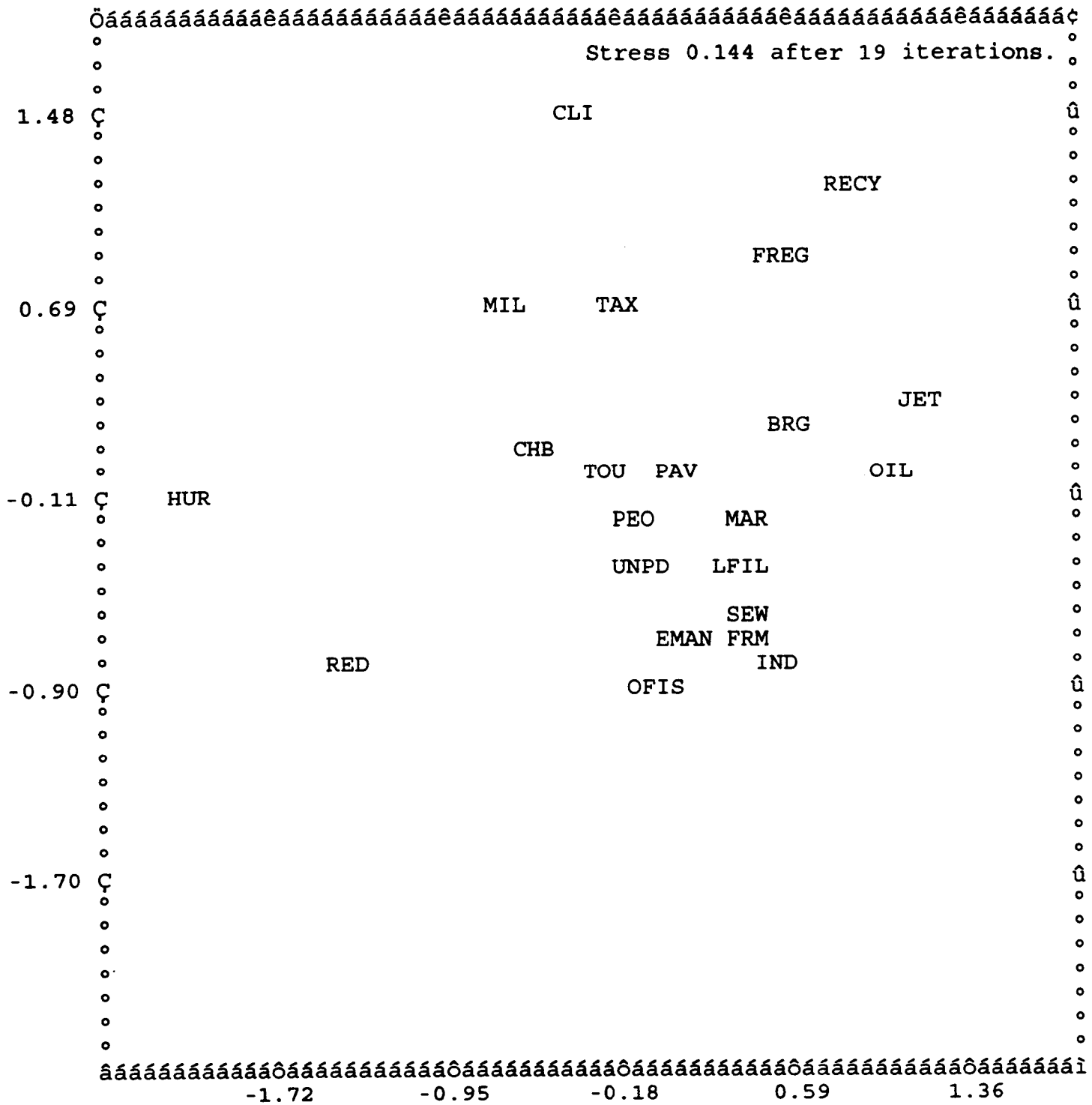
## **LIKERT SCALE ANALYSIS**

"There is natural beauty here" was the quality which Inland Group informants judge to be the most accurate of their community, ascribing it an average value of 1.17. This is followed closely by "There is a lot of history here" and "You can live a water-related lifestyle," both of which receive an average value of 1.5. An uninterrupted string of four people-related qualities begins with "There is a 'small town' atmosphere," average value 2.11; and ends with "People share a sense of community," average value 2.47. Qualities deemed least accurate by Inland Group informants are "The area is not overcrowded," ascribed an average value of 3.39, and "There is not much traffic," ascribed an average value of 3.94.

Inland Group informants consider "boating" to be the most common use of their environment, ascribing it an average value of 1.39. Second and third most common uses are "surf fishing" and "offshore recreational fishing" with respective average values of 1.44 and 1.5. A series of food gathering/food catching activities including "crabbing," "clamming," "oystering" and "commercial fishing," occurs uninterrupted, receiving average respective values of 2.11, 2.17, 2.17, and 2.22. "Deer hunting" is judged by Inland Group informants to be the least common use of their environment with an average value of 3.61.

Inland Group informants perceive the items of "overdevelopment" and "unplanned development" to be those most likely to change their community if they were to occur tomorrow. Other growth and development issues are ranked similarly: i.e. "too many people" and "poor management of natural resources," receive respective average values of 1.44 and 1.5. Those items deemed least likely by Inland Group informants to change the community are "recycling," "the Clinton Administration" and "military activities," receiving respective average values of 3.53, 3.56, and 3.94.

# MULTI-DIMENSIONAL SCALING: INLAND GROUPS



# HIERARCHICAL CLUSTERING: INLAND GROUPS

	F										O L						E R							
	H	R	M	C	T	R	O	J	B	M	P	C	F	F	S	I	T	U	O	P	R	M	E	
	U	E	I	L	A	E	I	E	R	A	A	H	I	I	R	E	N	O	N	V	E	E	A	C
	R	D	L	I	X	G	L	T	G	R	V	B	S	L	M	W	D	U	P	D	O	G	N	Y
	1	2		1	2	1		1		2	1	1	1					1		1	1	2	2	
Level	4	2	9	7	0	6	3	8	5	1	0	1	2	2	1	4	6	7	3	8	5	9	3	4
0.8889	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	XXX	.	.	.	.	.
0.8333	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	XXXXX	.	XXXXX	.	.	.	.	.	.
0.7222	.	.	.	.	.	XXX	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXX	XXX	.	.	.	.	.	.	.	.
0.6667	XXX	.	.	.	.	XXX	XXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.5556	XXX	.	XXX	.	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.5000	XXX	.	XXX	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.3889	XXX	.	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.3333	XXX	.	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.2778	XXX	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0.2222	XX	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

## CULTURAL CONSENSUS MODELLING: INLAND GROUPS

Table C-15 CULTURAL CONSENSUS EIGENVALUES: INLAND GROUPS				
Factor	Value	Percent	Cum %	Ratio
1	7.216	79.9	79.9	6.401
2	1.127	12.5	92.3	1.628
3	0.692	7.7	100.0	-
	9.035	100.0	-	-

**Table C-16**  
**ESTIMATED KNOWLEDGE OF EACH INFORMANT: INLAND GROUPS**

Informant	Score	Rank
1	.77	2
2	.57	11
3	.44	16
4	.70	8
5	.67	10
6	.72	6
7	.43	17
8	.74	4
9	.79	1
10	.54	13
11	.50	15
12	-.28	18
13	.72	5
14	.53	14
15	.68	9
16	.71	7
17	.57	12
18	.76	2

## **SOURCES OF CHANGE SIMILARITY ANALYSIS**

Multi-Dimensional Scaling (MDS) and hierarchical clustering methods reveal that Inland Group informants perceive a high degree of similarity between the items of "unplanned development" and "overdevelopment." A slightly lower degree of similarity is revealed at level 0.8333 between "farm runoff," "sewage problems," and "industrial pollution," and at this same level, the "unplanned development/overdevelopment" pairing is joined by "too many people." At level 0.7222, a large cluster is formed including the similarly perceived items of "landfills getting too full," "farm runoff," "sewage problems," "industrial pollution," "more tourism," "unplanned development," "overdevelopment," and "too many people." At this level, a relationship between "offshore oil drilling" and "construction of jetties" also emerges. "Military activities" is the last item to join a cluster, indicating that Inland Group informants perceive it to be the least similar item in nature to the other items.



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