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CIVIL DEFENSE BELIEF PATTERNS:

(III) Fallout Shelters and Radiation

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Thomas Danbury  
Albert D. Talbott

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## CIVIL DEFENSE BELIEF PATTERNS

### PREFACE

#### WHAT THIS SERIES OF REPORTS IS ABOUT

This series of reports deals with distinctive patterns of belief about fallout shelters and radiation, peace and defense, with the trusting of sources, with people's interests in various kinds of civil defense topics, and with changes in these various patterns over time.

We have taken one of two major approaches to psychological analysis. Some workers study traits, how much of a particular characteristic do how many people have. Instead, we have used type psychology, the parsimonious description of persons in terms of major patterns of belief. Readers interested in type methodology should read William Stephenson's The Study of Behavior.

Rokeach, in the Open and Closed Mind, suggests a model of beliefs which might best be described in concentric rings. At the core, we have beliefs so fundamental that their destruction would disintegrate the self. Then we have beliefs and disbeliefs in authorities. Then we have beliefs and disbeliefs in the ideas that these authorities express. Some of us are more rigid and dogmatic than others in defending our belief systems, including our beliefs in authorities.

During December, 1961, in each of five cities -- Boston, Lansing, Minneapolis, Oklahoma City, and Santa Monica-- we interviewed about 30 persons, 149 altogether. We chose them on the basis of their responses to a telephone survey directed by Dr. David K. Berlo. We maximized differences among persons in terms of their estimates of the likelihood and nearness of war, the chances it might effect them and possibilities of protecting themselves. Ours is a purposive sample of persons, not a random or representative sample.

In these interviews, we collected information about the belief patterns of people in three areas: fallout shelters and radiation, trust and distrust accorded people who might say something about them, and general orientations toward peace and defense which buttress these beliefs.

To accomplish this, we used Stephenson's Q methodology. A brief summary of the major steps in a Q study will be found at the end of this preface. Also, a separate report entitled Technical Summary is available summarizing in detail the various procedures used in collecting, processing, and analyzing the data.

In May, 1962, we sent all 149 persons who were interviewed in December a copy of the Government's pamphlet entitled "Fallout Protection."

One month later, in June, 1962, we re-interviewed all we could reach of the persons who had participated in the December phase of the study. In all, 105 of the original 149 were re-interviewed. Again, we collected information on patterns of fallout shelter and radiation beliefs and peace and defense beliefs. In addition, we investigated a new area--people's interest

## II

in various kinds of civil defense topics, ones that might appear in print. We also asked the people about exposure to civil defense information, how the world situation was changing, "Fallout Protection" bulletin readership, use of the mass media and other things of a demographic or biographic nature such as age, education income, etc.

Our purpose in re-interviewing was to get at various aspects of change and stability in the predominant belief patterns associated with fallout shelters and radiation and peace and defense over a six month period.

Our prime interest was in the relationship of such changes to exposure to information about civil defense, readership of the "Fallout Protection" bulletin, perceptions of changing world conditions, media use and other characteristics of the respondents.

In this series, Civil Defense Belief Patterns, there are included seven reports on the substantive findings of this program of research. They are:

### Fallout Shelters and Radiation

→ Description and tabular summary of the four major types of persons on the basis of their patterns of belief about fallout shelters and radiation. ←

### Source Credibility

Description and tabular summary of the five major types of persons on the basis of their patterns of trust and distrust accorded sources of information about fallout shelters and radiation.

### Topic Appeals

Description and tabular summary of the five major types of persons on the basis of their patterns of interest in civil defense information topics.

### Peace and Defense

Description and tabular summary of the five major types of persons on the basis of their patterns of belief about peace and defense.

### Change in Belief

Description and tabular summary of the changes in major types of belief patterns about fallout shelters and radiation and peace and defense. Includes a summary of the relationships between belief pattern changes and various indices including civil defense information and media exposure, "Fallout Protection" bulletin readership, and general demographic characteristics.

### Summary

General and overall summary of the program of research on civil defense belief patterns.

### Technical Summary

Detailed summary of the various procedures used in collecting, processing and analyzing the data. This report primarily intended from the reader with a more technical bent who is either interested in the specific technical procedures we used or is interested in conducting a similar program of research.

## Major Steps in Q Analysis

1. Respondents are asked to sort a deck of cards which have items printed on them into a specific number of ranked piles according to a modified normal distribution. The sorting is done on the basis of some criterion, e.g., belief-disbelief, agree-disagree, etc.
2. A matrix of intercorrelations is formed by correlating every person's sort of items with every other person's sort of items.
3. This matrix of intercorrelations is submitted to factor analysis so that persons are variables and items are observations. A principal axis solution is obtained. This is submitted to a varimax rotation which produces orthogonal factors. On this basis, a factor represents a grouping of persons around a common pattern of sorting the items. Hence, a factor represents a type of person.
4. Each pattern of sorting the items associated with each factor or type of person is estimated. This is done by weighting each item response of each of the persons most highly associated with a given factor by the degree to which they are loaded on that factor. The higher a person's loading on the factor, the greater is the weight. These weighted responses are summed across each item separately. This produces an item array of weighted responses for each factor in the rotated factor analysis solution selected. The arrays of weighted responses are then converted to z-scores.
5. The arrays of item z-scores are ordered from most accepted to most rejected for each factor. This provides a hierarchy of item acceptance for each factor or type of persons.
6. The arrays of items z-scores for each factor are compared by subtraction for each pair of factors. This produces arrays of difference scores for each pair of factors. This provides the basis for differentiating one factor or type of persons from another.

## FALLOUT SHELTERS AND RADIATION

In what ways basically do Americans differ in their patterns of beliefs about fallout shelters and radiation? How do such basic belief patterns relate to a favorability toward building a shelter or supporting a shelter program? Do the types of persons differ in the accuracy of information they have about radiation effects and the efficacy of fallout shelter protection? When types of persons are either for or against fallout shelter construction, do they give the same reasons to back up their positions? What sources of information about civil defense do the major types of persons trust or distrust. What kinds of civil defense topics appeal to each of the various major types of persons. What beliefs about peace and defense matters are associated with each of the major belief patterns about fallout shelters and radiation? These are the kinds of research questions we posed for this part of the study of Civil Defense Belief Patterns.

We constructed a series of statements representing a variety of orientations and beliefs about fallout shelters and radiation. Then we asked our respondents in Boston, Lansing, Minneapolis, Oklahoma City and Santa Monica to evaluate these statements. They sorted 57 such statements into 13 ranks from those with which they agreed, believed, or thought were true to those with which they disagreed, disbelieved, or thought were false. We analyzed these patterns of acceptance and rejection of these statements in each of the five cities. There were four basic patterns of belief about fallout shelters and radiation which cut across cities.

In a similar manner, we asked our respondents to indicate their beliefs in three other areas. They were: 1) what sources of civil defense information sources did they trust or distrust, 2) what kinds of civil defense topics appealed or did not appeal to them, and 3) what kinds of beliefs about peace and defense matters did they have. For each of the four fallout shelter and radiation types of persons, we obtained estimates of their beliefs in each of these three areas.\*

Of the four major types of persons differentiated on the basis of their patterns of beliefs about fallout shelters and radiation, we found two types favorable toward shelter building. One of these saw the development of shelter protection as his own responsibility while the other would like to leave the whole matter up to the government. Two types were against shelters, but for quite different reasons. The first felt they would do little good, that

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\* It should be emphasized that beliefs in these three areas as described in this report are not the belief patterns as described in other reports. Those described in other reports were the result of separate, independent factor analyses. The peace and defense, source, and topic beliefs described in this report are not the result of factor analyses of the sorts in the three areas. Rather, they resulted from an averaging process involving just the persons most highly representative of each of the four fallout shelter and radiation types.

nuclear war probably combined with germ war would destroy everything, no matter how much or well we are prepared. The second seemed to be simply a religious fatalist: "My life is in the hands of God..."

We describe each of these types in terms of their fallout shelter beliefs, their more general orientations on peace and defense, the sources they trusted or didn't trust and their interests in topics.

All Four Shelter Types...

AGREE

- + There seems to be an awful lot of confusion about the need for fallout shelters. The leaders in government don't seem to be able to make up their own minds on whether we ought to build them or not.
- + I'm interested in finding out more about fallout shelters to see whether we really should build them or not.
- + People, food, water and other things become radioactive if they are exposed to radiation and should be avoided by those who have not been exposed.

Are UNSURE About

- O There are ways of reducing the harmful effects of fallout.
- O Most fallout rapidly loses its power to harm.
- O Every shelter, in order to protect you from fallout radiation, should have an air tight door.
- O I am interested in reading and talking about civil defense and shelters, but I doubt if I'll ever do anything about it.
- O I won't build a shelter because I don't have any place to put one.
- O I'd go crazy if there was a terrible nuclear attack and I had to stay in a shelter for two or three weeks.
- O To be really safe, a fallout shelter should be built of lead.
- O On this business of fallout shelters, I think I'll wait and see what other people around here do before I decide whether to build one or not.

DISAGREE

- I don't like to talk about war and would rather not read anything about fallout shelters or things like that.
- I have so many problems of my own, I can't spend time worrying about the Russians and fallout shelters.
- I guess that I would build a family shelter, except that most of our friends would think we were crazy if we did.
- I don't need a fallout shelter. If there is an attack, I'm going to head for the hills or the woods or somewhere away from things.
- If I had a shelter in my basement, it would just make me worry all the more about the danger of war.



Though our four patterns of belief differed sharply in many respects, the types did agree in believing rather strongly that the fallout shelter issue is fraught with CONFUSION. They suggest a lack of leadership. They say they want more information and some guidance on what they ought to do. (This probably does not mean that most people will go out of the way to get the information nor that they will take any suggestion that comes along.)

Their need for information becomes clear when we see some of the matters they are uncertain about. Many people seem to think of radiation as a kind of communicable disease. Maybe fallout continues to hang around infecting people with radiation, maybe not. If you do have a shelter, perhaps it should have an air tight door, perhaps not. Possibly the shelter has to be built of lead, possibly not. Should we really build a shelter, or shouldn't we? Would staying cooped up in one for a while drive us nuts or wouldn't it?

Of course, their saying that they want to know more about fallout shelters and radiation is done in the context of an interview which undoubtedly suggests to many that these topics are important. They appear not to find talk of war and material on fallout shelters so unpleasant that they would avoid them. They seem to feel that these are matters they should be concerned about. On the surface anyway, they seem to feel that their friends would not ridicule them were they to build a shelter. They reject the notion that they could escape fallout dangers by heading for the hills. And they don't feel that having a shelter in the basement would make them overanxious.

SHELTER TYPE "A" BELIEVES

- + We ought to keep ourselves prepared in case war comes.
- + Everyone should find out as much as he can about fallout shelters and other civil defense matters.
- + Building a shelter is like buying insurance -- we should have one just in case.
- + My family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
- + If nuclear attack comes, our area here will probably get a heavy dose of fallout of radioactive materials.

SHELTER TYPE "A" DOES NOT BELIEVE

- This fallout shelter fuss is just a lot of nonsense.
- There is really nothing an ordinary citizen like me can do to protect himself in case of nuclear war.
- In the eyes of God, things like fallout shelters are immoral.
- A person dies when his time is up. There is nothing anyone can do about it.
- My fate is in the hands of God. There is no use building fallout shelters.
- If all of us prayed, there would be nothing to worry about.
- There's no use saving my life in a fallout shelter, since our country will be in such a mess after the attack.
- We don't really need fallout shelters around here.

Type "A" clearly favors fallout shelter protection. He thinks it will help--just in case. Furthermore, he feels that individuals such as himself should assume responsibility for the matter and should not leave everything up to the government.

We need more information, Type "A" says so that we can decide what to do now and will know what to do when the alarm is sounded. More than any other type of person, this one is concerned about whether to build a shelter or not. Says "A", "If I had the money, I'd get a fallout shelter built for my family right away."

"A" appears to be better informed than others about radiation effects. Type "A" feels that fallout shelters will work. This belief seems fundamental to the acceptance of the shelter idea. More than any other type of person, "A" believes that fallout shelters will do the job and will do it well enough so that conditions after the attack won't be impossible. He does not agree with those who say there is no defense against an atomic war.

### Peace and Defense Beliefs

Type "A" believes that nuclear attack is unlikely, but that its consequences would be so bad that it is smart to prepare now. Along with fallout protection, "A" supports strong military forces, a firm stand by the President in international negotiations and the strengthening of the United Nations. He wants neither "softness" nor a preemptive attack on the Russians.

Type "A's" rejection of the futility of attempting to defend against an atomic war exceeds, by far, that by the other types. He also differs from the other types in his lack of desire for the President to create a Department of Peace in an attempt to resolve permanently the cold war.

### Sources

As SOURCES of information and opinions about fallout shelters and civil defense, Type "A" most trusts President Kennedy. He also puts strong confidence in Civil Defense officials at federal, state and local levels. Secretary of Defense McNamara is also high on his list of trusted sources.

He rejects the head of S.A.N.E., a group which hopes to end nuclear testing. Type "A" also distrusts the head of a committee for world federation as a source of information and opinions on this matter.

### Topic Appeals

You recall that "A" said we need to become better informed. Here are the kinds of things he says he is most likely to read:

- + You May Be Your Only Doctor In a Nuclear Attack.
- + WARNING! NUCLEAR ATTACK -- How Much Time Will You Have?
- + Fallout and How To Get Rid of It.
- + How to Contact Your Loved Ones After a Nuclear Disaster.
- + A Doctor's Report on Radiation.
- + For Those who Survive -- What it Will Be Like After the Blast -- The Next Week, The Next Year.
- + City Size, Bomb Size, and Your Chances For Survival.
- + Evacuation Techniques in a Nuclear Attack.

Here are the kinds of things "A" is most likely not to read:

- Occupation - Peace-marcher: How and Why.
- Will Russian Soldiers Walk Our Main Streets?
- Why you Shouldn't Build a Fallout Shelter.

- So You Think Radiation's Contagious.
- No More Children for Nuclear Age Man.
- Tax Credits for Protecting Yourself and Your Family.

( Note: -- signifies rejection of topic much more than for any other type)

More than with any of the other types the subject of civil defense and fallout shelters has entered into "A's" conversation during the past few months.

SHELTER TYPE "B" BELIEVES

- + Fallout shelters just won't do the job.  
All shelters do is make people think they are safe when they really aren't.
- + We must not give so much attention to shelters, but instead try harder to prevent war.
- + There is nothing an ordinary citizen like me can do to protect himself in case of a nuclear war.
- + Some areas of the earth will be impossible to live in for years or even centuries after an attack.
- + Fallout from an explosion will cover thousands of square miles.
- + If we must have then, we should have large public shelters rather than individual types.

SHELTER TYPE "B" DOES NOT BELIEVE

- If I had the money, I'd get a fallout shelter built for my family right away.
- If everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
- I worry a lot about whether to build a fallout shelter or not.
- If all of us prayed, there would be nothing to worry about.
- In the eyes of God, things like fallout shelters are immoral.
- A person dies when his time is up.
- My fate is in the hands of God.

Type "B" rejects fallout protection almost as much as "A" favors it. He does so because he doesn't believe shelters will really help very much. That is, "B" seems to say that things would be so horrible that nothing would help. He even feels that the Russians are more likely to use germ warfare than nuclear weapons.

This type foresees a very dismal postattack world. Practically all his loved ones will be dead. Fallout, something like a gas (he believes), and deadly germs will be all around us. Those persons who do manage to survive the blast and fire will die a terrible lingering death. Food and water will be contaminated. There will be no safe place.

Type "B" is not fatalistic. Instead, he wants action on means to prevent war. Let's not waste our time and energy on this fallout shelter nonsense. He rejects the idea of doing what the government thinks is best.

He is ill-informed about the nature of radiation and its effects. More than any other type of person, "B" is apt to think that, if you get exposed to radiation at all you will die. Fallout long retains its power to harm, he says. But he says it doesn't bother him to talk or read about fallout shelters.

### Peace and Defense Beliefs

Of all the types, "B" seems most frightened by the international situation and the possibility of nuclear attack. He fears that somebody will push the wrong button at the wrong time. More than the other types, he urges that our leaders keep talking at peace and disarmament conferences and in the U.N. A policy of strong military defense is not the solution for him. He frankly admits that he very much worries about the possibility of war.

By much more than the other types, Type "B" believes that after a nuclear attack on the U.S. life here would become a savage man-to-man struggle for survival. And he doesn't think we have been told nearly the full story of the devastating effects of nuclear war. He feels more strongly than the others that nuclear war would mean the wiping out of mankind.

He strongly favors giving more power to the United Nations and the setting up of a "Department of the Peace" to get the cold war settled once and for all. He does not feel that we can solve things by staying out of international politics.

### Sources

Now here is something very interesting: The most trusted SOURCE for Type "B" was President Kennedy. And another high trusted source was Secretary McNamara. On the other hand, official Civil Defense authorities were somewhat trusted by "B" but to a lesser degree than are any other type.

This type placed relatively high confidence in "a famous nuclear scientist," Secretary Dean Rusk and Edward R. Murrow of the U.S.I.A. Much more than other types of persons, "B" trusted the heads of a national committee for peace and disarmament and S.A.N.E. for information and opinion on fallout shelters and other civil defense matters.

Type "B" even puts U Thant, acting secretary general of the U.N., higher than generals of the Army and Air Force, a pamphlet prepared by Civil Defense people and the local director of civil defense. He strongly rejects such sources as the national commander of the American Legion and the head of the American Medical Association.

### Topics

And what would Type "B" like to read about? You can probably guess from what you already know. Here are "B's" most approved topics:

++ How Can The World Disarm?

+ For Those Who Survive -- What It Will Be Like After the Blast --  
The Next Week, The Next Year.

++ World War III Could be an Accident.

++ Occupation -- Peace-Marchers: How and Why.

++ And After The A-Blast, There's FIRE.

+ A Doctor's Report      Radiation.

+ Floods, Fires and Tornadoes are Jobs for Civil Defense Too.

+ Fallout And How To Get Rid Of It.

(Note: ++ signifies acceptance of tonic much more than for any other type.)

Here are the kinds of things he is most likely not to read:

-- Shelter Building Americans and How They Did It.

-- Shelter Living and Keeping in Good Spirits.

- My Town and Yours -- Pinpoints on Moscow's attack map.

-- 3 - 2 - 1 -- NUCLEAR ATTACK! What Do You Do Now?

-- A Shelter Blueprint That May Mean Your Survival.

-- Group Shelter or Family Shelter.

- Want A Speaker For Your Group? Ask Your Local Civil Defense Man.

- A New Playroom, More Storage Space, and Fallout Protection Too.

- Shelter Building Supplies are as Near as Your Phone.

- Firearms and Fallout Shelters.

(Note: -- signifies rejection of tonic much more than for any other type)

Type "B" evidently does not want to read about the effects of a nuclear attack nor instrumental materials on how to protect oneself.

Among the Shelter and Radiation types, "B" seems to be the most avid reader. The number of books he read in the month before the June study is greater than for any other type. "A" has also had more formal education and lives in a household with a larger total income.

SHELTER TYPE "C" BELIEVES

- + My fate is in the hands of God.  
There is no use building fallout shelters, since what God wills will be done.
- + We ought to do all we can to prevent war.
- + If all of us prayed for peace there would be nothing to worry about.
- + Let's not pay so much attention to shelters.
- + A person dies when his time is up.  
There's nothing anyone can do about it.
- + Any shelter adequate for a family would cost more than \$300.
- + I won't build a shelter.

SHELTER TYPE "C" DOES NOT BELIEVE

- If I had the money, I'd get a fallout shelter built for my family right away.
- If everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
- If you get exposed to radiation at all, you are likely to die.
- Even though radiation is invisible, it is simple to detect fallout.
- A plastic suit with a filtering mask is good protection against fallout.
- A nuclear attack will make some areas of the earth impossible to live in for years or even centuries.
- Radiation sickness is not contagious.

Type "C" is clearly fatalistic: Unlike "A" and "B", he feels that prayer is the answer. He says, "God, not fallout shelters, will determine whether we live or die." There is no point in building shelters since a person cannot determine his own destiny. In fact, he feels, as does no other type, that fallout shelters are immoral.

Even so, "C" feels he should find out more about shelters so he can decide whether to build one or not.

Less than any other type does he see building a shelter as a kind of insurance. What is insurance to a fatalist? Yet of all types, "C" seems least worried about the effects of staying in a shelter for two or three weeks.

In any case, "C" feels that the civil defense people are doing a good job.

Type "C" is well informed on some matters and not on others. But, what difference does it make?

Peace And Defense Beliefs

Like "A" Type "C" feels that we should have strong military defenses and President Kennedy should deal firmly in international matters. He feels



we are already so strong that only a fool would attack us. He doesn't think anyone will attack us. Big war is unlikely. He doesn't feel that Russia and China are going to start fighting each other. In fact, he doesn't seem to want to think "bad" about anybody. As you might expect. He strongly opposes a preemptive attack on the Soviet Union.

#### Sources

Like Types "A" and "B", this one put President Kennedy at the top as a SOURCE of information and opinions about shelter protection. "C" also rated former President Eisenhower and Vice President Nixon higher than did any other group. The federal director of civil defense stood just below President Kennedy and Eisenhower as a source on this matter and the local civil defense man was only a few levels lower. Type "C" considers his local and national religious leaders as adequate sources.

This type would reject the principal of his nearby school, the president of the Ford Motor Company, the head of S.A.N.E. and the national commander of the American Legion.

Type "C" does not seem totally unconcerned about his fate when we examine the topics he would like to read about. Here are the headlines he ranked high:

- ++ Food Exposed to Radiation Can be Salvaged.
- + How Can The World Disarm?
- ++ In A Shelter or Out of It -- What are the Chances of Survival in A Nuclear Attack.
- + How To Contact Your Loved Ones After Nuclear Disaster.
- + You and Your Neighbor -- How You Can Both Survive.

(Note: ++ Signifies acceptance of topic much more than for any other type.)

And "C" rejected these topics:

- Why You Shouldn't Build A Fallout Shelter.
- Psychological and Sociological Problems of Shelter-living.
- Will Russian Soldiers Walk Our Main Streets?
- Is Your Child's School Prepared for Nuclear Attack?

-- City Size, Bomb Size and Your Chances of Survival.

- My Town and Yours -- Pinpoints on Moscow's Attack Map.

--World War III Could be an Accident.

(Note: -- Signifies rejection of topic much more than for any other type.)

So, Type "C" seems both worried and not worried at the same time -- fatalistic, yes, but maybe things don't happen just that way. After all, the "Cs" are imbedded in a culture which rejects fatalism. A true fatalist should not be concerned about chances for survival.

Type "C" will probably not object to the building of fallout shelters for other people and he might even sneak into one if the time comes -- unless his fundamental religious ire is aroused. So, watch out!

During the four weeks before the study, Type "C" attended church more times than did any other type. Also, "C" surpasses all other types in his preference for a particular religious faith. "C" did not remember having received a copy of the government's bulletin on Fallout Protection

### SHELTER TYPE "D" BELIEVES

- + On this fallout shelter business, I'll do whatever the government thinks is best to do.
- + We should build large public shelters rather than have each family build one of its own.
- + The government should lend money to communities so community shelters can be built.
- + The government ought to start a program for building shelters.
- + My family and I ought to have a shelter to go to, either private or public.
- + It's the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
- + The fallout shelter should serve peacetime purposes as well.

### SHELTER TYPE "D" DOES NOT BELIEVE

- In the eyes of God, things like fallout shelters are immoral.
- My fate is in the hands of God. There is no use building fallout shelters.
- If all of us prayed for peace, there would be nothing to worry about.
- I worry a lot about whether to build a fallout shelter or not.
- After an attack, some areas of the earth would be impossible to live in.
- If you get exposed to radiation at all, you are likely to die.
- After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breath.

Type "D" reveals his passive support of fallout shelters. He evidently wants fallout protection at the initiative and expense of the federal government. He will do whatever the government thinks is best to do. He puts the whole matter on the government's shoulders.

As you might expect, "D" favors large public shelters over family shelters. Possibly, he is projecting when he says "I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that."

Shelter Type "D" rejects religious fatalism and has reason to believe man can survive nuclear attack.

### Peace And Defense Beliefs

This type doesn't feel that the Russians are likely to use germ warfare. Nor does he feel that fallout would be as big a problem as most people make out. But he feels that we ought to keep ourselves prepared in case war comes.

Like Type "B", this one seems worried about the way things are going. He fears that somebody will push the wrong button at the wrong time. He also feels that we have not been told the "full story" of the devastating effects of nuclear war.

At the same time, "D" believes that we are so strong that only a fool would attack us. He feels that we should be strong and that President Kennedy should take a firm stand whenever "they" try to push us.

Type "D" does not believe that nuclear war would mean the wiping out of mankind. He does feel that defense and preparation are possible, but would just as soon leave it all up to the "government."

#### Sources

Curiously, this is the only type which does not put President Kennedy at the top of trusted SOURCES. He is placed high, but the federal and state directors of civil defense, a civil defense pamphlet, a famous nuclear scientist and the head of the American Medical Association are all higher. The local director comes just below the President.

The president of the Ford Motor Company is one of "D's" most rejected sources. Type "D" wants official sources, those connected with government or national organizations.

Type "D's" choices of topics to read about are similar to "A's", except that "D" wants to read "Building a Shelter? Uncle Sam Will Foot The Bill," and "A" rejects it. Here are the topic headlines "D" said interested him:

- + For Those Who Survive -- What Will it be Like --  
The Next Week, The Next Year.
- + WARNING! NUCLEAR ATTACK. How Much Time Will  
You Have?
- + Evacuation Techniques in A Nuclear War.
- + You May be the Only Doctor in A Nuclear Attack.
- + Your ARE Your Community -- Know Where To Go In  
Case of Nuclear Attack.
- + Building A Shelter? Uncle Sam Will Help Foot  
the Bill.
- + The Most We Can Hope For And The Worst We Can  
Expect in A Nuclear War.

+ 3 - 2 - 1 -- NUCLEAR ATTACK! What Do You Do Now?

++ Don't Guess -- Ask Your Civil Defense.

(Note: ++ Signifies acceptance of tonic much more than for any other type.)

These are the topics which "D" rejected:

- Why You Shouldn't Build A Fallout Shelter.
- So You Think Radiation's Contagious.
- Will Russian Soldiers Walk Our Main Streets?
- Occupation -- Peace-Marcher: How And Why
- No More Children for Nuclear-Age Man.
- Tax Credits for Protecting Yourself and Your Family.
- Shelter-Building Supplies are as Near as Your Phone.
- Typhoid -- as Deadly A killer as Fallout In Shelter Living.

(Note: -- Signifies rejection of tonic much more than for any other type.)

Here we find an interesting contradiction. Type "D" does not see tax credits as a part of Uncle Sam footing the bill.

### Distribution of Types

In our sample, which was not a representative cross-section of the United States, the Type "A" belief pattern was most prevalent by far. Next, at about the same level of occurrence, were Types "B", "C", "D" and a combination of the characteristics of Type "A" and "D". It should be pointed out that the two types in this combination were "pro-shleter." There was also a small number of belief patterns which were other combinations of the characteristics of two or more types.

## APPENDIX

### Table of Contents

### Tabular Summaries

### of the

### Four Fallout Shelter and Radiation Types

Section	Color Code
Arrays of Consensus Items for the Fallout Shelter and Radiation Types (Tables 1 - 4)	Pink Fleck
Arrays and Tables for Fallout Shelter and Radiation Type A (Tables 5 - 11)	Gold
Arrays and Tables for Fallout Shelter and Radiation Type B (Tables 12 - 18)	Green
Arrays and Tables for Fallout Shelter and Radiation Type C (Tables 19 - 25)	Yellow
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Intercorrelations Between the Arrays of the Five Fallout Shelter and Radiation Types (Table 33 - 36)	Lilac
Arrays of Fallout Shelter and Radiation Beliefs Which Differentiate One Fallout Shelter and Radiation Type From Each of The Other Types (Tables 37 - 42)	Pink

TABLE 1 -- Consensus Fallout Shelter and Radiation Beliefs  
Which Did Not Differentiate Between the Four  
Fallout Shelter and Radiation Types

<u>Mean z-score</u>	<u>Statement</u>
Types A, B, C and D Generally Accept:	
1.004	42. There seems to be an awful lot of confusion about the need for fallout shelters. The leaders in government don't seem to be able to make up their <u>own</u> minds on whether we ought to build them or not.
0.783	31. I'm interested in finding out more about fallout shelters to see whether we really should build one or not.
0.504	27. People, food, water and other things become radioactive if they are exposed to fallout radiation and should be avoided by those who have not been exposed.
0.233	10. There <u>are</u> ways of reducing the harmful effects of fallout.
0.220	11. Most fallout rapidly loses its power to harm.
0.169	23. Every shelter, in order to protect you from fallout radiation, should have an air tight door.
0.127	37. I am interested in reading and talking about civil defense and shelters, but I doubt if I'll ever do anything about it.
And Reject:	
-0.893	46. I don't like to talk about war and would rather not read anything about fallout shelters or things like that.
-0.832	41. I have so many problems of my own, I can't spend my time worrying about the Russians and fallout shelters.
-0.817	34. I guess that I would build a family shelter, except that most of our friends would think we were crazy if we did.
-0.716	44. I don't need a fallout shelter. If there is an attack, I'm going to head for the hills or the woods or somewhere away from things.
-0.541	43. If I had a shelter in my basement, it would just make me worry all the more about the danger of war.
-0.399	48. On this business of fallout shelters, I think I'll wait and see what other people around here do before I decide whether to build one or not.
-0.230	29. To be really safe, a fallout shelter should be built of lead.
-0.209	20. I think I'd go crazy if there was a terrible nuclear attack and I had to stay in a shelter for two or three weeks.
-0.148	22. I won't build a shelter because I don't have any place to put one.



TABLE 2 -- Consensus Peace and Defense Beliefs of the  
Fallout Shelter and Radiation Types Which Did Not  
Differentiate Between the Four Types

Mean  
z-score

Statement

Types A, B, C, and D Generally Accept:

- |       |  |
|-------|--|
| 1.786 | 8. The stronger we make our own war power, the less likely we are to have a war, since we will probably never make the first attack on anyone.     |
| 1.378 | 20. We are all going to have to get used to living in a world where the threat of a nuclear attack is always with us.                              |
| 1.195 | 23. In order to settle the cold war, we should get the finest minds in the nation to work out some new solutions to the problems.                  |
| 0.822 | 22. We should give a lot more power to the United Nations to make it a true world government.  |
| 0.629 | 35. I wish President Kennedy would set up a Department of Peace to get the cold war settled once and for all.                                      |
| 0.555 | 4. I wish we could go back to the good old days when you didn't have to worry about hydrogen bombs and missiles and nuclear war-heads.             |
| 0.032 | 3. Lately, things seem to be getting better in the world. I would say the chances for peace are much better today than they were a year or so ago. |

And Reject:

- |        |  |
|--------|--|
| -1.678 | 25. I don't know whether we'll have a nuclear war -- and I don't much care, one way or another.  |
| -1.388 | 24. I think our leaders should do anything to keep us out of a nuclear war -- even to the point of yielding to the Russians on important issues. |
| -1.269 | 13. The best way to keep out of war is not to get ready for one.   |
| -0.894 | 5. We are all being radiated so much now from fallout of the bomb, testing that a nuclear attack probably won't make much difference.            |
| -0.841 | 12. I just don't like to plan ahead very much. I'll let the future take care of itself.  |
| -0.807 | 28. I think we should organize a march on Washington to get our leaders and the Russian leaders to stop testing nuclear bombs.                   |
| -0.596 | 32. After the Cuban mistake and things like that, I just can't put much trust in what our government leaders say.                                |
| -0.290 | 2. The cold war and the danger of a surprise nuclear attack get on my nerves. I wish somebody would do something about them.                     |
| -0.259 | 1. If our leaders would make a real effort to understand and co-operate with the leaders of Russia and Red China, we could probably prevent war. |
| -0.122 | 21. A nuclear attack would probably wipe out most of our government leaders in Washington.   |
| -0.111 | 6. I don't think we'll have a nuclear attack on the U. S. What would the Russians do with a radioactive waste-land?                              |

TABLE 3 -- Consensus Civil Defense Information Sources of the  
Fallout Shelter and Radiation Types Which Did Not Differentiate  
Between the Four Types

Mean

z-score

Statement

Types A, B, C, and D Generally Trust:

1.240	24. State Director of Civil Defense.
0.901	11. A famous missile expert.
0.796	35. Chairman of the Senate Defense Committee.
0.720	28. Commanding General of the U. S. Air Force in this area.
0.711	42. Commanding General of the U. S. Army in this area.
0.303	45. National religious leader of my faith.
0.189	41. My mate (husband or wife)
0.075	44. Editorial in <u>Time</u> magazine.
0.004	18. The New York <u>Times</u> .

Types A, B, C, and D Generally Distrust:

-1.856	36. My next door neighbor.
-1.492	5. Head of the AFL-CIO, George Meany.
-1.448	10. Head of the state Taxpayers' League.
-1.334	22. Head of the National Farm Bureau.
-1.298	15. My boss (or my husband's boss).
-1.105	40. My best friend.
-1.024	13. A teacher in our school.
-0.687	19. Manager of local TV station.
-0.589	32. Editorial in the newspaper I read.
-0.540	4. Your local TV newscaster.
-0.408	26. Head of the National Council of Churches.
-0.365	23. Article in <u>Reader's Digest</u> .
-0.363	2. Editorial in <u>Life</u> magazine.
-0.352	25. The President of the University.
-0.168	47. Head of the local Chamber of Commerce.

TABLE 4 -- Consensus Civil Defense Topics of the Fallout Shelter and Radiation Types Which Did Not Differentiate Between The Four Types.

Mean z-score	Statement
	Types A, B, C, and D Generally Most Want To Learn More About:
1.269	33. Living Off The Land After An Atomic Attack.
0.706	44. You CAN Help In Your Nation's Defense.
0.692	45. Even If You <u>Can't</u> Build a Fallout Shelter There's Something You Can Do.
0.500	48. Witness to Disaster: Human Behavior in a Nuclear Attack.
0.428	11. Disease as a Weapon of War.
0.384	52. Which Way Does the Wind Blow? A Vital Question After Nuclear Attack
0.081	34. If the Russians Invaded, Would You Know How to Fight?
	Types A, B, C, and D Generally Least Want to Learn More About:
-1.258	29. Some Shelter Contractors Are Dishonest - Watch Out!
-1.250	53. Your Corner Grocer Can't Help You After the Bomb
-0.883	54. Want A Speaker for Your Group? Ask Your Local Civil Defense Man.
-0.763	38. Burial of A-Bomb Victims is a Job for the Living
-0.646	25. Hiroshima, August 7, 1945--24 Hours After the Bomb.
-0.359	51. Movie Close-ups of the Effect of High, Medium and Low Yield Explosions on Typical Structures
-0.126	18. Supply and Demand--How Will It Work in An Atomic Attack?
-0.118	42. Ranch-house, Bank Building, Garage: Building Types and Nuclear Blast Effects
-0.105	22. Nuclear Fallout's Dangerous Enough--Don't Suffer From Malnutrition Too

TABLE 5 -- Fallout Shelter and Radiation Type A: Array of Fallout Shelter and Radiation Beliefs In Order From Most Accepted to Most Rejected (excludes consensus beliefs)

<u>z-score</u>	<u>Statement</u>
2.914	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
2.299	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
1.873	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just</u> in case.
1.611	54. If a nuclear attack comes, our area here will probably get a heavy dose of fallout radiation.
1.314	3. I am convinced that my family and I should have a fallout shelter-- either one of our own or a community shelter we could go to.
1.301	5. While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
0.994	13. Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
0.955	2. I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
0.851	4. On this fallout shelter business, I'll do whatever the government thinks is best to do.
0.794	33. Any shelter that would provide adequate protection for a family would cost more than \$300.
0.790	55. Even though radiation is invisible, it is simple to detect fallout.
0.725	39. If I had the money, I'd get a fallout shelter built for my family right away.
0.620	1. The government should lend money to communities so community shelters can be built.
0.584	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
0.452	15. It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
0.451	38. I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
0.410	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who has it.
0.368	8. It would be better for communities to build large public shelters rather than to have each family build one of its own.
0.193	36. I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
0.175	25. If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
0.139	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
0.045	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
0.040	18. It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
-0.071	35. I worry a lot about whether to build a fallout shelter or not.
-0.117	28. A plastic suit with a filtering mask is good protection against most fallout.

TABLE 5-Continued

<u>Z-score</u>	<u>Statement</u>
-0.139	6. We must try harder to prevent war and not give so much attention to shelters.
-0.259	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
-0.605	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
-0.638	14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-0.715	26. If you get exposed to radiation at all, you are likely to die.
-0.850	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
-0.893	50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
-1.034	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
-1.041	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
-1.099	53. I think that if all of us prayed for peace there would be nothing to worry about.
-1.246	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-1.530	52. A person dies when his time is up. There's nothing anyone can do about it.
-1.530	47. I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-1.577	21. In the eyes of God, things like fallout shelters are immoral.
-1.731	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
-1.798	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.

TABLE 6 -- Fallout Shelter and Radiation Type A: Theme Analysis of Probed Comments  
About Most Accepted and Most Rejected Fallout Shelter and Radiation Statements  
(Based on 60 respondents assigned to type)

<u>Frequency</u>	<u>Theme</u>
20	There must be something in this shelter business -- why else is there so much uproar -- but what we need is more concrete information from the government and a more authoritative stand by them.
29	It is important to be prepared for anything.
8	In times like these, we should follow the best judgment of government leaders, who are the experts.
8	I try to get as much information about shelters as I can.
8	My area is a key target area.
8	Fallout is a definite danger in my area.
2	I try to be rational in my consideration of these issues.
14	We should try to prevent war but prepare for it with shelters.
5	Preparation, in the form of shelters, is a preventative measure.
2	It is better to be safe than sorry.
4	Shelters are insurance.
3	Planning and preparation would reduce panic in the case of attack.
3	Everyone should have a shelter.
3	I think shelters are making big profits for some people.
1	The cost of shelters is very high.
1	I have no room for a private shelter.
1	I saw a shelter on exhibit. It seemed inadequate.
1	Community shelters are better than private ones due to:
3	Lower cost.
5	Family scattered in work and school cycle.
1	Either private or community shelters are OK.
1	I would make sure first that my family were protected; the neighbors would have to wait.
	On Federal construction of shelters:
	Pro
5	Part of national defense.
	Con
5	Higher taxes.
3	Federal government should encourage locals only.
1	I would donate my labor to local effort.
1	Community responsibility.
1	An individual responsibility.
	Federal loans for the construction of shelters:
1	Pro
1	Con
4	Our schools should be protected by shelters.
4	Current public facilities should be adapted to serve as shelters too.
2	Private shelters should have multiple uses to justify their existence.
	God and Shelters:
7	Are consonant.
6	God helps those who help themselves.
1	Remember Noah and the Ark.
2	God is irrelevant to the shelter question.
4	God gave us the brains to think and plan.
4	Prayer is not the key, though it may help.
2	Prayer is the key.

TABLE 6 Continued

<u>Frequency</u>	<u>Theme</u>
9	To believe in determinism is to give up before you start.
5	We have a duty to try to protect life.
8	Survival is an intrinsic human drive.
11	I'm optimistic. I want to be alive to help rebuild.
4	After the bombs, I want to help.
1	Our morale is related to our security and shelters help the latter.
2	There is a definite war threat.
1	A little radiation is OK.
1	We should take steps to make sure our elite is protected for the rebuilding.
1	I see little difference between building a tornado shelter and doing the same for fallout. Both are insurance.
2	I have had some CD instruction or participation.
	Probability of attack:
4	The probability of nuclear attack is higher than germ attack.
1	Germ attack is more likely.
1	Poison is more likely.
1	Nuclear attack probability is low.
2	Radiation is not contagious.
2	If blast and fire hit, a shelter won't do much good.
2	Plastic is no good for a shelter.
1	Shelter doors don't need to be air tight.
	Two feet of lead only for shelter walls:
2	Pro
2	Con
	References to World War II experiences:
3	Preparedness as a preventive.
3	The Japanese cities.
1	Seeking shelter in war.
3	CD experiences.
1	Other (Flint tornado).

TABLE 7 -- Fallout Shelter and Radiation Type A: Fallout Shelter and Radiation Beliefs Which Differentiate Type A From Types B, C, and D\*

<u>z-scores</u>				<u>Statement</u>	
A	B	C	D	More Than B, C, and D, A Accepts:	
2.914	1.331	2.787	0.470	57.	We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
2.299	0.463	0.873	0.587	***32.	I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
1.873	-0.543	-0.680	0.934	**12.	I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
1.611	0.759	0.762	0.264	**54.	If a <u>nuclear</u> attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
0.944	-0.707	0.053	0.716	13.	Everyone in this country should have a fallout shelter he can into if and when we are attacked.
0.790	0.054	-1.339	-0.455	**55.	Even though radiation is invisible, it is simple to detect fallout.
0.725	-1.348	-1.120	-0.863	***39.	If I had the money, I'd get a fallout shelter built for my family right away.
0.669	0.449	-0.193	0.008	10.	There <u>are</u> ways of reducing the harmful effects of fallout.
0.584	-0.587	-0.806	-1.154	*** 9.	After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
0.410	0.093	-0.933	0.075	56.	Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who has it.
0.175	0.160	-0.742	-0.866	25.	If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
0.045	-1.172	-1.050	-0.451	30.	I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
-0.071	-1.078	-0.871	-1.507	**35.	I worry a lot about whether to build a fallout shelter or not.
More Than B, C, and D, A Rejects:					
-1.798	0.397	-0.835	-0.553	**17.	I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
-1.731	1.246	-0.803	-0.848	**51.	I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
-1.530	-0.574	-0.776	-0.126	**47.	I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-1.117	-1.049	-0.702	-0.578	41.	I have so many problems of my own, I can't spend my time worrying about the Russians and fallout shelters.



TABLE 7 Continued

A	<u>z-scores</u>			<u>Statement</u>
	B	C	D	
1.041	0.296	-0.650	-0.489	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
1.034	0.320	-0.691	-0.243	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
-0.893	0.117	-0.188	-0.125	**50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
-0.850	2.442	0.014	-0.544	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
-0.638	-0.079	0.385	1.427	**14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-0.605	0.711	0.946	-0.315	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
-0.498	-0.058	-0.142	-0.220	29. To be really safe, a fallout shelter should be built of lead.
-0.398	0.002	0.039	-0.233	22. I won't build a shelter because I don't have any place to put one.
-0.285	0.415	0.194	0.185	37. I am interested in reading and talking about civil defense and shelters, but I doubt if I'll ever do anything about it.
-0.259	0.777	0.552	0.231	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
-0.139	2.239	1.907	0.748	** 6. We must try harder to prevent war and not give so much attention to shelters.
0.452	0.825	0.639	1.783	15. It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
0.519	1.298	0.702	1.495	42. There seems to be an awful lot of confusion about the need for fallout shelters. The leaders in government don't seem to be able to make up their <u>own</u> minds on whether we ought to build them or not.

\* Includes items which one type gave z-scores which were higher or lower than each of the other types. The more discriminating items are marked with asterisks:

\*\* One type placed it at least 0.5 standard deviation higher or lower than each of the other types.

\*\*\* One type placed it at least 1.0 standard deviation higher or lower than each of the other types.

TABLE 8 -- Fallout Shelter and Radiation Type A:  
 Array of Peace and Defense Beliefs From Most Accepted  
 to Most Rejected (excludes consensus beliefs)

<u>Z-score</u>	<u>Statement</u>
2.272	15. We should have the strongest military defense possible and then President Kennedy should take a very firm stand whenever they try to push us.
1.485	30. The chances of a thermonuclear attack on the United States are very small, but the consequences of such an attack would be so disastrous that the only smart thing to do is to prepare against it, now.
1.261	36. I think the civil defense people are doing the best job possible to help us prepare, in case we are ever attacked.
0.691	33. We are strong enough today so that no sensible nation would launch an attack against us, knowing that our retaliation would be swift and terrible.
0.641	11. Our leaders should keep talking at the peace and disarmament conferences and in the United Nations. As long as you're talking, you're not shooting.
0.392	16. I am almost positive that Russia or some other country will attack the United States with missiles and nuclear bombs within the next 10 years.
0.362	14. Every day we seem to be getting closer and closer to war with Russia.
0.190	19. After a nuclear attack on the United States, life here would be a savage man-to-man struggle for survival.
0.189	34. The thing I'm afraid of is that somebody will push the wrong button at the wrong time.
0.179	9. We have not been told the full story on the devastating effects of nuclear war.
-0.022	29. If Russia really threatens us, I think we should attack first to take advantage of the surprise.
-0.209	26. We should build the best defenses possible around the borders of our country and <u>stay out</u> of international politics.
-0.355	27. I think Russia and Red China are going to start fighting each other so there is no use our worrying about an attack from Russia.
-0.800	18. Nuclear war would mean the wiping out of mankind.
-0.857	31. I just don't believe there will ever be a third world war.
-0.901	17. Frankly, I just don't worry about war or the possibility of a nuclear attack.
-1.288	7. The best way to settle this whole thing would be for us to make a surprise nuclear attack on the Russians and get rid of their striking power.
-1.478	10. There is no defense against an atomic war. It is foolish to fool ourselves into thinking there is.

TABLE 9 -- Fallout Shelter and Radiation Type A: Array of Civil Defense Information Sources From Most Trusted to Most Distrusted (excludes consensus sources)

<u>-score</u>	<u>Statement</u>
2.009	9. President of the United States, John F. Kennedy.
1.941	28. Federal Director of Civil Defense.
1.846	37. A pamphlet prepared by the Civil Defense people in the Department of Defense.
1.612	8. U.S. Secretary of Defense, Robert McNamara.
1.493	30. Local Director of Civil Defense.
1.115	16. A famous nuclear scientist.
0.915	46. Head of the Central Intelligence Agency.
0.791	33. U.S. Secretary of State, Dean Rusk.
0.668	21. Former President, Dwight D. Eisenhower.
0.470	6. Head of the United States Information Agency, Edward R. Murrow.
0.444	12. Head of the American Medical Association.
0.300	17. Former Vice-President, Richard M. Nixon.
0.212	1. The Governor of this state.
-0.094	34. U Thant, Secretary-General of the United Nations from Burma.
-0.280	27. National Commander of the American Legion.
-0.317	7. Senator Barry Goldwater..
-0.318	29. Local religious leader of my faith.
-0.347	43. The mayor of this city.
-0.418	31. Head of the National Committee for Peace and Disarmament.
-0.597	39. The principal of the nearby school.
-0.816	14. Head of the Committee for World Federation.
-0.918	3. President of Ford Motor Company.
-1.201	20. Head of SANE, national committee to abolish nuclear bomb testing.

TABLE 10 -- Fallout Shelter and Radiation Type A:

Array of Civil Defense Topics From Most Want to Learn More  
About to Least Want to Learn More About (excludes consensus  
topics)

<u>z-score</u>	<u>Statement</u>
1.820	31. You May Be Your Only Doctor in a Nuclear Attack
1.447	13. WARNING! NUCLEAR ATTACK - How Much Time Will You Have?
1.321	47. Fallout and How To Get Rid of It
1.297	10. How to Contact Your Loved Ones After Nuclear Disaster
1.260	57. A Doctor's Report on Radiation
1.193	5. For Those Who Survive--What It Will Be Like After the Blast--The Next Week, The Next Year
1.114	50. City Size, Bomb Size, and Your Chances for Survival
1.104	37. Evacuation Techniques in a Nuclear Attack
0.979	56. Is Your Child's School Prepared for Nuclear Attack?
0.850	30. In A Shelter or Out of It--What Are the Chances of Survival in a Nuclear Attack
0.832	40. You and Your Neighbor--How You Can Both Survive
0.800	9. 3-2-1--NUCLEAR ATTACK! What Do You Do Now?
0.727	1. Food Exposed to Radiation Can Be Salvaged
0.659	15. The Most We Can Hope For and the Worst We Can Expect in a Nuclear War
0.467	7. Why Our Government Wants Us to Build Shelters
0.444	2. You ARE Your Community--Know Where to Go in Case of Nuclear Attack
0.373	49. Psychological and Sociological Problems of Shelter-Living :
0.305	24. A Shelter Blueprint That May Mean Your Survival
0.274	12. The Blast of Nuclear War: Protection Against a Near-Solid Wall of Air Pressure
0.245	23. Group Shelter or Family Shelter?
0.101	36. World War III Could Be An Accident
0.033	55. Typhoid--As Deadly A Killer As Fallout in Shelter-Living
-0.006	43. Firearms and Fallout Shelters
-0.023	6. Don't Guess--Ask Your Civil Defense!
-0.100	35. How Can The World Disarm?
-0.151	3. There Are Ways to Know About Fallout
-0.230	21. My Town and Yours--Pinpoints on Moscow's Attack Map
-0.240	16. And After the A-Blast, There's FIRE
-0.303	27. A New Playroom, More Storage Space, and Fallout Protection Too
-0.383	32. Shelter-Living and Keeping in Good Spirits
-0.404	28. Shelter-Building Americans and How They Did It
-0.538	20. One If By Land, Two If By Sea--America's Nuclear Readiness System
-0.612	14. Floods, Fires and Tornadoes Are Jobs For Civil Defense Too
-0.648	41. Building a Shelter? Uncle Sam Will Help Foot the Bill
-0.829	39. Shelter-Building Supplies Are As Near As Your Phone
-0.831	26. Our High Cost of Living and the Low Cost of Surviving
-1.016	46. Tax Credits for Protecting Yourself and Your Family
-1.442	4. No More Children for Nuclear-Age Man
-1.445	19. So You Think Radiation's Contagious
-1.893	58. Why You Shouldn't Build A Fallout Shelter
-2.104	17. Will Russian Soldiers Walk Our Main Streets?
-3.258	8. Occupation--Peace-Marcher: How and Why

TABLE 11 -- Fallout Shelter and Radiation Type A:  
Correlations Between the Degree to Which a Subject is of the Type A  
(estimated factor loadings) and Various Demographic and General Civil  
Defense Information Exposure Variables\*\*

Var. No.	Variable	Code	Corre- lation*
11	Sex of subject	0 - female 1 - male	+ .084
12	Age of subject	Actual age	- .172
13	Number of children who still live at home	Actual number of children	- .032
14	Last grade which was completed in school	Actual last grade completed	+ .131
15	"Do you have a preference for a particular religious faith?"	0 - No, Won't say 1 - Yes	+ .091
16	Number of times subject has attended church in last four weeks	Actual number of times	- .127
17	Number of years subject has lived at present address	Actual number of years	- .073
18	Number of years subject has lived in present city	Actual number of years	- .091
19	Number of years subject has lived in present state	Actual number of years	- .074
20	Number of hours of television viewing in past week	Actual number of hours	+ .171
21	Number of hours of radio listened to in past week	Actual number of hours	+ .012
22	"Did you look into or read a newspaper yesterday....the day before yesterday?"	0 - No yeses 1 - 1 yes 2 - 2 yeses	+ .190
23	Number of books read in the past month	Actual number of books read	+ .023
24	Number of meetings of organizations attended in the past month	Actual number of meetings	+ .129
25	Subject's estimate of total family income	Actual income estimate	+ .037

TABLE 11 Continued

Var. No.	Variable	Code	Corre- lation*
1	Perceived Change Index: Guttman scale of following questions.....	0-5 - Number of yeses to five scale questions	+ .100
	"Do you feel the world situation has changed in the past few months?"	0 - No, DK 1 - Yes	
	"Has anything happened since your interview last December that has given you any new ideas about civil defense?"		
	"In the past few months, have your feelings about fallout shelters changed in any way?"		
	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIATION) any differently than you did last December?"		
	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"		
2	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"	0 - No, DK 1 - Yes	- .116
3	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIA- TION) any differently than you did last December?"	0 - No, DK 1 - Yes	- .070
4	"Since the last interview, have you noticed anything in the newspapers about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .103
5	"Have you noticed anything on television about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .047
6	"In the past few months, have you noticed anything in magazines about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .005
7	"In the past few months, have you talked with anyone about civil defense?"	0 - No, DK 1 - Yes	+ .250

TABLE 11 Continued

Var. No.	Variable	Code	Corre- lation*
8	"Have you gotten any other information about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .179
9	"Have you gotten a copy of the government's bulletin on 'Fallout Protection.'" (yes, DK, no)	0 - If no 1 - If yes, all no below	+ .023
	"If YES: Did you read it?" (yes, yes in part, no)	3 - If yes in part, no below 4 - If yes, no below	
	"If YES or YES IN PART: Did you discuss the bulletin with anyone?"	5 - If yes	
10	"Have you thought about ordering any other civil defense booklets from the government?"	0 - If no 1 - If yes, no below	+ .118
	"If YES: Have you ordered any yet?"	2 - If yes	

\* With an N = 104, a correlation of .193 is significant at the .05 level (two-tailed).

\*\* A matrix of innercorrelations between all pairs of the demographic and exposure variables will be found in the appendix of the summary report (Part A). The variable number refers to each variable's location in this matrix.

TABLE 12 -- Fallout Shelter and Radiation Type B: Array of Fallout Shelter and Radiation Beliefs In Order From Most Accepted to Most Rejected (excludes consensus beliefs)

<u>z-score</u>	<u>Statement</u>
2.442	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
2.239	6. We must try harder to prevent war and not give so much attention to shelters.
1.450	5. While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
1.331	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
1.246	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
1.190	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
1.083	8. It would be better for communities to build large public shelters rather than to have each family build one of its own.
0.825	15. It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
0.777	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
0.759	54. If a nuclear attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
0.756	18. It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
0.711	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
0.539	38. I wish the people in government would stop talking so much about fallout shelters and do something about them.
0.463	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
0.397	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
0.320	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
0.296	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
0.161	31. I'm interested in finding out more about fallout shelters to see whether we really should build one or not.
0.160	25. If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
0.142	1. The government should lend money to communities so community shelters can be built.
0.117	50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
0.093	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who <u>has</u> it.
0.058	26. If you get exposed to radiation at all, you are likely to die.
0.054	55. Even though radiation is invisible, it is simple to detect fallout.



TABLE 12 Continued

<u>z-score</u>	<u>Statement</u>
-0.020	28. A plastic suit with a filtering mask is good protection against most fallout.
-0.062	33. Any shelter that would provide adequate protection for a family would cost more than \$300.
-0.073	2. I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
-0.079	14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-0.093	36. I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
-0.103	4. On this fallout shelter business, I'll do whatever the government thinks is best to do.
-0.543	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
-0.574	47. I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-0.587	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
-0.645	3. I am convinced that my family and I should have a fallout shelter-- either one of our own or a community shelter we could go to.
-0.707	13. Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
-1.078	35. I worry a lot about whether to build a fallout shelter or not.
-1.172	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
-1.348	39. If I had the money, I'd get a fallout shelter built for my family right away.
-2.109	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-2.113	52. A person dies when his time is up. There's nothing anyone can do about it.
-2.168	21. In the eyes of God, things like fallout shelters are immoral.
-2.683	53. I think that if all of us prayed for peace there would be nothing to worry about.

**TABLE 13 -- Fallout Shelter and Radiation Type B: Theme Analysis of Probed Comments About Most Accepted and Most Rejected Fallout Shelter and Radiation Statements (Based on 16 respondents assigned to type)**

<u>Frequency</u>	<u>Theme</u>
3	If the government isn't sure whether we should have shelters, how can the layman know?
2	We don't have enough information about shelters.
1	If necessary, and if the government said so strongly enough, I might change my mind about shelters.
2	I do extensive reading about shelters and try to reach a rational decision.
1	I saw a shelter exhibit in a supermarket and I was furious. I wouldn't look at it.
1	All this is much ado about nothing.
4	Fallout shelters won't do the job.
1	If a nuclear attack comes, I don't know if shelters would help.
1	If an attack came, it would not be likely that the family would be together at the time.
5	Prevention of war is more important than preparation for an attack.
4	Shelters are not immoral in the eyes of God.
1	Shelters are in conflict with the Scriptures.
1	God couldn't be on the side of anyone planning mass destruction, so anything we do must be okay.
1	There is no God.
4	Prayer alone is not enough.
1	I believe my fate is determined.
3	I don't believe my fate is determined.
1	There are all sorts of things we can do. Our fate is not sealed.
3	I have no wish to live after an attack.
1	A shelter program presupposes that there will be a war.
1	I'm cautious. I want to wait a while and see before I buy a shelter.
4	We are a prime target.
1	Nobody has convinced me radiation is harmful.
1	The opinion of my neighbors doesn't bother me.
1	It would probably be a direct hit so a shelter would be useless.
1	If it comes, it comes.
3	It would be a surprise, so most people wouldn't have time to get to their shelters anyway.
1	Blast is the main danger so a fallout shelter is not much use.
2	Other things, besides fallout, will be the main danger.
1	I have a hillside back of my house so if there were an attack, I could dig two feet in to protect myself. I haven't dug it, but I could if there were an attack.
1	I just can't see a world of people hiding from each other.
1	The whole thing is stupid -- an underground civilization!
1	I think the whole thing is designed to make profits for some people.
1	We are exposed to moderate radiation every day so why have a shelter.
1	Shelters are too expensive.
1	Radioactivity will last for years.
1	CD should run community shelters; the Federal government shouldn't.
1	Shelters wouldn't be large enough.
1	There would be tremendous competition to get into shelters if there were an attack.

TABLE 13 Continued

<u>Frequency</u>	<u>Theme</u>
	If we must have shelters, only community ones will do:
4	Family is scattered so private shelters are useless.
1	Individual shelters are death traps.
2	I've seen CD films on bomb tests.
1	I've worked with radiation.
1	Radioactivity is not contagious.
	Shelters need an air tight door:
1	Yes.
1	No.
1	Poisonous war is more likely than nuclear war.

TABLE 14 — Fallout Shelter and Radiation Type B: Fallout Shelter and Radiation Beliefs Which Differentiate Type B From Types A, C, and D\*

<u>z-scores</u>				<u>Statement</u>	
B	A	C	D		More Than A, C, and D, B Accepts:
2.442	-0.850	0.014	-0.544 ***	16.	Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
2.239	-0.139	1.907	0.746	6.	We must try harder to prevent war and not give so much attention to shelters.
1.450	1.301	0.653	-0.010	5.	While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
1,246	-1.731	-0.803	-0.848 ***	51.	I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
1.190	0.139	-0.974	-1.328 ***	24.	The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
1,011	0.515	0.435	0.055	27.	People, food, water and other things become radioactive if they are exposed to fallout radiation and should be avoided by those who have not been exposed.
0.777	-0.259	0.552	0.231	7.	I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
0.756	0.040	-0.041	-0.960 **	18.	It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
0.415	-0.285	0.194	0.185	37.	I am interested in reading and talking about civil defense and shelters, but I doubt if I'll ever do anything about it.
0.397	-1.798	-0.835	-0.553 **	17.	I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
0.320	-1.034	-0.691	-0.243 **	40.	What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
0.296	-1.041	-0.650	-0.459 **	49.	I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
0.117	-0.893	-0.188	-0.125	50.	There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
0.058	-0.715	-1.828	-1.201 **	26.	If you get exposed to radiation at all, you are likely to die.
-0.058	-0.498	-0.142	-0.220	29.	To be really safe, a fallout shelter should be built of lead.
-0.020	-0.117	-1.191	-0.856	28.	A plastic suit with a filtering mask is good protection against most fallout.
-0.454	-0.815	-0.823	-0.772	44.	I don't need a fallout shelter. If there is an attack, I'm going to head for the hills or the woods or somewhere away from things.

TABLE 14 Continued

B	<u>z-scores</u>		D		<u>Statement</u>
	A	C			
-0.489	-0.584	-0.503	-0.587	43.	If I had a shelter in my basement, it would just make me worry all the more about the danger of war.
More Than A, C, and D, B Rejects:					
-2.683	-1.099	2.565	-1.023	***53.	I think that if all of us prayed for peace there would be nothing to worry about.
-2.113	-1.530	1.499	0.222	**52.	A person dies when his time is up. There is nothing anyone can do about it.
-2.109	-1.246	2.943	-1.582	**45.	My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-1.348	0.725	-1.120	-0.863	39.	If I had the money, I'd get a fallout shelter built for my family right away.
-1.207	-0.855	-0.657	-0.852	46.	I don't like to talk about war and would rather not read anything about fallout shelters or things like that.
-1.172	0.045	-1.050	-0.451	30.	I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
-0.707	0.994	-0.053	0.716	**13.	Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
-0.645	1.314	-0.607	1.638	3.	I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
-0.073	0.280	0.282	0.475	11.	Most fallout rapidly loses its power to harm.
-0.103	0.851	0.615	2.276	** 4.	On this fallout shelter business, I'll do whatever the government thinks is best to do.
-0.073	0.955	0.538	1.348	** 2.	I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
0.161	1.048	1.133	0.790	**31.	I'm interested in finding out more about fallout shelters to see whether we really should build one or not.
0.463	2.299	0.873	0.587	32.	I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.

\* Includes items which one type gave z-scores which were higher or lower than each of the other types. The more discriminating items are marked with asterisks:

\*\* One type placed it at least 0.5 standard deviation higher or lower than each of the other types.

\*\*\* One type placed it at least 1.0 standard deviation higher or lower than each of the other types.

TABLE 15 -- Fallout Shelter and Radiation Type B:  
 Array of Peace and Defense Beliefs From Most Accepted  
 to Most Rejected (excludes consensus beliefs)

<u>z-score</u>	<u>Statement</u>
1.491	34. The thing I'm afraid of is that somebody will push the wrong button at the wrong time.
1.464	19. After a nuclear attack on the United States, life here would be a savage man-to-man struggle for survival.
1.315	11. Our leaders should keep talking at the peace and disarmament conferences and in the United Nations. As long as you're talking, you're not shooting.
1.258	9. We have not been told the full story on the devastating effects of nuclear war.
1.107	15. We should have the strongest military defense possible and then President Kennedy should take a very firm stand whenever they try to push us.
0.658	10. There is no defense against an atomic war. It is foolish to fool ourselves into thinking there is.
0.577	36. I think the civil defense people are doing the best job possible to help us prepare, in case we are ever attacked.
0.501	18. Nuclear war would mean the wiping out of mankind.
0.190	30. The chances of a thermonuclear attack on the United States are very small, but the consequences of such an attack would be so disastrous that the only smart thing to do is to prepare against it, now.
0.092	33. We are strong enough today so that no sensible nation would launch an attack against us, knowing that our retaliation would be swift and terrible.
-0.107	14. Every day we seem to be getting closer and closer to war with Russia.
-0.250	27. I think Russia and Red China are going to start fighting each other so there is no use our worrying about an attack from Russia.
-0.276	31. I just don't believe there will ever be a third world war.
-0.757	16. I am almost positive that Russia or some other country will attack the United States with missiles and nuclear bombs within the next 10 years.
-1.116	29. If Russia really threatens us, I think we should attack first to take advantage of the surprise.
-1.143	17. Frankly, I just don't worry about war or the possibility of a nuclear attack.
-1.368	26. We should build the best defenses possible around the borders of our country and <u>stay out</u> of international politics.
-1.506	7. The best way to settle this whole thing would be for us to make a surprise nuclear attack on the Russians and get rid of their striking power.

TABLE 16 -- Fallout Shelter and Radiation Type B: Array of Civil Defense Information Sources From Most Trusted to Most Distrusted (excludes consensus sources)

<u>Z-score</u>	<u>Statement</u>
2.689	9. President of the United States, John F. Kennedy.
1.750	16. A famous nuclear scientist.
1.665	33. U. S. Secretary of State, Dean Rusk.
1.512	8. U. S. Secretary of Defense, Robert McNamara.
1.289	6. Head of the United States Information Agency, Edward R. Murrow.
1.142	31. Head of the National Committee for Peace and Disarmament.
1.033	1. The Governor of this state.
0.781	20. Head of SANE, national committee to abolish nuclear bomb testing.
0.649	28. Federal Director of Civil Defense.
0.630	34. U Thant, Secretary-General of the United Nations from Burma.
0.457	17. Former Vice-President, Richard M. Nixon.
0.454	37. A pamphlet prepared by the Civil Defense people in the Department of Defense.
0.447	21. Former President, Dwight D. Eisenhower.
0.201	30. Local director of Civil Defense.
-0.198	14. Head of the Committee for World Federation.
-0.225	7. Senator Barry Goldwater.
-0.275	46. Head of the Central Intelligence Agency.
-0.483	39. The principal of the nearby school.
-0.642	29. Local religious leader of my faith.
-0.656	43. The mayor of this city.
-0.701	3. President of Ford Motor Company.
-0.880	12. Head of the American Medical Association.
-1.697	27. National Commander of the American Legion.

**TABLE 17 -- Fallout Shelter and Radiation Type B:  
Array of Civil Defense Topics From Most Want to Learn  
More About to Least Want to Learn More About (excludes  
consensus topics)**

<b><u>S-score</u></b>	<b><u>Statement</u></b>
2.813	35. How Can The World Disarm?
1.955	5. For Those Who Survive--What It Will Be Like After the Blast- The Next Week, The Next Year
1.813	36. World War III Could Be An Accident
1.355	8. Occupation--Peace Marcher: How and Why
1.342	16. And After the A-Blast, There's FIRE
1.118	57. A Doctor's Report on Radiation
1.105	50. City Size, Bomb Size, and Your Chances for Survival
1.064	14. Floods, Fires and Tornadoes Are Jobs For Civil Defense Too
1.025	47. Fallout and How To Get Rid of It
0.932	15. The Most We Can Hope For and the Worst We Can Expect in a Nuclear War
0.918	1. Food Exposed to Radiation Can Be Salvaged
0.668	12. The Blast of Nuclear War: Protection Against a Near-Solid Wall of Air Pressure
0.592	30. In A Shelter or Out of It--What Are the Chances of Survival in a Nuclear Attack
0.588	55. Typhoid--As Deadly A Killer As Fallout in Shelter-Living
0.343	37. Evacuation Techniques in a Nuclear Attack
0.308	49. Psychological and Sociological Problems of Shelter-Living
0.270	3. There Are Ways to Know About Fallout
0.219	56. Is Your Child's School Prepared For Nuclear Attack?
0.212	58. Why You Shouldn't Build A Fallout Shelter
0.199	13. WARNING! NUCLEAR ATTACK - How Much Time Will You Have?
0.169	31. You May Be Your Only Doctor in a Nuclear Attack
-0.066	20. One If By Land, Two If By Sea - America's Nuclear Readiness System
-0.100	46. Tax Credits for Protecting Yourself and Your Family
-0.107	19. So You Think Radiation's Contagious
-0.226	4. No More Children for Nuclear-Age Man
-0.254	2. You ARE Your Community--Know Where to Go in Case of Nuclear Attack
-0.300	7. Why Our Government Wants Us to Build Shelters
-0.457	41. Building a Shelter? Uncle Sam Will Help Foot The Bill
-0.535	40. You and Your Neighbor--How You Can Both Survive
-0.594	17. Will Russian Soldiers Walk Our Main Streets?
-0.788	6. Don't Guess--Ask Your Civil Defense!
-0.890	26. Our High Cost of Living and the Low Cost of Surviving
-0.979	10. How to Contact Your Loved Ones After Nuclear Disaster
-1.071	43. Firearms and Fallout Shelters
-1.253	39. Shelter-Building Supplies Are As Near As Your Phone
-1.253	27. A New Playroom, More Storage Space, and Fallout Protection Too
-1.333	24. A Shelter Blueprint That May Mean Your Survival
-1.428	23. Group Shelter or Family Shelter?
-1.435	9. 3-2-1--NUCLEAR ATTACK! What Do You Do Now?
-1.511	21. My Town and Yours--Pinpoints on Moscow's Attack Map
-1.764	32. Shelter-Living and Keeping in Good Spirits
-1.939	28. Shelter-Building Americans and How They Did it



TABLE 18 -- Fallout Shelter and Radiation Type B:  
Correlations Between the Degree to Which a Subject is of the Type B  
(estimated factor loadings) and Various Demographic and General Civil  
Defense Information Exposure Variables\*\*

Var. No.	Variable	Code	Corre- lation*
11	Sex of subject	0 - female 1 - male	- .125
12	Age of subject	Actual age	+ .121
13	Number of children who still live at home	Actual number of children	+ .001
14	Last grade which was completed in school	Actual last grade completed	+ .256
15	"Do you have a preference for a particular religious faith?"	0 - No, Won't say 1 - Yes	- .040
16	Number of times subject has attended church in last four weeks	Actual number of times	- .157
17	Number of years subject has lived at present address	Actual number of years	+ .033
18	Number of years subject has lived in present city	Actual number of years	+ .080
19	Number of years subject has lived in present state	Actual number of years	+ .126
20	Number of hours of television viewing in past week	Actual number of hours	+ .028
21	Number of hours of radio listened to in past week	Actual number of hours	- .100
22	"Did you look into or read a newspaper yesterday....the day before yesterday?"	0 - No yeses 1 - 1 yes 2 - 2 yeses	+ .027
23	Number of books read in the past month	Actual number of books read	+ .222
24	Number of meetings of organizations attended in the past month	Actual number of meetings	+ .058
25	Subject's estimate of total family income	Actual income estimate	+ .257

TABLE 18 Continued

Var. No.	Variable	Code	Corre- lation*
1	Perceived Change Index: Guttman scale of following questions.....	0-5 - Number of yeses to five scale questions	+ .061
	"Do you feel the world situation has changed in the past few months?"	0 - No, DK 1 - Yes	
	"Has anything happened since your interview last December that has given you any new ideas about civil defense?"		
	"In the past few months, have your feelings about fallout shelters changed in any way?"		
	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIATION) any differently than you did last December?"		
	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"		
2	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"	0 - No, DK 1 - Yes	- .012
3	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIA- TION) any differently than you did last December?"	0 - No, DK 1 - Yes	+ .015
4	"Since the last interview, have you noticed anything in the newspapers about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .072
5	"Have you noticed anything on television about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .147
6	"In the past few months, have you noticed anything in magazines about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .148
7	"In the past few months, have you talked with anyone about civil defense?"	0 - No, DK 1 - Yes	- .071

TABLE 18 Continued

Var. No.	Variable	Code	Corre- lation*
8	"Have you gotten any other information about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .039
9	"Have you gotten a copy of the government's bulletin on 'Fallout Protection.'" (yes, DK, no)	0 - If no 1 - If yes, all no below	- .011
	"If YES: Did you read it?" (yes, yes in part, no)	3 - If yes in part, no below 4 - If yes, no below	
	"If YES or YES IN PART: Did you discuss the bulletin with anyone?"	5 - If yes	
10	"Have you thought about ordering any other civil defense booklets from the government?"	0 - If no 1 - If yes, no below	+ .036
	"If YES: Have you ordered any yet?"	2 - If yes	

\* With an N = 104, a correlation of .193 is significant at the .05 level (two-tailed).

\*\* A matrix of innercorrelations between all pairs of the demographic and exposure variables will be found in the appendix of the summary report (Part A). The variable number refers to each variable's location in this matrix.

TABLE 19 -- Fallout Shelter and Radiation Type C: Array of Fallout Shelter and Radiation Beliefs In Order From Most Accepted to Most Rejected (excludes consensus beliefs)

<u>Z-score</u>	<u>Statement</u>
2.943	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
2.787	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
2.565	53. I think that if all of us prayed for peace there would be nothing to worry about.
1.907	6. We must try harder to prevent war and not give so much attention to fallout shelters.
1.499	52. A person dies when his time is up. There's nothing anyone can do about it.
1.111	33. Any shelter that would provide adequate protection for a family would cost more than \$300.
0.946	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
0.873	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
0.762	54. If a nuclear attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
0.653	5. While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
0.639	15. It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
0.615	4. On this fallout shelter business, I'll do whatever the government thinks is best to do.
0.602	21. In the eyes of God, things like fallout shelters are immoral.
0.552	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
0.538	2. I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
0.385	14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
0.134	8. It would be better for communities to build large public shelters rather than to have each family build one of its own.
0.053	13. Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
0.014	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
-0.041	18. It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
-0.150	1. The government should lend money to communities so community shelters can be built.
-0.188	50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
-0.607	3. I am convinced that my family and I should have a fallout shelter-- either one of our own or a community shelter we could go to.
-0.633	38. I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.

TABLE 19 Continued

<u>z-score</u>	<u>Statement</u>
-0.650	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
-0.680	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
-0.691	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
-0.742	25. If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
-0.776	47. I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-0.777	36. I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
-0.803	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
-0.806	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
-0.835	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
-0.871	35. I worry a lot about whether to build a fallout shelter or not.
-0.933	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who <u>has</u> it.
-0.974	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
-1.050	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
-1.120	39. If I had the money, I'd get a fallout shelter built for my family right away.
-1.191	28. A plastic suit with a filtering mask is good protection against most fallout.
-1.339	55. Even though radiation is invisible, it is simple to detect fallout.
-1.828	26. If you get exposed to radiation at all, you are likely to die.

TABLE 20 -- Fallout Shelter and Radiation Type C: Theme Analysis of Probed Comments  
About Most Accepted and Most Rejected Fallout Shelter and Radiation Statements  
(Based on 17 respondents assigned to type)

<u>Frequency</u>	<u>Theme</u>
4	God, not fallout shelters, will determine whether we live or die.
1	I am just plain fatalistic (not religious).
7	I believe what the Bible says is right.
3	We should pray to build ourselves up to what is to come.
2	I believe in the Good Book.
1	The Bible teaches us that there will always be someone left after a disaster no matter how bad it is, so without shelters there still will be someone left.
1	I don't believe God would use man to destroy his world.
1	I believe in the old time way of Walking With God.
3	More praying will do the job of preventing war.
1	I don't believe God determines whether we live or die. I might die against His will.
2	I don't think God is against shelters on any religious grounds.
2	Prevention of war is more important than protection.
1	Shelters alone will not prevent war.
2	Whether or not we have shelters is irrelevant to Russian war plans.
1	Shelters aren't the answer. It is better to turn our effort toward the UN.
4	Someone is making a hunk of money for himself in all this shelter uproar.
1	The Government should reassure us by telling us shelters aren't necessary.
1	We need more definite, authoritative information.
1	With less talk about shelters, our morale would be improved.
1	We shouldn't talk about war.
1	I have so many problems of my own, I have no time to think about war and shelters.
1	Not everybody died at Hiroshima, and they had no shelters.
1	I don't think we have adequate shelters, and the government must not think so either because no FHA loans have been approved for shelters.
1	I think it was a bad thing for the governor to display a shelter in his home.
2	I think shelters are far too expensive.
1	There is nothing you can do in the aftermath of an attack.
1	Shelters are an individual thing -- I don't want to be forced to have one.
	Community shelters are better than private ones because:
1	They give all a chance.
1	Not all can afford to have a private shelter.
1	They should be available to all.
1	Federalization would prevent profiteering.
1	Private shelters would not be handy.
1	If built, they should be for all.
1	Private shelters are better because a public one would be an admission of defeat by the government.
1	Shelters have two purposes -- tornado and fallout. Tornado shelters should be converted to take care of the second purpose.
1	CD is military defense now.
3	A person might not be near a shelter at attack time.
1	If the family, or a part of it, were away, what good would a family shelter be?
1	A lot of people would be killed trying to get into a shelter.
1	Weather may prevent fallout occurring in my area.
1	We will get fallout.

TABLE 20 Continued

<u>Frequency</u>	<u>Theme</u>
1	The average person wouldn't know how to tell radioactive fallout.
1	People won't be interested unless shelters are free.
1	Shelters might give some protection but I won't build one.
2	Plastic is no good for shelters.
1	Lead is no good for shelters.
1	Germ war is more likely.
1	Removal of dust is not the solution.
1	To be worth it, shelters should have additional uses.
1	Dust can't be filtered adequately.
1	After an attack the outside would be contaminated for a very long time afterwards.
1	I think there just must be a way of living and surviving even if we are exposed.
1	Radiation can spread a very long way.

TABLE 21 -- Fallout Shelter and Radiation Type C: Fallout Shelter and Radiation Beliefs Which Differentiate Type C From Types A, B, and D\*

<u>z-scores</u>				<u>Statement</u>	
C	A	B	D		More Than A, B, and D, C Accepts:
2.943	-1.246	-2.109	-1.582	***45.	My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
2.565	-1.099	-2.683	-1.023	***53.	I think that if all of us prayed for peace there would be nothing to worry about.
1.499	-1.530	-2.113	0.222	***52.	A person dies when his time is up. There's nothing anyone can do about it.
1.133	1.048	0.161	0.790	31.	I'm interested in finding out more about fallout shelters to see whether we really should build one or not.
1.111	0.794	-0.062	-0.299	33.	Any shelter that would provide adequate protection for a family would cost more than \$300.
0.946	-0.605	0.711	-0.315	19.	I don't think I'll build a shelter because there wouldn't be time to get to it.
0.602	-1.577	-2.168	-2.575	***21.	In the eyes of God, things like fallout shelters are immoral.
0.039	-0.398	0.002	-0.233	22.	I won't build a shelter because I don't have any place to put one.
-0.454	-0.650	-0.835	-1.329	34.	I guess that I would build a family shelter, except that most of our friends would think we were crazy if we did.
-0.657	-0.855	-1.207	-0.852	46.	I don't like to talk about war and would rather not read anything about fallout shelters or things like that.
More Than A, B, and D, C Rejects:					
-1.191	-0.117	-0.020	-0.356	**28.	A plastic suit with a filtering mask is good protection against most fallout.
-1.330	0.790	0.054	-0.455	**55.	Even though radiation is invisible, it is simple to detect fallout.
-0.933	0.410	0.093	0.075	**56.	Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who has it.
-0.823	-0.815	-0.454	-0.772	44.	I don't need a fallout shelter. If there is an attack, I'm going to head for the hills or the woods or somewhere away from things.
-0.777	0.193	-0.093	0.918	**36.	I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
-0.680	1.873	-0.543	0.934	12.	I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
-0.633	0.451	0.539	0.923	***38.	I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
-0.629	-0.476	-0.433	-0.059	48.	On this business of fallout shelters, I think I'll wait and see what other people around here do before I decide whether to build one or not.



TABLE 21 Continued

C	<u>z-scores</u>		D		<u>Statement</u>
	A	B			
-0.518	-0.505	-0.104	0.292	20.	I think I'd go crazy if there was a terrible nuclear attack and I had to stay in a shelter for two or three weeks.
-0.193	0.669	0.449	0.008	10.	There are ways of reducing the harmful effects of fallout.
-0.150	0.620	0.142	2.061	1.	The government should lend money to communities so community shelters can be built.
-0.055	0.125	0.160	0.444	23.	Every shelter, in order to protect you from fallout radiation, should have an air tight door.
0.134	0.368	1.083	2.104	8.	It would be better for communities to build large public shelters rather than to have each family build one of its own.

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\* Includes items which one type gave z-scores which were higher or lower than each of the other types. The more discriminating items are marked with asterisks:

\*\* One type placed it at least 0.5 standard deviation higher or lower than each of the other types.

\*\*\* One type placed it at least 1.0 standard deviation higher or lower than each of the other types.

TABLE 22 -- Fallout Shelter and Radiation Type C:  
 Array of Peace and Defense Beliefs From Most Accepted  
 to Most Rejected (excludes consensus beliefs)

<u>Z-score</u>	<u>Statement</u>
1.867	15. We should have the strongest military defense possible and then President Kennedy should take a very firm stand whenever they try to push us.
1.771	36. I think the civil defense people are doing the best job possible to help us prepare, in case we are ever attacked.
1.650	33. We are strong enough today so that no sensible nation would launch an attack against us, knowing that our retaliation would be swift and terrible.
0.786	30. The chances of a thermonuclear attack on the United States are very small, but the consequences of such an attack would be so disastrous that the only smart thing to do is to prepare against it, now.
0.733	17. Frankly, I just don't worry about war or the possibility of a nuclear attack.
0.726	29. If Russia really threatens us, I think we should attack first to take advantage of the surprise.
0.365	31. I just don't believe there will ever be a third world war.
0.332	34. The thing I'm afraid of is that somebody will push the wrong button at the wrong time.
0.331	11. Our leaders should keep talking at the peace and disarmament conferences and in the United Nations. As long as you're talking, you're not shooting.
0.059	19. After a nuclear attack on the United States, life here would be a savage man-to-man struggle for survival.
-0.112	26. We should build the best defenses possible around the borders of our country and <u>stay out</u> of international politics.
-0.242	10. There is no defense against an atomic war. It is foolish to fool ourselves into thinking there is.
-0.477	9. We have not been told the full story on the devastating effects of nuclear war.
-0.625	18. Nuclear war would mean the wiping out of mankind.
-0.804	14. Every day we seem to be getting closer and closer to war with Russia.
-0.903	16. I am almost positive that Russia or some other country will attack the United States with missiles and nuclear bombs within the next 10 years.
-0.978	27. I think Russia and Red China are going to start fighting each other so there is no use our worrying about an attack from Russia.
-1.449	7. The best way to settle this whole thing would be for us to make a surprise nuclear attack on the Russians and get rid of their striking power.

BLE 73 -- Fallout Shelter and Radiation Type C: Array of  
Civil Defense Information Sources From Most Trusted to  
Most Distrusted (excludes consensus sources)

z score:

Statement

2.544	9. President of the United States, John F. Kennedy.
2.189	21. Former President, Dwight D. Eisenhower.
1.646	28. Federal Director of Civil Defense.
1.407	33. U. S. Secretary of State, Dean Rusk.
1.370	17. Former Vice-President, Richard M. Nixon.
1.354	8. U. S. Secretary of Defense, Robert McNamara.
0.849	30. Local Director of Civil Defense.
0.703	7. Senator Barry Goldwater.
0.675	29. Local religious leader of my faith.
0.619	6. Head of the United States Information Agency, Edward R. Murrow
0.394	37. A pamphlet prepared by the Civil Defense people in the Department of Defense.
0.348	16. A famous nuclear scientist.
0.315	14. Head of the Committee for World Federation.
0.098	46. Head of the Central Intelligence Agency.
0.006	34. U Thant, Secretary-General of the United Nations from Burma.
-0.322	12. Head of the American Medical Association.
-0.336	31. Head of the National Committee for Peace and Disarmament.
-0.441	43. The mayor of this city.
-0.791	1. The Governor of this state.
-0.897	27. National Commander of the American Legion.
-0.906	20. Head of SANE, national committee to abolish nuclear bomb testing.
-1.483	3. President of Ford Motor Company.
-1.520	39. The principal of the nearby school.

TABLE 24 --Fallout Shelter and Radiation Type C:  
 Array of Civil Defense Topics From Most Want to Learn  
 More About to Least Want to Learn More About (excludes  
 consensus topics)

<u>z-score</u>	<u>Statement</u>
2.273	1. Food Exposed to Radiation Can Be Salvaged
1.958	35. How Can The World Disarm?
1.894	30. In A Shelter or Out of It--What Are the Chances of Survival in a Nuclear Attack.
1.654	10. How to Contact Your Loved Ones After Nuclear Disaster.
1.171	40. You and Your Neighbor--How You Can Both Survive
0.996	5. For Those Who Survive--What It Will Be Like After The Blast--The Next Week, The Next Year
0.893	26. Our High Cost of Living and the Low Cost of Surviving
0.880	41. Building a Shelter? Uncle Sam Will Help Foot The Bill
0.862	3. There Are Ways to Know About Fallout
0.593	13. WARNING! NUCLEAR ATTACK - How Much Time Will You Have?
0.592	27. A New Playroom, More Storage Space, and Fallout Protection Too
Q.531	7. Why Our Government Wants Us to Build Shelters
0.407	14. Floods, Fires and Tornadoes Are Jobs For Civil Defense Too
0.375	55. Typhoid--As Deadly A Killer As Fallout in Shelter-Living
0.353	32. Shelter-Living and Keeping in Good Spirits
0.292	31. You May Be Your Only Doctor in a Nuclear Attack
0.285	20. One If By Land, Two If By Sea - America's Nuclear Readiness System
0.246	23. Group Shelter or Family Shelter?
0.167	46. Tax Credits for Protecting Yourself and Your Family
0.126	6. Don't Guess--Ask Your Civil Defense!
0.125	8. Occupation--Peace-Marcher: How and Why
0.106	12. The Blast of Nuclear War: Protection Against a Near-Solid Wall of Air Pressure
0.091	15. The Most We Can Hope For and the Worst We Can Expect in a Nuclear War
0.025	24. A Shelter Blueprint That May Mean Your Survival
-0.036	39. Shelter-Building Supplies Are As Near As Your Phone
-0.197	47. Fallout and How To Get Rid of It
-0.295	37. Evacuation Techniques in a Nuclear Attack
-0.297	19. So You Think Radiation's Contagious
-0.390	57. A Doctor's Report on Radiation
-0.421	2. You ARE Your Community--Know Where to Go In Case of Nuclear Attack
-0.423	9. 3-2-1--NUCLEAR ATTACK! What Do You Do Now?
-0.438	28. Shelter-Building Americans and How They Did It
-0.461	4. No More Children for Nuclear-Age Man
-0.585	16. And After the A-Blast, There's FIRE
-0.953	43. Firearms and Fallout Shelters
-1.056	36. World War III Could Be An Accident
-1.119	21. My Town and Yours--Pinpoints on Moscow's Attack Map
-1.139	50. City Size, Bomb Size, and Your Chances for Survival
-1.689	56. Is Your Child's School Prepared For Nuclear Attack?
-1.884	17. Will Russian Soldiers Walk Our Main Streets?
-2.241	49. Psychological and Sociological Problems of Shelter-Living
-2.950	58. Why You Shouldn't Build A Fallout Shelter

TABLE 25 -- Fallout Shelter and Radiation Type C:  
Correlations Between the Degree to Which a Subject is of the Type C  
(estimated factor loadings) and Various Demographic and General Civil  
Defense Information Exposure Variables\*\*

Var. No.	Variable	Code	Corre- lation*
11	Sex of subject	0 - female 1 - male	- .124
12	Age of subject	Actual age	+ .112
13	Number of children who still live at home	Actual number of children	+ .021
14	Last grade which was completed in school	Actual last grade completed	- .049
15	"Do you have a preference for a particular religious faith?"	0 - No, Won't say 1 - Yes	+ .241
16	Number of times subject has attended church in last four weeks	Actual number of times	+ .296
17	Number of years subject has lived at present address	Actual number of years	- .013
18	Number of years subject has lived in, present city	Actual number of years	- .022
19	Number of years subject has lived in present state	Actual number of years	- .012
20	Number of hours of television viewing in past week	Actual number of hours	+ .087
21	Number of hours of radio listened to in past week	Actual number of hours	- .053
22	"Did you look into or read a newspaper yesterday....the day before yesterday?"	0 - No yeses 1 - 1 yes 2 - 2 yeses	- .064
23	Number of books read in the past month	Actual number of books read	- .080
24	Number of meetings of organizations attended in the past month	Actual number of meetings	+ .021
25	Subject's estimate of total family income	Actual income estimate	- .118

TABLE 25 Continued

Var. No.	Variable	Code	Corre- lation*
1	Perceived Change Index: Guttman scale of following questions.....	0-5 - Number of yeses to five scale questions	- .069
	"Do you feel the world situation has changed in the past few months?"	0 - No, DK 1 - Yes	
	"Has anything happened since your interview last December that has given you any new ideas about civil defense?"		
	"In the past few months, have your feelings about fallout shelters changed in any way?"		
	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIATION) any differently than you did last December?"		
	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"		
2	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"	0 - No, DK 1 - Yes	+ .150
3	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIA- TION) any differently than you did last December?"	0 - No, DK 1 - Yes	- .099
4	"Since the last interview, have you noticed anything in the newspapers about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .040
5	"Have you noticed anything on television about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .170
6	"In the past few months, have you noticed anything in magazines about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .064
7	"In the past few months, have you talked with anyone about civil defense?"	0 - No, DK 1 - Yes	+ .045

TABLE 25 Continued

Var. No.	Variable	Code	Corre- lation*
8	"Have you gotten any other information about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .081
9	"Have you gotten a copy of the government's bulletin on 'Fallout Protection.'" (yes, DK, no)	0 - If no 1 - If yes, all no below	- .205
	"If YES: Did you read it?" (yes, yes in part, no)	3 - If yes in part, no below 4 - If yes, no below	
	"If YES or YES IN PART: Did you discuss the bulletin with anyone?"	5 - If yes	
10	"Have you thought about ordering any other civil defense booklets from the government?"	0 - If no 1 - If yes, no below	- .035
	"If YES: Have you ordered any yet?"	2 - If yes	

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\* With an N = 104, a correlation of .193 is significant at the .05 level (two-tailed).

\*\* A matrix of innercorrelations between all pairs of the demographic and exposure variables will be found in the appendix of the summary report (Part A). The variable number refers to each variable's location in this matrix.

TABLE 26 -- Fallout Shelter and Radiation Type D: Array of Fallout Shelter and Radiation Beliefs In Order From Most Accepted to Most Rejected (excludes consensus beliefs)

<u>z-score</u>	<u>Statement</u>
2.276	4. On this fallout shelter business, I'll do whatever the government thinks is best to do.
2.104	8. It would be better for communities to build large public shelters rather than to have each family build one of its own.
2.061	1. The government should lend money to communities so community shelters can be built.
1.783	15. It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
1.638	3. I am convinced that my family and I should have a fallout shelter-- either one of our own or a community shelter we could go to.
1.427	14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
1.348	2. I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
0.934	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
0.928	38. I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
0.918	36. I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
0.746	6. We must try harder to prevent war and not give so much attention to shelters.
0.716	13. Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
0.587	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
0.470	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
0.264	54. If a nuclear attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
0.231	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
0.222	52. A person dies when his time is up. There's nothing anyone can do about it.
0.076	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who <u>has</u> it.
-0.010	5. While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
-0.125	50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.
-0.126	47. I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-0.243	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.



TABLE 28 Continued

<u>z-score</u>	<u>Statement</u>
-0.299	33. Any shelter that would provide adequate protection for a family would cost more than \$300.
-0.315	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
-0.356	28. A plastic suit with a filtering mask is good protection against most fallout.
-0.451	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
-0.455	55. Even though radiation is invisible, it is simple to detect fallout.
-0.459	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
-0.544	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
-0.553	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
-0.848	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
-0.863	39. If I had the money, I'd get a fallout shelter built for my family right away.
-0.866	25. If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
-0.960	8. It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
-1.023	53. I think that if all of us prayed for peace there would be nothing to worry about.
-1.154	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
-1.201	26. If you get exposed to radiation at all, you are likely to die.
-1.328	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
-1.507	35. I worry a lot about whether to build a fallout shelter or not.
-1.582	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-2.575	21. In the eyes of God, things like fallout shelters are immoral.

TABLE 27 -- Fallout Shelter and Radiation Type D: Theme Analysis of Probed Comments  
About Most Accepted and Most Rejected Fallout Shelter and Radiation Statements  
(Based on 18 respondents assigned to type)

<u>Frequency</u>	<u>Theme</u>
6	If the government knows anything, it should tell the people.
2	I have confidence in my government and am sure that when the time comes, it will let us know to build shelters.
1	If it is necessary, the government should start building them.
3	National defense is the government's responsibility, so it is its duty to build shelters.
1	Our leaders don't set an example by building their own shelters, so why should I?
3	I need more information; though I am interested enough to want more information, I haven't got it.
1	I think the government should look at European CD plans to improve our planning.
1	We need a concrete recommendation from (non-government) authorities.
1	Shelters are necessary.
1	If we need shelters anywhere, we need them here.
1	We don't need shelters here.
1	Shelters will be needed all over the United States, almost without exception.
1	If bombed, shelters won't be worth a damn, but....
1	There would be no safety from fallout by going to the hills.
2	Fallout is not a permanent danger. Look at the Japanese cities.
1	In the event of attack, pockets of people would survive.
1	There is not much we can do in the event of an attack.
1	I am a former air raid warden and favor the idea.
1	Worrying about things never helped anyone.
1	In the past we didn't need this sort of thing, so why now?
2	We won't ever need such things.
1	We must be ready for war.
4	We should try to prevent war but also try to be prepared for it.
2	Shelters are not a preventive of war. It is irrelevant to the Russians whether we have them.
1	They would be a sign we are scared.
1	Shelters are like insurance -- you figure the odds and decide whether to buy.
1	An ounce of prevention is worth a pound of cure.
1	Prayers are not enough.
1	God gave us the brains to try to protect ourselves.
1	Man's history is one of protection against threatening elements. I see nothing wrong with shelters.
2	God wants us to try to live as long as we can.
1	It is man's nature to try to live as long as he can.
1	When it is time to go, it is time to go and nothing can be done to prevent it.
1	When God decides it is time for my life to end, it will end. My fate is in the hands of God and nothing else.
3	If shelters are necessary, they should be community ones.
2	Shelters should be community shelters.
1	The government should lend the money for community shelters.
1	Because the family would be scattered, most likely, family shelters are not as good as community ones.
2	Metropolitan areas are no place for family shelters.

TABLE 27 Continued

<u>Frequency</u>	<u>Theme</u>
1	In cities, there are too many poor people who can't afford family shelters.
2	With large numbers in a shelter, the chances of people cracking up under the strain of waiting are less than with small shelters.
2	More people would be protected by community than private shelters.
1	Schools should have community shelters in them.
4	Cost per capita of community shelters is lower than for family ones.
1	Upon leaving, the shelter, people would have a better chance in a group than if they left from family shelters.
2	Private shelters are too expensive.
2	Either private or public shelters are too expensive.
1	Community shelters should go into already existing public buildings.
4	Community shelters could be put under freeway exit ramps.
1	There is no place to put even a community shelter.
1	On humanitarian grounds, it would be hard to keep neighbors out of my shelter.
1	My family would come first before my neighbors.
1	I don't worry about my neighbors' opinions.
1	I would get claustrophobia in a shelter.
1	Fallout is hard to filter.
2	Fallout is hard to detect. You need special equipment.
1	A germ attack is more likely than a nuclear one.

TABLE 28 -- Fallout Shelter and Radiation Type D: Fallout Shelter and Radiation Beliefs Which Differentiate Type D From Types A, B, and C\*

<u>z-scores</u>				<u>Statement</u>	
D	A	B	C	More Than A, B, and C, D Accepts:	
2.276	0.851	-0.103	0.615 ***	4.	On this fallout shelter business, I'll do whatever the government thinks is best to do.
2.104	0.368	1.083	0.134 **	8.	It would be better for communities to build large public shelters rather than to have each family build one of its own.
2.061	0.620	0.142	-0.150 ***	1.	The government should lend money to communities so community shelters can be built.
1.783	0.452	0.825	0.639 **	15.	It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
1.638	1.314	-0.645	-0.607	3.	I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
1.495	0.519	1.298	0.702	42.	There seems to be an awful lot of confusion about the need for fallout shelters. The leaders in government don't seem to be able to make up their own minds on whether we ought to build them or not.
1.427	-0.638	-0.079	0.385 ***	14.	It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
1.348	0.955	-0.073	0.538	2.	I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
0.928	0.451	0.539	-0.633	38.	I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
0.918	0.193	-0.093	-0.777 **	36.	I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
0.475	0.280	-0.158	0.282	11.	Most fallout rapidly loses its power to harm.
0.444	0.125	0.160	-0.055	23.	Every shelter, in order to protect you from fallout radiation, should have an air tight door.
0.292	-0.505	-0.104	-0.518	20.	I think I'd go crazy if there was a terrible nuclear attack and I had to stay in a shelter for two or three weeks.
-0.069	-0.476	-0.433	-0.629	48.	On this business of fallout shelters, I think I'll wait and see what other people around here do before I decide whether to build one or not.
-0.126	-1.530	-0.574	-0.776	47.	I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
-0.578	-1.117	-1.049	-0.702	41.	I have so many problems of my own, I can't spend my time worrying about the Russians and fallout shelters.

TABLE 28 Continued

<u>z-scores</u>				<u>Statement</u>	
D	A	B	C	More Than A, B, and C, D Rejects:	
-2.575	-1.577	-2.168	0.602	21.	In the eyes of God, things like fallout shelters are immoral.
-1.507	-0.071	-1.078	-0.871	35.	I worry a lot about whether to build a fallout shelter or not.
-1.329	-0.650	-0.835	-0.454	34.	I guess that I would build a family shelter, except that most of our friends would think we were crazy if we did.
-1.328	0.139	1.190	-0.974	24.	The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
-1.154	0.584	-0.587	-0.806	9.	After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
-0.960	0.040	0.758	-0.041	**18.	It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
-0.866	0.175	0.160	-0.742	25.	If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
-0.587	-0.584	-0.489	-0.503	43.	If I had a shelter in my basement, it would just make me worry all the more about the danger of war.
-0.299	0.794	-0.052	1.111	33.	Any shelter that would provide adequate protection for a family would cost more than \$300.
-0.010	1.301	1.450	0.653	** 5.	While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
0.055	0.515	1.011	0.435	27.	People, food, water and other things become radioactive if they are exposed to fallout radiation and should be avoided by those who have not been exposed.
0.264	1.611	0.759	0.762	54.	If a nuclear attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
0.470	2.914	1.331	2.787	**57.	We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.

\* Includes items which one type gave z-scores which were higher or lower than each of the other types. The more discriminating items are marked with asterisks:

\* One type placed it at least 0.5 standard deviation higher or lower than each of the other types.

\*\* One type placed it at least 1.0 standard deviation higher or lower than each of the other types.

TABLE 29 -- Fallout Shelter and Radiation Type D:  
 Array of Peace and Defense Beliefs From Most Accepted to  
 Most Rejected (excludes consensus beliefs)

<u>z-score</u>	<u>Statement</u>
1.829	15. We should have the strongest military defense possible and then President Kennedy should take a very firm stand whenever they try to push us.
1.695	34. The thing I'm afraid of is that somebody will push the wrong button at the wrong time.
1.217	30. The chances of a thermonuclear attack on the United States are very small, but the consequences of such an attack would be so disastrous that the only smart thing to do is to prepare against it, now.
1.129	33. We are strong enough today so that no sensible nation would launch an attack against us, knowing that our retaliation would be swift and terrible.
0.866	9. We have not been told the full story on the devastating effects of nuclear war.
0.684	27. I think Russia and Red China are going to start fighting each other so there is no use our worrying about an attack from Russia.
0.031	16. I am almost positive that Russia or some other country will attack the United States with missiles and nuclear bombs within the next 10 years.
0.009	11. Our leaders should keep talking at the peace and disarmament conferences and in the United Nations. As long as you're talking, you're not shooting.
-0.120	26. We should build the best defenses possible around the borders of our country and <u>stay out</u> of international politics.
-0.127	14. Every day we seem to be getting closer and closer to war with Russia.
-0.207	19. After a nuclear attack on the United States, life here would be a savage man-to-man struggle for survival.
-0.247	7. The best way to settle this whole thing would be for us to make a surprise nuclear attack on the Russians and get rid of their striking power.
-0.249	29. If Russia really threatens us, I think we should attack first to take advantage of the surprise.
-0.323	31. I just don't believe there will ever be a third world war.
-0.590	36. I think the civil defense people are doing the best job possible to help us prepare, in case we are ever attacked.
-0.614	17. Frankly, I just don't worry about war or the possibility of a nuclear attack.
-0.849	10. There is no defense against an atomic war. It is foolish to fool ourselves into thinking there is.
-1.087	18. Nuclear war would mean the wiping out of mankind.

TABLE 30 -- Fallout Shelter and Radiation Type D: Array of Civil Defense Information Sources From Most Trusted to Most Distrusted (excludes consensus sources)

<u>z-score.</u>	<u>Statement</u>
2.030	28. Federal Director of Civil Defense.
2.016	16. A famous nuclear scientist.
1.893	37. A pamphlet prepared by the Civil Defense people in the Department of Defense.
1.705	12. Head of the American Medical Association.
1.337	9. President of the United States, John F. Kennedy.
1.088	30. Local Director of Civil Defense.
0.663	46. Head of the Central Intelligence Agency.
0.625	33. U. S. Secretary of State, Dean Rusk.
0.346	43. The mayor of this city.
0.205	8. U. S. Secretary of Defense, Robert McNamara.
0.167	29. Local religious leader of my faith.
0.061	21. Former President, Dwight D. Eisenhower.
0.015	31. Head of the National Committee for Peace and Disarmament.
-0.073	39. The principal of the nearby school.
-0.077	1. The Governor of this state.
-0.155	20. Head of SANE, national committee to abolish nuclear bomb testing.
-0.231	6. Head of the United States Information Agency, Edward R. Murrow.
-0.377	17. Former Vice-President, Richard M. Nixon.
-0.527	27. National Commander of the American Legion.
-0.558	14. Head of the Committee for World Federation.
-0.598	7. Senator Barry Goldwater.
-0.633	34. U. Thant, Secretary-General of the United Nations from Burma.
-1.761	3. President of Ford Motor Company.

TABLE 31 -- Fallout Shelter and Radiation Type D:  
 Array of Civil Defense Topics From Most Want to Learn  
 More About to Least Want to Learn More About (excludes  
 consensus topics)

<u>Z-score</u>	<u>Statement</u>
2.184	5. For Those Who Survive--What It Will Be Like After the Blast-- The Next Week, The Next Year
1.777	13. WARNING! NUCLEAR ATTACK - How Much Time Will You Have.
1.365	37. Evacuation Techniques in a Nuclear Attack
1.303	31. You May Be Your Only Doctor in a Nuclear Attack
1.231	2. You ARE Your Community--Know Where to Go In Case of Nuclear Attack
1.129	41. Building a Shelter? Uncle Sam Will Help Foot The Bill
1.103	15. The Most We Can Hope For and the Worst We Can Expect in a Nuclear War
1.067	9. 3-2-1--NUCLEAR ATTACK! What Do You Do Now?
1.054	6. Don't Guess--Ask Your Civil Defense!
0.920	10. How to Contact Your Loved Ones After Nuclear Disaster
0.939	30. In A Shelter or Out of It--What Are the Chances of Survival In A Nuclear Attack
0.914	7. Why Our Government Wants Us to Build Shelters
0.896	40. You and Your Neighbor--How You Can Both Survive
0.798	32. Shelter-Living and Keeping in Good Spirits
0.595	14. Floods, Fires and Tornadoes Are Jobs For Civil Defense Too
0.468	20. One If By Land, Two If By Sea - America's Nuclear Readiness System
0.468	23. Group Shelter or Family Shelter?
0.455	47. Fallout and How To Get Rid of It
0.391	56. Is Your Child's School Prepared For Nuclear Attack?
0.351	26. Our High Cost of Living and the Low Cost of Surviving
0.350	36. World War III Could Be An Accident
0.160	3. There Are Ways to Know About Fallout
0.151	28. Shelter-Building Americans and How They Did It
0.094	35. How Can The World Disarm?
-0.006	21. My Town and Yours--Pinpoints on Moscow's Attack Map
-0.015	24. A Shelter Blueprint That May Mean Your Survival
-0.016	43. Firearms and Fallout Shelters
-0.027	1. Food Exposed to Radiation Can Be Salvaged
-0.052	50. City Size, Bomb Size, and Your Chances for Survival
-0.499	12. The Blast of Nuclear War: Protection Against a Near-Solid Wall of Air Pressure
-0.511	49. Psychological and Sociological Problems of Shelter-Living
-0.639	57. A Doctor's Report on Radiation
-0.640	16. And After the A-Blast, There's FIRE
-0.724	27. A New Playroom, More Storage Space, and Fallout Protection, Too
-1.017	55. Typhoid--As Deadly A Killer As Fallout in Shelter-Living
-1.122	39. Shelter-Building Supplies Are As Near As Your Phone
-1.371	46. Tax Credits For Protecting Yourself and Your Family
-1.515	4. No More Children For Nuclear-Age Man
-1.961	8. Occupation--Peace-Marcher: How and Why
-2.050	17. Will Russian Soldiers Walk Our Main Streets?
-2.101	19. So You Think Radiation's Contagious
-2.362	58. Why You Shouldn't Build A Fallout Shelter



TABLE 32 -- Fallout Shelter and Radiation Type D:  
Correlations Between the Degree to Which a Subject is of the Type D  
(estimated factor loadings) and Various Demographic and General Civil  
Defense Information Exposure Variables\*\*

<u>Var. No.</u>	<u>Variable</u>	<u>Code</u>	<u>Corre- lation*</u>
11	Sex of subject	0 - female 1 - male	+ .012
12	Age of subject	Actual age	+ .028
13	Number of children who still live at home	Actual number of children	+ .022
14	Last grade which was completed in school	Actual last grade completed	+ .044
15	"Do you have a preference for a particular religious faith?"	0 - No, Won't say 1 - Yes	+ .038
16	Number of times subject has attended church in last four weeks	Actual number of times	- .169
17	Number of years subject has lived at present address	Actual number of years	+ .124
18	Number of years subject has lived in present city	Actual number of years	+ .178
19	Number of years subject has lived in present state	Actual number of years	+ .080
20	Number of hours of television viewing in past week	Actual number of hours	+ .192
21	Number of hours of radio listened to in past week	Actual number of hours	- .160
22	"Did you look into or read a newspaper yesterday....the day before yesterday?"	0 - No yeses 1 - 1 yes 2 - 2 yeses	- .024
23	Number of books read in the past month	Actual number of books read	.000
24	Number of meetings of organizations attended in the past month	Actual number of meetings	+ .127
25	Subject's estimate of total family income	Actual income estimate	+ .039

TABLE 32 Continued

Var. No.	Variable	Code	Corre- lation*
1	Perceived Change Index: Guttman scale of following questions.....	0-5 - Number of yeses to five scale questions	+ .146
	"Do you feel the world situation has changed in the past few months?"	0 - No, DK 1 - Yes	
	"Has anything happened since your interview last December that has given you any new ideas about civil defense?"		
	"In the past few months, have your feelings about fallout shelters changed in any way?"		
	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIATION) any differently than you did last December?"		
	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"		
2	"As best you can remember, did you sort these cards (PEACE AND DEFENSE) any differently than you did last December?"	0 - No, DK 1 - Yes	- .031
3	"As best you can remember, did you sort these cards (FALLOUT SHELTER AND RADIA- TION) any differently than you did last December?"	0 - No, DK 1 - Yes	- .055
4	"Since the last interview, have you noticed anything in the newspapers about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .021
5	"Have you noticed anything on television about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	+ .081
6	"In the past few months, have you noticed anything in magazines about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .180
7	"In the past few months, have you talked with anyone about civil defense?"	0 - No, DK 1 - Yes	+ .115

TABLE 32 Continued

<u>Var. No.</u>	<u>Variable</u>	<u>Code</u>	<u>Corre- lation*</u>
8	"Have you gotten any other information about civil defense or fallout shelters?"	0 - No, DK 1 - Yes	- .045
9	"Have you gotten a copy of the government's bulletin on 'Fallout Protection.'" (yes, DK, no)	0 - If no 1 - If yes, all no below	- .124
	"If YES: Did you read it?" (yes, yes in part, no)	3 - If yes in part, no below 4 - If yes, no below	
	"If YES or YES IN PART: Did you discuss the bulletin with anyone?"	5 - If yes	
10	"Have you thought about ordering any other civil defense booklets from the government?"	0 - If no 1 - If yes, no below	+ .047
	"If YES: Have you ordered any yet?"	2 - If yes	

\* With an N = 104, a correlation of .193 is significant at the .05 level (two-tailed).

\*\* A matrix of innercorrelations between all pairs of the demographic and exposure variables will be found in the appendix of the summary report (Part A). The variable number refers to each variable's location in this matrix.

**TABLE 33 -- Intercorrelations Between the Arrays of Fallout Shelter  
and Radiation Beliefs of the Four Fallout Shelter  
and Radiation Types**

	TYPE A	TYPE B	TYPE C	TYPE D
TYPE A	---	.30	.17	.50
TYPE B	.30	---	.00	.35
TYPE C	.17	.00	---	.18
TYPE D	.50	.35	.18	---

TABLE 34 -- Intercorrelations Between the Arrays of Peace and Defense Beliefs of the Four Fallout Shelter and Radiation Types

	TYPE A	TYPE B	TYPE C	TYPE D
TYPE A	---	.69	.76	.82
TYPE B	.69	---	.62	.70
TYPE C	.76	.62	---	.69
TYPE D	.82	.70	.69	---

**TABLE 35 -- Intercorrelations between the Arrays of Civil Defense  
Information Sources for the Four Fallout Shelter  
and Radiation Types**

	TYPE A	TYPE B	TYPE C	TYPE D
TYPE A	---	.73	.81	.85
TYPE B	.73	---	.72	.61
TYPE C	.81	.72	---	.65
TYPE D	.84	.61	.65	---

TABLE 36 -- Intercorrelations Between the Arrays of Civil Defense  
Information Topics for the Four Fallout Shelter  
and Radiation Types

	TYPE A	TYPE B	TYPE C	TYPE D
TYPE A	---	.24	.38	.76
TYPE B	.24	---	.23	.10
TYPE C	.38	.23	---	.48
TYPE D	.76	.10	.48	---

TABLE 37 -- Fallout Shelter and Radiation Types A and B: Fallout Shelter and Radiation Beliefs Which Differentiate Type A From Type B\*

A	<u>z-scores</u> B	A - B	<u>Statement</u>
More Than Type B, Type A Accepts:			
1.873	-0.543	2.416	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
0.725	-1.348	2.072	39. If I had the money, I'd get a fallout shelter built for my family right away.
1.314	-0.645	1.959	3. I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
2.299	0.463	1.837	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
0.994	-0.707	1.701	13. Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
-1.099	-2.683	1.583	53. I think that if all of us prayed for peace there would be nothing to worry about.
2.914	1.331	1.583	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
0.045	-1.172	1.217	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
0.584	-0.587	1.171	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
0.955	-0.073	1.028	2. I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.
-0.071	-1.078	1.008	35. I worry a lot about whether to build a fallout shelter or not.
More Than Type B, Type A Rejects:			
-0.850	2.442	-3.291	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
-1.731	1.246	-2.077	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
-0.139	2.239	-2.377	6. We must try harder to prevent war and not give so much attention to shelters.
-1.798	0.397	-2.195	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
-1.034	0.320	-1.353	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
-1.041	0.296	-1.337	49. I wouldn't use a fallout shelter in case of attack. So many of my friends would be dead that it wouldn't be worth living anyway.
-0.606	0.711	-1.317	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
0.139	1.190	-1.051	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.



TABLE 37 Continued

A	<u>z-scores</u> B	A - B	<u>Statement</u>
-0.259	0.777	-1.036	7. I don't want to have the only shelter around here. I just couldn't face keeping my neighbors out of my shelter in case of attack.
-0.893	0.117	-1.010	50. There is no real protection against radioactive fallout -- not even a concrete shelter. The stuff is like a gas that can get at you wherever you are.

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\* Includes items which are type placed at least 1 standard deviation higher or lower than the other type.

TABLE 38 -- Fallout Shelter and Radiation Types A and C: Fallout Shelter and Radiation Beliefs Which Differentiate Type A From Type C\*

A	<u>z-scores</u> C	A - C	<u>Statement</u>
More Than Type C, Type A Accepts:			
1.873	-0.680	2.553	12. I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
0.790	-1.339	2.130	55. Even though radiation is <u>invisible</u> , it is simple to detect fallout.
1.314	-0.507	1.921	3. I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
0.725	-1.120	1.844	39. If I had the money, I'd get a fallout shelter built for my family right away.
2.299	0.873	1.427	32. I think everyone should find out as much as he can about fallout shelters and other civil defense matters so that he can be prepared in case of attack.
0.584	-0.806	1.390	9. After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
0.410	-0.933	1.343	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who has it.
0.139	-0.974	1.113	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
-0.715	-1.828	1.113	26. If you get exposed to radiation at all, you are likely to die.
0.045	-1.060	1.095	30. I think if everybody in the U.S. had a fallout shelter, the Russians would be less likely to start a war against us.
0.451	-0.633	1.085	38. I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
-0.117	-1.191	1.075	28. A plastic suit with a filtering <u>mask</u> is good protection against most fallout.
More Than Type C, Type A Rejects:			
-1.246	2.943	-4.189	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-1.099	2.565	-3.665	53. I think that if all of us prayed for peace there would be nothing to worry about.
-1.530	1.499	-3.028	52. A person dies when his time is up. There's nothing anyone can do about it.
-1.577	0.602	-2.180	21. In the eyes of God, things like fallout shelters are immoral.
-0.139	1.907	-2.046	6. We must try harder to prevent war and not give so much attention to shelters.
-0.605	0.946	-1.551	19. I don't think I'll build a shelter because there wouldn't be time to get to it.
-0.638	0.385	-1.023	14. It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.

\* Includes items which one type placed at least 1 standard deviation higher or lower than the other type.

TABLE 39 -- Fallout Shelter and Radiation Types A and D: Fallout Shelter and Radiation Beliefs Which Differentiate Type A From Type D\*

A	<u>z-scores</u> D	A - D	<u>Statement</u>	
More Than Type D, Type A Accepts:				
2.914	0.470	2.444	57.	We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
0.584	-1.154	1.737	9.	After a nuclear attack, if you filter the dust out of the air, the air will be perfectly safe to breathe.
2.299	0.587	1.712	32.	I think everyone should find out as much as he can about fallout shelters and other civil defense matters, so that he can be prepared in case of attack.
0.725	-0.863	1.588	39.	If I had the money, I'd get a fallout shelter built for my family right away.
0.139	-1.328	1.466	24.	The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
-0.071	-1.507	1.436	35.	I worry a lot about whether to build a fallout shelter or not.
1.611	0.264	1.347	54.	If a nuclear attack comes, our area here will probably get a heavy dose of fallout radioactive materials.
1.301	-0.010	1.311	5.	While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
0.790	-0.455	1.245	55.	Even though radiation is invisible, it is simple to detect fallout.
0.794	-0.299	1.093	33.	Any shelter that would provide adequate protection for a family would cost more than \$300.
0.175	-0.866	1.041	25.	If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
0.040	-0.960	1.000	18.	It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
More Than Type D, Type A Rejects:				
-0.638	1.427	-2.065	14.	It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-1.530	0.222	-1.752	52.	A person dies when his time is up. There's nothing anyone can do about it.
0.368	2.104	-1.736	8.	It would be better for communities to build large public shelters rather than to have each family build one of its own.
0.620	2.061	-1.441	1.	The government should lend money to communities so community shelters can be built.
0.851	2.270	-1.426	4.	On this fallout shelter business, I'll do whatever the government thinks is best to do.
-1.530	-0.126	-1.404	47.	I suppose they need fallout shelters in some parts of the U.S., but we don't really need them around here.
0.452	1.783	-1.331	15.	It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
-1.798	-0.553	-1.245	17.	I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.

\* Includes items which one type placed at least 1 standard deviation higher or lower than the other type.

TABLE 40 -- Fallout Shelter and Radiation Types B and C: Fallout Shelter and Radiation Beliefs Which Differentiate Type B From Type C\*

B	<u>s-scores</u> C	B - C	<u>Statement</u>
More Than Type C, Type B Accepts:			
2.442	0.014	2.428	16. Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
1.190	-0.974	2.164	24. The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
1.246	-0.803	2.049	51. I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
0.058	-1.828	1.886	26. If you get exposed to radiation at all, you are likely to die.
0.054	-1.339	1.393	55. Even though radiation is invisible, it is simple to detect fallout.
0.397	-0.835	1.231	17. I don't see what all this fallout shelter fuss is about. I think it's just a lot of nonsense.
-0.020	-1.191	1.172	28. A plastic suit with a filtering mask is good protection against most fallout.
0.539	-0.633	1.172	38. I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
0.093	-0.983	1.026	56. Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who has it.
0.320	-0.691	1.011	40. What's the use of trying to save my life in a fallout shelter. Our country will be in such a mess after the attack, it just won't be worth living.
More Than Type C, Type B Rejects:			
-2.683	2.565	-5.248	53. I think that if all of us prayed for peace there would be nothing to worry about.
-0.543	2.943	-5.052	45. My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
-2.113	1.499	-3.612	52. A person dies when his time is up. There's nothing anyone can do about it.
-2.168	0.602	-2.770	21. In the eyes of God, things like fallout shelters are immoral.
1.831	2.787	-1.456	57. We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
-0.062	1.111	-1.173	33. Any shelter that would provide adequate protection for a family would cost more than \$300.

\* Includes items which one type placed at least 1 standard deviation higher or lower than the other type.

TABLE 41 -- Fallout Shelter and Radiation Types B and D: Fallout Shelter and Radiation Beliefs Which Differentiate Type B From Type D\*

B	z-scores		Statement	
	D	B - D		
				More Than Type D, Type B Accepts:
2.442	-0.544	2.986	16.	Fallout shelters just won't do the job. All shelters do is make people think they are safe when they really aren't.
1.190	-1.328	2.518	24.	The radioactivity after an attack would make the earth, or some areas of it, impossible to live in for years or even centuries.
1.246	-0.848	2.094	51.	I don't think there is really anything an ordinary citizen like me can do to protect himself in case of a nuclear war.
0.756	-0.960	1.717	18.	It seems to me that the Russians are more likely to use germ warfare than they are to attack us with nuclear weapons.
2.239	0.746	1.492	6.	We must try harder to prevent war and not give so much attention to shelters.
1.450	-0.010	1.460	5.	While blast and heat damage from a nuclear explosion is limited to several miles around the point where it explodes, fallout from it may cover thousands of square miles.
0.058	-1.201	1.259	26.	If you get exposed to radiation at all, you are likely to die.
0.711	-0.315	1.026	19.	I don't think I'll build a shelter because there wouldn't be time to get to it.
0.160	-0.866	1.026	25.	If we are attacked, great storms developed by the nuclear explosions will sweep across our country.
				More Than Type D, Type B Rejects:
-0.103	2.276	-2.379	4.	On this fallout shelter business, I'll do whatever the government thinks is best to do.
-2.113	0.222	-2.336	52.	A person dies when his time is up. There's nothing anyone can do about it.
-0.645	1.638	-2.283	3.	I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
0.142	2.061	-1.919	1.	The government should lend money to communities so community shelters can be built.
-2.683	-1.023	-1.659	53.	I think that if all of us prayed for peace there would be nothing to worry about.
-0.079	1.427	-1.506	14.	It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-0.543	0.934	-1.477	12.	I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
-0.707	0.716	-1.424	13.	Everyone in this country should have a fallout shelter he can get into if and when we are attacked.
-0.073	1.343	-1.421	2.	I wouldn't mind so much building a family shelter or helping to build a community shelter, if the thing was designed to serve peacetime purposes as well.

TABLE 41 Continued

B	<u>z-scores</u>		<u>Statement</u>
	D	B - D	
1.083	2.104	-1.021	8. It would be better for communities to build large public shelters rather than to have each family build one of its own.
-0.093	0.918	-1.011	36. I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.

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\* Includes items which one type placed at least 1 standard deviation higher or lower than the other type.

TABLE 42 -- Fallout Shelter and Radiation Types C and D: Fallout Shelter and Radiation Beliefs Which Differentiate Type C From Type D\*

C	z-scores		Statement	
	D	C - D		
More Than Type D, Type C Accepts:				
2.943	-1.582	4.525	45.	My fate is in the hands of God. There is no use building fallout shelters or anything like that, since what God wills will be done.
2.565	-1.023	3.589	53.	I think that if all of us prayed for peace there would be nothing to worry about.
0.602	-2.575	3.177	21.	In the eyes of God, things like fallout shelters are immoral.
2.787	0.470	2.316	57.	We ought to do all we can to prevent war -- and at the same time keep ourselves prepared in case it comes.
1.111	-0.299	1.409	33.	Any shelter that would provide adequate protection for a family would cost more than \$300.
1.499	0.222	1.276	52.	A person dies when his time is up. There's nothing anyone can do about it.
0.946	-0.315	1.260	19.	I don't think I'll build a shelter because there wouldn't be time to get to it.
1.907	0.746	1.161	6.	We must try harder to prevent war and not give so much attention to shelters.
More Than Type D, Type C Rejects:				
-0.607	1.638	-2.245	3.	I am convinced that my family and I should have a fallout shelter -- either one of our own or a community shelter we could go to.
-0.150	2.061	-2.211	1.	The government should lend money to communities so community shelters can be built.
0.134	2.104	-1.970	8.	It would be better for communities to build large public shelters rather than to have each family build one of its own.
-0.777	0.918	-1.695	36.	I think a community shelter would be a good idea, but you can't get people around here interested in building a thing like that.
0.615	2.276	-1.661	4.	On this fallout shelter business, I'll do whatever the government thinks is best to do.
-0.680	0.934	-1.614	12.	I see building a shelter as something like buying insurance. Better to spend a little now even if we never use it, so we'll have it <u>just in case</u> .
-0.633	0.928	-1.561	38.	I wish the people in government would stop talking so much about fallout shelters and <u>do</u> something about them.
0.639	1.783	-1.144	15.	It seems to me that, if the government wants us to have fallout shelters, it ought to start a program for building shelters.
0.385	1.427	-1.042	14.	It is the federal government's responsibility to protect all citizens by supplying them, rich and poor, with shelters.
-0.933	0.075	-1.008	56.	Radiation sickness is <u>not</u> contagious. There is no harm in getting close to somebody who had it.

\* Includes items which one type placed at least 1 standard deviation higher or lower than the other type.