

Working Paper

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Guidelines for Questionnaire

Construction: An Analysis  
and Critique of a Mail Survey

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## 1. QUESTIONNAIRE DESIGN: OVERVIEW

This Section is an evaluation of the Xenia follow-up questionnaire. Rather than merely criticize the questionnaire, recommendations will be made for future questionnaire designs. The recommendations will range from broad philosophical statements about questionnaires to specific points about their construction. It should be remembered that the recommendations are ideals and are couched in value statements, and thus consideration of each recommendation entails a cost-benefit analysis. For example, even though a particular recommendation may present the ideal course of action, the availability of funds or personnel at DRC may restrict the fulfillment of the ideal. Thus, these recommendations are meant as guidelines to questionnaire construction. The format will be to present a short statement of the recommendation and then to provide a more thorough discussion of the issues, costs and benefits of that recommendation.

### Recommendation 1.

Survey questionnaires should be constructed so as to reflect a good image of DRC. The questionnaire should be neat, attractive, and aesthetically pleasing. In short, it should look "professional." This can be accomplished in several ways:

- a) Spacing between questions should be adequate to prevent a crowded, cluttered format.
- b) Only one side of a sheet of paper should be used for each page of the questionnaire.
- c) Question format should provide a uniform appearance. This standardization should include punctuation, indentation, spelling and spacing.

Following the Xenia tornado, the Disaster Research Center (DRC) selected a random sample of Xenians for interviewing. Though DRC does not normally utilize the technique of mailed questionnaires, a year later these people were again contacted through a mailed questionnaire in a follow-up study. This report is an evaluation of the follow-up questionnaire, and it is hoped that it will provide useful criteria for future efforts at questionnaire construction.

The report will be divided into four main sections: Section 1 deals with broad issues of questionnaire construction and design; Section 2 examines the problems in coding questionnaires; Section 3 is a critical analysis of the Xenia Follow-up Questionnaire; and Section 4 is a critical analysis of the Xenia Children's Follow-up Questionnaire. Sections one and two deal with broad, overarching topics, whereas Sections three and four are more specific and focus on the critique of DRC's attempt at questionnaire design.

d) Physical construction of the questionnaire should be uniform and reflect an orderly, "smooth" appearance.

e) Xerox or professional printing services should be employed to reproduce questionnaires.

#### Discussion

Many times a mail survey respondent's only contact with DRC will be through the survey. The format and appearance of the survey will thus reflect the nature of DRC to the respondent. If DRC is to appear "professional" or credible, then its surveys must also appear professional. Care should be taken to develop a questionnaire which represents DRC in the most positive light. No matter how well-constructed the questions in the survey are, if a respondent develops a negative image of DRC because of a sloppy or confusing format, she/he may take her/his responses lightly, or worse, throw the survey away as junk. Though the effect on the reliability of the survey cannot be completely substantiated, a sloppy and unattractive survey must surely lessen the respondent's willingness to take the study seriously and to devote a reasonable degree of attention to it. If DRC expects respondents to take the time to fill out a four, five or more page questionnaire, then we must project an image that would impress the respondent with the importance of the questionnaire.

a. There should be adequate space between questions or sections of a survey to prevent a crowded format. A survey that is typed with single- and an occasional double-spacing will look cluttered and detract from the overall professional effect.

A second problem that over-crowding of questions presents is the difficulty respondents experience in linking questions with responses. When several stem questions are placed vertically opposite a column of responses without adequate spacing, it becomes difficult for the respondent

to visually keep the proper question and response in line. On occasion a respondent will lose track and mark the same set of responses twice, while missing the response for the question above or below it. This problem results in the needless loss of two responses because both questions have to be coded as non-data, a problem which could be lessened structurally by adequately spacing the questions.

While it is desirable to spread out questions on a survey, this does entail some costs. The more space between questions, the more pages that are needed to accommodate the same number of questions. There is a trade-off among (a) number of questions required for the study, (b) page number limit, and (c) appearance of the survey. A survey that is crowded may intimidate a respondent; however, a lengthy questionnaire may be equally intimidating. One could restrict the number of questions, but there is a limit to how few questions can be asked and still adequately elicit the information needed for the study at hand. The survey designer should balance all three of these factors when considering the physical format of the questionnaire.

b. Questionnaires should be printed on only one side of a page (unless the questionnaire is bound to resemble a pamphlet or book). A questionnaire which uses both sides of a page may appear crowded and intimidating, unless it is well-spaced and well-designed. A respondent may also become confused while turning pages and may miss an entire page in the shuffle. This problem becomes more acute when ditto or stencil are used for reproduction. These two methods tend to result in "bleed-through" of the ink which creates a sloppy survey which is also difficult to read. Questionnaires of this type create a very unfavorable image and

may be so difficult to read as to discourage the respondent from even attempting to answer the questions.

The disadvantages of using both sides of a page may be outweighed by the advantages of shortening the length of the survey. Shortening the survey would lower mailing costs by requiring fewer stamps per survey on both sending and return. Another advantage of using both sides of a page is an increase in the number of questions which can be asked on surveys of similar physical length. The question then becomes: Is a respondent more intimidated by, say, 8 single pages or 4 pages on both sides? (Since the answer to this question is not known, no solution will be attempted here, but studies to examine this problem might be profitable.) A final advantage of using both sides of a page is its ecological contribution. By cutting in half the number of pages required for surveys, a research team saves a great deal of paper, which is a saving of resources.

c. The format of a questionnaire should be uniform in respect to the punctuation, indentation, spelling, spacing and capitalization. A survey which has different indentations for major questions, capitalizes some major questions and not others or utilizes different spellings for the same word looks, and is, shoddy and reflects this image of DRC to the respondent. A little extra time should be taken to proofread specifically to correct these types of mistakes. This is one recommendation that offers little in the way of disadvantages compared to the advantage of developing a questionnaire that will reflect DRC in a positive light.

d. Along the same lines as the preceding recommendation, it is advisable to physically type and structure the questionnaire so that it appears smooth and orderly. Examples of this would be:

(i) If a series of questions have similar responses or responses that are of equal length, the stem of the questions should be typed on a separate line with the responses typed and arranged beneath the stem and in a column with responses of questions above and below.

Instead of:

1. My health has been: \_\_\_\_\_ better; \_\_\_\_\_ worse;  
\_\_\_\_\_ the same.
2. Since the tornado the mental health of my family has  
been: \_\_\_\_\_ better; \_\_\_\_\_ worse; \_\_\_\_\_ the same.

this could be typed:

1. My health has been  
\_\_\_\_\_ better \_\_\_\_\_ worse \_\_\_\_\_ the same.
2. Since the tornado the mental health of my family has been  
\_\_\_\_\_ better \_\_\_\_\_ worse \_\_\_\_\_ the same.

(ii) When blank lines are used for respondent's check mark, these lines should precede the response and be placed in vertical fashion.

Rather than:	it could be typed:
Single person _____	_____ Single person
Couple _____	_____ Couple
Couple with children _____	_____ Couple with children

(iii) Questions with run on responses, (i.e., where the response finishes a sentence started in the question), should be avoided unless care is taken to space them carefully. Though these questions-responses save space they detract from the overall appearance of the survey.

(iv) Margins and columns of questions should be even and uniform. If at all possible, the physical length of a question should be kept

uniform with the others. This could be accomplished by ending the line of type for long questions even with the length of the shortest question and continuing on the next lines.

Rather than:

3. How often have you felt tired? \_\_\_\_\_
4. How often have you allowed petty annoyances or  
distractions to bother you? \_\_\_\_\_

it could be typed :

3. How often have you felt tired? \_\_\_\_\_
4. How often have you allowed petty  
annoyances or distractions  
bother you? \_\_\_\_\_

The aim in all of these examples is to produce a questionnaire that looks uniform with "smooth lines." A jagged appearance only detracts from the aesthetic value of a survey. A problem with the above suggestions is that implementation of (i), (iii), and (iv) requires more space on the questionnaire. Again, the trade-off between length and aesthetic appearance is encountered. The physically longer the questionnaire, the greater the chance of intimidating the respondent. By running questions and responses together, the survey may have the same number of questions as a more uniform survey but require fewer pages, which in turn makes it seem to be a shorter survey. This trade-off is very real when the designer desires many questions, especially when the survey is exploratory in nature. However, one major problem of research always seems to be that you cannot ask enough questions, so, up to a point, this issue may seem to be worse than it actually is. The number of questions needed may be limited to far fewer than was originally thought possible through careful question construction.



e. Some possible ways of questionnaire reproduction are: ditto, stencil (mimeo), Xerox and various professional printing techniques. Ditto produces acceptable copies but should never be used for large-scale or "professional" work. For copies used in a pretest or for DRC circulation this method would be acceptable. The greatest advantage of ditto is its relatively low cost per copy. Stencil produces a reasonably priced copy, but the print tends to be hazy. Stencil also tends to "bleed through", which is unattractive. Xerox or other "photo" reproduction techniques produce highly readable copies (depending on the brand and quality of the copy machine and paper) but cost much more per copy (\$.05 per copy or higher) than ditto or stencil. Professional printing provides the highest quality copy and the greatest versatility in format design, but is also the most expensive if fewer than many hundreds of copies are needed.

DRC should choose the reproduction technique that would produce the most readable and "professional" looking results. This choice will have to be made within the limits of the budget for a particular study. No one reproduction technique should become the sole method employed just because it is easier. Selection should be based on cost and quality considerations. If DRC ever plans on extensive use of mail surveys it might be advantageous to investigate the purchase or rental of reproduction equipment of higher quality than the ditto and stencil machines now employed.

#### Recommendation 2.

DRC surveys should avoid the use of single-answer (one-choice) responses. If a respondent is being requested to choose between "a" and "non a", both possible responses should be provided.

## Discussion

Even though there may be only two possible answers to a question (e.g., yes, no), asking the respondent to check a response if something happened or leave it blank if it didn't is a dangerous practice. The only way this practice is acceptable is if one could be absolutely sure that respondents read and understand every question in the survey. However, no one is ever sure, so the possibility exists that the respondent forgot to read this question or did not want to answer the question (this is especially true if the affirmative response would indicate an embarrassing answer). It is not totally valid to assume that a blank response is a conscious decision on the part of the respondent to reply "non a". A significant number of individuals who never intended to answer "non a", but instead merely forgot to respond to the question, could drastically alter the findings of a study.

The problem here is lessened if the survey designer merely is looking at, for example, those who answer "Yes" to a particular item, and the "Yes" response requires a positive notation on the survey instead of leaving the response blank. Thus, he/she can be fairly confident that those answers checked mean "yes" and that the checked answers represent X% of the sample. However, to say then that the number of unchecked responses is the same as the number answering "No" is not quite accurate, since it could also include a "missing data" category. Those answering "n" could be  $100 - X\%$  but they could also be something more like  $100 - X - Z$  ( $Z$  = those not answering the question for whatever reason). It would, therefore, be dangerous to make any definitive statements about those who respond "no" on this particular statement. (You could, thus,

not safely say that 70% of those in Xenia did not feel that they had problems with local government, though you could more accurately state that 30% of the respondents did have trouble.) This then gets out of the realm of questionnaire construction and into interpretation of data, but it is an important reason why single-answer questions should not be used.

A defense for using single-answer questions is that they reduce crowding and take up less room. The single-answer questions do look neater, but the problems involved seem to far outweigh this advantage.

### Recommendation 3.

Questions and directions for filling out questions should be constructed so as to be clear and easily understood. Respondents should not have to "interpret" a question. Question construction includes not only validity of the questions but also mechanical issues such as good grammar and sentence construction.

### Discussion

Poorly constructed questions jeopardize the validity and reliability of a survey. The designer cannot be confident that his/her respondents are "interpreting" questions the way they were intended to be interpreted nor is he/she certain if all respondents interpret the question the same way. Poorly designed directions also affect validity and reliability, as the designer is never sure if all respondents are following the directions correctly or interpreting the directions the same.

Questions should all be written concisely yet provide enough information so the respondent knows what is being asked. It would generally be better to keep questions short, however, if there is not enough information, respondents may not know how to interpret the question or may have

to "read something into" the question in order to answer it. Questions should avoid words that can be interpreted differently by various respondents (e.g., the question: "How many different addresses have you had since the tornado?" can be understood to mean how many addresses, including where I was living during the tornado, or how many addresses since the tornado not including the first one.) Regional language differences may also cause problems, so national surveys or surveys for regions of the country with which the designer is not familiar may require extra care. Problems have developed in lower class or working class areas because respondents did not understand the language of the researcher. In this case the need for grammatically correct questions and directions may have to be waived in favor of questions that can be understood by the respondents. Sociological or professional jargon should be avoided in a survey. This is particularly problematic, since after an individual has been in a profession for awhile they begin to feel everyone talks this way. Sometimes "operational definitions" may be needed to clarify a term for a respondent, so that the term is understood in the context that the designer intended.

Directions in the survey should follow the same guidelines as above. Lengthy directions should be avoided, since they may confuse the respondent. Providing directions for what not to do might also be as helpful as directions for what to do. Care should be taken not to "tip-off" respondents as how they "should" answer the question by infusing values in the directions or questions.

#### Recommendation 4.

"Conditional questions" should be followed by some clear notation which indicates to the respondent how they should proceed. (e.g., if you answered Yes on #25 proceed to #30.)

#### Discussion

Unless directions are provided for questions which are conditional on certain responses in earlier questions, respondents may become confused or blithely answer all of the questions, even those that are logically inconsistent. The coder can spot areas where certain sets of responses are inappropriate or how certain answers to the major question may not exclude certain responses, even though originally it was assumed that these answers were impossible.

The physical structure of the questionnaire may accent conditional responses. By indenting the subquestions or by use of upper or lower case type the survey designer can set conditional questions apart.

A disadvantage of this practice is that certain sets of responses are precluded from occurring according to the survey designer's perception. If a respondent answers X to question #23 he should not respond to the next six questions. This is acceptable if the designer has accurately assessed the situation. However, respondents may perceive the world differently and be able to logically answer X to #23 and answer the next six questions.

#### Recommendation 5.

All surveys should be subjected to rigorous pre-testing. Pre-tests may be conducted with other colleagues and/or with a sub-section of the survey sample.

## Discussion

Questions which seem absolutely clear to the survey designer may not be so clear to a non-sociologist respondent. Conversely, responses may be elicited which were not anticipated by the unworldlywise sociologists. Pre-tests may help correct many problems, such as clarity of questions or appropriateness of closed responses. One excellent method of pre-testing is to administer the survey to colleagues who are not working on the project. Instructions should be given to not only answer the questions but to make notations on questions that were difficult, ambiguous or poorly worded.

One problem with pre-testing is that it takes up valuable time and effort. A project working under time constraints may not have the luxury of sending out a set of questionnaires for a pre-test and then waiting several weeks or months for their return.

## 2. CODING CONSIDERATIONS

Coding is a crucial step in survey research. If a great deal of care is not taken in this step in the research process, much diligent work in questionnaire design and construction will be wasted. Poor coding practices can greatly limit the reliability of a study or significantly affect results. The format followed in this section will correspond to the format in the section on questionnaire design. Note: Many of the following discussions apply to the coding of complicated or poorly designed questionnaires, or open-ended questions. The recommendations do not necessarily apply to simple close-ended questionnaires.

### Recommendation 1.

Some method to check inter-coder reliability must be designed before coding ever starts.

## Discussion

Several possible alternatives could be proposed to check inter-coder reliability:

- a. All the coders involved could meet prior to actual coding, read through the survey instrument, discuss the problems which are encountered, and together arrive at resolutions.

Following this initial meeting, all coders would respond to the survey instrument themselves. Each coder would then code another's response. In this manner the coders would have an opportunity to obtain a "feeling" for the survey instrument.

- b. All of the coders involved would code a set number of questionnaires (5-10). After having completed this task the coders would then meet and discuss the various problems they confronted. In this manner, a number of problems could be resolved with only a small number of questionnaires requiring recoding.
- c. Every coder would code a relatively large number of questionnaires (20-30). After having completed this task each set would be recoded by another coder. In this manner productivity could be kept high, and at the same time one could establish consistency among coders.
- d. All coders could code the same set of questionnaires. Thus more consistency would be gained than through suggestion three above, however, productivity would be sacrificed.

A problem with some of these alternatives is that coders would need to be on similar schedules to meet at the same time. Also the more duplication of effort, the lower the productivity of the coders. If time is essential

this may become crucial. This stage could be accomplished with pre-test data or several early returns which would not significantly affect later work output.

#### Recommendation 2.

Coders should be thoroughly trained in procedures and be familiarized with the survey before actual coding begins.

##### Discussion

Coders who are not familiar with the survey or are not familiar with the coding process will produce unreliable work. Quantity of production will be limited in these circumstances also. Several sessions should be used for this training, as it is extremely important for successful coding. Again, the problem of limited resources may hinder adequate training, but care should be taken to plan training into the survey procedure.

#### Recommendation 3.

A master codebook should be established before coding begins and should be kept current throughout the project. All coders should have easy access to this codebook.

##### Discussion

The survey designer should develop a list of all possible codes, at least for closed-ended questions, before the coding process begins. Any changes in the codes should be recorded immediately in the master codebook. This procedure will provide one source of answers to problems. If changes are recorded immediately, the problem of forgetting what the changes were when later analyzing the data will be eliminated.

Access to the master codebook is also important. Unless coders can easily consult the codebook, the positive functions of this recommendation



are largely negated. This is especially true at DRC where no centralized area is available for coding. Unless the questionnaire is so simple and closed-ended that no changes are anticipated, coders should check the master codebook daily to determine if changes have been made in the codes. These changes can then be incorporated into the individual coder's codebook.

#### Recommendation 4.

All "value decisions" made by coders should be entered on a card or "running list." This procedure may also be used to record open-ended responses or responses in "other" categories.

#### Discussion

Responses to questions which do not quite fit the existing codes are bound to occur and require some value judgments from the coders. Coders should not handle these value decisions without some method of relaying this information to a central figure. The central figure can then evaluate the decisions of all the coders to determine if a change in the code is needed or that there is inter-coder consistency. The problem here is not that the coder may make a "wrong" decision but rather that there must be reliability among all the coders. By recording value decisions and monitoring them, some degree of systematic coder bias will be eliminated.

The card or running list should contain: (a) questionnaire code number, (b) number of the problem question, (c) the response to the problem and the response to the "other" question, (or the problem itself), (d) the code that the coder decided to use. These cards or lists should be submitted regularly to the director of coding or to the group of coders for

monitoring, revision of the codebook or eventual classification of the "other" responses.

Recommendation 5.

Coding should be treated as more than flunkie work. Coding of open-ended or poorly designed surveys requires (at least initially) individuals who are familiar with research techniques.

Discussion

Coding of problem questionnaires requires more than rote skills. Good coders can spot inconsistencies in responses, possible respondent misinterpretation of questions, and areas where the pre-determined codes do not fit the responses. Good coders should also be familiar with the techniques of coding, the underlying "philosophy" of the research process, and how coding fits into the larger research picture (e.g., a coder who only knows that No = 1 and Yes = 2 is not nearly as valuable as a coder who knows that coding is the prelude to computer use and who understands how the codes relate to the key punching process). These skills are generally available only in individuals who have a knowledge of research techniques.

The value of a skilled coder becomes apparent at the most crucial times--when the survey is poorly designed or when problems arise in interpretation of unusual responses. Those areas which will most affect the reliability of a study are precisely those areas that require a coder of above-average ability.

Unfortunately, most of the coding process is boring and repetitious. It is different for the project director to assign high quality individuals to coding when they may be needed in other areas of "more importance." What usually results is that coding is assigned as a clerical task to the

least trained individuals, such as work study or undergraduate researchers. This ordering of priorities is unfortunate but does reflect a cost-benefit problem. The project loses valuable people on a job that could (if no problems arise) be quite humdrum but benefits from the higher reliability of the coding. A compromise might be to assign trained individuals to code a large number of surveys to "weed out" problems. Once this is accomplished these people could be then reassigned.

#### Recommendation 6.

A "project co-ordinator" or "coding consultant" should be designated. This individual would be responsible for final disposition of problem questions, monitoring of the coders' reliability and coordination of coding efforts.

#### Discussion

The key concept in coding is control. There should be control over the actions and decisions of the coders, over final disposition of problems, over the use of the codebook. Again, this is not because coders will make "wrong" choices but because without control (or coordination if you prefer), there is a danger of inconsistency. Even if the final decision is not the "best" one, if all coders abide by it, at least the finished product has a better chance of being reliable.

#### Recommendation 7.

A network of communication must be established among coders, using one or more of the following:

- (a) centralized work space
- (b) project coordinator

- (c) bulletin board
- (d) the master codebook
- (e) regular meetings
- (f) mailbox system.

#### Discussion

There must be some system by which coders can communicate with each other. This communication is necessary for a discussion of problems encountered, the transmission of changes in coding procedure or the solution to problems. Isolated coders may tend to overlook or disregard irregularities or problem responses. Inter-coder reliability suffers if coders are not aware of how other coders handle similar situations.

- a. Coders could be assigned a centralized work area. This is the best way to handle coding. A central location not only allows for better communication but also provides for an area where the master codebook is accessible to all coders and where messages can be left or discussions held on the spot. All of the coding materials can be kept in this area. Problems arise when coders take a stack of questionnaires to a remote area.
- b. The project coordinator may be used to transmit information to all coders. One coder can discuss problems with the coordinator, who can then notify all other coders of a need for a change in procedure. The project coordinator should serve, minimally, as a communications coordinator in every project.
- c. If a central work area is not available, a bulletin board may be used to transmit messages from one coder to others or to post notices of changes in procedures. If a bulletin board is used, then coders should be instructed to consult it daily.

- d. The master codebook should be used as a central point for recording changes. As noted earlier, all changes in coding should be immediately recorded in the codebook which must be accessible to all coders on a daily basis.
- e. Regular meetings (and unscheduled meetings as the need arises) should be utilized for communication among coders throughout the coding process. These meetings can be used to discuss problems, suggest changes, and coordinate activities.
- f. Use of mailboxes can achieve the same affect as the bulletin board, though it is not quite as convenient.

### 3. CRITICAL ANALYSIS: XENIA FOLLOW-UP QUESTIONNAIRE

In this evaluation of the Xenia Follow-Up Questionnaire, the analysis will appear immediately below each question, repeated here exactly as it appeared in the survey.

#### Attitudes and Opinions of Xenians

1. Please look at the following list of organizations and indicate what kind of job each of them did in providing services or helping after and since the tornado. If you think they have done a very good job, circle VG, and a good job, circle G, a poor job, P, or a very poor job, VP. If you have no knowledge of the organization's work, circle NK.

Greene Memorial Hospital. . . . .	VG	G	P	VP	NK
Salvation Army. . . . .	VG	G	P	VP	NK
Red Cross . . . . .	VG	G	P	VP	NK
Interfaith. . . . .	VG	G	P	VP	NK
Senior Citizens . . . . .	VG	G	P	VP	NK
Crisis Center . . . . .	VG	G	P	VP	NK
Encounter . . . . .	VG	G	P	VP	NK
Guidance Center . . . . .	VG	G	P	VP	NK

Local Government. . . . .	VG	G	P	VP	NK
Local police. . . . .	VG	G	P	VP	NK
Local banks . . . . .	VG	G	P	VP	NK
Local churches. . . . .	VG	G	P	VP	NK
HUD (Housing & Urban Development Dept.)	VG	G	P	VP	NK
SBA (Small Business Administration) . .	VG	G	P	VP	NK
Greene Co. Public Health Department . .	VG	G	P	VP	NK
Greene Co. Welfare Department . . . . .	VG	G	P	VP	NK
Ohio Unemployment Service . . . . .	VG	G	P	VP	NK
National Guard. . . . .	VG	G	P	VP	NK
Disaster Aid Grant Program. . . . .	VG	G	P	VP	NK
Xenia Daily Gazette . . . . .	VG	G	P	VP	NK
648 Board and Staff . . . . .	VG	G	P	VP	NK
Children's Mental Health Program. . . .	VG	G	P	VP	NK
School Summer Counseling Program. . . .	VG	G	P	VP	NK
Disaster Follow-Up Volunteers . . . . .	VG	G	P	VP	NK
Benjamin F. Lee Health Center . . . . .	VG	G	P	VP	NK
Emergency Support Services. . . . .	VG	G	P	VP	NK

The first question deals with the respondent's evaluation of 26 locally-based organizations which provided aid to disaster victims. No space was provided for the respondent to list emergent or established organizations that they considered helpful during the disaster. Since this survey was intended to be of an exploratory nature, an open-ended listing of agencies by the respondents would have been a positive addition. If no single agency had been consistently mentioned, nothing would have been lost by adding an "other" category. However, if agencies that DRC had not considered had emerged, this would have been an important contribution for further surveys.

2. Since the tornado have you yourself received the services of, or talked over your problems with any of the following. In 1974? In 1975? Both years?

(Check only if you received services or talked with them, otherwise leave blank.)

	IN 1974	(after the tornado)	IN 1975
Family Doctor. . . . .	_____	_____	_____
Senior Citizens group. . . .	_____	_____	_____
Crisis Center. . . . .	_____	_____	_____

	IN 1974 (after the tornado)	IN 1975
A general hospital . . . . .	_____	_____
Encounter. . . . .	_____	_____
Guidance Center. . . . .	_____	_____
Minister or priest . . . . .	_____	_____
(apart from weddings, funerals)		
Interfaith representative. . . . .	_____	_____
A mental hospital. . . . .	_____	_____
School counselor . . . . .	_____	_____
Benjamin F. Lee Health Center. . . . .	_____	_____
Emergency Support Services . . . . .	_____	_____

Question two deals with services received by the respondent immediately following the tornado and in 1975. The great number of blanks on this portion of the survey had to be coded "no", and it was difficult to ascertain whether the respondent had read the question (which asked for a check mark if the service was received or a blank if it was not) or simply did not receive any services.

This may have been clarified by providing a space for, "I received no outside services" and/or offering a yes-no choice. Also, the manner in which the time differential is organized on the page should be labeled "after the tornado in 1974" rather than "1974 (after the tornado)" to make the comparison clearer to the respondent.

In the category "minister or priest", the addition "for counseling" rather than "apart from weddings, funerals" might have been preferred. It might have been valuable in this instance, also, to include an "other" category.

3. Taking all things together, how would you say things are these days? Would you say that you are Very happy?\_\_\_\_ Pretty happy?\_\_\_\_ Not too happy?\_\_\_\_ or Very unhappy?\_\_\_\_

The wording on question three might have been improved to eliminate one instance of the word "things" which appears twice in the sentence.

There was forced choice in this question to the positive or negative poles of happiness with no allowance for "about the same". Since this option was included in the following question, it would have been more consistent to include it on question three.

4. Compared with your life today, how were things before the tornado? Were you happier?\_\_\_\_ Not quite as happy?\_\_\_\_ or about the same?\_\_\_\_
5. Everyone experiences some problems in everyday living. (Check one)  
Compared to before the tornado would you say that you have experienced more\_\_\_\_, fewer\_\_\_\_, or about the same\_\_\_\_ number of problems in everyday living?
6. Below is a list of some problems in everyday living. Please make a checkmark after each one that has been a problem for you since the tornado.

Transportation?\_\_\_\_  
Family problems?\_\_\_\_  
Unhappy in present neighborhood?\_\_\_\_  
Children too far from school?\_\_\_\_  
Unable to obtain welfare assistance?\_\_\_\_

Too far from shopping district?\_\_\_\_  
How to spend spare time?\_\_\_\_  
Family member in trouble with the law?\_\_\_\_  
Unable to obtain food stamps?\_\_\_\_  
Decrease in family income?\_\_\_\_

Inadequate recreation programs for school age children?\_\_\_\_  
Living too far from close friends and family?\_\_\_\_  
Problems in obtaining housing assistance?\_\_\_\_  
Job dissatisfaction?\_\_\_\_  
Having little voice in plans for rebuilding Xenia?\_\_\_\_

Questions four and five were straightforward and no problems were encountered with the answers. However, on question five, many respondents said they had "more problems" but failed to mark any of the offered choices on question six. Again, this might have been structured as a yes/no choice to give us a better indication that the question was read, and space might have been provided for an open-ended expression of the respondent's particular problems. Question six failed to differentiate between those problems which were tornado related and those which existed prior to the tornado.



7. Below is a list of reactions and problems, many of a physical and psychological nature, common to many people. Before the tornado, and at any time since the tornado, have you experienced any of the following?

(Check only if you have experienced any of them, otherwise leave blank.)

	BEFORE THE tornado	SINCE THE tornado
Nervous about storms? . . . . .	_____	_____
Thinking about the tornado a lot? . . .	_____	_____
Sleeping problems? . . . . .	_____	_____
Loss of appetite? . . . . .	_____	_____
Colds, flu, allergies? . . . . .	_____	_____
Headaches? . . . . .	_____	_____
Unable to concentrate on things? . . .	_____	_____
Stomach problems or ulcers? . . . . .	_____	_____
Heart problems? . . . . .	_____	_____
Nightmares? . . . . .	_____	_____
Generally nervous and excited? . . . .	_____	_____
Bowel or bladder problems? . . . . .	_____	_____
General weakness? . . . . .	_____	_____
Skin problems such as rashes and hives?	_____	_____
Feeling depressed or low in general? . .	_____	_____
Shocked or going around in a daze? . .	_____	_____

This should have allowed a yes/no option and also open categories of "no problems" and "other problems". A "no problems" category would provide a positive statement that all of the possibilities had been read and no problems existed. An "other problems", open-ended category would have allowed DRC to tap emergent categories not originally anticipated.

8. Since the tornado, has your use of alcohol changed in any of the following ways? (If non-drinker, check here \_\_\_\_\_, otherwise indicate below.)

Increased? \_\_\_\_\_ Remained about the same? \_\_\_\_\_ Decreased? \_\_\_\_\_

9. Have you taken sleeping pills since the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If yes, have you increased \_\_\_\_\_ or decreased \_\_\_\_\_ amount since the tornado?

10. Have you taken energy or pep pills since the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If yes, have you increased \_\_\_\_\_ or decreased \_\_\_\_\_ amount since the tornado?

11. Have you taken tranquilizers since the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If yes, have you increased \_\_\_\_\_ or decreased \_\_\_\_\_ amount since the tornado?

While question eight presented no particular problems, nine, ten and eleven did. A large number of respondents who said they had used sleeping pills, pep pills and/or tranquilizers since the tornado did not indicate an increase or decrease. "About the same" could have been offered as choice here which may have eliminated this loss of data. The alcohol usage question did offer this third option and returned a higher rate of responses.

12. (Answer if married only.) Compared to before the tornado, is the relationship between you and your spouse more or less satisfying? Would you say it is Much more satisfying now? \_\_\_\_\_ More satisfying? \_\_\_\_\_ About the same? \_\_\_\_\_ Less satisfying? \_\_\_\_\_ or Much less satisfying? \_\_\_\_\_

The coding of question 12 would have been simplified by asking if the respondent is married, was the respondent married at the time of the tornado and then asking about the degree of satisfaction in the relationship. A blank answer, which should have indicated the respondent was not married, had to be double-checked with number 17, the household composition question, in order to insure that the respondent had not skipped the question.

The overall response to question 13 (see page 26 of this report) which occupied all of page three of the questionnaire, was that it was intimidating and crowded. Several respondents did not complete any questions on page 3, which may indicate that they were intimidated or never saw the page. Since there was no indication on the bottom of page two to flip the page over, this may have contributed to the failure to respond. There were several inconsistencies in question formation. The directions to question #13 state: "For each item below circle: 1 for ALMOST ALL THE TIME", however, the heading on the scale read ALL THE TIME". "Almost all

13. The following statements are about your attitudes towards different things in life. Each statement gives you a chance to express your own feeling. There are no right or wrong answers. It's your opinion we need.

For each item below circle: 1 for ALMOST ALL THE TIME

2 for OFTEN

3 for SOMETIMES

4 for SELDOM

5 for NEVER

	ALL THE TIME	O F T E N	S O M E T I M E S	S E L D O M	N E V E R
a. Have you felt in good spirits? . . . . .	1	2	3	4	5
b. How often have you had crying spells or felt like it? . . . . .	1	2	3	4	5
c. Have you had any trouble going to sleep and staying asleep? . . . . .	1	2	3	4	5
d. Have you felt that you have met a great challenge and are the better for it? . . . . .	1	2	3	4	5
e. How often have you felt alone & helpless? . . . . .	1	2	3	4	5
f. How often have you felt that people don't care what happens to you? . . . . .	1	2	3	4	5
g. How often have you felt quite self- confident to meet practically any kind of problem? . . . . .	1	2	3	4	5
h. How often have you felt that life is hopeless? . . . . .	1	2	3	4	5
i. Have you thought that recent experience shows you can handle crisis better than you once thought you could? . . . . .	1	2	3	4	5
j. How often have you thought of suicide? . . . . .	1	2	3	4	5
k. Have you felt that you are bothered by all sorts of ailments in different parts of your body? . . . . .	1	2	3	4	5
l. Have you ever had periods of days or weeks when you couldn't take care of things because you couldn't get going? . . . . .	1	2	3	4	5
m. When things haven't turned out, how often would you say you blame yourself? . . . . .	1	2	3	4	5
n. How often have you felt other people are so helpful? . . . . .	1	2	3	4	5
o. Have you felt closer to other people? . . . . .	1	2	3	4	5
p. Have you tended to feel tired in the morning? . . . . .	1	2	3	4	5
q. Have you felt that your life has changed so much that you are powerless to control it? . . . . .	1	2	3	4	5
r. Have you sometimes wondered if anything is worthwhile anymore? . . . . .	1	2	3	4	5
s. How often would you say that things haven't turned out the way you wanted them to? . . . . .	1	2	3	4	5
t. How often have you thought that you are fortunate to be living in such an exciting period of history? . . . . .	1	2	3	4	5
u. How often have you felt that you don't enjoy doing things anymore? . . . . .	1	2	3	4	5
v. How often have you had trouble with sleeping? . . . . .	1	2	3	4	5
w. Have you had loss of appetite? . . . . .	1	2	3	4	5
x. Have you thought that your future looks bleak? . . . . .	1	2	3	4	5
y. Have you felt wonderful about the world in general? . . . . .	1	2	3	4	5
z. Have you felt that your family is much closer than before? . . . . .	1	2	3	4	5

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14. Are you presently living at the same address as you had PRIOR to the April 1974 tornado? No ☐ Yes ☐  
If NO: How many different addresses have you had since the tornado?  (give number)
15. Is the address you now have a temporary address? No ☐ Yes ☐
16. Has your marital status changed since the tornado? No ☐ Yes ☐  
If YES, in what way?
17. What is the composition of your household? (Check one.)  
Single person? ☐ Single parent with children? ☐  
Couple? ☐ Couple with grandparents and children? ☐  
Couple with children? ☐  
Other?  (What)
18. What was your age on your last birthday?  (Write in years)
19. What is your present job situation? (Check only one.)  
Employed full time by others? ☐ Retired? ☐  
Self-employed? ☐ Non-working mother? ☐  
Part-time worker? ☐ Student? ☐  
Unemployed or laid off? ☐ Other?  (What)
20. Was your job interrupted by the tornado? No ☐ Yes ☐  
If YES: for how long?  
Under one week? ☐ One month? ☐  
One week or so? ☐ Two months? ☐  
Two weeks? ☐ Three months or longer? ☐  
Three weeks? ☐ Haven't worked since? ☐
21. How many jobs have you had since the tornado?  (Write number)
22. Were any of your relatives or kin killed and/or injured in the tornado?  
No ☐ Yes ☐ (Check all that apply.)  
If YES: Close relative killed? ☐ Distant relative killed? ☐  
Close relative injured? ☐ Distant relative injured? ☐
23. What about close friends? None killed or injured ☐  
Yes, some killed ☐ Yes, some injured ☐
24. Were you or anyone in your household injured or hurt in the tornado?  
YOU: No ☐ Yes ☐ (if treated in hospital or by doctor, check here ☐)  
HOUSEHOLD: No ☐ Yes ☐ (if treated in hospital or by doctor, check here ☐)
25. How did your losses in the tornado compare with the losses of others?  
No losses suffered? ☐  
Much greater? ☐ Greater? ☐ About the same? ☐ Much less? ☐
26. Are industrial and economic development serious problems for Xenia?  
Very serious ☐ Fairly serious ☐ Not serious at all ☐
27. Are building and housing serious problems for Xenia?  
Very serious ☐ Fairly serious ☐ Not serious at all ☐
28. How would you say your physical health has been since the tornado as compared to before? Has it been? Much worse? ☐ A little worse? ☐ About the same? ☐ A little better? ☐ Much better? ☐
29. How have you felt emotionally or mentally since the tornado as compared to before? Would you say: Much worse? ☐ A little worse? ☐ About the same? ☐ A little better? ☐ Much better? ☐

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the time" might be interpreted as "often" by some, and didn't allow for polar positions on the scale. The Warheit scale, in fact, did not use the word "almost".

Some of the questions did not seem to lend themselves to frequency answers: "Have you felt that you have met a great challenge and are the better for it?", "Have you thought that recent experience shows you can handle crisis better than you once thought you could?", "Have you felt that your family is much closer than before?" seem to lend themselves to one-time yes/no answers.

The blurb at the top of page four, "To end up, there are some mostly background questions", was felt to be "mostly ungrammatical", and was later dropped.

14. Are you presently living at the same address as you had PRIOR to the April 1974 tornado? No ☐ Yes ☐  
If NO: How many different addresses have you had since the tornado?  (Give number)

"Different" is a colloquial term, and it is difficult to know if the respondent will use his original address as inclusive or exclusive of subsequent ones in his consideration of "different". In some cases, our respondents may have been at the same address in a different house because theirs was blown away, so that the term "different" did not tap the new vs. change distinction. Also, respondents may have returned to their original address at the time of the follow-up survey having lived at five other ones since the tornado. One possibility would have been to ask how many times the respondent had moved since the tornado.

15. Is the address you now have a temporary address? No \_\_\_\_\_ Yes \_\_\_\_\_
16. Has your marital status changed since the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If YES, in what way? \_\_\_\_\_

Question 15 seemed to pose no particular problems, and 16 turned up only a few unusual answers in response to change in marital status, such as "heart attack".

17. What is the composition of your household? (Check one)
- |                             |  |
|-----------------------------|--|
| Single person? _____        | Single parent with children? _____           |
| Couple? _____               | Couple with grandparents and children? _____ |
| Couple with children? _____ | Other? _____ (What)                          |

Question 17 did not ask if the composition had changed since the tornado. More than 90 percent of the respondents fell into the first four categories. Some respondents may have children who do not live in the household. Another possible category could have asked if other kin were living in the home. Possibly a checklist might have been added at the conclusion to indicate exactly who was living in the house: husband, wife, how many children, grandfather, grandmother, aunt, uncle, friends, grandchildren, etc.

18. What was your age on your last birthday? \_\_\_\_\_ (Write in years)

The age question presented no problems.

19. What is your present job situation? (Check only one)
- |                                     |                           |
|-------------------------------------|---------------------------|
| Employed full time by others? _____ | Retired? _____            |
| Self-employed? _____                | Non-working mother? _____ |
| Part-time worker? _____             | Student? _____            |
| Unemployed or laid off? _____       | Other? _____ (What)       |

Question 19 presented a number of problems to the coders. First of all, the categories were not mutually exclusive, which in many cases had

to be coded as "other". Rather than non-working mother, the more obvious category might have been homemaker. "Non-working" sometimes offends people, but perhaps "mother" was too exclusive, and we could have avoided many written in "housewives" who were not mothers. Also the neutral word, homemaker, allows for the instances of men at home. Another category might have been "farm work", since there are concomitant problems associated with the subdivision of farm housewife. The "other" category also included many persons who were both students and working, retired and working, or non-working mothers and housewives who considered themselves workers.

Perhaps this question could have been clarified by asking instead, what is your employment status outside the home (does a farmer work at home?) and then offering a checklist which includes student, homemaker, and retired.

20. Was your job interrupted by the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If YES: for how long? \_\_\_\_\_  
Under one week? \_\_\_\_\_ One month? \_\_\_\_\_  
One week or so? \_\_\_\_\_ Two months? \_\_\_\_\_  
Two weeks? \_\_\_\_\_ Three months or longer? \_\_\_\_\_  
Three weeks? \_\_\_\_\_ Haven't worked since? \_\_\_\_\_

The difficulty was cumulative to question 20 in which case some retired persons and homemakers said their jobs were interrupted, but we could not determine whether "chores" were interrupted or if they lost jobs after the tornado. There was also the possibility that respondents were not able to do their usual work in the aftermath of the tornado, but were still employed at other tasks, such as debris cleanup, by the organization which normally employed them.

21. How many jobs have you had since the tornado? \_\_\_\_\_ (Write number)

Number 21 was ambiguous even without use of the word different in that we could not determine whether the figure meant new jobs or total jobs. "0" was recoded to "1" unless the respondent had designated "haven't worked since". We had to assume that "1" meant, the same job as before the tornado.

22. Were any of your relatives or kin killed and/or injured in the tornado?  
No\_\_\_\_ Yes\_\_\_\_ (Check all that apply)  
If YES: Close relative killed?\_\_\_\_ Distant relative killed?\_\_\_\_  
Close relative injured?\_\_\_\_ Distant relative injured?\_\_\_\_

23. What about close friends?  
None killed or injured\_\_\_\_  
Yes, some killed\_\_\_\_  
Yes, some injured\_\_\_\_

Question 23 might have followed the same format as question 22 in asking, "Were any of your close friends killed and/or injured in the tornado? No\_\_\_\_ Yes\_\_\_\_ (Check all that apply), Close friend killed\_\_\_\_ Close friend injured\_\_\_\_. The format presented difficulties in coding "none killed or injured" as a yes or a no. More important, we neglected to ask if the respondent had been injured. There was also some question that the respondents might not consider a spouse or child, a relative.

24. How did your losses in the tornado compare with the losses of others?  
No losses suffered?\_\_\_\_  
Much greater?\_\_\_\_ Greater?\_\_\_\_ About the same?\_\_\_\_ Much less?\_\_\_\_

25. Did you collect any insurance due to the tornado? No\_\_\_\_ Yes\_\_\_\_

26. (If suffered property losses) How much of your dollar loss was not covered by insurance?  
Almost all\_\_\_\_ Most\_\_\_\_ About half\_\_\_\_ Some\_\_\_\_ Very little\_\_\_\_

If at all possible, "No losses suffered" should have appeared on the same line with the rest of the options for question 24 unless the object was to set apart "no losses" as a non-comparable category. Numbers 25 and



26 were found to be not entirely exclusive. Losses may have occurred but were not as great as others', and therefore insurance might have been collected. We did not discriminate between property loss and personal loss on the insurance question 25. There was some concern that although "not" was underlined in question 26, it might have been ignored by the respondent. It was suggested that "almost all" and "most" are too similar and "all" might have been a better category although there is no completely negative pole.

It was suggested that the question be divided to determine first, if the respondent suffered property loss; second, if she/he collected personal or property insurance; and third, how their losses compared with others in Xenia.

27. How would you say your physical health has been since the tornado as compared to before? Has it been: Much worse?\_\_\_\_ A little worse?\_\_\_\_ About the same?\_\_\_\_ A little better?\_\_\_\_ Much better?\_\_\_\_
28. How have you felt emotionally or mentally since the tornado as compared to before? Would you say: Much worse?\_\_\_\_ A little worse?\_\_\_\_ About the same?\_\_\_\_ A little better?\_\_\_\_ Much better?\_\_\_\_

Questions 27 and 28 were good and straightforward except that in 27, "compared to before" was underlined and probably should have been underlined in 28 as well.

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Version 2

7. Below is a list of reactions and problems common to many people. Have you experienced any of the following, before or after the tornado? (Check only if you have experienced any of them, otherwise leave blank)

	BEFORE tornado	AFTER tornado
Nervous about storms? . . . . .	_____	_____
Colds, flu, allergies? . . . . .	_____	_____
Headaches? . . . . .	_____	_____
Unable to concentrate on things? . . . . .	_____	_____
Stomach problems or ulcers? . . . . .	_____	_____
Heart problems? . . . . .	_____	_____
Nightmares? . . . . .	_____	_____
Generally nervous and excited? . . . . .	_____	_____
Bowel or bladder problems? . . . . .	_____	_____
General weakness? . . . . .	_____	_____
Feeling depressed or low in general? . . . . .	_____	_____
Shocked or going around in a daze? . . . . .	_____	_____

Question seven on version 2 was similar to question seven on version one and could have provided a "yes-no" format for the same reasons as described earlier. Respondents may not have known to what degree they had to experience the reactions in order to justify making an affirmative response to this question in order to tap reactions to the tornado that DRC had not anticipated.

8. Would you say that your visiting back and forth with relatives and friends around Xenia has increased\_\_\_\_or decreased\_\_\_\_compared to before the tornado, or has it remained about the same\_\_\_\_since the tornado? (Check one)

Question eight presented no real problems.

GENERAL BACKGROUND: (Check all appropriate items)

- 9a. Are you female?\_\_\_ Male?\_\_\_ b. Black?\_\_\_ White?\_\_\_

Question 9a presented no problems, but 9b was left blank on a very large number of cases. A reason for this may have been that respondents didn't read the question past the 9a segment thus not noticing the race segment. Another possibility may have been that respondents felt "funny" about answering race questions.

- 10a. Did you lose or suffer damage to your house or dwelling as a result of the tornado?  
 Total loss\_\_\_ Major loss\_\_\_ Minor loss\_\_\_ No damage\_\_\_
- b. What about loss or damage to your:  
 Car?\_\_\_ Furniture?\_\_\_ Personal belongings?\_\_\_  
 Business property?\_\_\_
- c. What was your total dollar loss (including both home and business)?  
 No loss\_\_\_ \$10,000 to 15,000\_\_\_  
 Loss under \$1,000\_\_\_ \$15,000 to 20,000\_\_\_  
 Loss under \$5,000\_\_\_ \$20,000 to 30,000\_\_\_  
 \$5,000 to 10,000\_\_\_ \$30,000 or over\_\_\_
- d. Did your family have to leave your home overnight because of the tornado?  
 No\_\_\_ Yes\_\_\_(if YES, check how long: Overnight only?\_\_\_  
 2-3 days?\_\_\_ a week or so?\_\_\_ 2 weeks or so?\_\_\_  
 four weeks or more?\_\_\_
- e. At the time of the tornado, did you own or rent the place you lived in?  
 Own\_\_\_ Rent\_\_\_
- f. At the time of the tornado, how many years had you lived in your home?  
 Under 1 year\_\_\_ 6 to 10 years\_\_\_ 16 to 20 years\_\_\_  
 1 to 5 years\_\_\_ 11 to 15 years\_\_\_ More than 20 years\_\_\_

Question 10 presented no major problems. Question 10c may have been confusing in that some respondents seemed to include only home and business property damage but forgot to add in personal belongings or car damages.

- 11a. Did you have a job at the time of the tornado?  
 No\_\_\_ Yes(full time\_\_\_ or part time\_\_\_)
- b. What do you consider your main job or occupation?  
 (Indicate if retired, housewife or student)\_\_\_\_\_

Question 11a presented little problem, but 11b was very difficult to code. Respondents were not sure whether to indicate the job they now have or their job at the time of the tornado. In some cases this distinction made a significant difference.

- 12a. What is the last year of schooling you completed?  
 Grade school\_\_\_\_ High school graduate\_\_\_\_ Some college\_\_\_\_  
 Some high school\_\_\_\_ Technical school\_\_\_\_ College graduate\_\_\_\_
- b. What was your marital status at the time of the tornado?  
 Single?\_\_\_\_ Married?\_\_\_\_ Widowed?\_\_\_\_ Separated?\_\_\_\_ Divorced?\_\_\_\_
- c. Would you consider your family life style to be that of:  
 Upper middle class?\_\_\_\_ Working class?\_\_\_\_ Middle class?\_\_\_\_  
 Lower class?\_\_\_\_ Upper class?\_\_\_\_
- d. Have you experienced another disaster before? (EXCLUDE war situations)  
 No\_\_\_\_ Yes\_\_\_\_ (if YES, what and date?)\_\_\_\_\_
- e. How does the assistance that your household received in recovering from the tornado compare to the help that others in the community received?  
 Greater\_\_\_\_ the Same\_\_\_\_ Less\_\_\_\_ Did not receive any help\_\_\_\_

The questions on 12 presented no problems.

### Version 3

7. Below is a list of some problems in everyday living. Please make a check after each one that has been a problem for you since the tornado.

- |  |   |
|--|---|
| Concern over being personal victim of crime?____     | Inadequate recreation programs for school age children?____ |
| Living too far from close friends and relatives?____ | No good way or place to find and meet new friends?____      |
| How to deal with government bureaucracies?____       | Having little voice in plans for rebuilding Xenia?____      |
| Family member in trouble with the law?____           | Too far from shopping district?____                         |
| Unable to obtain food stamps?____                    | How to spend spare time?____                                |
| Children too far from school?____                    | Unable to obtain welfare assistance?____                    |
| Possibility of losing job?____                       | Unhappy in present neighborhood?____                        |
| Transportation problems?____                         | Decrease in family income?____                              |
|  | Legal problems?____   |

The only question on version three that differed from version two was question 7. Question 7 is an expanded version of question 6 of version one. The critiques of the earlier version also apply to this one.

#### 4. ANALYSIS OF THE ZENIA CHILDREN'S FOLLOW-UP QUESTIONNAIRE

##### General Suggestions

The format of the questionnaire would benefit by being reorganized. Several problems appeared. It was difficult to follow columns #1 - #4 from the top of the page to the bottom because of the wide space for question 2e. Either the columns should be renumbered when there is a space preceding them or the organization of the questionnaire should be such that the columns are easy to follow from the top of the page to the bottom. The information about school, age, sex and grade should be asked first, followed by the sections on illness, agency services and behavior. Placing the age and sex questions on the second page of the questionnaire, using a different format, and asking for ages of all children resulted in occasional inconsistent numbering of the children.

Respondents should be forced to check a "yes" or "no" box rather than "check if answer is yes." When respondents did not check any blanks in a section, it was assumed that they were answering "no", when in fact they may not have answered the question at all.

ANSWER THE QUESTIONS ON THIS PAGE ONLY IF YOU ARE PRESENTLY A PARENT OF ANY CHILDREN UNDER 18 YEARS OLD.

Very little is known of the average short-run and long-run effects, if any, of disasters on children. This is an effort to obtain some solid information on the special needs, if any, of children, and what services, if any, are being used, and whether other services, if any, might be necessary.

Finally, the statement at the beginning of the questionnaire needs to be explicit in defining the population and stating directions for answering the questions. Some respondents gave information for children

18 and over. Others answered questions for more than four children. One respondent tallied the information for nine children by responding, 4-more, 3-less, and 2-same! For questions that require a number for an answer, the directions should state that all blanks be filled and that "0" be written in if the answer is none. When spaces were left blank for responses that required a number it was impossible to determine if the response was "none" or unanswered. Also, for purposes of discriminating among the children it is important that the respondent answers the questions for each child in the same column throughout the questionnaire. This should be clearly stated.

#### Specific Suggestions

The task force attempted to not only identify problem questions encountered while coding, but provide constructive suggestions. The problematic questions are presented in chronological order.

1. How many children below 18 years old are in your family?\_\_\_\_(Write number)

Question #1 resulted in various answers, depending on the respondents' interpretation of the question. Some respondents included children who did not live at home and/or children 18 years old and over. The various interpretations were possibly elicited from Question #2, which was confusing to the respondents. When coding we had to check the answer to Question #3. The problems dealt with question explicitness and intra-questionnaire consistency. In order for questions to be explicit, it must be clear what information is being sought. It was suggested that future questionnaires include one or any combination of the following questions, depending on the information needed. "How many children do you have in your family?" "How many children live in your home?" "How many children under 18 live in your home?"

2. Answer for each child you have:

	Child # 1	Child # 2	Child # 3	Child # 4
a. Has child visited or been visited by doctor <u>since</u> the tornado? (CHECK IF ANSWER IS YES) . . .	_____	_____	_____	_____
b. Total number of visits with doctor <u>since</u> tornado? (Write number) . . . . .	_____	_____	_____	_____
c. Total number of days missed school because of illness since tornado? (Write number) . . . . .	_____	_____	_____	_____
d. Total number of days child was patient in hospital since tornado? (Write number) . . . . .	_____	_____	_____	_____
e. Indicate nature of illness (e.g., colds, broken leg, measles, appendicitis, etc.) . . . . .	_____	_____	_____	_____

Question 2 should state, "Answer for each child you have under 18 years of age."

Questions #2a - d: Specify if all blanks are to be filled in with either a check, number, or zero. Where numbers are applicable, state that the blank needs to be filled with either a number or zero. When the respondents left blanks, we were unable to determine if the respondent meant none or did not answer. The instructions stated, "Write Number." Possibly some respondents took that to mean numbers other than zero.

Questions #2a - b: Questions need to state if visits to the doctor for check-ups are to be included. Some respondents responded negatively to the question, "Has child visited or been visited by doctor since the tornado?" and then wrote in "only for check-ups."

Question #2d: Needs to specify if inpatient or outpatient. The question did not differentiate between those who were taken to the emergency room and those who were patients in a hospital.

Question #2e: The quality of data gained from this question was poor because the question was not explicit. Some respondents understood "Indicate nature of illness," to mean circle the appropriate illness listed in the example. Instructions needed to state, "List the illnesses (since the tornado) for each child." The space for responses needed to be divided to allow the respondent to discriminate between child #1, #2, #3, and #4. In most cases the respondents lumped all illnesses of their children together.

- f. Has child received services of or have you or your spouse talked over any problem this child has had with any of the following agencies or persons since the tornado?

	Child # 1	Child # 2	Child # 3	Child # 4
Minister or priest? . . . . .	_____	_____	_____	_____
School Counselor? . . . . .	_____	_____	_____	_____
School nurse? . . . . .	_____	_____	_____	_____
YMCA? . . . . .	_____	_____	_____	_____
Police? . . . . .	_____	_____	_____	_____
Crisis Center? . . . . .	_____	_____	_____	_____
Guidance Center? . . . . .	_____	_____	_____	_____
Benjamin F. Lee Health Center? . . . . .	_____	_____	_____	_____
Interfaith Representative? . . . . .	_____	_____	_____	_____
Encounter? . . . . .	_____	_____	_____	_____
School Summer Counseling Program? . . . . .	_____	_____	_____	_____
Juvenile Court? . . . . .	_____	_____	_____	_____
Emergency Support Services? . . . . .	_____	_____	_____	_____
Family Services? . . . . .	_____	_____	_____	_____
Children's Mental Health Program? . . . . .	_____	_____	_____	_____

Question #2f: In the question asking which agencies had been used for services it was suggested that the agencies for school age children



be listed separately under the heading, "Answer only if child is in school." This would have simplified the coding process, because school counselor, school nurse, and school summer counseling program had to be coded "not applicable" if the child was not in school. Also, the respondents should be allowed to answer "Other Agencies," for those not included in the list, and there should be a space provided for the agency to be written in.

- g. Did child attend 1974-75 school  
year? . . . . . \_\_\_\_\_
- h. Is child going to same school  
now as before the tornado?. . . \_\_\_\_\_

Questions #2g - h: It was not clear what type of response was indicated because there were no specific instructions. Some respondents answered yes/no, and others filled in the names of the schools that the child had attended.

Question #2g: In order to discriminate between pre-school, nursery school, kindergarten and grades 1-12, space should be provided for "grade in school." Some parents answered that their children were in school, and, in checking their ages, we found that they were of pre-school age. The question needs to be specific as to which school year the question is referring, i.e., '75-'76, '74-'75 etc. Otherwise, questionnaires mailed out during the summer would have some people filling in the grade for the past school year and others for the coming school year.

Question #2h did not take into consideration those children who attended another school temporarily but returned to the same school. Also, some children attended a different school because they changed grades, moved or changed buildings within the same school system.

- i. How many different schools has  
child attended since the tor-  
nado? . . . . .

Question #2i needed to specify, "Write number or zero." It seemed to be under the category of questions "Check Only if Answer is Yes." Many respondents left it blank. The word "different" is difficult to interpret. The question needs to indicate if the respondent is to include the school that the child is now attending if it is the same school that the child was attending at the time of the tornado. It is unclear what information is wanted. Some respondents filled in the number of "different" schools that the child had attended and indicated that it was because the child had changed grades or buildings within the same school, i.e., elementary to jr. high. Some respondents answered "0" when the child was in the same school before and after the tornado and others answered "1".

Questions #2j - t: (see page 41) Questions that apply to school-age children should be under a separate heading. Most respondents did not answer questions j - t for their non-school-age children, but some did answer them for their preschool-age children. There was a tendency for respondents to stretch the applicability of the questions in order to apply them to their non-school-age children. When the answer of a question depends on whether or not the child was in school it is necessary to specify what is meant by school....K - 12, 1 - 12, pre-school, or nursery school.

Question #2m: "Has child been more or less nervous and excited about storms since the tornado?" The word "apprehensive" or "anxious" seems more appropriate than "excited". The word "excited" may connote

ANSWER THE QUESTIONS ON THIS PAGE ONLY IF YOU ARE PRESENTLY A PARENT OF ANY CHILDREN UNDER 18 YEARS OLD.

Very little is known of the average short-run and long-run effects, if any, of disasters on children. This is an effort to obtain some solid information on the special needs, if any, of children, and what services, if any, are being used, and whether other services, if any, might be necessary.

1. How many children below 18 years old are in your family? \_\_\_\_\_ (Write number)

2. Answer for each child you have:

	Child #1	Child #2	Child #3	Child #4
a. Has child visited or been visited by doctor <u>since</u> the tornado? (CHECK IF ANSWER IS YES) .	_____	_____	_____	_____
b. Total number of visits with doctor <u>since</u> tornado? . . . . . (Write number) . .	_____	_____	_____	_____
c. Total number of days missed school because of illness <u>since</u> tornado? (Write number) . .	_____	_____	_____	_____
d. Total number of days child was patient in hospital <u>since</u> tornado? . (Write number) . .	_____	_____	_____	_____
e. Indicate nature of illness (e.g., colds, broken leg, measles, appendicitis, etc.)				

f. Has child received services of or have you or your spouse talked over any problem this child has had with any of the following agencies or persons since the tornado?

CHECK ONLY IF ANSWER IS YES

Minister or priest? . . . . .	_____	_____	_____	_____
School counselor? . . . . .	_____	_____	_____	_____
School nurse? . . . . .	_____	_____	_____	_____
YMCA? . . . . .	_____	_____	_____	_____
Police? . . . . .	_____	_____	_____	_____
Crisis Center? . . . . .	_____	_____	_____	_____
Guidance Center? . . . . .	_____	_____	_____	_____
Benjamin F. Lee Health Center? . . .	_____	_____	_____	_____
Interfaith representative? . . . . .	_____	_____	_____	_____
Encounter? . . . . .	_____	_____	_____	_____
School Summer Counseling Program? .	_____	_____	_____	_____
Juvenile Court? . . . . .	_____	_____	_____	_____
Emergency Support Services? . . . .	_____	_____	_____	_____
Family Services? . . . . .	_____	_____	_____	_____
Children's Mental Health Program? .	_____	_____	_____	_____

g. Did child attend 1974-75 school year? . . . . .

h. Is child going to same school now as before the tornado? . . . . .

i. How many different schools has child attended since the tornado? . . . . .

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ANSWER THE QUESTIONS ON THIS PAGE ONLY IF YOU ARE PRESENTLY A PARENT OF ANY CHILDREN UNDER 18 YEARS OLD.

Very little is known of the average short-run and long-run effects, if any, of disasters on children. This is an effort to obtain some solid information on the special needs, if any, of children, and what services, if any, are being used, and whether other services, if any, might be necessary.

1. How many children below 18 years old are in your family? \_\_\_\_\_ (Write number)

2. Answer for each child you have:

	Child #1	Child #2	Child #3	Child #4
a. Has child visited or been visited by doctor since the tornado? (CHECK IF ANSWER IS YES) .	_____	_____	_____	_____
b. Total number of visits with doctor since tornado? . . . . . (Write number) . .	_____	_____	_____	_____
c. Total number of days missed school because of illness since tornado? (Write number) . .	_____	_____	_____	_____
d. Total number of days child was patient in hospital since tornado? . (Write number) . .	_____	_____	_____	_____
e. Indicate nature of illness (e.g., colds, broken leg, measles, appendicitis, etc.)				

f. Has child received services of or have you or your spouse talked over any problem this child has had with any of the following agencies or persons since the tornado?

CHECK ONLY IF ANSWER IS YES

Minister or priest? . . . . .	_____	_____	_____	_____
School counselor? . . . . .	_____	_____	_____	_____
School nurse? . . . . .	_____	_____	_____	_____
YMCA? . . . . .	_____	_____	_____	_____
Police? . . . . .	_____	_____	_____	_____
Crisis Center? . . . . .	_____	_____	_____	_____
Guidance Center? . . . . .	_____	_____	_____	_____
Benjamin F. Lee Health Center? . . . . .	_____	_____	_____	_____
Interfaith representative? . . . . .	_____	_____	_____	_____
Encounter? . . . . .	_____	_____	_____	_____
School Summer Counseling Program? . . . . .	_____	_____	_____	_____
Juvenile Court? . . . . .	_____	_____	_____	_____
Emergency Support Services? . . . . .	_____	_____	_____	_____
Family Services? . . . . .	_____	_____	_____	_____
Children's Mental Health Program? . . . . .	_____	_____	_____	_____

g. Did child attend 1974-75 school year? . . . . . \_\_\_\_\_

h. Is child going to same school now as before the tornado? . . . . . \_\_\_\_\_

i. How many different schools has child attended since the tornado? . . . . . \_\_\_\_\_

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something quite different from nervous. It is not clear if "nervous" and "excited" are meant to be synonymous or if they identify two different emotional states. Consequently the data from this question lack specificity and present problems for interpretation.

Question #2q: "Has child been more or less helpful around the house since the tornado?" Does this question take into account developmental stages and increased maturity as age increases?

Question #2r: "Has child been crying more or less since the tornado?" The wording of the question assumes that the child is in a state of crying. Suggested wording: "Has child cried more or less since the tornado?"

Question #2s: "Has child been more or less nervous and excited since the tornado?" Same as Question #2m. Suggest that the word "excited" be changed.

3. Would you please indicate the following information for all your children.

	Age at Last Birthday	Sex Female	Male
Child #1. . . . .	_____	_____	_____
Child #2. . . . .	_____	_____	_____
Child #3. . . . .	_____	_____	_____
Child #4. . . . .	_____	_____	_____

Question #3 specifies that information is requested for "all your children." Some respondents gave that information. In doing so, it was not clear if the child listed as #1 on the first page was to be child #1 in this question. It seemed confusing to some respondents. On occasion they filled in the children's names over the numbers. Explicit information was needed as to which child should be considered #1. In regard to spacing, the sex category question could have been moved closer to the age question. Directions for filling in the sex might have helped. This

question was frequently omitted. The respondent should fill in the grade of the child in the available space to the right of the sex question. The other option would be to ask the grade question when dealing with questions about school. For simplicity for both respondents and coders this question (#3) should be placed on the first page in the same format as the other questions.

4. On the basis of your own personal observations do you feel that perhaps there are no special problems for children as a result of disaster?

Question #4's wording was ambiguous, and respondents made comments indicating the same. It did provide for expression of the respondents' feelings and thoughts and was usually answered in one sentence or more.

# ATTITUDES AND OPINIONS OF KENIANS

1. Please look at the following list of organizations and indicate what kind of job each of them did in providing services or helping after and since the tornado. If you think they have done a very good job, circle VG, and a good job, circle G, a poor job, P, or a very poor job VP. If you have no knowledge of the organization's work, circle NK.

Greene Memorial Hospital. . . . .	VG	G	P	VP	NK
Salvation Army. . . . .	VG	G	P	VP	NK
Red Cross . . . . .	VG	G	P	VP	NK
Interfaith. . . . .	VG	G	P	VP	NK
Senior Citizens . . . . .	VG	G	P	VP	NK
Crisis Center . . . . .	VG	G	P	VP	NK
Encounter . . . . .	VG	G	P	VP	NK
Guidance Center . . . . .	VG	G	P	VP	NK
Local government. . . . .	VG	G	P	VP	NK
Local police. . . . .	VG	G	P	VP	NK
Local banks . . . . .	VG	G	P	VP	NK
Local churches. . . . .	VG	G	P	VP	NK
HUD (Housing & Urban Development Dept.)	VG	G	P	VP	NK
SBA (Small Business Administration) . .	VG	G	P	VP	NK
Greene Co. Public Health Department . .	VG	G	P	VP	NK
Greene Co. Welfare Department . . . . .	VG	G	P	VP	NK
Ohio Unemployment Service . . . . .	VG	G	P	VP	NK
National Guard. . . . .	VG	G	P	VP	NK
Disaster Aid Grant Program. . . . .	VG	G	P	VP	NK
Xenia Daily Gazette . . . . .	VG	G	P	VP	NK
64G Board and Staff . . . . .	VG	G	P	VP	NK
Children's Mental Health Program. . . .	VG	G	P	VP	NK
School Summer Counseling Program. . . .	VG	G	P	VP	NK
Disaster Follow-Up Volunteers . . . . .	VG	G	P	VP	NK
Benjamin F. Lee Health Center . . . . .	VG	G	P	VP	NK
Emergency Support Services. . . . .	VG	G	P	VP	NK

2. Since the tornado have you yourself received the services of, or talked over your problems with any of the following. In 1974? In 1975? Both years?

(Check only if you received services or talked with them, otherwise leave blank.)

	IN	IN
	1974 (after the tornado)	1975

Family doctor. . . . .	_____	_____
Senior Citizens group. . . . .	_____	_____
Crisis Center. . . . .	_____	_____
A general hospital . . . . .	_____	_____
Encounter. . . . .	_____	_____
Guidance Center. . . . .	_____	_____
Minister or priest . . . . .	_____	_____
(apart from weddings, funerals)		
Interfaith representative. . . . .	_____	_____
A mental hospital. . . . .	_____	_____
School counselor . . . . .	_____	_____
Benjamin F. Lee Health Center. . . . .	_____	_____
Emergency Support Services . . . . .	_____	_____

3. Taking all things together, how would you say things are these days? Would you say that you are Very happy? \_\_\_\_\_ Pretty happy? \_\_\_\_\_ Not too happy? \_\_\_\_\_ or Very unhappy? \_\_\_\_\_

4. Compared with your life today, how were things before the tornado? Were you happier? \_\_\_\_\_ Not quite as happy? \_\_\_\_\_ or About the same? \_\_\_\_\_

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5. Everyone experiences some problems in everyday living. (Check one)  
 Compared to before the tornado would you say that you have experienced  
 more       , fewer       , or about the same        number of problems in every-  
 day living?

6. Below is a list of some problems in everyday living. Please make a check  
 mark after each one that has been a problem for you since the tornado.

Transportation?         
 Family problems?         
 Unhappy in present neighborhood?         
 Children too far from school?         
 Unable to obtain welfare assistance?       

Too far from shopping district?         
 How to spend spare time?         
 Family member in trouble with the law?         
 Unable to obtain food stamps?         
 Decrease in family income?       

Inadequate recreation programs for school age children?         
 Living too far from close friends and family?         
 Problems in obtaining housing assistance?         
 Job dissatisfaction?         
 Having little voice in plans for rebuilding Xenia?       

7. Below is a list of reactions and problems, many of a physical and psycho-  
 logical nature, common to many people. Before the tornado, and at any time  
 since the tornado, have you experienced any of the following?  
 (Check only if you have experienced any of them, otherwise leave blank.)

	BEFORE THE tornado	SINCE THE tornado
Nervous about storms? . . . . .	<u>      </u>	<u>      </u>
Thinking about the tornado a lot? . . . . .	<u>      </u>	<u>      </u>
Sleeping problems? . . . . .	<u>      </u>	<u>      </u>
Loss of appetite? . . . . .	<u>      </u>	<u>      </u>
Colds, flu, allergies? . . . . .	<u>      </u>	<u>      </u>
Headaches? . . . . .	<u>      </u>	<u>      </u>
Unable to concentrate on things? . . . . .	<u>      </u>	<u>      </u>
Stomach problems or ulcers? . . . . .	<u>      </u>	<u>      </u>
Heart problems? . . . . .	<u>      </u>	<u>      </u>
Nightmares? . . . . .	<u>      </u>	<u>      </u>
Generally nervous and excited? . . . . .	<u>      </u>	<u>      </u>
Bowel or bladder problems? . . . . .	<u>      </u>	<u>      </u>
General weakness? . . . . .	<u>      </u>	<u>      </u>
Skin problems such as rashes and hives? . . . . .	<u>      </u>	<u>      </u>
Feeling depressed or low in general? . . . . .	<u>      </u>	<u>      </u>
Shocked or going around in a daze? . . . . .	<u>      </u>	<u>      </u>

8. Since the tornado, has your use of alcohol changed in any of the following  
 ways? (If non-drinker, check here       , otherwise indicate below.)  
 Increased?        Remained about the same?        Decreased?

9. Have you taken sleeping pills since the tornado? No        Yes         
 If yes, have you increased        or decreased        amount since the tornado?

10. Have you taken energy or pep pills since the tornado? No        Yes         
 If yes, have you increased        or decreased        amount since the tornado?

11. Have you taken tranquilizers since the tornado? No        Yes         
 If yes, have you increased        or decreased        amount since the tornado?

12. (Answer if married only.) Compared to before the tornado, is the relation-  
 ship between you and your spouse more or less satisfying? Would you say it is  
 Much more satisfying now?        More satisfying?        About the same?        Less  
 satisfying?        or Much less satisfying?



# ATTITUDES AND OPINIONS OF KENIANS

1. Please look at the following list of organizations and indicate what kind of job each of them did in providing services or helping after and since the tornado. If you think they have done a very good job, circle VG, and a good job, circle G, a poor job, P, or a very poor job VP. If you have no knowledge of the organization's work, circle NK.

Greene Memorial Hospital. . . . .	VG	G	P	VP	NK
Red Cross . . . . .	VG	G	P	VP	NK
Interfaith. . . . .	VG	G	P	VP	NK
Senior Citizens . . . . .	VG	G	P	VP	NK
Crisis Center . . . . .	VG	G	P	VP	NK
Encounter . . . . .	VG	G	P	VP	NK
Guidance Center . . . . .	VG	G	P	VP	NK
Children's Mental Health Program. . . . .	VG	G	P	VP	NK
Local government. . . . .	VG	G	P	VP	NK
Local police. . . . .	VG	G	P	VP	NK
Local banks . . . . .	VG	G	P	VP	NK
Local churches. . . . .	VG	G	P	VP	NK
648 Board and Staff . . . . .	VG	G	P	VP	NK
HUD (Housing & Urban Development Dept.) . . . . .	VG	G	P	VP	NK
SBA (Small Business Administration) . . . . .	VG	G	P	VP	NK
Xenia Daily Gazette . . . . .	VG	G	P	VP	NK
School Summer Counseling Program. . . . .	VG	G	P	VP	NK
Disaster Follow-Up Volunteers . . . . .	VG	G	P	VP	NK
Benjamin F. Lee Health Center . . . . .	VG	G	P	VP	NK
Emergency Support Services. . . . .	VG	G	P	VP	NK

2. Since the tornado have you yourself received the services of, or talked over your problems with any of the following. In 1974? In 1975? Both years? (Check only if you received services or talked with them, otherwise leave blank.)

	IN 1974 (after the tornado)	IN 1975
Family doctor. . . . .	_____	_____
Senior Citizens group. . . . .	_____	_____
Crisis Center. . . . .	_____	_____
A general hospital . . . . .	_____	_____
Encounter. . . . .	_____	_____
Guidance Center. . . . .	_____	_____
Minister or priest . . . . .	_____	_____
(apart from weddings, funerals)		
Interfaith representative. . . . .	_____	_____
A mental hospital. . . . .	_____	_____
School counselor . . . . .	_____	_____
Benjamin F. Lee Health Center. . . . .	_____	_____
Emergency Support Services . . . . .	_____	_____

3. Taking all things together, how would you say things are these days? Would you say that you are Very happy? \_\_\_\_\_ Pretty happy? \_\_\_\_\_ Not too happy? \_\_\_\_\_ or Very unhappy? \_\_\_\_\_
4. Compared with your life today, how were things before the tornado? Were you happier? \_\_\_\_\_ Not quite as happy? \_\_\_\_\_ or About the same? \_\_\_\_\_
5. Everyone experiences some problems in everyday living. (check one) Would you say that you have experienced more \_\_\_\_\_, fewer \_\_\_\_\_, or about the same \_\_\_\_\_ number of problems in everyday living since the tornado?
6. (Answer if married only). Compared to before the tornado, is the relationship between you and your spouse now more or less satisfying? Would you say it is Much more satisfying now? \_\_\_\_\_, More satisfying? \_\_\_\_\_, About the same now as before? \_\_\_\_\_ Less satisfying? \_\_\_\_\_ or Much less satisfying? \_\_\_\_\_.

7. Below is a list of reactions and problems common to many people. Have you experienced any of the following, before or after the tornado?

(Check only if you have experienced any of them, otherwise leave blank)

	BEFORE tornado	AFTER tornado
Nervous about storms? . . . . .	_____	_____
Colds, flu, allergies? . . . . .	_____	_____
Headaches? . . . . .	_____	_____
Unable to concentrate on things? . . . . .	_____	_____
Stomach problems or ulcers? . . . . .	_____	_____
Heart problems? . . . . .	_____	_____
Nightmares? . . . . .	_____	_____
Generally nervous and excited? . . . . .	_____	_____
Bowel or bladder problems? . . . . .	_____	_____
General weakness? . . . . .	_____	_____
Feeling depressed or low in general? . . . . .	_____	_____
Shocked or going around in a daze? . . . . .	_____	_____

8. Would you say that your visiting back and forth with relatives and friends around Xenia has increased or decreased compared to before the tornado, or has it remained about the same since the tornado? (Check one)

GENERAL BACKGROUND: (Check all appropriate items)

9a. Are you female? \_\_\_\_\_ Male? \_\_\_\_\_ b. Black? \_\_\_\_\_ White? \_\_\_\_\_

- 10a. Did you lose or suffer damage to your house or dwelling as a result of the tornado?

Total loss \_\_\_\_\_ Major loss \_\_\_\_\_ Minor loss \_\_\_\_\_ No damage \_\_\_\_\_

- b. What about loss or damage to your:

Car? \_\_\_\_\_ Furniture? \_\_\_\_\_ Personal belongings? \_\_\_\_\_ Business property? \_\_\_\_\_

- c. What was your total dollar loss (including both home and business)?

No loss _____	\$10,000 to 15,000 _____
Loss under \$1,000 _____	\$15,000 to 20,000 _____
Loss under \$5,000 _____	\$20,000 to 30,000 _____
\$5,000 to 10,000 _____	\$30,000 or over _____

- d. Did your family have to leave your home overnight because of the tornado?

No \_\_\_\_\_ Yes \_\_\_\_\_ (if YES, check how long: Overnight only? \_\_\_\_\_ 2-3 days? \_\_\_\_\_  
a week or so? \_\_\_\_\_ 2 weeks or so? \_\_\_\_\_ four weeks or more? \_\_\_\_\_)

- e. At the time of the tornado, did you own or rent the place you lived in?

Own \_\_\_\_\_ Rent \_\_\_\_\_

- f. At the time of the tornado, how many years had you lived in your home?

Under 1 year _____	6 to 10 years _____	16 to 20 years _____
1 to 5 years _____	11 to 15 years _____	More than 20 years _____

- 11a. Did you have a job at the time of the tornado?

No \_\_\_\_\_ Yes (full time \_\_\_\_\_ or part time \_\_\_\_\_)

- b. What do you consider your main job or occupation?

(Indicate if retired, housewife or student) \_\_\_\_\_

- 12a. What is the last year of schooling you completed?

Grade school _____	High school graduate _____	Some college _____
Some high school _____	Technical school _____	College graduate _____

- b. What was your marital status at the time of the tornado?

Single? \_\_\_\_\_ Married? \_\_\_\_\_ Widowed? \_\_\_\_\_ Separated? \_\_\_\_\_ Divorced? \_\_\_\_\_

- c. Would you consider your family life style to be that of:

Upper middle class? \_\_\_\_\_ Working class? \_\_\_\_\_ Middle class? \_\_\_\_\_  
Lower class? \_\_\_\_\_ Upper class? \_\_\_\_\_

- d. Have you experienced another disaster before? (EXCLUDE war situations)

No \_\_\_\_\_ Yes \_\_\_\_\_ (if YES, what and date? \_\_\_\_\_)

- e. How does the assistance that your household received in recovering from the tornado compare to the help that others in the community received?

Greater \_\_\_\_\_ the Same \_\_\_\_\_ Less \_\_\_\_\_ Did not receive any help \_\_\_\_\_

13. The following statements are about your attitudes towards different things in life. Each statement gives you a chance to express your own feeling. There are no right or wrong answers. It's your opinion we need.

For each item below circle: 1 for ALMOST ALL THE TIME

2 for OFTEN

3 for SOMETIMES

4 for SELDOM

5 for NEVER

	ALL THE TIME	N	S	M	NEVER
a. Have you felt in good spirits? . . . . .	1	2	3	4	5
b. How often have you had crying spells or felt like it? . . . . .	1	2	3	4	5
c. Have you had any trouble going to sleep and staying asleep? . . . . .	1	2	3	4	5
d. Have you felt that you have met a great challenge and are the better for it? . . . . .	1	2	3	4	5
e. How often have you felt alone & helpless? . . . . .	1	2	3	4	5
f. How often have you felt that people don't care what happens to you? . . . . .	1	2	3	4	5
g. How often have you felt quite self- confident to meet practically any kind of problem? . . . . .	1	2	3	4	5
h. How often have you felt that life is hopeless? . . . . .	1	2	3	4	5
i. Have you thought that recent experience shows you can handle crisis better than you once thought you could? . . . . .	1	2	3	4	5
j. How often have you thought of suicide? . . . . .	1	2	3	4	5
k. Have you felt that you are bothered by all sorts of ailments in different parts of your body? . . . . .	1	2	3	4	5
l. Have you ever had periods of days or weeks when you couldn't take care of things because you couldn't get going? . . . . .	1	2	3	4	5
m. When things haven't turned out, how often would you say you blame yourself? . . . . .	1	2	3	4	5
n. How often have you felt other people are so helpful? . . . . .	1	2	3	4	5
o. Have you felt closer to other people? . . . . .	1	2	3	4	5
p. Have you tended to feel tired in the morning? . . . . .	1	2	3	4	5
q. Have you felt that your life has changed so much that you are powerless to control it? . . . . .	1	2	3	4	5
r. Have you sometimes wondered if anything is worthwhile anymore? . . . . .	1	2	3	4	5
s. How often would you say that things haven't turned out the way you wanted them to? . . . . .	1	2	3	4	5
t. How often have you thought that you are fortunate to be living in such an exciting period of history? . . . . .	1	2	3	4	5
u. How often have you felt that you don't enjoy doing things anymore? . . . . .	1	2	3	4	5
v. How often have you had trouble with sleeping? . . . . .	1	2	3	4	5
w. Have you had loss of appetite? . . . . .	1	2	3	4	5
x. Have you thought that your future looks bleak? . . . . .	1	2	3	4	5
y. Have you felt wonderful about the world in general? . . . . .	1	2	3	4	5
z. Have you felt that your family is much closer than before? . . . . .	1	2	3	4	5

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To end up, there are some mostly background questions: Male \_\_\_\_\_ Female \_\_\_\_\_

14. Are you presently living at the same address as you had PRIOR to the April 1974 tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If NO: How many different addresses have you had since the tornado? \_\_\_\_\_ (give number)

15. Is the address you now have a temporary address? No \_\_\_\_\_ Yes \_\_\_\_\_

16. Has your marital status changed since the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If YES, in what way? \_\_\_\_\_

17. What is the composition of your household? (Check one)  
Single person? \_\_\_\_\_ Single parent with children? \_\_\_\_\_  
Couple? \_\_\_\_\_ Couple with grandparents and children? \_\_\_\_\_  
Couple with children? \_\_\_\_\_ children? \_\_\_\_\_  
Other? \_\_\_\_\_ (What) \_\_\_\_\_

18. What was your age on your last birthday? \_\_\_\_\_ (Write in years)

19. What is your present job situation? (Check only one)  
Employed full time by others? \_\_\_\_\_ Retired? \_\_\_\_\_  
Self-employed? \_\_\_\_\_ Non-working mother? \_\_\_\_\_  
Part-time worker? \_\_\_\_\_ Student? \_\_\_\_\_  
Unemployed or laid off? \_\_\_\_\_ Other? \_\_\_\_\_ (What) \_\_\_\_\_

20. Was your job interrupted by the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_  
If YES: for how long?  
Under one week? \_\_\_\_\_ One month? \_\_\_\_\_  
One week or so? \_\_\_\_\_ Two months? \_\_\_\_\_  
Two weeks? \_\_\_\_\_ Three months or longer? \_\_\_\_\_  
Three weeks? \_\_\_\_\_ Haven't worked since? \_\_\_\_\_

21. How many jobs have you had since the tornado? \_\_\_\_\_ (Write number)

22. Were any of your relatives or kin killed and/or injured in the tornado?  
No \_\_\_\_\_ Yes \_\_\_\_\_ (Check all that apply)  
If YES: Close relative killed? \_\_\_\_\_ Distant relative killed? \_\_\_\_\_  
Close relative injured? \_\_\_\_\_ Distant relative injured? \_\_\_\_\_

23. What about close friends?  
None killed or injured \_\_\_\_\_  
Yes, some killed \_\_\_\_\_  
Yes, some injured \_\_\_\_\_

24. How did your losses in the tornado compare with the losses of others?  
No losses suffered? \_\_\_\_\_  
Much greater? \_\_\_\_\_ Greater? \_\_\_\_\_ About the same? \_\_\_\_\_ Much less? \_\_\_\_\_

25. Did you collect any insurance due to the tornado? No \_\_\_\_\_ Yes \_\_\_\_\_

26. (If suffered property losses) How much of your dollar loss was not covered by insurance?  
Almost all \_\_\_\_\_ Most \_\_\_\_\_ About half \_\_\_\_\_ Some \_\_\_\_\_ Very little \_\_\_\_\_

27. How would you say your physical health has been since the tornado as compared to before? Has it been: Much worse? \_\_\_\_\_ A little worse? \_\_\_\_\_  
About the same? \_\_\_\_\_ A little better? \_\_\_\_\_ Much better? \_\_\_\_\_

28. How have you felt emotionally or mentally since the tornado as compared to before? Would you say: Much worse? \_\_\_\_\_ A little worse? \_\_\_\_\_  
About the same? \_\_\_\_\_ A little better? \_\_\_\_\_ Much better? \_\_\_\_\_

THANK YOU VERY MUCH FOR YOUR ASSISTANCE. THE STATISTICAL RESULTS OF THE SURVEY WILL BE RELEASED TO THE LOCAL MASS MEDIA.

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# ATTITUDES AND OPINIONS OF XENIANS

1. Please look at the following list of organizations and indicate what kind of job each of them did in providing services or helping after and since the tornado. If you think they have done a very good job, circle VG, and a good job, circle G, a poor job, P, or a very poor job VP. If you have no knowledge of the organization's work, circle NK.

Greene Memorial Hospital. . . . .	VG	G	P	VP	NK
Red Cross . . . . .	VG	G	P	VP	NK
Interfaith. . . . .	VG	G	P	VP	NK
Senior Citizens . . . . .	VG	G	P	VP	NK
Crisis Center . . . . .	VG	G	P	VP	NK
Encounter . . . . .	VG	G	P	VP	NK
Guidance Center . . . . .	VG	G	P	VP	NK
Children's Mental Health Program. . . . .	VG	G	P	VP	NK
Local government. . . . .	VG	G	P	VP	NK
Local police. . . . .	VG	G	P	VP	NK
Local banks . . . . .	VG	G	P	VP	NK
Local churches. . . . .	VG	G	P	VP	NK
648 Board and Staff . . . . .	VG	G	P	VP	NK
HUD (Housing & Urban Development Dept.)	VG	G	P	VP	NK
SBA (Small Business Administration) . . . . .	VG	G	P	VP	NK
Xenia Daily Gazette . . . . .	VG	G	P	VP	NK
School Summer Counseling Program. . . . .	VG	G	P	VP	NK
Disaster Follow-Up Volunteers . . . . .	VG	G	P	VP	NK
Benjamin F. Lee Health Center . . . . .	VG	G	P	VP	NK
Emergency Support Services. . . . .	VG	G	P	VP	NK

2. Since the tornado have you yourself received the services of, or talked over your problems with any of the following. In 1974? In 1975? Both years? (Check only if you received services or talked with them, otherwise leave blank.)

	IN 1974(after the tornado)	IN 1975
Family doctor. . . . .	_____	_____
Senior Citizens group. . . . .	_____	_____
Crisis Center. . . . .	_____	_____
A general hospital . . . . .	_____	_____
Encounter. . . . .	_____	_____
Guidance Center. . . . .	_____	_____
Minister or priest . . . . .	_____	_____
(apart from weddings, funerals)		
Interfaith representative. . . . .	_____	_____
A mental hospital. . . . .	_____	_____
School counselor . . . . .	_____	_____
Benjamin F. Lee Health Center. . . . .	_____	_____
Emergency Support Services . . . . .	_____	_____

3. Taking all things together, how would you say things are these days? Would you say that you are Very happy? \_\_\_\_\_ Pretty happy? \_\_\_\_\_ Not too happy? \_\_\_\_\_ or Very unhappy? \_\_\_\_\_

4. Compared with your life today, how were things before the tornado? Were you happier? \_\_\_\_\_ Not quite as happy? \_\_\_\_\_ or About the same? \_\_\_\_\_

5. Everyone experiences some problems in everyday living. (check one) Would you say that you have experienced more \_\_\_\_\_, fewer \_\_\_\_\_, or about the same \_\_\_\_\_ number of problems in everyday living since the tornado?

6. (Answer if married only). Compared to before the tornado, is the relationship between you and your spouse now more or less satisfying? Would you say it is Much more satisfying now? \_\_\_\_\_, More satisfying? \_\_\_\_\_, About the same now as before? \_\_\_\_\_ Less satisfying? \_\_\_\_\_ or Much less satisfying? \_\_\_\_\_

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7. Below is a list of some problems in everyday living. Please make a check after each one that has been a problem for you since the tornado.

Concern over being personal victim of crime? <input type="checkbox"/>	Inadequate recreation programs for school age children? <input type="checkbox"/>
Living too far from close friends and relatives? <input type="checkbox"/>	No good way or place to find and meet new friends? <input type="checkbox"/>
How to deal with government bureaucracies? <input type="checkbox"/>	Having little voice in plans for rebuilding Xenia? <input type="checkbox"/>
Family member in trouble with the law? <input type="checkbox"/>	Too far from shopping district? <input type="checkbox"/>
Unable to obtain food stamps? <input type="checkbox"/>	How to spend spare time? <input type="checkbox"/>
Children too far from school? <input type="checkbox"/>	Unable to obtain welfare assistance? <input type="checkbox"/>
Possibility of losing job? <input type="checkbox"/>	Unhappy in present neighborhood? <input type="checkbox"/>
Transportation problems? <input type="checkbox"/>	Decrease in family income? <input type="checkbox"/>
	Legal problems? <input type="checkbox"/>

8. Would you say that your visiting back and forth with relatives and friends around Xenia has increased ☐ or decreased ☐ compared to before the tornado, or has it remained about the same ☐ since the tornado? (Check one)

GENERAL BACKGROUND: (Check all appropriate items)

9a. Are you female? ☐ Male? ☐ b. Black? ☐ White? ☐

10a. Did you lose or suffer damage to your house or dwelling as a result of the tornado?

Total loss ☐ Major loss ☐ Minor loss ☐ No damage ☐

10b. What about loss or damage to your:

Car? ☐ Furniture? ☐ Personal belongings? ☐ Business property? ☐

c. What was your total dollar loss (including both home and business)?

No loss <input type="checkbox"/>	\$10,000 to 15,000 <input type="checkbox"/>
Loss under \$1,000 <input type="checkbox"/>	\$15,000 to 20,000 <input type="checkbox"/>
Loss under \$5,000 <input type="checkbox"/>	\$20,000 to 30,000 <input type="checkbox"/>
\$5,000 to 10,000 <input type="checkbox"/>	\$30,000 or over <input type="checkbox"/>

d. Did your family have to leave your home overnight because of the tornado?

No ☐ Yes ☐ (if YES, check how long: Overnight only? ☐ 2-3 days? ☐ a week or so? ☐ 2 weeks or so? ☐ four weeks or more? ☐

e. At the time of the tornado, did you own or rent the place you lived in?

Own ☐ Rent ☐

f. At the time of the tornado, how many years had you lived in your home?

Under 1 year <input type="checkbox"/>	6 to 10 years <input type="checkbox"/>	16 to 20 years <input type="checkbox"/>
1 to 5 years <input type="checkbox"/>	11 to 15 years <input type="checkbox"/>	More than 20 years <input type="checkbox"/>

11a. Did you have a job at the time of the tornado?

No ☐ Yes (full time ☐ or part time ☐

11b. What do you consider your main job or occupation?

(Indicate if retired, housewife or student)

12a. What is the last year of schooling you completed?

Grade school <input type="checkbox"/>	High school graduate <input type="checkbox"/>	Some college <input type="checkbox"/>
Some high school <input type="checkbox"/>	Technical school <input type="checkbox"/>	College graduate <input type="checkbox"/>

12b. What was your marital status at the time of the tornado?

Single? ☐ Married? ☐ Widowed? ☐ Separated? ☐ Divorced? ☐

12c. Would you consider your family life style to be that of:

Upper middle class? <input type="checkbox"/>	Working class? <input type="checkbox"/>	Middle class? <input type="checkbox"/>
Lower class? <input type="checkbox"/>	Upper class? <input type="checkbox"/>	

d. Have you experienced another disaster before? (EXCLUDE war situations)

No ☐ Yes ☐ (if YES, what and date?

e. How does the assistance that your household received in recovering from the tornado compare to the help that others in the community received?

Greater ☐ the Same ☐ Less ☐ Did not receive any help ☐

13. The following statements are about your attitudes towards different things in life. Each statement gives you a chance to express your own feeling. There are no right or wrong answers. It's your opinion we need.

For each item below circle: 1 for ALMOST ALL THE TIME  
2 for OFTEN  
3 for SOMETIMES  
4 for SELDOM  
5 for NEVER

	ALL THE TIME	O F T E N	S O M E T I M E S	S E L D O M	N E V E R
a. Have you felt in good spirits? . . . . .	1	2	3	4	5
b. How often have you had crying spells or felt like it? . . . . .	1	2	3	4	5
c. Have you had any trouble going to sleep and staying asleep? . . . . .	1	2	3	4	5
d. Have you felt that you have met a great challenge and are the better for it? . . . . .	1	2	3	4	5
e. How often have you felt alone & helpless? . . . . .	1	2	3	4	5
f. How often have you felt that people don't care what happens to you? . . . . .	1	2	3	4	5
g. How often have you felt quite self- confident to meet practically any kind of problem? . . . . .	1	2	3	4	5
h. How often have you felt that life is hopeless? . . . . .	1	2	3	4	5
i. Have you thought that recent experience shows you can handle crisis better than you once thought you could? . . . . .	1	2	3	4	5
j. How often have you thought of suicide? . . . . .	1	2	3	4	5
k. Have you felt that you are bothered by all sorts of ailments in different parts of your body? . . . . .	1	2	3	4	5
l. Have you ever had periods of days or weeks when you couldn't take care of things because you couldn't get going? . . . . .	1	2	3	4	5
m. When things haven't turned out, how often would you say you blame yourself? . . . . .	1	2	3	4	5
n. How often have you felt other people are so helpful? . . . . .	1	2	3	4	5
o. Have you felt closer to other people? . . . . .	1	2	3	4	5
p. Have you tended to feel tired in the morning? . . . . .	1	2	3	4	5
q. Have you felt that your life has changed so much that you are powerless to control it? . . . . .	1	2	3	4	5
r. Have you sometimes wondered if anything is worthwhile anymore? . . . . .	1	2	3	4	5
s. How often would you say that things haven't turned out the way you wanted them to? . . . . .	1	2	3	4	5
t. How often have you thought that you are fortunate to be living in such an exciting period of history? . . . . .	1	2	3	4	5
u. How often have you felt that you don't enjoy doing things anymore? . . . . .	1	2	3	4	5
v. How often have you had trouble with sleeping? . . . . .	1	2	3	4	5
w. Have you had loss of appetite? . . . . .	1	2	3	4	5
x. Have you thought that your future looks bleak? . . . . .	1	2	3	4	5
y. Have you felt wonderful about the world in general? . . . . .	1	2	3	4	5
z. Have you felt that your family is much closer than before? . . . . .	1	2	3	4	5

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To end up, there are some mostly background questions:

14. Are you presently living at the same address as you had PRIOR to the April 1974 tornado? No ☐ Yes ☐  
If NO: How many different addresses have you had since the tornado?  (give number)
15. Is the address you now have a temporary address? No ☐ Yes ☐
16. Has your marital status changed since the tornado? No ☐ Yes ☐  
If YES, in what way?
17. What is the composition of your household? (Check one)  
Single person? ☐ Single parent with children? ☐  
Couple? ☐ Couple with grandparents and children? ☐  
Couple with children? ☐ Other?  (What)
18. What was your age on your last birthday?  (Write in years)
19. What is your present job situation? (Check only one)  
Employed full time by others? ☐ Retired? ☐  
Self-employed? ☐ Non-working mother? ☐  
Part-time worker? ☐ Student? ☐  
Unemployed or laid off? ☐ Other?  (What)
20. Was your job interrupted by the tornado? No ☐ Yes ☐  
If YES: for how long?  
Under one week? ☐ One month? ☐  
One week or so? ☐ Two months? ☐  
Two weeks? ☐ Three months or longer? ☐  
Three weeks? ☐ Haven't worked since? ☐
21. How many jobs have you had since the tornado?  (Write number)
22. Were any of your relatives or kin killed and/or injured in the tornado?  
No ☐ Yes ☐ (Check all that apply)  
If YES: Close relative killed? ☐ Distant relative killed? ☐  
Close relative injured? ☐ Distant relative injured? ☐
23. What about close friends?  
None killed or injured ☐  
Yes, some killed ☐  
Yes, some injured ☐
24. How did your losses in the tornado compare with the losses of others?  
No losses suffered? ☐  
Much greater? ☐ Greater? ☐ About the same? ☐ Much less? ☐
25. Did you collect any insurance due to the tornado? No ☐ Yes ☐
26. (If suffered property losses) How much of your dollar loss was not covered by insurance?  
Almost all ☐ Most ☐ About half ☐ Some ☐ Very little ☐
27. How would you say your physical health has been since the tornado as compared to before? Has it been: Much worse? ☐ A little worse? ☐  
About the same? ☐ A little better? ☐ Much better? ☐
28. How have you felt emotionally or mentally since the tornado as compared to before? Would you say: Much worse? ☐ A little worse? ☐  
About the same? ☐ A little better? ☐ Much better? ☐

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1. Please look at the following list of organizations and indicate what kind of job each of them did in providing services or helping after and since the tornado. If you think they have done a very good job, circle VG, and a good job, circle G, a poor job, P, or a very poor job VP. If you have no knowledge of the organization's work, circle NK.

Greene Memorial Hospital. . . . .	VG	G	P	VP	NK
Red Cross . . . . .	VG	G	P	VP	NK
Interfaith. . . . .	VG	G	P	VP	NK
Senior Citizens . . . . .	VG	G	P	VP	NK
Crisis Center . . . . .	VG	G	P	VP	NK
Encounter . . . . .	VG	G	P	VP	NK
Guidance Center . . . . .	VG	G	P	VP	NK
Children's Mental Health Program. . . . .	VG	G	P	VP	NK
Local government. . . . .	VG	G	P	VP	NK
Local police. . . . .	VG	G	P	VP	NK
Local banks . . . . .	VG	G	P	VP	NK
Local churches. . . . .	VG	G	P	VP	NK
648 Board and Staff . . . . .	VG	G	P	VP	NK
HUD (Housing & Urban Development Dept.) . . . . .	VG	G	P	VP	NK
SBA (Small Business Administration) . . . . .	VG	G	P	VP	NK
Xenia Daily Gazette . . . . .	VG	G	P	VP	NK
School Summer Counseling Program. . . . .	VG	G	P	VP	NK
Disaster Follow-Up Volunteers . . . . .	VG	G	P	VP	NK
Benjamin F. Lee Health Center . . . . .	VG	G	P	VP	NK
Emergency Support Services. . . . .	VG	G	P	VP	NK

2. Since the tornado have you yourself received the services of, or talked over your problems with any of the following. In 1974? In 1975? Both years? (Check only if you received services or talked with them, otherwise leave blank.)

	IN 1974(after the tornado)	IN 1975
Family doctor. . . . .	_____	_____
Senior Citizens group. . . . .	_____	_____
Crisis Center. . . . .	_____	_____
A general hospital . . . . .	_____	_____
Encounter. . . . .	_____	_____
Guidance Center. . . . .	_____	_____
Minister or priest . . . . . (apart from weddings, funerals)	_____	_____
Interfaith representative. . . . .	_____	_____
A mental hospital. . . . .	_____	_____
School counselor . . . . .	_____	_____
Benjamin F. Lee Health Center. . . . .	_____	_____
Emergency Support Services . . . . .	_____	_____

- Taking all things together, how would you say things are these days? Would you say that you are Very happy?\_\_\_\_ Pretty happy?\_\_\_\_ Not too happy?\_\_\_\_ or Very unhappy?\_\_\_\_
- Compared with your life today, how were things before the tornado? Were you happier?\_\_\_\_ Not quite as happy?\_\_\_\_ or About the same?\_\_\_\_
- Everyone experiences some problems in everyday living. (check one) Would you say that you have experienced more\_\_\_\_, fewer\_\_\_\_, or about the same\_\_\_\_ number of problems in everyday living since the tornado?
- (Answer if married only). Compared to before the tornado, is the relationship between you and your spouse now more or less satisfying? Would you say it is Much more satisfying now?\_\_\_\_, More satisfying?\_\_\_\_, About the same now as before?\_\_\_\_ Less satisfying?\_\_\_\_ or Much less satisfying?\_\_\_\_.

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- 7a. Since the tornado, has your use of alcohol changed?  
(if non-drinker, check here\_\_\_, otherwise indicate below)  
Increased?\_\_\_ Remained the same?\_\_\_ Decreased?\_\_\_
- b. Since the tornado, has your use of sleeping pills changed?  
(if non-user, check here\_\_\_, otherwise indicate below)  
Increased?\_\_\_ Remained the same?\_\_\_ Decreased?\_\_\_
- c. Since the tornado, has your use of energy or pep pills changed?  
(if non-user, check here\_\_\_, otherwise indicate below)  
Increased?\_\_\_ Remained the same?\_\_\_ Decreased?\_\_\_
- d. Since the tornado, has your use of tranquilizers changed?  
(if non-user, check here\_\_\_, otherwise indicate below)  
Increased?\_\_\_ Remained the same?\_\_\_ Decreased?\_\_\_
8. Would you say that your visiting back and forth with relatives and friends around Xenia has increased\_\_\_ or decreased\_\_\_ compared to before the tornado, or has it remained about the same\_\_\_ since the tornado? (Check one)

GENERAL BACKGROUND: (Check all appropriate items)

- 9a. Are you female?\_\_\_ Male?\_\_\_ b. Black?\_\_\_ White?\_\_\_
- 10a. Did you lose or suffer damage to your house or dwelling as a result of the tornado?  
Total loss\_\_\_ Major loss\_\_\_ Minor loss\_\_\_ No damage\_\_\_
- b. What about loss or damage to your:  
Car?\_\_\_ Furniture?\_\_\_ Personal belongings?\_\_\_ Business property?\_\_\_
- c. What was your total dollar loss (including both home and business)?  
No loss\_\_\_ \$10,000 to 15,000\_\_\_  
Loss under \$1,000\_\_\_ \$15,000 to 20,000\_\_\_  
Loss under \$5,000\_\_\_ \$20,000 to 30,000\_\_\_  
\$5,000 to 10,000\_\_\_ \$30,000 or over\_\_\_
- d. Did your family have to leave your home overnight because of the tornado?  
No\_\_\_ Yes\_\_\_ (if YES, check how long: Overnight only?\_\_\_ 2-3 days?\_\_\_  
a week or so?\_\_\_ 2 weeks or so?\_\_\_ four weeks or more?\_\_\_
- e. At the time of the tornado, did you own or rent the place you lived in?  
Own\_\_\_ Rent\_\_\_
- f. At the time of the tornado, how many years had you lived in your home?  
Under 1 year\_\_\_ 6 to 10 years\_\_\_ 16 to 20 years\_\_\_  
1 to 5 years\_\_\_ 11 to 15 years\_\_\_ More than 20 years\_\_\_
- 11a. Did you have a job at the time of the tornado?  
No\_\_\_ Yes (full time\_\_\_ or part time\_\_\_)
- b. What do you consider your main job or occupation?  
(Indicate if retired, housewife or student)\_\_\_\_\_
- 12a. What is the last year of schooling you completed?  
Grade school\_\_\_ High school graduate\_\_\_ Some college\_\_\_  
Some high school\_\_\_ Technical school\_\_\_ College graduate\_\_\_
- b. What was your marital status at the time of the tornado?  
Single?\_\_\_ Married?\_\_\_ Widowed?\_\_\_ Separated?\_\_\_ Divorced?\_\_\_
- c. Would you consider your family life style to be that of:  
Upper middle class?\_\_\_ Working class?\_\_\_ Middle class?\_\_\_  
Lower class?\_\_\_ Upper class?\_\_\_
- d. Have you experienced another disaster before? (EXCLUDE war situations)  
No\_\_\_ Yes\_\_\_ (if YES, what and date?\_\_\_\_\_)
- e. How does the assistance that your household received in recovering from the tornado compare to the help that others in the community received?  
Greater\_\_\_ the Same\_\_\_ Less\_\_\_ Did not receive any help\_\_\_

13. The following statements are about your attitudes towards different things in life. Each statement gives you a chance to express your own feeling. There are no right or wrong answers. It's your opinion we need.

For each item below circle: 1 for ALMOST ALL THE TIME

2 for OFTEN

3 for SOMETIMES

4 for SELDOM

5 for NEVER

	ALL THE TIME	O F T E N	S O M E T I M E S	S E L D O M	N E V E R
a. Have you felt in good spirits? . . . . .	1	2	3	4	5
b. How often have you had crying spells or felt like it? . . . . .	1	2	3	4	5
c. Have you had any trouble going to sleep and staying asleep? . . . . .	1	2	3	4	5
d. Have you felt that you have met a great challenge and are the better for it? . . . . .	1	2	3	4	5
e. How often have you felt alone & helpless? . . . . .	1	2	3	4	5
f. How often have you felt that people don't care what happens to you? . . . . .	1	2	3	4	5
g. How often have you felt quite self- confident to meet practically any kind of problem? . . . . .	1	2	3	4	5
h. How often have you felt that life is hopeless? . . . . .	1	2	3	4	5
i. Have you thought that recent experience shows you can handle crisis better than you once thought you could? . . . . .	1	2	3	4	5
j. How often have you thought of suicide? . . . . .	1	2	3	4	5
k. Have you felt that you are bothered by all sorts of ailments in different parts of your body? . . . . .	1	2	3	4	5
l. Have you ever had periods of days or weeks when you couldn't take care of things because you couldn't get going? . . . . .	1	2	3	4	5
m. When things haven't turned out, how often would you say you blame yourself? . . . . .	1	2	3	4	5
n. How often have you felt other people are so helpful? . . . . .	1	2	3	4	5
o. Have you felt closer to other people? . . . . .	1	2	3	4	5
p. Have you tended to feel tired in the morning? . . . . .	1	2	3	4	5
q. Have you felt that your life has changed so much that you are powerless to control it? . . . . .	1	2	3	4	5
r. Have you sometimes wondered if anything is worthwhile anymore? . . . . .	1	2	3	4	5
s. How often would you say that things haven't turned out the way you wanted them to? . . . . .	1	2	3	4	5
t. How often have you thought that you are fortunate to be living in such an exciting period of history? . . . . .	1	2	3	4	5
u. How often have you felt that you don't enjoy doing things anymore? . . . . .	1	2	3	4	5
v. How often have you had trouble with sleeping? . . . . .	1	2	3	4	5
w. Have you had loss of appetite? . . . . .	1	2	3	4	5
x. Have you thought that your future looks bleak? . . . . .	1	2	3	4	5
y. Have you felt wonderful about the world in general? . . . . .	1	2	3	4	5
z. Have you felt that your family is much closer than before? . . . . .	1	2	3	4	5

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14. Are you presently living at the same address as you had PRIOR to the April 1974 tornado? No ☐ Yes ☐  
If NO: How many different addresses have you had since the tornado?  (give number)
15. Is the address you now have a temporary address? No ☐ Yes ☐
16. Has your marital status changed since the tornado? No ☐ Yes ☐  
If YES, in what way?
17. What is the composition of your household? (Check one.)  
Single person? ☐ Single parent with children? ☐  
Couple? ☐ Couple with grandparents and children? ☐  
Couple with children? ☐  
Other?  (What)
18. What was your age on your last birthday?  (Write in years)
19. What is your present job situation? (Check only one.)  
Employed full time by others? ☐ Retired? ☐  
Self-employed? ☐ Non-working mother? ☐  
Part-time worker? ☐ Student? ☐  
Unemployed or laid off? ☐ Other?  (What)
20. Was your job interrupted by the tornado? No ☐ Yes ☐  
If YES: for how long?  
Under one week? ☐ One month? ☐  
One week or so? ☐ Two months? ☐  
Two weeks? ☐ Three months or longer? ☐  
Three weeks? ☐ Haven't worked since? ☐
21. How many jobs have you had since the tornado?  (Write number)
22. Were any of your relatives or kin killed and/or injured in the tornado?  
No ☐ Yes ☐ (Check all that apply.)  
If YES: Close relative killed? ☐ Distant relative killed? ☐  
Close relative injured? ☐ Distant relative injured? ☐
23. What about close friends? None killed or injured ☐  
Yes, some killed ☐ Yes, some injured ☐
24. Were you or anyone in your household injured or hurt in the tornado?  
YOU: No ☐ Yes ☐ (if treated in hospital or by doctor, check here ☐)  
HOUSEHOLD: No ☐ Yes ☐ (if treated in hospital or by doctor, check here ☐)
25. How did your losses in the tornado compare with the losses of others?  
No losses suffered? ☐  
Much greater? ☐ Greater? ☐ About the same? ☐ Much less? ☐
26. Are industrial and economic development serious problems for Xenia?  
Very serious ☐ Fairly serious ☐ Not serious at all ☐
27. Are building and housing serious problems for Xenia?  
Very serious ☐ Fairly serious ☐ Not serious at all ☐
28. How would you say your physical health has been since the tornado as compared to before? Has it been? Much worse? ☐ A little worse? ☐ About the same? ☐ A little better? ☐ Much better? ☐
29. How have you felt emotionally or mentally since the tornado as compared to before? Would you say: Much worse? ☐ A little worse? ☐ About the same? ☐ A little better? ☐ Much better? ☐

THANK YOU VERY MUCH FOR YOUR ASSISTANCE. THE STATISTICAL RESULTS OF THE SURVEY WILL BE RELEASED TO THE LOCAL MASS MEDIA.

PLEASE TAKE THESE GREEN SHEETS AND ENCLOSE THEM IN THE ALREADY STAMPED, ALREADY ADDRESSED ENVELOPE AND PUT IT IN THE MAILBOX SO THAT IT WILL GET TO THE DISASTER RESEARCH CENTER, THE OHIO STATE UNIVERSITY, COLUMBUS, OHIO 43201.