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MINNESOTA CENTER FOR SURVEY RESEARCH



UNIVERSITY OF MINNESOTA

TECHNICAL REPORT 89-1

1988 MINNESOTA STATE SURVEY:
RESULTS AND TECHNICAL REPORT

January 31, 1989

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ACKNOWLEDGEMENTS

We gratefully acknowledge the contributions of the 33 interviewers, five shift supervisors and six data coders/editors who spent numerous hours producing the data for this study. In addition, thanks are extended to the staff of the 1988 Minnesota State Survey, whose responsibilities were:

Overall Coordination	Rossana Armson
Data Collection Manager	Nancy Davenport-Sis
Data Coding Manager	Carol Westrum
Data Processing	Tom Pechman
Questionnaire Production	Tammy Tollefson

This study was made possible by financial support from four outside organizations. These organizations included questions in the following content areas:

Quality of Life	Minnesota Center for Survey Research
Environment	Center for Urban and Regional Affairs University of Minnesota
Transportation	Minnesota Department of Transportation
Attractions	Science Museum of Minnesota Twin Cities Tourism Attractions Association
Aging	Center for Urban and Regional Affairs University of Minnesota
Education	SRI International

We anticipate that the usefulness of this data will justify the effort expended in collecting the information.

William J. Craig, Director
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CHAPTER 1

1988 MINNESOTA STATE SURVEY: TECHNICAL REPORT

OVERVIEW

The 1988 Minnesota State Survey (MSS) was the sixth annual omnibus survey of adults, age 18 and over, who reside in Minnesota. Data collection was conducted from November 1988 through January 1989 by the Minnesota Center for Survey Research (MCSR) at the University of Minnesota. MSS is an "omnibus" survey, where individual organizations define and pay for those questions which are of special interest to them. The topics in this year's survey included quality of life, environment, transportation, attractions, aging, and education.

A total of 1,209 telephone interviews were completed for MSS'88. The overall response rate was 77%. This compares favorably with other omnibus social surveys which generally have response rates of 70% to 75%.

The survey sample consisted of households selected randomly from all Minnesota telephone exchanges. Selection procedures guaranteed that every telephone household in the state had an equal chance to be included in the survey, and that once the household was sampled every adult had an equal chance to be included.

Since the individuals who participated in MSS'88 were randomly selected from the population of Minnesota, the survey results can be generalized to the entire state. These generalizations can be made either to households, using the unweighted data file, or to individuals, using the weighted data file as the source of the percentages. The questionnaire and results presented in Chapter 4 of this report are based on the weighted computer data file and all percentages presented there generalize to individuals.

The margin of error for a simple random sample of the size of the Minnesota State Survey is about plus or minus three percentage points, when the distribution of question responses is in the vicinity of 50 percent. This sampling error presumes the conventional 95% degree of desired confidence, which is equivalent to a "significance level" of .05. This means that in a sample of 1,200 households there is a 95% chance or better that if all households in Minnesota were surveyed, the results would not differ from the MSS'88 findings by more than three percentage points.

OBJECTIVES

The Minnesota State Survey (MSS) has four basic objectives. The first and most important of these is to get useful and technically sound information on the characteristics, attitudes, and behaviors of Minnesota residents for researchers and public policy decision-makers. MSS is an "omnibus" survey, where individual organizations define and pay for those questions which are of special interest to them. Such information is potentially relevant to a multitude of needs, including market analysis, needs assessment, project evaluation, and organizational planning.

The second objective is to develop an ongoing social monitoring capability for the state of Minnesota. Because the survey has been an annual event since 1984, it provides the means to maintain an updated statewide database and to monitor change in this database over the course of time.

The third objective is to provide students at the University of Minnesota with an opportunity to participate in a professional survey operation. This training experience greatly enhances the methodological skills of such students, which also enlarges and enriches the pool of social researchers ultimately available to other projects in the community.

The fourth objective is to develop and refine methods for conducting social surveys. The most advanced methods and techniques are utilized in MCSR surveys, but attention is given to explorations that improve upon existing research methods.

PARTICIPATING ORGANIZATIONS

Organizations providing financial support for MSS'88 were: Center for Urban and Regional Affairs at the University of Minnesota, Minnesota Department of Transportation, Science Museum of Minnesota, SRI International, and Twin Cities Tourism Attractions Association.

The topics in this year's survey included quality of life, environment, transportation, attractions, aging, and education.

SAMPLING DESIGN

The survey sample consisted of households selected randomly from all Minnesota telephone exchanges. The random digit telephone sample was acquired from Survey Sampling, Inc. of Westport, Connecticut. Evidence of the integrity of the sampling frame and the survey procedures is given in a later section of this chapter (Evaluation of the Sample).

Selection of respondents occurred in two stages: first a household was randomly selected, and then a person was randomly selected for interviewing from within the household. The selection of a person within the household was done using the Most Recent Birthday Selection Method, a sample of which appears in the introduction (See Appendix E: Administrative Forms). These selection procedures guaranteed that every telephone household in the state had an equal chance to be included in the survey, and that once the household was sampled every adult had an equal chance to be included.

MSS'88 was conducted at the same time as a separate Twin Cities Area Survey (TCAS'88). Because of this, the 600 metropolitan area residents who were interviewed for this statewide survey also completed an additional set of questions that were for TCAS'88. The average survey length for these 600 metropolitan area residents was 18 minutes and included questions on two additional topics, compared to a 12 minute average survey length for residents of Greater Minnesota. Results and a technical report are available separately for TCAS'88.

INTERVIEWING

MSS'88 was the sixth annual omnibus survey of adults, age 18 and over, who reside in Minnesota. Data collection was conducted from November 1988 through January 1989 by the Minnesota Center for Survey Research (MCSR) at the University of Minnesota.

Interviewer Recruitment

All of the 33 interviewers who participated in MSS'88 were recruited from a pool of interviewers with prior MCSR experience. All of the interviewers were students at the University of Minnesota.

Training of Interviewers

New applicants for interviewing positions are hired only after completing a personal interview with the interviewing manager. Training of interviewers was conducted in three phases. In the first phase, new interviewers were required to attend an initial training session during which they were given basic instructions in survey interviewing.

For the second phase of training, all interviewers attended a session covering survey procedures and policies, and review of the actual interview schedule. In addition, they were provided with standard protocols for dealing with anticipated questions about the survey and possible reasons for refusing to participate. Before beginning actual interviewing, all new interviewers were required to conduct: (1) a practice interview with a supervisor or other MCSR staff member, and (2) a pilot interview with a randomly selected survey respondent, which was critiqued immediately.

For the final phase of training, all interviewers attended a supplementary session on specific techniques for converting potential refusals into completed interviews.

In addition, all interviewers were required to sign a statement of professional ethics, which contained explicit guidelines about appropriate interviewing behavior and the confidentiality of all respondent information. A copy of this statement is included in Appendix E.

Supervision

The interviews were conducted by telephone from a central phone bank at the Minnesota Center for Survey Research. This interviewing was conducted on six days each week, including weekend, evening, and weekday interviewing. Every work shift was managed by a supervisor whose responsibilities included distributing new phone numbers and scheduled appointments, monitoring interviewers at work, and reviewing completed interview schedules for errors and omissions.

In addition to the informal monitoring which was done by supervisors, there was a formal monitoring system in operation. This formal monitoring system utilized an experienced interviewer, who listened to interviews being conducted, completed evaluation forms, and provided immediate feedback on how to improve interviewing quality. During the first three weeks of the project, all of the interviewers and a total of nine percent of the completed interviews were formally monitored to ensure satisfactory interview quality. Interviewers whose performance was not acceptable were re-evaluated on subsequent shifts. If their performance did not improve, their employment was terminated.

Operations

Numbers to be called were recorded on callback records (see Appendix E for forms), and these were distributed to interviewers at the beginning of each shift. The disposition of each attempt to complete an interview was recorded on these callback records. Each telephone number in the sample continued to be called until there were 10 "no answer" dispositions on 10 different shifts.

On the back of every callback record were two forms for recording relevant information about refusals and appointments. The refusal form included entries for the respondents' reasons for declining to participate in the study, the arguments used by the interviewer to encourage participation, and the point at which the termination occurred. The appointment form required specifying the date and time of the scheduled appointment, the name of the targeted respondent if selected, and whether the appointment was firm, probable, or "a shot-in-the-dark."

All completed interview schedules were turned in to the supervisor for review immediately after the conclusion of the interview. They were then assigned a unique ID number, the phone number was recorded on the master list, and the interview schedule was filed for coding and data entry. All other callback records were returned to the supervisor at the end of the shift. For each call made, interviewers recorded the date, time, and disposition of the call as well as their unique interviewer number. Copies of the callback records and explanations for all possible disposition codes are included in Appendix E.

MANAGEMENT OF DATA

Coding/Editing and Quality Control

Completed instruments were reviewed immediately by shift supervisors for missed questions, errors in branching, and insufficient detail in open-ended responses. Errors detected in this fashion were returned to the interviewer for correction. Following shift supervisor review, survey instruments were sent to coder/editors for a more detailed and rigorous examination. Coder/editors prepared completed instruments for data entry by (1) coding administrative variables on the contact record; (2) making certain that every question on the schedule was answered properly; (3) assuring that branching had been followed; and (4) coding open-ended responses. Again, errors which required further clarification were returned to interviewers to call back the respondent.

As many questions as possible were pre-coded. The actual editing work was done by six individuals who had completed the same training as the interviewers. These editors were given one hour of instruction in procedures, followed by one hour of close supervision in editing actual interviews. All open-ended coding was done by one experienced coder, who used an existing hierarchical code structure to categorize responses.

Data Entry

Shortly after interviewing began, completed questionnaires were key entered onto a data tape. Data entry and cleaning were continuous during the data collection phase and, as a result of this, a computer file of 1,209 completed interviews was available for preliminary analysis within a few weeks after the last interviews had been collected and coded.

Data Cleaning

Once a complete file of 1,209 interviews was constructed, it was examined systematically to remove data entry errors. Data cleaning involved use of a computer program to evaluate each case for: (1) variables with values out of range, and (2) inappropriate branching on screening and filter questions. In addition, the file was examined manually to identify cases with paradoxical or inappropriate responses.

EVALUATION OF THE SAMPLE

Completion Status

A total of 1,209 telephone interviews were completed for MSS'88 (Table 1). An additional 286 individuals refused to participate, 36 were eliminated because of physical or language problems, and 31 were still active when interviewing was terminated. The remainder of the sample was categorized as follows: 173 of the telephone numbers in the sample were business numbers, 460 were not working numbers, 70 were no answers on each of 10 attempted contacts, and no eligible respondent was available in 26 cases. The overall response rate for MSS'88 was 77%. This compares favorably with other omnibus social surveys which generally have response rates of 70% to 75%.

TABLE 1

FINAL STATUS OF INTERVIEWING FOR MSS'88

<u>Status</u>	<u>Number (Percent)</u>	
Completion	1,209	(53%)
Refusal	286	(12%)
Physical or Language Problem	36	(2%)
Active	31	(1%)
Not Home Phone	173	(8%)
Not Working Number	460	(20%)
No Answer (on 10 attempts)	70	(3%)
Eliminated	26	(1%)
TOTALS	2,291	(100%)

RESPONSE RATE* 77%

*Response rate was calculated by the following formula:

$$\text{response rate} = \frac{\text{completions}}{\text{potential interviews}}$$

(Potential interviews were defined as all instances where contact was made with the selected household, and were represented by the sum of the first four categories in Table 1.)

Representativeness

The accuracy of MSS'88 can be evaluated by comparing selected characteristics of the survey respondents with 1980 data from the U.S. Census and other more recent estimates. The geographic representation of the sample is compared to actual household distribution in the state of Minnesota (Tables 2 and 3). In addition to these geographic comparisons, reasonably accurate comparisons are possible with gender and age (Tables 4 and 5). The Census comparison for gender has been corrected for age, so that those percentages are based on the population 18 and over.

The percentage of households in each of the state development districts and regions was very close to the household distribution reported by the Census and the State Demographer (Table 2 and Table 3, respectively).

TABLE 2

DISTRICT OF RESIDENCE COMPARISON OF MSS'88 AND CENSUS DATA
(Household Units)

	MSS'88	1980 Census	1987 Estimates*
	-----	-----	-----
DISTRICT 1	2%	2%	2%
DISTRICT 2	1%	1%	2%
DISTRICT 3	8%	9%	7%
DISTRICT 4	5%	5%	5%
DISTRICT 5	3%	3%	3%
DISTRICT 6E	3%	3%	3%
DISTRICT 6W	1%	2%	1%
DISTRICT 7E	2%	2%	2%
DISTRICT 7W	5%	5%	5%
DISTRICT 8	3%	3%	3%
DISTRICT 9	6%	5%	5%
DISTRICT 10	11%	10%	10%
DISTRICT 11	50%	50%	52%
	-----	-----	-----
TOTAL	100%	100%	100%
	(1,209)	(1,445,000)	(1,575,968)

*Source: State Demographer, Minnesota State Planning Agency

Figure 1, on the following page, shows the Minnesota counties represented by each district.

FIGURE 1

MINNESOTA DEVELOPMENT REGIONS

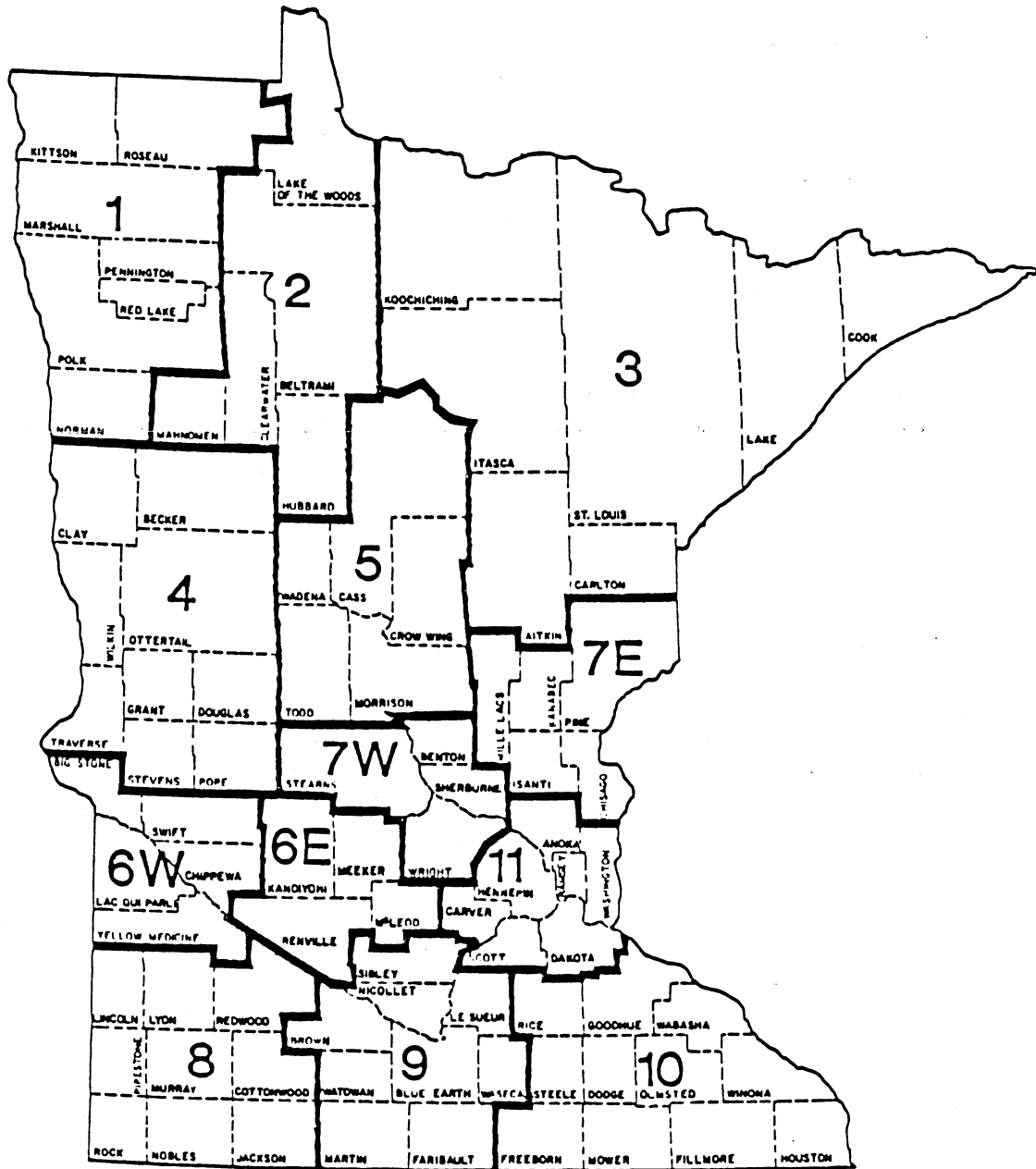


TABLE 3

REGION OF RESIDENCE COMPARISON OF MSS'88 AND CENSUS DATA
(Household Units)

	MSS'88	1980 Census	1987 Estimates*
Northwest	3%	3%	4%
Northeast	8%	9%	7%
Central	19%	20%	19%
Southwest	9%	8%	8%
Southeast	11%	10%	10%
Metro	50%	50%	52%
TOTAL	100% (1,209)	100% (1,445,000)	100% (1,519,000)

*Source: State Demographer, Minnesota State Planning Agency

Figure 2, below, shows the Minnesota counties represented by each region.

FIGURE 2

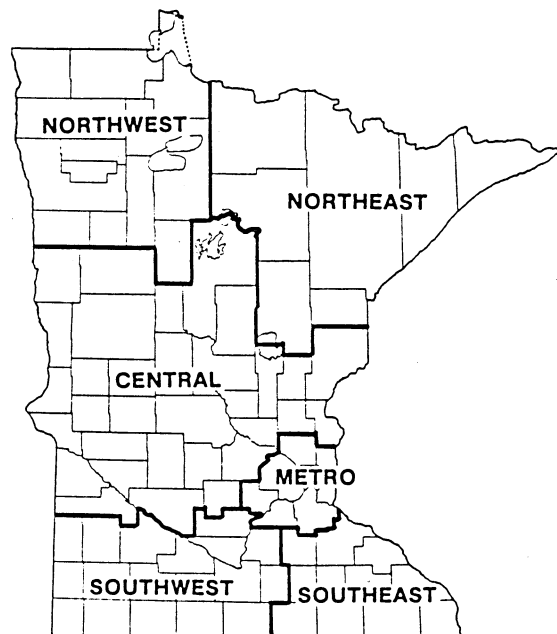


TABLE 4

GENDER COMPARISON OF MSS'88 AND CENSUS DATA

	MSS'88	1980 Census	1985 Estimates*
	-----	-----	-----
Male	47%	48%	48%
Female	53%	52%	52%
	-----	-----	-----
TOTAL	100%	100%	100%
	(1,209)	(2,907,813)	(3,082,270)

*Source: State Demographer, Minnesota State Planning Agency

The distribution of respondents by gender (Table 4) paralleled that reported by the Census and the State Demographer. However, the proportion of MSS'88 respondents in various age categories does differ slightly from the Census percentages (Table 5). These deviations in age categories decrease in magnitude when comparing MSS'88 to the 1985 estimates.

Using these tables to evaluate the degree to which the MSS'88 sample matches the Census profile of individuals living in Minnesota shows that it is generally an adequate representation of Minnesota residents.

TABLE 5

AGE COMPARISON OF MSS'88 AND CENSUS DATA

	MSS'88	1980 Census	1985 Estimates*
	-----	-----	-----
18-24	13%	19%	17%
25-34	26%	23%	24%
35-44	20%	16%	18%
45-54	14%	13%	12%
55-64	12%	12%	12%
65 +	14%	17%	17%
	-----	-----	-----
TOTALS	99%	100%	100%
	(1,197)	(2,907,813)	(3,082,270)

*Source: State Demographer, Minnesota State Planning Agency

Generalizability of Results

Since the individuals who participated in MSS'88 were randomly selected from the population of Minnesota, the survey results can be generalized to the entire state. These generalizations can be made either to households, using the unweighted data file, or to individuals, using the weighted data file as the source of the percentages.

The questionnaire and results presented in Chapter 4 of this report are based on the weighted computer data file and all percentages presented there generalize to individuals. Each percentage point in MSS'88 represents approximately 30,823 individuals, since there are an estimated 3,082,270 adults in Minnesota.

SAMPLING ERROR

The margin of error for a simple random sample of the size of the Minnesota State Survey is about plus or minus three percentage points, when the distribution of question responses is in the vicinity of 50 percent. This sampling error presumes the conventional 95% degree of desired confidence, which is equivalent to a "significance level" of .05. This means that in a sample of 1,200 households there is a 95% chance or better that if all households in Minnesota were surveyed, the results would not differ from the MSS'88 findings by more than three percentage points.

The distribution of sample responses is represented by the proportion of people responding to any question with a particular answer. For a sample size of 1,200 and a 50/50 distribution of question responses, the sampling error is 2.9 percentage points. A more extreme distribution of question responses has a smaller error range. Suppose that 80% of the respondents answer "Yes" and 20% say "No." The sampling error in this case would be 2.3 percentage points (see Table 6, below). That is, each percentage has a range of plus or minus 2.3 percentage points.

TABLE 6
SAMPLING ERROR (IN PERCENTAGE POINTS) BY
DISTRIBUTION OF QUESTION RESPONSES AND SAMPLE SIZE
Size of Sample (N)

	1200	1000	800	600	400	200
Distribution of Question Responses (percent)						
50/50	2.9	3.1	3.5	4.0	4.9	6.9
60/40	2.8	3.0	3.4	3.9	4.8	6.8
70/30	2.6	2.8	3.2	3.7	4.5	6.4
80/20	2.3	2.5	2.8	3.2	3.9	5.5
90/10	1.7	1.9	2.1	2.4	2.9	4.2

The importance of sample size in estimating sampling error also needs to be mentioned since many of the organizations using the MSS'88 data will be interested in subgroups, and not always the total sample of over 1,200 completed interviews. Essentially, as the size of the sample decreases, there is a corresponding increase in the estimated sampling error. For example, for a subset of 200 persons the estimated error may be as high as plus or minus seven percentage points.

As in all public opinion surveys, the results are also subject to other types of error associated with telephone data collection procedures. One general type of error is sampling error, and includes the systematic exclusion of households without telephones. The other general type of error is non-sampling error, and includes such things as question wording and question order.

DEMOGRAPHIC PROFILE OF THE SAMPLE

CHAPTER 2

DEMOGRAPHIC PROFILE OF THE SAMPLE

The purpose of this chapter is to briefly describe the MSS'88 sample according to its demographic characteristics. In addition to variables which are reported here as raw survey results, certain variables have been constructed for the convenience of the user, such as household income and household work status. (It should be noted that while the category labels for household income are not mutually exclusive, actual practice is to record incomes in the higher category. For example, a respondent who reported a household income of exactly \$10,000 would be recorded in the category "\$10,000 to \$15,000".) The definitions for the construction of these variables can be found in Appendix C. The first seven variables describe characteristics of the respondent, while the remaining variables are characteristics of the household.

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
AGEMD	Age of respondent, grouped	14
RACE	Race of respondent	14
GENDER	Gender of respondent	14
EDUC	Education of respondent	15
WKSTATUS	Work status of respondent	15
OCCGRP	Occupational work group of respondent	15
MARSTAT	Marital status of respondent	16
HHCMP	Household composition	16
HHSIZE	Household size	16
NADULTS	Number of adults in household	17
NKIDS	Number of children in household	17
INCOME	Household income	17
HHWKSTAT	Household work status	18
HHOCCGRP	Household occupational work group	18
DDREGION	Development district region	18
GEOREGION	Geographic region of Minnesota	19
METRO	Greater Minnesota or Twin Cities	19
WGHT	Case-weighting factor	19

DEMOGRAPHIC PROFILE OF THE SAMPLE

AGEMD AGE OF RESPONDENT, GROUPED

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
18 - 24	1.00	154	12.7	12.9	12.9
25 - 34	2.00	308	25.5	25.7	38.6
35 - 44	3.00	246	20.3	20.5	59.1
45 - 54	4.00	172	14.2	14.4	73.5
55 - 64	5.00	145	12.0	12.1	85.6
65 AND OLDER	6.00	172	14.2	14.4	100.0
	99.00	12	1.0	MISSING	
	TOTAL	1209	100.0	100.0	

Valid Cases 1197 Missing Cases 12

RACE RACE OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
WHITE	1.00	1166	96.4	97.1	97.1
BLACK	2.00	12	1.0	1.0	98.1
INDIAN	3.00	1	.1	.1	98.2
HISPANIC	4.00	6	.5	.5	98.7
OTHER	5.00	16	1.3	1.3	100.0
	9.00	8	.7	MISSING	
	TOTAL	1209	100.0	100.0	

Valid Cases 1201 Missing Cases 8

GENDER GENDER OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
MALE	1.00	566	46.8	46.8	46.8
FEMALE	2.00	643	53.2	53.2	100.0
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

DEMOGRAPHIC PROFILE OF THE SAMPLE

EDUC EDUCATION OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
LESS THAN HIGH SCHL	1.00	43	3.5	3.6	3.6
SOME HIGH SCHOOL	2.00	74	6.1	6.1	9.7
HIGH SCHOOL GRADUATE	3.00	358	29.6	29.7	39.4
SOME TECHNICAL SCHL	4.00	57	4.7	4.7	44.1
TECHNICAL SCHL GRAD	5.00	108	8.9	8.9	53.1
SOME COLLEGE	6.00	229	19.0	19.0	72.1
COLLEGE GRADUATE	7.00	250	20.7	20.8	92.9
GRAD OR PROF. DEGREE	8.00	83	6.9	6.9	99.8
OTHER	9.00	3	.2	.2	100.0
	.00	4	.3	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 1205 Missing Cases 4

WKSTATUS WORK STATUS OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
WORKED FULL TIME	1.00	661	54.7	54.9	54.9
WORKED PART TIME	2.00	191	15.8	15.9	70.8
UNEMPLOYED	3.00	159	13.1	13.2	84.0
STUDENT	4.00	27	2.3	2.3	86.3
RETIRED	5.00	107	8.9	8.9	95.2
HOMEMAKER	6.00	58	4.8	4.8	100.0
	9.00	6	.5	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 1203 Missing Cases 6

OCCGRP OCCUPATIONAL WORK GROUP OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
MANAGE, PROF	1.00	184	15.3	21.8	21.8
TECH, SALES, ADMINISTR	2.00	299	24.7	35.4	57.2
SERVICE	3.00	110	9.1	13.0	70.2
FARM, FISH, FOREST	4.00	43	3.6	5.1	75.4
CRAFT, REPAIR	5.00	108	9.0	12.8	88.2
OPERATIVES, LABORERS	6.00	100	8.3	11.8	100.0
	9.00	364	30.1	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 845 Missing Cases 364

DEMOGRAPHIC PROFILE OF THE SAMPLE

MARSTAT MARITAL STATUS OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
MARRIED	1.00	806	66.7	66.9	66.9
SINGLE	2.00	266	22.0	22.1	88.9
DIVORCED	3.00	52	4.3	4.3	93.2
SEPARATED	4.00	14	1.2	1.2	94.4
WIDOWED	5.00	68	5.6	5.6	100.0
	.00	4	.3	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 1205 Missing Cases 4

HHCMP HOUSEHOLD COMPOSITION

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
MARRIED, KIDS	1.00	414	34.3	34.4	34.4
MARRIED, NO KIDS	2.00	390	32.3	32.4	66.8
SINGLE PARENT	3.00	94	7.8	7.8	74.6
SINGLE, NO KIDS	4.00	306	25.3	25.4	100.0
	9.00	5	.4	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 1204 Missing Cases 5

HHSIZE HOUSEHOLD SIZE

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
ONE PERSON	1.00	117	9.7	9.7	9.7
TWO PEOPLE	2.00	419	34.7	34.8	44.5
3 OR 4 PEOPLE	3.00	501	41.4	41.5	86.1
5 OR MORE PEOPLE	4.00	168	13.9	13.9	100.0
	9.00	3	.3	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 1206 Missing Cases 3

DEMOGRAPHIC PROFILE OF THE SAMPLE

NADULTS NUMBER OF ADULTS IN HOUSEHOLD

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1.00	145	12.0	12.0	12.0
	2.00	788	65.2	65.2	77.2
	3.00	186	15.3	15.3	92.6
	4.00	76	6.3	6.3	98.9
	5.00	10	.9	.9	99.7
	6.00	3	.3	.3	100.0
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

NKIDS NUMBER OF CHILDREN IN HOUSEHOLD

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	.00	697	57.7	57.8	57.8
	1.00	210	17.3	17.4	75.2
	2.00	178	14.7	14.8	90.0
	3.00	92	7.6	7.6	97.6
	4.00	26	2.1	2.1	99.7
	5.00	1	.1	.1	99.8
	6.00	2	.2	.2	100.0
	99.00	3	.2	MISSING	
	TOTAL	1209	100.0	100.0	

Valid Cases 1206 Missing Cases 3

INCOME HOUSEHOLD INCOME

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
UNDER 5,000	5.00	25	2.0	2.4	2.4
5 TO 10,000	10.00	53	4.4	5.2	7.7
10 TO 15,000	15.00	100	8.3	9.9	17.6
15 TO 20,000	20.00	98	8.1	9.7	27.3
20 TO 25,000	25.00	76	6.3	7.5	34.8
25 TO 30,000	30.00	100	8.3	9.9	44.6
30 TO 35,000	35.00	125	10.3	12.3	56.9
35 TO 40,000	40.00	107	8.9	10.6	67.5
40 TO 50,000	50.00	138	11.4	13.6	81.1
50 TO 60,000	60.00	71	5.9	7.0	88.2
MORE THAN 60,000	61.00	120	9.9	11.8	100.0
	99.00	195	16.2	MISSING	
	TOTAL	1209	100.0	100.0	

Valid Cases 1014 Missing Cases 195

DEMOGRAPHIC PROFILE OF THE SAMPLE

HHWKSTAT HOUSEHOLD WORK STATUS

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
WORKED FULL TIME	1.00	807	66.7	75.5	75.5
WORKED PART TIME	2.00	58	4.8	5.4	80.9
UNEMPLOYED	3.00	110	9.1	10.3	91.2
STUDENT	4.00	8	.6	.7	91.9
RETIRED	5.00	84	6.9	7.9	99.8
HOMEMAKER	6.00	2	.2	.2	100.0
	9.00	141	11.7	MISSING	
		-----	-----	-----	
TOTAL		1209	100.0	100.0	

Valid Cases 1068 Missing Cases 141

HHOCCGRP HOUSEHOLD OCCUPATIONAL WORK GROUP

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
MANAGE, PROF	1.00	214	17.7	25.1	25.1
TECH, SALES, ADMINISTR	2.00	239	19.8	28.1	53.2
SERVICE	3.00	57	4.7	6.7	60.0
FARM, FISH, FOREST	4.00	55	4.6	6.5	66.4
CRAFT, REPAIR	5.00	172	14.2	20.2	86.6
OPERATIVES, LABORERS	6.00	114	9.4	13.4	100.0
	9.00	358	29.6	MISSING	
		-----	-----	-----	
TOTAL		1209	100.0	100.0	

Valid Cases 851 Missing Cases 358

DDREGION DEVELOPMENT DISTRICT REGION

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
DISTRICT 1	1.00	21	1.7	1.7	1.7
DISTRICT 2	2.00	18	1.4	1.4	3.2
DISTRICT 3	3.00	94	7.8	7.8	11.0
DISTRICT 4	4.00	61	5.0	5.0	16.0
DISTRICT 5	5.00	30	2.5	2.5	18.5
DISTRICT 6E	6.00	37	3.1	3.1	21.5
DISTRICT 6W	7.00	15	1.3	1.3	22.8
DISTRICT 7E	8.00	20	1.7	1.7	24.5
DISTRICT 7W	9.00	72	5.9	5.9	30.4
DISTRICT 8	10.00	37	3.1	3.1	33.5
DISTRICT 9	11.00	64	5.3	5.3	38.8
DISTRICT 10	12.00	132	10.9	10.9	49.7
DISTRICT 11	13.00	608	50.3	50.3	100.0
		-----	-----	-----	
TOTAL		1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

DEMOGRAPHIC PROFILE OF THE SAMPLE

GEOREGN GEOGRAPHIC REGION OF MINNESOTA

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
NORTHWEST	1.00	39	3.2	3.2	3.2
NORTHEAST	2.00	94	7.8	7.8	11.0
CENTRAL	3.00	235	19.4	19.4	30.4
SOUTHWEST	4.00	102	8.4	8.4	38.8
SOUTHEAST	5.00	132	10.9	10.9	49.7
METRO	6.00	608	50.3	50.3	100.0
TOTAL		1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

METRO GREATER MINNESOTA OR TWIN CITIES AREA

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
GREATER MINNESOTA	1.00	601	49.7	49.7	49.7
TWIN CITIES AREA	2.00	608	50.3	50.3	100.0
TOTAL		1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

WGHT CASE-WEIGHTING FACTOR

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	.52	145	12.0	12.0	12.0
	1.03	788	65.2	65.2	77.2
	1.55	186	15.3	15.3	92.6
	2.06	76	6.3	6.3	98.9
	2.58	10	.9	.9	99.7
	3.09	3	.3	.3	100.0
TOTAL		1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

INSTRUCTIONS FOR USING THE CODEBOOK

CHAPTER 3

INSTRUCTIONS FOR USING THE QUESTIONNAIRE AND RESULTS

OBJECTIVES

The questionnaire and results (Chapter 4 of this report) for a survey data file serve three basic functions: (1) a record of the exact wording and order of the survey questions; (2) a report of the responses to those questions; and (3) documentation of the variable names, which are necessary to access the computer data file. The questionnaire and results section of this report is a copy of the interview schedule with the frequency distributions and percentages added to those questions which were pre-coded or closed-ended. Appendix A shows the responses to open-ended questions, while Appendix B shows the responses to continuous variables, such as year of birth. Appendix C shows the definitions for constructed variables which make many of these responses more useful, e.g. age group. The distributions for these constructed variables are presented in Chapter 2 of this report: Demographic Profile of the Sample. Appendix D contains the frequency counts for administrative variables, such as interview length. Finally, Appendix E contains copies of the administrative forms used for this survey.

INTERPRETING THE QUESTIONNAIRE RESULTS

Chapter 4 of this report contains a replica of the 1988 Minnesota State Survey questionnaire. Two pieces of information have been added to this replica: question labels, and the response frequencies and percentages for each question. The questionnaire and response frequencies will be of major interest to most readers. The question labels, or variable labels, are useful documentation for those who wish to use a computer and the SPSS software package for more detailed analysis.

The questionnaire is an exact replica. This is important in order to know how questions were phrased, in what order they were asked, and when it was proper to skip certain questions. Interviewers were instructed to read these questions verbatim and to avoid giving their interpretations or opinions in any way. Two types of markings which appear on the survey form were not indicated to respondents: instructions to the interviewers which are shown in parentheses, and section and survey labels which are shown in bold type.

To the right of each question is printed a list of permissible answers and a code number for each answer. The interviewer was instructed to circle the code number of the answer given by the respondent. A new questionnaire was used for each interview and was marked to show the answers of each respondent. The fourth question in the demographics section of the survey provides a good example of this coding scheme. If a respondent reported being a homeowner, the "1" would be circled on that questionnaire.

INSTRUCTIONS FOR USING THE CODEBOOK

Open-ended and continuous questions were coded in different ways and the responses to those questions are shown in Appendices A and B. The responses to open-ended questions were written verbatim on the questionnaire and later classified into categories by a specially trained coder who wrote category numbers into the answer spaces for those questions. These responses are summarized in Appendix A. Questions with continuous distributions, where many discrete answers are possible, are shown with open spaces in the answer column of the question. Interviewers simply wrote in numbers like zip code and year of birth. The responses to those questions are presented in Appendix B.

Missing Value Nomenclature

For all types of questions, two to three types of "missing" response categories exist: don't know, refused to answer, and not applicable. The first two categories are self-explanatory and are always options for respondents. Not applicable is an option where answering a given question is conditional, or in other words, where a given question was asked only of certain respondents. Standard codes are associated throughout with each missing value category: 8, 9, and 0. Where the answer is multiple digit, so is the standard code.

	Number of Digits in Code			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
DK (Don't Know)	8	88	888	8888
RA (Refused)	9	99	999	9999
NA (Not Applicable)	0	00	000	0000

Response Frequencies

The responses summed for all 1,209 respondents are shown in the last two columns to the right of each question. The first of these columns shows the number (frequency) of people in each response category: these should sum to 1,209, with some rounding error. The second number is the percentage response rate, adjusted to exclude the missing response categories.

For most analytical purposes, people will want these adjusted percentages. They were computed and presented here to meet that need. These adjusted percentages are less appropriate when used as a public opinion poll, for showing public support for policies. For example, if 15 percent of the respondents did not answer a question, but 55 percent of those who did answer supported a particular position, it is inappropriate to argue that the issue has majority support. In this example, only 47 percent of all people would actually be supportive. For policy choices, it may be more appropriate to show the percentage distribution of all 1,209 respondents.

INSTRUCTIONS FOR USING THE CODEBOOK

Analysts should beware of using these adjusted percentages. Where the number of people not responding is large, the adjusted percentages will misrepresent public sentiment. Contact MCSR if you have any doubt which percentages to use.

One final comment: the frequencies shown here are "weighted" by the number of adults in the household as explained below. This technique introduces some rounding errors, so that the sum of the frequencies for a given question may not equal 1,209 exactly.

OPEN-ENDED QUESTIONS

The results from the open-ended questions on the survey, such as the questions on the most important problems facing people in Minnesota today, are presented in Appendix A.

VERBATIM RESPONSES

MCSR maintains records of verbatim responses. For open-ended questions, this record is in the questionnaires themselves and is relatively inaccessible. However, a separate listing of responses is created and maintained for any question answer which falls outside a permissible list and is coded as "other". For example, a Socialist would fall outside the normal political list of Republican, Democrat, or Independent and would be coded as "other". Such a list for any question is available from the MCSR office upon request.

CONTINUOUS VARIABLES

The results from questions which have continuous responses are presented in Appendix B.

CONSTRUCTED VARIABLES

Appendix C contains the operational definitions of the constructed variables for the convenience of the data file user. The distribution of these variables is presented in Chapter 2 of this report: Demographic Profile of the Sample. These constructed variables are contained in the SPSS data file along with all of the original variables.

ADMINISTRATIVE VARIABLES

The results from survey administration items, such as date of completion and interviewer ID, are presented in Appendix D.

INSTRUCTIONS FOR USING THE CODEBOOK

WEIGHTING OF DATA

The responses presented in the questionnaire and results section of this report and in the appendices have been weighted based upon the total number of adults living in the household. Because telephone surveys tend to oversample people who live in single-individual households, these individuals were downweighted by about 50% and all others upweighted accordingly to more accurately represent the distribution of adult members in households in the population of the state. Weighted response distributions will differ slightly from unweighted distributions. The construction and activation of the weighting factor is described in Appendix C, under the variable "WGHT."

MSS-88.REP

MSS-88.SCB/C:\MSS-88

01/31/89

A. QUALITY OF LIFE

The first questions are about quality of life.

1 - 3. NO QUESTIONS ON STATEWIDE SURVEY

A4. In your opinion, what do you think is the single most important problem facing people in Minnesota today?

(IF "TAXES", PROBE: Is that income taxes, property taxes, or sales tax?)

See Appendix A, Page A-2
for a more complete list
of problems.

		Freq	%
Taxes. . . . .	.01	213	20
Education. . . . .	.02	27	2
Environment. . . . .	.03	95	9
Economy. . . . .	.04	463	43
Health care. . . . .	.05	28	3
Transportation . . . . .	.06	10	1
Housing. . . . .	.07	14	1
Food . . . . .	.08	5	0
Government . . . . .	.09	33	3
War. . . . .	.10	3	0
Crime. . . . .	.11	28	3
Energy . . . . .	.12	2	0
Social issues. . . . .	.13	105	10
Family . . . . .	.14	13	1
Other. . . . .	.15	33	3
DK . . . . .	.88	135	
RA . . . . .	.99	2	

B. ENVIRONMENT

The next questions are about environmental issues.

B1. There are four major ways that a community can deal with its trash and garbage; these are landfilling, recycling, composting and incineration. Which would you like to see your community adopt as its first priority?

Composting	1	58	5
Incineration	2	184	16
Landfilling.	3	51	4
Recycling.	4	879	75
DK	8	37	
RA	9	1	

B2. Would you favor or oppose the required recycling of newspapers, cardboard, bottles, and cans?

Favor.	1	1085	91
Oppose	2	111	9
DK	8	13	
RA	9	0	

C. TRANSPORTATION

The next few questions are about transportation.

Cl. I'd like to know how satisfied you are with each of the following transportation issues ... very satisfied, somewhat satisfied, not very satisfied, or not at all satisfied. (READ LIST)

	VERY SAT 1	S/W SAT 2	NOT VERY SAT 3	NOT AT ALL SAT 4	DK 8	RA 9
Cl a. The <u>condition</u> of Minnesota's roads	256 (22)	686 (58)	191 (16)	59 (5)	17	1
Cl b. The amount of work that is being done to <u>improve</u> Minnesota's highway system	280 (24)	658 (56)	190 (16)	52 (4)	28	1
Cl c. The <u>safety</u> of Minnesota's roads.	381 (32)	659 (55)	120 (10)	30 (3)	20	0
Cl d. The time it takes you to travel to the places you want to go . .	533 (45)	531 (45)	95 (8)	25 (2)	24	1
Cl e. Driving through highway construction work areas.	187 (16)	500 (43)	319 (27)	160 (14)	41	2

ONLY RESPONDENTS OUTSIDE THE METRO AREA WERE ASKED QUESTIONS 1 AND 2 IN THIS SECTION.

D. ATTRACTIONS

The Twin Cities has a number of different attractions such as arts, sports, theater, and entertainment.

		<u>Freq</u>	<u>%</u>
D1. Are there any particular attractions that bring you to the Twin Cities?	Yes	1 411	69
	No	2 188	31
	(IF NO, GO TO 2)		
	DK	8 2	
	RA	9 0	
	NA	0 608	

D1a. (IF YES) What attractions bring you to the Twin Cities? See Appendix A, Page A-4

D2. How do you find out or get information about Twin City attractions?
(DO NOT READ LIST; PROBE ONCE WITH "WHAT ELSE?")

	<u>YES</u>	<u>NO</u>	<u>DK</u>	<u>RA</u>	<u>NA</u>
	1	2	8	9	0
D2a. TV ads	270 (45)	327 (55)	4	1	608
D2b. Sunday Star Tribune. . .	204 (34)	392 (66)	5	1	608
D2c. Weekly Star Tribune. . .	127 (21)	468 (79)	5	1	608
D2d. Billboard.	1 (0)	596 (100)	4	1	608
D2e. Local Chamber.	5 (1)	592 (99)	4	1	608
D2f. Radio ads.	144 (24)	452 (76)	4	1	608
D2g. Sunday St. Paul Dispatch	23 (4)	572 (96)	5	1	608
D2h. Weekly St. Paul Dispatch	17 (3)	578 (97)	5	1	608
D2i. Direct mail.	18 (3)	578 (97)	4	1	608
D2j. Recommended by friend. .	121 (20)	476 (80)	4	1	608
D2k. Other (SPECIFY).	296 (50)	300 (50)	4	1	608

		Freq	%
D3. Have you yourself <u>ever</u> been to the Science Museum of Minnesota in St. Paul?	Yes	1 695	58
	No	2 509	42
	DK	8 4	
	RA	9 1	

G. AGING

G1. As far as people in charge of running nursing homes are concerned, would you say you have a great deal of confidence, only some confidence, or hardly any confidence at all in them?	Great deal	1 187	17
	Only some	2 672	60
	Hardly any	3 266	24
	DK	8 83	
	RA	9 1	

G2. Have you or a close friend or family member ever had any direct experience with a nursing home?	Yes	1 875	72
	No	2 334	28
	(IF NO, GO TO 3)		
	DK	8 0	
	RA	9 0	

G2a. (IF YES) Was it you or someone else?	Respondent	1 133	15
	Someone else	2 614	70
	(IF SOMEONE ELSE, GO TO 2a-2)		
	Both	3 127	15
	DK	8 0	
	RA	9 0	
	NA	0 334	

G2a-1 (IF RESP OR BOTH) Were you a resident, a volunteer or an employee at a nursing home?	Resident	1 5	2
	Volunteer	2 43	17
	Employee	3 94	36
	Visitor	4 96	37
	Other (SPECIFY)	5 20	8
	DK	8 0	
	RA	9 2	
	NA	0 949	

G2a-2 (IF SOMEONE ELSE OR BOTH) Was this person a resident, a volunteer or an employee at a nursing home?	Resident	1 576	78
	Volunteer	2 15	2
	Employee	3 83	11
	Visitor	4 6	1
	Other (SPECIFY)	5 59	8
	DK	8 0	
	RA	9 2	
	NA	0 468	

H. EDUCATION

The next questions are about education.

H1. Based on what you know about Minnesota's public education after high school, such as colleges and technical schools, what rating would you give to (READ LIST) ... excellent, good, fair, poor, or very poor?

		<u>EXC</u>	<u>GOOD</u>	<u>FAIR</u>	<u>POOR</u>	<u>VERY</u> <u>POOR</u>	<u>DK</u>	<u>RA</u>
		1	2	3	4	5	8	9
[1] H1a.	The overall quality of education provided	371 (32)	643 (55)	133 (11)	22 (2)	6 (0)	32	2
[2] H1b.	The overall value for taxpayer's dollars	152 (13)	555 (48)	289 (25)	130 (11)	19 (2)	63	2
[3] H1c.	The variety of programs and courses offered.	410 (36)	578 (50)	135 (12)	24 (2)	2 (0)	57	3
[4] H1d.	How affordable it is	114 (10)	467 (42)	352 (32)	155 (14)	31 (3)	86	3
[5] H1e.	The availability of education after high school to people in all parts of the state.	320 (28)	559 (49)	189 (17)	63 (6)	8 (1)	69	2
[6] H1f.	The availability of programs and courses in the evenings and on weekends.	303 (27)	596 (53)	182 (16)	40 (4)	7 (1)	80	2

See Appendix D, Page D-6 for Random Start distribution

H2. Next I'm going to read some statements about education in Minnesota at both public and private colleges and technical schools. For each statement, please tell me whether you strongly agree, agree, disagree, or strongly disagree.

		<u>STRONG</u> <u>AGREE</u>	<u>AGREE</u>	<u>DISAG</u>	<u>STRONG</u> <u>DISAG</u>	<u>DK</u>	<u>RA</u>
		1	2	3	4	8	9
H2a.	Providing high quality education after high school is important to Minnesota's economic future	687 (57)	500 (42)	13 (1)	1 (0)	7	2
H2b.	These days, you really need to go to college to get a good job.	445 (37)	516 (43)	215 (18)	19 (2)	10	3
H2c.	Minnesota should spend more money to improve the quality of education after high school in the state	304 (26)	632 (53)	231 (20)	15 (1)	23	3

I. DEMOGRAPHICS

Before ending this interview I have a few remaining background questions.

		Freq	%
11. What county do you live in? See Appendix B, Page B-2 for a complete county list.	Anoka . . . . .	.02	67 6
	Dakota . . . . .	.19	61 5
	Hennepin . . . . .	.27	277 23
	Olmsted . . . . .	.55	40 3
	Ramsey . . . . .	.62	130 11
	St. Louis . . . . .	.69	61 5
	Stearns . . . . .	.73	31 3
	Washington . . . . .	.82	48 4
	DK . . . . .	.88	0
	RA . . . . .	.99	0
12. What is the name of the city or township you live in?			DO NOT CODE
13. What is your zip code?			See Appendix B, Page B-4
14. Do you own or rent your residence? _____ (SPECIFY OTHER HERE)	Own	1	936 78
	Rent	2	260 22
	Other (SPECIFY)	3	10 1
	DK	8	2
	RA	9	1
15. What kind of housing unit do you live in? (DO NOT READ LIST) _____ (SPECIFY OTHER HERE) (CODE 4-PLEX AND TRI-PLEX AS APARTMENT)	Single family detached	1	957 79
	Townhouse	2	29 2
	Duplex or 2-unit building	3	54 4
	Apartment building	4	108 9
	Mobile home	5	35 3
	Something else (SPECIFY)	6	26 2
	DK	8	0
	RA	9	1
6 - 8. NO QUESTIONS ON STATEWIDE VERSION			
19. What is the highest level of school you have completed? (DO NOT READ LIST) _____ (SPECIFY OTHER HERE)	Less than high school .01	43	4
	Some high school02	74	6
	High school graduate .03	358	30
	Some technical school .04	57	5
	Technical school grad .05	108	9
	Some college06	229	19
	College graduate07	250	21
	Post graduate or professional degree .08	83	7
	Other (SPECIFY)09	3	0
	DK88	2	
	RA99	2	
110. Are you married, single, divorced, separated, or widowed?	Married	1	806 67
	Single	2	266 22
	Divorced	3	52 4
	Separated	4	14 1
	Widowed	5	68 6
	DK	8	0
	RA	9	4

I11. What year were you born?

See Appendix
B, Page B-10

(Note AGE, page B-12 computed from I11.)

I12. What race do you consider yourself? (DO NOT READ LIST,
BUT CODE THE FOLLOWING)

	Freq	%
White/Caucasian	1 1166	97
Mexican/Hispanic	2 6	0
Black/Negro	3 12	1
American Indian/Native American	4 1	0
Oriental/Asian	5 6	0
Mixed, no dominant racial identification	6 2	0
Other (SPECIFY)	7 8	1
	DK 8 2	
	RA 9 7	

(SPECIFY OTHER HERE)

I13. Generally speaking, do you consider yourself a Republican, Democrat, or Independent?

Republican	1 372	32
Democrat	2 380	33
Independent	3 382	33
Other (SPECIFY)	4 24	2
	DK 8 12	
	RA 9 39	

(SPECIFY OTHER HERE)

I14. Did you have a paying job last week?

Yes	1 853	71
No	2 353	29
(IF NO, GO TO 14c)		
	DK 8 0	
	RA 9 3	

I14a. (IF YES) Were you working full-time or part-time?

Full-time	1 661	78
Part-time	2 191	22
	DK 8 0	
	RA 9 1	
	NA 0 356	

I14b. (IF YES) What is your main occupation? What kind of work do you do?

Manager, professional	1 184	22
Technical, sales, administrator	2 299	35
Service	3 110	13
Farming, forestry, fishing	4 43	5
Precis., crafts, repair	5 108	13
Operatives, laborers	6 100	12
	DK 8 0	
	RA 9 9	
	NA 0 356	

(IF WORKING LAST WEEK, GO TO 15)

I14c. (IF NO) Do you consider yourself (READ LIST)?

	YES 1	NO 2	DK 8	RA 9	NA 0
I14c-1 Retired	208 (59)	144 (41)	1	1	856
I14c-2 Unemployed	159 (45)	192 (55)	2	1	856
I14c-3 A student	49 (14)	302 (86)	1	1	856
I14c-4 A homemaker	259 (74)	92 (26)	1	2	856

I15. How many people are living in your household now including yourself?

See Appendix B, Page B-13
(IF LIVE ALONE, GO TO 19)

I16. NO QUESTION ON THIS VERSION

I17. How many people in your household are under 18?

See Appendix B, Page B-14

Now I'd like to know the employment status of the person in your household who contributed most to the household income in 1987.

I18. Is this person you or someone else in your household?

Respondent 1	516	48
(IF RESPONDENT, GO TO 19)		
Someone else 2	556	52
Someone no longer in household. 3	7	1
(IF NOT IN HH, GO TO 19)		
DK 8	3	
RA 9	10	
NA 0	117	

I18a. (IF SOMEONE ELSE) Did this person have a paying job last week?

Yes. 1	445	80
No 2	110	20
(IF NO, GO TO 18a-3)		
DK 8	0	
RA 9	1	
NA 0	653	

I18a-1 (IF YES) Were they working full-time or part-time?

Full-time. 1	426	96
Part-time. 2	19	4
DK 8	0	
RA 9	0	
NA 0	764	

I18a-2(IF YES) What is their main occupation? What kind of work do they do?

Manager, professional. . . 1	105	24
Technical, sales, administrator. 2	117	27
Service 3	26	6
Farming, forestry, fishing. 4	23	5
Precis., crafts, repair 5	102	24
Operatives, laborers. . . 6	61	14
DK 8	2	
RA 9	9	
NA 0	764	

I18a-3 (IF NO) Are they: (READ LIST)?

	<u>YES</u>	<u>NO</u>	<u>DK</u>	<u>RA</u>	<u>NA</u>
	1	2	8	9	0
I18a-3a Retired.	92 (84)	18 (16)	0	0	1099
I18a-3b Unemployed . . .	68 (62)	42 (38)	1	0	1099
I18a-3c A student. . . .	12 (11)	98 (89)	0	0	1099
I18a-3d A homemaker. . .	42 (38)	69 (62)	0	0	1099

		Freq	%
I19. Was your total household income in 1987 above or below \$25,000?	Above.	1	730 66
	Below.	2	370 34
	(IF BELOW, GO TO 19b)		
	DK	8	51
	RA	9	58
	(IF DK OR RA, GO TO 20)		
I19a. (IF ABOVE) I am going to mention a number of income categories. When I come to the category which describes your total household income <u>before</u> taxes in 1987, please stop me.	25 to 30,000 . . .	.30	100 15
	30 to 35,000 . . .	.35	125 19
	35 to 40,000 . . .	.40	107 16
	40 to 50,000 . . .	.50	138 21
	50 to 60,000 . . .	.60	71 11
	60,000 or more . . .	.61	120 18
	DK . . . . .	.88	16
	RA . . . . .	.99	53
	NA . . . . .	.00	479
I19b. (IF BELOW) I am going to mention a number of income categories. When I come to the category which describes your total household income <u>before</u> taxes in 1987, please stop me.	Under 5,000. . . .	.05	25 7
	5 to 10,000. . . .	.10	53 15
	10 to 15,000 . . .	.15	100 28
	15 to 20,000 . . .	.20	98 28
	20 to 25,000 . . .	.25	76 22
	DK . . . . .	.88	7
	RA . . . . .	.99	11
	NA . . . . .	.00	839

This income figure you just gave me includes the income of everyone who was living in your household in 1987. Is that correct? (IF NO, REPEAT QUESTION 19)

I20. How many persons in the household contributed earnings or income that was part of the total household income you gave me for 1987?

See Appendix B, Page B-14

(ASK ONLY IF UNSURE)

I21. Respondent is	Male	1	566 47
	Female	2	643 53

Thank you for answering all these questions. I really appreciate your time.

(IF A RESPONDENT ASKS FOR SURVEY RESULTS, HAVE THEM CONTACT ROSSANA ARMSON AT 612/627-4282 DURING BUSINESS HOURS 9 AM TO 5 P.M.)

COMMENTS

APPENDIX A
OPEN-ENDED RESPONSES

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
A4	Most important problem for people in Minnesota	A-2
D1A	What attractions bring you to the Twin Cities	A-4

A4 MOST IMPORTANT PROBLEM FOR PEOPLE IN MINNESOTA

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
TAXES	10000	96	7.9	8.9	8.9
INCOME TAXES	10100	72	5.9	6.7	15.6
SALES TAXES	10200	8	.7	.8	16.4
PROPERTY TAXES	10300	38	3.1	3.5	19.9
EDUCATION	20000	2	.2	.2	20.1
QUALITY OF EDUCATION	20100	18	1.4	1.6	21.7
FINANCING EDUCATION	20200	5	.4	.4	22.1
HIGHER EDUCATION	20300	2	.2	.2	22.3
EDUCATION AVAILABLE	20400	1	.1	.1	22.4
ENVIRONMENT	30000	30	2.5	2.8	25.2
POLLUTION	30100	12	1.0	1.1	26.3
ACID RAIN	30101	5	.4	.5	26.8
WATER QUALITY	30102	21	1.7	1.9	28.7
AIR POLLUTION	30103	5	.4	.5	29.2
HAZARDOUS WASTE	30200	3	.3	.3	29.5
NUCLEAR WASTE	30300	1	.1	.1	29.6
SOLID WASTE	30400	3	.3	.3	29.9
LANDFILLS	30401	1	.0	.0	29.9
RECYCLING	30403	2	.2	.2	30.1
WEATHER	30600	13	1.1	1.2	31.3
ECONOMY	40000	54	4.5	5.0	36.4
UNEMPLOYMENT/JOBS	40100	42	3.5	3.9	40.3
IRON RANGE JOBS	40102	40	3.3	3.7	44.0
QUALITY OF JOBS	40103	12	1.0	1.2	45.2
WAGES	40104	57	4.7	5.3	50.5
JOB SKILLS	40105	1	.0	.0	50.6
QUANTITY OF JOBS	40106	52	4.3	4.8	55.4
INFLATION/RECESSION	40200	7	.6	.7	56.1
SAVINGS/INVESTMENTS	40300	34	2.8	3.2	59.2
BUSINESS CLIMATE	40400	14	1.2	1.3	60.6
ATTRACTING BUSINESS	40401	10	.9	1.0	61.5
KEEPING BUSINESS	40402	10	.9	1.0	62.5
CORPORATE TAXES	40403	28	2.3	2.6	65.1
SMALL TOWN BUSINESS	40404	5	.4	.4	65.5
FARM SITUATION	40500	48	4.0	4.5	70.0
FARM SUBSIDIES	40501	4	.3	.3	70.3
CROP PRICES	40502	8	.6	.7	71.0
FARM FINANCES	40503	6	.5	.6	71.6
LOSS OF FARM\FARMERS	40504	30	2.5	2.8	74.4
HEALTH CARE	50000	1	.1	.1	74.5
COST OF HEALTH CARE	50100	10	.8	.9	75.5
QUALITY-HEALTH CARE	50200	1	.1	.1	75.6
AVAILABLE-HEALTH CARE	50300	2	.1	.1	75.7
ELDERLY HEALTH CARE	50400	1	.1	.1	75.8
NURSING HOMES	50401	1	.0	.0	75.8
DISEASE-GENERAL	50600	3	.2	.2	76.1
AIDS	50701	10	.9	1.0	77.0
TRANSPORTATION	60000	2	.1	.1	77.2
TRAFFIC	60100	2	.2	.2	77.4
ROAD CONSTRUCTION	60200	4	.3	.4	77.8
EXPENSE-TRANSPORTATION	60300	1	.0	.0	77.8

A4 MOST IMPORTANT PROBLEM FOR PEOPLE IN MINNESOTA, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
DRUNK DRIVING	60600	2	.1	.1	78.0
HOUSING	70000	2	.1	.1	78.1
COST OF HOUSING	70100	5	.4	.5	78.6
AVAILABILITY-HOUSING	70200	8	.6	.7	79.3
COST OF FOOD	80100	2	.1	.1	79.4
SHORTAGE OF FOOD	80200	3	.3	.3	79.7
GOVERNMENT	90000	27	2.2	2.5	82.2
GOVT PROGRAMS	90300	3	.3	.3	82.5
FUNDING-DISTRIBUTION	90400	4	.3	.3	82.9
WAR	100000	1	.0	.0	82.9
WORLD PEACE	100100	3	.2	.2	83.1
CRIME	110000	19	1.6	1.8	84.9
CRIMINAL JUSTICE SYSTEM	110100	9	.7	.8	85.7
COST OF ENERGY	120100	2	.2	.2	85.9
SOCIAL ISSUES	130000	10	.8	.9	86.8
ABUSE-SOCIAL ISSUES	130100	1	.1	.1	86.9
WELFARE	130200	3	.2	.2	87.2
ABUSE-WELFARE SYSTEM	130201	10	.9	1.0	88.1
NOT ENOUGH PROGRAMS	130202	2	.1	.1	88.3
ABORTION	130300	4	.3	.3	88.6
DISCRIMINATION	130400	3	.2	.2	88.9
DRUGS	130500	42	3.5	3.9	92.8
ALCOHOL	130501	2	.2	.2	93.0
MORALITY	130600	7	.6	.6	93.6
RELIGION/CULTS	130601	7	.6	.6	94.2
POVERTY	130800	5	.4	.5	94.7
HOMELESS	131000	10	.9	1.0	95.7
FAMILY	140000	5	.4	.4	96.1
DAYCARE	140100	1	.1	.1	96.2
CHILD RAISING	140200	3	.3	.3	96.5
DIVORCE	140300	4	.3	.4	96.9
OTHER	150000	33	2.8	3.1	100.0
RA	999999	136	11.3	MISSING	
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1073 Missing Cases 136

D1A WHAT ATTRACTIONS BRING YOU TO THE TWIN CITIES

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
SPORTS	10	6	.5	1.4	1.4
TWINS BASEBALL	11	94	7.8	22.8	24.2
VIKINGS FOOTBALL	12	77	6.4	18.7	42.9
NORTH STARS HOCKEY	13	16	1.3	3.9	46.8
WRESTLING	14	3	.3	.8	47.6
HIGH SCHOOL TOURNYS	16	7	.6	1.6	49.2
VOLLEYBALL	17	1	.0	.1	49.3
UNIVERSITY SPORTS	18	5	.4	1.1	50.4
ARTS	20	7	.6	1.6	52.1
WALKER ART CENTER	21	4	.3	1.0	53.1
ORCHESTRA HALL	22	7	.6	1.6	54.7
MPLS INSTITUTE OF ARTS	24	1	.0	.1	54.8
THEATRE	30	8	.6	1.9	56.7
ORDWAY	31	7	.6	1.8	58.5
GUTHRIE	32	18	1.4	4.3	62.7
CHANHASSEN	33	16	1.4	4.0	66.8
OLD LOG THEATRE	34	2	.2	.5	67.3
CHILDRENS THEATRE	35	1	.1	.3	67.5
CARLTON THEATRE	36	1	.0	.1	67.6
MUSEUMS	40	1	.1	.3	67.9
SCIENCE MUSEUM	41	6	.5	1.5	69.4
OMNI THEATRE	42	1	.0	.1	69.5
SHOPPING	50	43	3.6	10.5	80.1
ZOOS	60	2	.2	.5	80.6
COMO ZOO	61	4	.3	.9	81.4
MINNESOTA ZOO	62	3	.3	.8	82.2
RIVERFEST	71	1	.0	.1	82.3
STATE FAIR	73	10	.8	2.4	84.7
FESTIVAL OF NATIONS	74	2	.1	.4	85.1
VALLEYFAIR	75	7	.6	1.8	86.8
WINTER CARNIVAL	76	1	.0	.1	87.0
RENAISSANCE FESTIVAL	77	2	.2	.5	87.5
OTHER	80	40	3.3	9.7	97.1
CAR SHOWS	82	1	.1	.3	97.4
CANTERBURY DOWNS	83	4	.3	1.0	98.4
ROCK CONCERTS	84	7	.6	1.6	100.0
	99	798	66.0	MISSING	
TOTAL		1209	100.0	100.0	

Valid Cases 411 Missing Cases 798

APPENDIX B
CONTINUOUS VARIABLES

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
I1	What county do you live in	B-2
I3	What is your ZIP code	B-4
I11	What year were you born	B-10
AGE	Age of respondent	B-12
I15	How many people living in your household	B-13
I17	Number of people under 18 years in in your household	B-14
I20	Number of persons contributed to 1987 income	B-14

11 WHAT COUNTY DO YOU LIVE IN

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
AITKIN	1	1	.1	.1	.1
ANOKA	2	67	5.5	5.5	5.6
BECKER	3	10	.8	.8	6.4
BELTRAMI	4	8	.7	.7	7.1
BENTON	5	18	1.5	1.5	8.6
BLUE EARTH	7	12	1.0	1.0	9.6
CARLTON	9	12	1.0	1.0	10.6
CARVER	10	12	1.0	1.0	11.6
CASS	11	5	.4	.4	12.0
CHIPPEWA	12	6	.5	.5	12.5
CHISAGO	13	6	.5	.5	13.0
CLAY	14	16	1.4	1.4	14.4
CLEARWATER	15	2	.2	.2	14.5
COTTONWOOD	17	8	.6	.6	15.2
CROW WING	18	10	.9	.9	16.0
DAKOTA	19	61	5.1	5.1	21.1
DODGE	20	3	.3	.3	21.4
DOUGLAS	21	9	.7	.7	22.1
FARIBAULT	22	6	.5	.5	22.5
FILLMORE	23	2	.1	.1	22.7
FREEBORN	24	14	1.2	1.2	23.8
GOODHUE	25	15	1.2	1.2	25.1
GRANT	26	2	.2	.2	25.2
HENNEPIN	27	277	22.9	22.9	48.2
HOUSON	28	4	.3	.3	48.5
HUBBARD	29	6	.5	.5	49.0
ISANTI	30	7	.6	.6	49.6
ITASCA	31	10	.9	.9	50.5
JACKSON	32	4	.3	.3	50.8
KANABEC	33	1	.1	.1	50.9
KANDIYOHI	34	11	.9	.9	51.8
KITTSOON	35	2	.2	.2	52.0
KOOCHICHING	36	10	.8	.8	52.8
LAC QUI PARLE	37	3	.3	.3	53.1
LAKE	38	1	.0	.0	53.1
LAKE OF THE WOODS	39	1	.1	.1	53.2
LE SUEUR	40	12	1.0	1.0	54.2
LINCOLN	41	2	.2	.2	54.3
LYON	42	9	.7	.7	55.1
MCLEOD	43	15	1.2	1.2	56.3
MARSHALL	45	4	.3	.3	56.6
MARTIN	46	9	.7	.7	57.4
MEEKER	47	5	.4	.4	57.8
MILLE LACS	48	3	.3	.3	58.1
MORRISON	49	7	.6	.6	58.6
MOWER	50	10	.9	.9	59.5
MURRAY	51	2	.1	.1	59.6
NICOLLET	52	10	.9	.9	60.4
NOBLES	53	4	.3	.3	60.8
NORMAN	54	1	.1	.1	60.9
OLMSTED	55	40	3.3	3.3	64.2

I1 WHAT COUNTY DO YOU LIVE IN, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
OTTER TAIL	56	16	1.3	1.3	65.5
PENNINGTON	57	4	.3	.3	65.8
PINE	58	3	.2	.2	66.0
PIPESTONE	59	2	.1	.1	66.1
POLK	60	5	.4	.4	66.5
POPE	61	1	.0	.0	66.6
RAMSEY	62	130	10.8	10.8	77.4
RED LAKE	63	1	.1	.1	77.5
REDWOOD	64	4	.3	.3	77.8
RENVILLE	65	6	.5	.5	78.3
RICE	66	13	1.1	1.1	79.4
ROCK	67	3	.3	.3	79.6
ROSEAU	68	4	.3	.3	80.0
ST. LOUIS	69	61	5.0	5.0	85.0
SCOTT	70	12	1.0	1.0	86.0
SHERBURNE	71	9	.8	.8	86.7
SIBLEY	72	4	.3	.3	87.0
STEARNS	73	31	2.6	2.6	89.6
STEELE	74	9	.8	.8	90.4
STEVENS	75	4	.3	.3	90.7
SWIFT	76	3	.3	.3	91.0
TODD	77	5	.4	.4	91.4
TRAVERSE	78	2	.2	.2	91.6
WABASHA	79	6	.5	.5	92.0
WADENA	80	3	.2	.2	92.2
WASECA	81	9	.7	.7	93.0
WASHINGTON	82	48	4.0	4.0	96.9
WATONWAN	83	3	.3	.3	97.2
WILKIN	84	1	.1	.1	97.3
WINONA	85	16	1.3	1.3	98.6
WRIGHT	86	13	1.1	1.1	99.7
YELLOW MEDICINE	87	4	.3	.3	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	
Valid Cases	1209	Missing Cases	0		

I3

WHAT IS YOUR ZIP CODE

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	55001	2	.2	.2	.2
	55007	1	.1	.1	.3
	55008	3	.3	.3	.5
	55009	3	.2	.2	.7
	55011	1	.1	.1	.8
	55013	1	.1	.1	.9
	55014	10	.8	.8	1.7
	55016	10	.9	.9	2.6
	55018	1	.1	.1	2.7
	55021	9	.8	.8	3.4
	55025	3	.2	.2	3.6
	55027	1	.0	.0	3.7
	55033	4	.3	.3	4.0
	55038	2	.2	.2	4.2
	55040	2	.1	.1	4.3
	55041	3	.3	.3	4.5
	55042	1	.1	.1	4.6
	55043	6	.5	.5	5.1
	55044	9	.8	.8	5.9
	55045	1	.1	.1	6.0
	55055	3	.3	.3	6.2
	55056	2	.2	.2	6.4
	55057	3	.3	.3	6.6
	55060	7	.6	.6	7.2
	55063	1	.1	.1	7.3
	55066	6	.5	.5	7.8
	55068	6	.5	.5	8.3
	55069	1	.1	.1	8.4
	55070	1	.1	.1	8.5
	55071	1	.1	.1	8.6
	55073	1	.1	.1	8.6
	55075	11	.9	.9	9.6
	55079	2	.1	.1	9.7
	55080	2	.1	.1	9.8
	55082	8	.7	.7	10.5
	55085	1	.1	.1	10.6
	55090	1	.1	.1	10.7
	55092	1	.1	.1	10.8
	55101	4	.3	.3	11.1
	55102	3	.3	.3	11.3
	55103	4	.3	.3	11.6
	55104	14	1.2	1.2	12.8
	55105	10	.8	.8	13.6
	55106	15	1.3	1.3	14.9
	55107	2	.2	.2	15.1
	55109	9	.8	.8	15.8
	55110	12	1.0	1.0	16.8
	55112	13	1.1	1.1	17.9
	55113	9	.8	.8	18.7
	55115	1	.1	.1	18.8
	55116	9	.8	.8	19.6
	55117	6	.5	.5	20.0
	55118	6	.5	.5	20.5
	55119	10	.9	.9	21.4
	55121	1	.1	.1	21.4
	55122	2	.1	.1	21.6
	55123	4	.3	.3	21.9
	55124	6	.5	.5	22.4
	55125	3	.3	.3	22.6

I3 WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	55126	13	1.1	1.1	23.7
	55127	2	.1	.1	23.8
	55302	2	.1	.1	24.0
	55303	10	.9	.9	24.8
	55304	4	.3	.3	25.1
	55308	2	.1	.1	25.3
	55309	2	.2	.2	25.4
	55312	1	.1	.1	25.5
	55313	4	.3	.3	25.9
	55314	1	.0	.0	25.9
	55315	2	.1	.1	26.0
	55316	3	.3	.3	26.3
	55317	2	.2	.2	26.5
	55318	3	.3	.3	26.7
	55322	2	.1	.1	26.8
	55328	1	.1	.1	26.9
	55330	3	.3	.3	27.2
	55331	3	.3	.3	27.4
	55332	1	.1	.1	27.5
	55334	1	.1	.1	27.6
	55335	2	.1	.1	27.7
	55336	3	.2	.2	28.0
	55337	13	1.1	1.1	29.0
	55342	1	.1	.1	29.1
	55343	10	.9	.9	30.0
	55345	5	.4	.4	30.4
	55346	7	.6	.6	31.0
	55347	7	.6	.6	31.5
	55350	6	.5	.5	32.0
	55355	4	.3	.3	32.3
	55356	2	.1	.1	32.4
	55357	2	.2	.2	32.6
	55359	2	.1	.1	32.7
	55362	2	.2	.2	32.9
	55364	4	.3	.3	33.2
	55369	11	.9	.9	34.2
	55371	3	.3	.3	34.4
	55372	6	.5	.5	34.9
	55373	1	.1	.1	35.0
	55376	2	.2	.2	35.2
	55378	5	.4	.4	35.6
	55381	2	.2	.2	35.7
	55384	1	.1	.1	35.8
	55385	2	.2	.2	36.0
	55388	3	.3	.3	36.3
	55391	4	.3	.3	36.6
	55395	2	.2	.2	36.7
	55396	1	.1	.1	36.8
	55398	2	.2	.2	37.0
	55402	1	.1	.1	37.1
	55403	4	.3	.3	37.4
	55404	3	.3	.3	37.6
	55405	2	.2	.2	37.8
	55406	13	1.1	1.1	38.9
	55407	15	1.2	1.2	40.2
	55408	7	.6	.6	40.7
	55409	6	.5	.5	41.2
	55410	11	.9	.9	42.1
	55411	5	.4	.4	42.5

I3 WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	55412	8	.7	.7	43.2
	55413	4	.3	.3	43.5
	55414	5	.4	.4	43.9
	55416	5	.4	.4	44.3
	55417	8	.7	.7	45.0
	55418	5	.4	.4	45.4
	55419	4	.3	.3	45.7
	55420	5	.4	.4	46.1
	55421	3	.3	.3	46.4
	55422	9	.7	.7	47.1
	55423	12	1.0	1.0	48.2
	55424	2	.2	.2	48.3
	55425	4	.3	.3	48.7
	55426	7	.6	.6	49.2
	55427	9	.8	.8	50.0
	55428	9	.8	.8	50.8
	55429	10	.8	.8	51.6
	55430	5	.4	.4	52.0
	55431	7	.6	.6	52.6
	55432	12	1.0	1.0	53.6
	55433	12	1.0	1.0	54.6
	55434	12	1.0	1.0	55.6
	55435	3	.2	.2	55.8
	55436	4	.3	.3	56.2
	55437	3	.2	.2	56.4
	55438	3	.3	.3	56.6
	55441	5	.4	.4	57.1
	55442	3	.2	.2	57.3
	55443	3	.2	.2	57.5
	55444	5	.4	.4	57.9
	55446	3	.3	.3	58.1
	55447	4	.3	.3	58.4
	55454	1	.1	.1	58.5
	55616	1	.0	.0	58.6
	55704	1	.0	.0	58.6
	55705	2	.2	.2	58.8
	55706	1	.0	.0	58.8
	55707	2	.1	.1	58.9
	55708	1	.1	.1	59.0
	55709	1	.1	.1	59.1
	55713	1	.1	.1	59.2
	55719	1	.1	.1	59.3
	55720	5	.4	.4	59.7
	55727	1	.1	.1	59.8
	55731	1	.1	.1	59.8
	55734	3	.3	.3	60.1
	55741	1	.1	.1	60.2
	55742	1	.0	.0	60.2
	55744	7	.6	.6	60.8
	55746	4	.3	.3	61.2
	55767	1	.0	.0	61.2
	55768	1	.0	.0	61.3
	55775	1	.0	.0	61.3
	55779	2	.1	.1	61.4
	55780	1	.1	.1	61.5
	55792	3	.2	.2	61.7
	55798	1	.1	.1	61.8
	55802	2	.1	.1	61.9
	55803	5	.4	.4	62.4

I3 WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	55804	6	.5	.5	62.8
	55805	7	.6	.6	63.4
	55806	4	.3	.3	63.7
	55807	6	.5	.5	64.2
	55808	1	.1	.1	64.3
	55810	3	.2	.2	64.5
	55811	5	.4	.4	64.9
	55812	1	.1	.1	65.0
	55901	8	.6	.6	65.6
	55902	4	.3	.3	65.9
	55904	21	1.7	1.7	67.6
	55912	10	.8	.8	68.5
	55917	1	.1	.1	68.5
	55920	1	.1	.1	68.6
	55921	2	.1	.1	68.8
	55925	1	.1	.1	68.8
	55929	1	.1	.1	68.9
	55932	2	.1	.1	69.0
	55940	1	.1	.1	69.1
	55941	1	.1	.1	69.2
	55943	1	.1	.1	69.3
	55944	2	.2	.2	69.5
	55946	1	.0	.0	69.5
	55949	1	.0	.0	69.6
	55951	1	.0	.0	69.6
	55956	1	.1	.1	69.7
	55960	1	.1	.1	69.8
	55963	1	.1	.1	69.9
	55974	1	.0	.0	69.9
	55975	1	.1	.1	70.0
	55976	3	.3	.3	70.2
	55981	2	.2	.2	70.4
	55987	15	1.2	1.2	71.7
	55992	1	.1	.1	71.7
	56001	14	1.2	1.2	72.9
	56007	11	.9	.9	73.8
	56013	3	.3	.3	74.1
	56017	2	.1	.1	74.2
	56019	1	.1	.1	74.3
	56021	1	.1	.1	74.4
	56027	1	.1	.1	74.5
	56031	8	.6	.6	75.1
	56036	3	.2	.2	75.3
	56046	1	.1	.1	75.4
	56048	1	.1	.1	75.5
	56050	2	.1	.1	75.6
	56055	2	.2	.2	75.8
	56058	3	.2	.2	76.0
	56071	6	.5	.5	76.5
	56072	1	.1	.1	76.6
	56073	1	.0	.0	76.6
	56074	1	.1	.1	76.7
	56081	3	.3	.3	77.0
	56082	4	.3	.3	77.3
	56085	3	.2	.2	77.5
	56091	1	.1	.1	77.6
	56093	6	.5	.5	78.1
	56096	2	.1	.1	78.2
	56097	1	.1	.1	78.3

I3 WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	56098	1	.0	.0	78.3
	56101	4	.3	.3	78.7
	56119	1	.1	.1	78.8
	56128	1	.1	.1	78.9
	56131	2	.1	.1	79.0
	56136	1	.1	.1	79.1
	56150	4	.3	.3	79.4
	56151	1	.1	.1	79.5
	56152	2	.2	.2	79.7
	56156	2	.2	.2	79.8
	56159	1	.1	.1	79.9
	56164	1	.0	.0	80.0
	56172	1	.0	.0	80.0
	56178	1	.1	.1	80.1
	56180	1	.1	.1	80.2
	56181	1	.1	.1	80.3
	56182	1	.1	.1	80.4
	56183	1	.0	.0	80.4
	56185	1	.0	.0	80.4
	56186	1	.1	.1	80.5
	56187	1	.1	.1	80.6
	56201	6	.5	.5	81.1
	56207	1	.1	.1	81.2
	56209	1	.1	.1	81.3
	56215	2	.2	.2	81.4
	56220	1	.0	.0	81.5
	56230	1	.1	.1	81.5
	56241	1	.1	.1	81.6
	56243	1	.0	.0	81.7
	56244	1	.0	.0	81.7
	56248	3	.3	.3	82.0
	56256	1	.1	.1	82.1
	56257	1	.1	.1	82.1
	56258	4	.3	.3	82.5
	56264	3	.3	.3	82.7
	56265	6	.5	.5	83.2
	56266	1	.1	.1	83.3
	56267	2	.1	.1	83.4
	56271	1	.1	.1	83.5
	56272	1	.1	.1	83.6
	56273	2	.2	.2	83.8
	56279	1	.1	.1	83.9
	56282	2	.1	.1	84.0
	56283	1	.1	.1	84.1
	56284	2	.2	.2	84.2
	56296	2	.2	.2	84.4
	56297	1	.1	.1	84.5
	56301	11	.9	.9	85.4
	56303	6	.5	.5	86.0
	56304	3	.2	.2	86.2
	56307	1	.1	.1	86.3
	56308	9	.7	.7	87.0
	56310	2	.1	.1	87.1
	56312	2	.2	.2	87.3
	56318	1	.1	.1	87.4
	56320	1	.1	.1	87.5
	56329	9	.8	.8	88.2
	56330	1	.1	.1	88.3
	56331	2	.2	.2	88.5

I3

WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	56334	1	.1	.1	88.6
	56336	1	.1	.1	88.7
	56340	2	.1	.1	88.8
	56345	4	.3	.3	89.1
	56347	3	.2	.2	89.3
	56353	1	.1	.1	89.4
	56358	1	.1	.1	89.5
	56361	1	.1	.1	89.6
	56364	1	.1	.1	89.6
	56367	2	.2	.2	89.8
	56368	1	.0	.0	89.9
	56373	1	.1	.1	89.9
	56374	1	.1	.1	90.0
	56378	3	.2	.2	90.2
	56379	4	.3	.3	90.6
	56381	1	.0	.0	90.6
	56401	8	.6	.6	91.3
	56431	1	.1	.1	91.4
	56438	1	.1	.1	91.4
	56441	1	.0	.0	91.5
	56448	1	.1	.1	91.6
	56450	1	.1	.1	91.7
	56461	2	.1	.1	91.8
	56467	3	.2	.2	92.0
	56470	2	.2	.2	92.2
	56473	1	.1	.1	92.3
	56474	1	.0	.0	92.3
	56477	1	.0	.0	92.3
	56479	2	.1	.1	92.5
	56482	1	.1	.1	92.6
	56484	1	.1	.1	92.6
	56501	6	.5	.5	93.1
	56510	1	.1	.1	93.2
	56520	1	.1	.1	93.3
	56529	2	.2	.2	93.5
	56531	1	.1	.1	93.5
	56534	1	.1	.1	93.6
	56537	10	.8	.8	94.4
	56544	2	.2	.2	94.6
	56547	1	.1	.1	94.7
	56549	2	.2	.2	94.9
	56560	10	.8	.8	95.7
	56567	2	.2	.2	95.8
	56569	1	.1	.1	95.9
	56572	1	.1	.1	96.0
	56585	1	.0	.0	96.1
	56588	1	.1	.1	96.1
	56601	7	.6	.6	96.7
	56621	2	.2	.2	96.9
	56623	1	.1	.1	97.0
	56627	2	.1	.1	97.1
	56630	1	.1	.1	97.2
	56633	2	.1	.1	97.3
	56636	2	.2	.2	97.5
	56649	6	.5	.5	98.0
	56653	1	.1	.1	98.1
	56660	2	.1	.1	98.2
	56662	1	.1	.1	98.3
	56701	2	.1	.1	98.4

I3 WHAT IS YOUR ZIP CODE, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	56714	1	.1	.1	98.5
	56716	2	.2	.2	98.7
	56721	2	.2	.2	98.8
	56725	1	.1	.1	98.9
	56728	1	.1	.1	99.0
	56735	1	.1	.1	99.1
	56738	1	.1	.1	99.2
	56750	1	.1	.1	99.3
	56751	3	.3	.3	99.5
	56754	1	.1	.1	99.6
	56757	2	.1	.1	99.7
	56758	1	.1	.1	99.8
	56762	2	.2	.2	100.0
REFUSE TO ANSWER	99999	5	.4	MISSING	
	TOTAL	1209	100.0	100.0	
Valid Cases	1204	Missing Cases	5		

I11 WHAT YEAR WERE YOU BORN

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1897	1	.0	.0	.0
	1899	1	.1	.1	.1
	1900	2	.2	.2	.3
	1901	1	.0	.0	.3
	1902	2	.2	.2	.5
	1903	3	.3	.3	.8
	1904	4	.3	.3	1.1
	1905	5	.4	.4	1.5
	1906	5	.4	.4	1.9
	1907	4	.3	.3	2.2
	1908	5	.4	.4	2.6
	1909	3	.3	.3	2.8
	1910	7	.6	.6	3.4
	1911	9	.8	.8	4.2
	1912	6	.5	.5	4.7
	1913	7	.6	.6	5.3
	1914	5	.4	.4	5.7
	1915	11	.9	.9	6.6
	1916	8	.6	.6	7.3
	1917	8	.7	.7	8.0
	1918	12	1.0	1.0	9.0
	1919	9	.8	.8	9.8
	1920	13	1.1	1.1	10.8
	1921	13	1.1	1.1	11.9
	1922	17	1.4	1.4	13.3
	1923	12	1.0	1.0	14.4
	1924	10	.9	.9	15.2
	1925	16	1.4	1.4	16.6
	1926	13	1.1	1.1	17.7
	1927	14	1.2	1.2	18.9
	1928	15	1.3	1.3	20.2
	1929	16	1.3	1.3	21.6
	1930	15	1.2	1.2	22.8
	1931	16	1.4	1.4	24.2

I11 WHAT YEAR WERE YOU BORN, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1932	11	.9	.9	25.1
	1933	16	1.3	1.3	26.5
	1934	23	1.9	1.9	28.4
	1935	19	1.5	1.5	30.0
	1936	12	1.0	1.0	31.0
	1937	19	1.6	1.6	32.5
	1938	19	1.6	1.6	34.1
	1939	16	1.3	1.3	35.5
	1940	13	1.1	1.1	36.6
	1941	22	1.8	1.8	38.4
	1942	16	1.4	1.4	39.8
	1943	13	1.1	1.1	40.9
	1944	16	1.4	1.4	42.2
	1945	10	.8	.8	43.0
	1946	27	2.2	2.2	45.3
	1947	18	1.5	1.5	46.8
	1948	24	2.0	2.0	48.8
	1949	27	2.2	2.2	51.1
	1950	20	1.7	1.7	52.7
	1951	29	2.4	2.5	55.2
	1952	37	3.0	3.1	58.2
	1953	38	3.1	3.1	61.4
	1954	33	2.8	2.8	64.2
	1955	37	3.0	3.1	67.2
	1956	32	2.6	2.7	69.9
	1957	30	2.5	2.5	72.4
	1958	29	2.4	2.4	74.9
	1959	27	2.2	2.2	77.1
	1960	34	2.8	2.8	79.9
	1961	31	2.6	2.6	82.5
	1962	37	3.1	3.1	85.6
	1963	18	1.5	1.5	87.1
	1964	25	2.0	2.1	89.2
	1965	19	1.5	1.5	90.7
	1966	22	1.8	1.9	92.6
	1967	11	.9	.9	93.5
	1968	22	1.8	1.8	95.3
	1969	28	2.3	2.3	97.6
	1970	28	2.3	2.4	100.0
REFUSE TO ANSWER	9999	12	1.0	MISSING	
	TOTAL	1209	100.0	100.0	
Valid Cases	1197	Missing Cases	12		

AGE AGE OF RESPONDENT

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	18.00	28	2.3	2.4	2.4
	19.00	28	2.3	2.3	4.7
	20.00	22	1.8	1.8	6.5
	21.00	11	.9	.9	7.4
	22.00	22	1.8	1.9	9.3
	23.00	19	1.5	1.5	10.8
	24.00	25	2.0	2.1	12.9
	25.00	18	1.5	1.5	14.4
	26.00	37	3.1	3.1	17.5
	27.00	31	2.6	2.6	20.1
	28.00	34	2.8	2.8	22.9
	29.00	27	2.2	2.2	25.1
	30.00	29	2.4	2.4	27.6
	31.00	30	2.5	2.5	30.1
	32.00	32	2.6	2.7	32.8
	33.00	37	3.0	3.1	35.8
	34.00	33	2.8	2.8	38.6
	35.00	38	3.1	3.1	41.8
	36.00	37	3.0	3.1	44.8
	37.00	29	2.4	2.5	47.3
	38.00	20	1.7	1.7	48.9
	39.00	27	2.2	2.2	51.2
	40.00	24	2.0	2.0	53.2
	41.00	18	1.5	1.5	54.7
	42.00	27	2.2	2.2	57.0
	43.00	10	.8	.8	57.8
	44.00	16	1.4	1.4	59.1
	45.00	13	1.1	1.1	60.2
	46.00	16	1.4	1.4	61.6
	47.00	22	1.8	1.8	63.4
	48.00	13	1.1	1.1	64.5
	49.00	16	1.3	1.3	65.9
	50.00	19	1.6	1.6	67.5
	51.00	19	1.6	1.6	69.0
	52.00	12	1.0	1.0	70.0
	53.00	19	1.5	1.5	71.6
	54.00	23	1.9	1.9	73.5
	55.00	16	1.3	1.3	74.9
	56.00	11	.9	.9	75.8
	57.00	16	1.4	1.4	77.2
	58.00	15	1.2	1.2	78.4
	59.00	16	1.3	1.3	79.8
	60.00	15	1.3	1.3	81.1
	61.00	14	1.2	1.2	82.3
	62.00	13	1.1	1.1	83.4
	63.00	16	1.4	1.4	84.8
	64.00	10	.9	.9	85.6
	65.00	12	1.0	1.0	86.7
	66.00	17	1.4	1.4	88.1
	67.00	13	1.1	1.1	89.2

AGE AGE OF RESPONDENT, CONT.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	68.00	13	1.1	1.1	90.2
	69.00	9	.8	.8	91.0
	70.00	12	1.0	1.0	92.0
	71.00	8	.7	.7	92.7
	72.00	8	.6	.6	93.4
	73.00	11	.9	.9	94.3
	74.00	5	.4	.4	94.7
	75.00	7	.6	.6	95.3
	76.00	6	.5	.5	95.8
	77.00	9	.8	.8	96.6
	78.00	7	.6	.6	97.2
	79.00	3	.3	.3	97.4
	80.00	5	.4	.4	97.8
	81.00	4	.3	.3	98.1
	82.00	5	.4	.4	98.5
	83.00	5	.4	.4	98.9
	84.00	4	.3	.3	99.2
	85.00	3	.3	.3	99.5
	86.00	2	.2	.2	99.7
	87.00	1	.0	.0	99.7
	88.00	2	.2	.2	99.9
	89.00	1	.1	.1	100.0
	91.00	1	.0	.0	100.0
	99.00	12	1.0	MISSING	
	TOTAL	1209	100.0	100.0	
Valid Cases	1197	Missing Cases	12		

I15 HOW MANY PEOPLE LIVING IN YOUR HOUSEHOLD

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
LIVE ALONE	1	117	9.7	9.7	9.7
	2	419	34.7	34.8	44.5
	3	245	20.2	20.3	64.8
	4	256	21.2	21.2	86.1
	5	116	9.6	9.7	95.7
	6	45	3.7	3.7	99.4
	7	5	.4	.4	99.8
	9	2	.2	.2	100.0
REFUSE TO ANSWER	99	3	.3	MISSING	
	TOTAL	1209	100.0	100.0	
Valid Cases	1206	Missing Cases	3		

I17 NUMBER OF PEOPLE UNDER 18 YEARS IN YOUR HOUSEHOLD

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1	210	17.3	19.3	19.3
	2	178	14.7	16.4	35.6
	3	92	7.6	8.5	44.1
	4	26	2.1	2.4	46.5
	5	1	.1	.1	46.6
	6	2	.2	.2	46.8
NONE	77	580	48.0	53.2	100.0
REFUSE TO ANSWER	99	120	9.9	MISSING	
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1089 Missing Cases 120

I20 NUMBER OF PERSONS CONTRIBUTED TO 1987 INCOME

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1	334	27.6	28.2	28.2
	2	737	61.0	62.4	90.6
	3	80	6.6	6.8	97.3
	4	24	2.0	2.0	99.4
	5	7	.6	.6	100.0
REFUSE TO ANSWER	99	26	2.2	MISSING	
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1183 Missing Cases 26

APPENDIX C:

Definitions of Constructed Variables in Data File

Certain variables have been constructed for the convenience of the user, and to aid interpretations of the variables used in this survey to summarize multi-variable composites, such as the respondent's employment status or household size. In this Appendix, the variables are operationally defined, and the SPSS-PC statements are presented which were used to construct each variable. The distributions for these variables are presented in Chapter 2 of this report.

Directory of Appendix C

<u>Variable</u>	<u>Definition</u>	<u>Page</u>
AGE	Age of respondent	C-2
AGEMD	Age of respondent, grouped	C-2
RACE	Race of respondent	C-2
GENDER	Gender of respondent	C-2
EDUC	Education of respondent	C-3
WKSTATUS	Work status of respondent	C-3
OCCGRP	Occupational work group of respondent	C-3
MARSTAT	Marital status of respondent	C-3
HHCOMP	Household composition	C-4
HHSIZE	Household size	C-4
NADULTS	Number of adults in household	C-4
NKIDS	Number of children in household	C-5
INCOME	Household income	C-5
HHWKSTAT	Household work status	C-5
HHOCCGRP	Household occupational work group	C-5
COUNTY	County of residence	C-6
DDREGION	Development district region	C-6
GEOREGN	Geographic region of Minnesota	C-6
METRO	Greater Minnesota or Twin Cities	C-7
WGHT	Case-weighting factor	C-7

AGE Age of respondent in years (uncollapsd).
This variable was constructed by subtracting the respondent's year of birth from 1988. Those who refused to give their year of birth were assigned a value of 99 and defined as missing.

COMPUTE AGE = 1988 - I11.
IF (I11 = 8888 OR I11 = 9999)AGE = 99.
MISSING VALUES AGE(99).
VARIABLE LABELS AGE 'AGE OF RESPONDENT'.

AGEMD Age of respondent in years, collapsed into 6 midpoint categories. This variable recodes AGE so that 18 through 24 year olds are in group 1, 25 through 34 year olds are in group 2, 35 through 44 year olds are in group 3, 45 through 54 year olds are in group 4, 55 through 64 year olds are in group 5, and those 65 and older are in group 6. Those refusing to give their ages were assigned to category 99.

COMPUTE AGEMD=AGE.
RECODE AGEMD(10 THRU 24=1) (25 THRU 34=2) (35 THRU 44=3) (45 THRU 54=4)
(55 THRU 64=5) (65 THRU 98=6) (SYSMIS=99).
MISSING VALUES AGEMD(99).
VARIABLE LABELS AGEMD 'AGE OF RESPONDENT, GROUPED'.
VALUE LABELS AGEMD 1 '18 - 24' 2 '25 - 34' 3 '35 - 44' 4 '45 - 54' 5 '55 - 64'
6 '65 AND OLDER'.

RACE Respondent's self-reported racial or ethnic background. The original variable I12 was recoded into standard Census categories, where white, black, mexican/hispanic, and American Indians are broken out, and the other individuals are combined into an 'other' category.

COMPUTE RACE = I12.
RECODE RACE(1=1) (2=4) (3=2) (4=3) (5 THRU 7=5) (8=9).
MISSING VALUES RACE(9).
VARIABLE LABELS RACE 'RACE OF RESPONDENT'.
VALUE LABELS RACE 1 'WHITE' 2 'BLACK' 3 'INDIAN' 4 'HISPANIC' 5 'OTHER'.

GENDER Gender of respondent. This variable is merely the I21 (gender) variable set to a new name for the convenience of the datafile users.

COMPUTE GENDER = I21.
VARIABLE LABELS GENDER 'GENDER OF RESPONDENT'.
VALUE LABELS GENDER 1 'MALE' 2 'FEMALE'.

EDUC Educational level of respondent. This variable is merely the I9 (education) variable set to a new name for the convenience of the data file users.

```

COMPUTE EDUC = I9.
RECODE EDUC(88,99=0).
MISSING VALUES EDUC(0).
VARIABLE LABELS EDUC 'EDUCATION OF RESPONDENT'.
VALUE LABELS EDUC 1 'LESS THAN HIGH SCHL' 2 'SOME HIGH SCHOOL'
3 'HIGH SCHOOL GRADUATE' 4 'SOME TECHNICAL SCHL'
5 'TECHNICAL SCHL GRAD' 6 'SOME COLLEGE'
7 'COLLEGE GRADUATE' 8 'GRAD OR PROF. DEGREE'
9 'OTHER'.

```

WKSTATUS Respondent's employment status. This variable was constructed from the working variables I14, I14A, and I14C1 through I14C4 and is prioritized so that those respondents who have more than one status, for example, women who have a part time job and who are housewives, are assigned to the working category status as opposed to the housewife (or retiree, student...) category. Fulltime workers are in WKSTATUS value 1; parttime workers are in WKSTATUS value 2; those who are unemployed are in group 3; individuals who are students and retirees and do not have paying jobs are in groups 4 and 5, respectively. Individuals who are homemakers and who do have have paying jobs outside the home are in group 6.

```

COMPUTE WKSTATUS = 9.
IF (I14 = 1)WKSTATUS = I14A.
IF (I14 <> 1 AND I14C4 = 1)WKSTATUS = 6.
IF (I14 <> 1 AND I14C1 = 1)WKSTATUS = 5.
IF (I14 <> 1 AND I14C3 = 1)WKSTATUS = 4.
IF (I14 <> 1 AND I14C2 = 1)WKSTATUS = 3.
RECODE WKSTATUS(8=9).
MISSING VALUES WKSTATUS(9).
VARIABLE LABELS WKSTATUS 'WORK STATUS OF RESPONDENT'.
VALUE LABELS WKSTATUS 1 'WORKED FULL TIME' 2 'WORKED PART TIME'
3 'UNEMPLOYED' 4 'STUDENT' 5 'RETIRED' 6 'HOMEMAKER'.

```

OCCGRP Respondent's occupational group, based on Census major divisions.

```

COMPUTE OCCGRP = I14B.
RECODE OCCGRP(0,8=9).
MISSING VALUES OCCGRP(9).
VARIABLE LABELS OCCGRP 'OCCUPATIONAL WORK GROUP OF RESPONDENT'.
VALUE LABELS OCCGRP 1 'MANAGE,PROF' 2 'TECH,SALES,ADMINISTR' 3 'SERVICE'
4 'FARM,FISH,FOREST' 5 'CRAFT,REPAIR' 6 'OPERATIVES,LABORERS'.

```

MARSTAT Marital status of respondent.

```

COMPUTE MARSTAT = I10.
RECODE MARSTAT(8,9=0).
MISSING VALUES MARSTAT(0).
VARIABLE LABELS MARSTAT 'MARITAL STATUS OF RESPONDENT'.
VALUE LABELS MARSTAT 1 'MARRIED' 2 'SINGLE' 3 'DIVORCED'
4 'SEPARATED' 5 'WIDOWED'.

```

HHCOMP

Household composition, marital status of respondent. This variable is constructed from the marital status of the respondent, and the number of children reported living in the household. Respondents who were married, and had children living in the home were assigned a value of 1. Those who were married, and had no children living in the home were assigned a value of 2. Individuals who were divorced, separated, widowed, or single, and who had children in the home were assigned a value of 3. Singles without children were assigned a 4.

```

COMPUTE TEMPVAR = I10.
RECODE TEMPVAR(3,4,5 = 2).
IF ((TEMPVAR = 1) AND (I17 = 0 OR I17 = 77))HHCOMP = 2.
IF ((TEMPVAR = 1) AND ((I17 GE 1) AND (I17 LE 60)))HHCOMP = 1.
IF ((TEMPVAR = 2) AND (I17 = 0 OR I17 = 77))HHCOMP = 4.
IF ((TEMPVAR = 2) AND ((I17 GE 1) AND (I17 LE 60)))HHCOMP = 3.
IF (TEMPVAR GE 8)HHCOMP = 9.
IF (I17 GE 88)HHCOMP = 9.
MISSING VALUES HHCOMP(9).
VARIABLE LABELS HHCOMP 'HOUSEHOLD COMPOSITION'.
VALUE LABELS HHCOMP 1 'MARRIED, KIDS' 2 'MARRIED, NO KIDS' 3 'SINGLE PARENT'
4 'SINGLE, NO KIDS'.

```

HHSIZE

The total number of people reported to be living in the household. This variable is derived from I15, and recoded so that the value 3 represents households with 3 or 4 persons living in the household, and value 4 represents those households in which more than 4 persons live.

```

COMPUTE HHSIZE = I15.
RECODE HHSIZE (3,4 = 3)(5 THRU 30 = 4)(88,99 = 9).
MISSING VALUES HHSIZE(9).
VARIABLE LABELS HHSIZE 'HOUSEHOLD SIZE'.
VALUE LABELS HHSIZE 1 'ONE PERSON' 2 'TWO PEOPLE' 3 '3 OR 4 PEOPLE'
4 '5 OR MORE PEOPLE'.

```

NADULTS

The number of adult members living in the respondent's household, including him/her self. This variable was constructed by taking the total number of individuals living in the household (I15), and subtracting the total number of children (18 or younger) reported to be living in the household (I17). Since this variable was used in the construction of the weighting variable, the few missing cases were assigned to the 1 category.

```

COMPUTE TEMPVAR = I17.
RECODE TEMPVAR (77 = 0).
COMPUTE NADULTS = I15 - TEMPVAR.
IF (I15 GE 88 OR I17 GE 88)NADULTS = 1.
VARIABLE LABELS NADULTS 'NUMBER OF ADULTS IN HOUSEHOLD'.

```

NKIDS The number of household members who are under 18 years of age.

COMPUTE NKIDS = I17.
 RECODE NKIDS (77 = 0)(88,99 = 99).
 MISSING VALUE NKIDS(99).
 VARIABLE LABELS NKIDS 'NUMBER OF CHILDREN IN HOUSEHOLD'.

INCOME Reported household income level for 1987. This variable represents a composite of questions I19 through I19B. The categories of INCOME are those under I19, I19A, and I19B.

COMPUTE INCOME = 99.
 IF (I19 = 1)INCOME = I19A.
 IF (I19 = 2)INCOME = I19B.
 RECODE INCOME (88=99).
 MISSING VALUES INCOME(99).
 VARIABLE LABELS INCOME 'HOUSEHOLD INCOME'.
 VALUE LABELS INCOME 5 'UNDER 5,000' 10 '5 TO 10,000' 15 '10 TO 15,000'
 20 '15 TO 20,000' 25 '20 TO 25,000' 30 '25 TO 30,000'
 35 '30 TO 35,000' 40 '35 TO 40,000' 50 '40 TO 50,000'
 60 '50 TO 60,000' 61 'MORE THAN 60,000'.

HHWKSTAT Head of household's employment status. The variable is set equal to WKSTATUS if I18 is 1, that is, the respondent contributed most to the household income. If someone else contributed most to the household income, HHWKSTAT is calculated in the same way as WKSTATUS except using the variables I18A, I18A1, and I18A3A through I18A3D.

COMPUTE HHWKSTAT = 9.
 IF (I18A = 1)HHWKSTAT = I18A1.
 IF (I18A <> 1 AND I18A3D = 1)HHWKSTAT = 6.
 IF (I18A <> 1 AND I18A3A = 1)HHWKSTAT = 5.
 IF (I18A <> 1 AND I18A3C = 1)HHWKSTAT = 4.
 IF (I18A <> 1 AND I18A3B = 1)HHWKSTAT = 3.
 RECODE HHWKSTAT(8=9).
 MISSING VALUES HHWKSTAT(9).
 IF (I18 = 1 AND NOT MISSING(WKSTATUS))HHWKSTAT=WKSTATUS.
 VARIABLE LABELS HHWKSTAT 'HOUSEHOLD WORK STATUS'.
 VALUE LABELS HHWKSTAT 1 'WORKED FULL TIME' 2 'WORKED PART TIME' 3 'UNEMPLOYED'
 4 'STUDENT' 5 'RETIRED' 6 'HOMEMAKER'.

HHOCCGRP Head of household's occupational group, based on Census major divisions.

COMPUTE HHOCCGRP = I18A2.
 RECODE HHOCCGRP(0,8=9).
 MISSING VALUES HHOCCGRP(9).
 IF (I18 = 1 AND NOT MISSING(OCCGRP))HHOCCGRP=OCCGRP.
 VARIABLE LABELS HHOCCGRP 'HOUSEHOLD OCCUPATIONAL WORK GROUP'.
 VALUE LABELS HHOCCGRP 1 'MANAGE, PROF' 2 'TECH, SALES, ADMINISTR' 3 'SERVICE'
 4 'FARM, FISH, FOREST' 5 'CRAFT, REPAIR' 6 'OPERATIVES, LABORERS'.

COUNTY County in which the respondent reports living.
COUNTY is an unrecoded duplicate of question I1.

COMPUTE COUNTY = I1.

RECODE COUNTY(88=99).

MISSING VALUES COUNTY(99).

VARIABLE LABELS COUNTY 'COUNTY OF RESIDENCE'.

VALUE LABELS COUNTY 1 'AITKIN' 2 'ANOKA' 3 'BECKER' 4 'BELTRAMI' 5 'BENTON'
6 'BIG STONE' 7 'BLUE EARTH' 8 'BROWN' 9 'CARLTON' 10 'CARVER' 11 'CASS'
12 'CHIPPEWA' 13 'CHISAGO' 14 'CLAY' 15 'CLEARWATER' 16 'COOK' 17 'COTTONWOOD'
18 'CROW WING' 19 'DAKOTA' 20 'DODGE' 21 'DOUGLAS' 22 'FARIBAULT'
23 'FILLMORE' 24 'FREEBORN' 25 'GOODHUE' 26 'GRANT' 27 'HENNEPIN'
28 'HOUSON' 29 'HUBBARD' 30 'ISANTI' 31 'ITASCA' 32 'JACKSON' 33 'KANABEC'
34 'KANDIYOHI' 35 'KITTSOON' 36 'KOOCHICHING' 37 'LAC QUI PARLE' 38 'LAKE'
39 'LAKE OF THE WOODS' 40 'LE SUEUR' 41 'LINCOLN' 42 'LYON' 43 'MCLEOD'
44 'MAHNOHEN' 45 'MARSHALL' 46 'MARTIN' 47 'MEEKER' 48 'MILLE LACS'
49 'MORRISON' 50 'MOWER' 51 'MURRAY' 52 'NICOLLET' 53 'NOBLES' 54 'NORMAN'
55 'OLMSTED' 56 'OTTER TAIL' 57 'PENNINGTON' 58 'PINE' 59 'PIPESTONE'
60 'POLK' 61 'POPE' 62 'RAMSEY' 63 'RED LAKE' 64 'REDWOOD' 65 'RENVILLE'
66 'RICE' 67 'ROCK' 68 'ROSEAU' 69 'ST. LOUIS' 70 'SCOTT' 71 'SHERBURNE'
72 'SIBLEY' 73 'STEARNS' 74 'STEELE' 75 'STEVENS' 76 'SWIFT' 77 'TODD'
78 'TRAVERSE' 79 'WABASHA' 80 'WADENA' 81 'WASECA' 82 'WASHINGTON'
83 'WATONWAN' 84 'WILKIN' 85 'WINONA' 86 'WRIGHT' 87 'YELLOW MEDICINE'.

DDREGION Development District or Financial Planning Region in the State of Minnesota. The state is divided geographically into 13 regions, where district 11 represents the seven county metro area. The variable is constructed through recoding the county variable (I1) into the appropriate region. Non-responses to the county variable were assigned a missing code of 99.

COMPUTE DDREGION=COUNTY.

RECODE DDREGION (35,45,54,57,60,63,68=1) (4,15,29,39,44=2)
(1,9,16,31,36,38,69,72=3) (3,14,21,26,56,61,75,78,84=4)
(11,18,49,77,80=5) (34,43,47,65=6) (6,12,37,76,87=7)
(13,30,33,48,58=8) (5,71,73,86=9) (17,32,41,42,51,53,59,64,67=10)
(7,8,22,40,46,52,71,81,83=11) (20,23,24,25,28,50,55,66,74,79,85=12)
(2,10,19,27,62,70,82=13) (SYSMIS = 99).

MISSING VALUES DDREGION(99).

VARIABLE LABELS DDREGION 'DEVELOPMENT DISTRICT REGION'.

VALUE LABELS DDREGION 1 'DISTRICT 1' 2 'DISTRICT 2' 3 'DISTRICT 3'
4 'DISTRICT 4' 5 'DISTRICT 5' 6 'DISTRICT 6E' 7 'DISTRICT 6W'
8 'DISTRICT 7E' 9 'DISTRICT 7W' 10 'DISTRICT 8' 11 'DISTRICT 9'
12 'DISTRICT 10' 13 'DISTRICT 11'.

GEOREGN Geographic area of household. Recoded version of DDREGION, so that state is broken up into six areas, as follows: Northwest (regions 1,2); Northeast (region 3); Central (regions 4 through 7W); Southwest (regions 8,9); Southeast (region 10); Metro (region 11).

COMPUTE GEOREGN=DDREGION.

RECODE GEOREGN (1,2=1) (3=2) (4 THRU 9=3) (10,11=4) (12=5) (13=6) (SYSMIS=9).

MISSING VALUES GEOREGN(9).

VARIABLE LABELS GEOREGN 'GEOGRAPHIC REGION OF MINNESOTA'.

VALUE LABELS GEOREGN 1 'NORTHWEST' 2 'NORTHEAST' 3 'CENTRAL' 4 'SOUTHWEST'
5 'SOUTHEAST' 6 'METRO'.

METRO

Respondent's area of residence is in the Twin Cities Metro Area or outside the metro area. Respondents living in DDREGION code (13), actually District #11, were assigned to value 2, Twin Cities area residents, while others were assigned to value 1.

COMPUTE METRO=DDREGION.

RECODE METRO (13=2) (SYSMIS=99) (ELSE=1).

MISSING VALUES METRO(99).

VARIABLE LABELS METRO 'GREATER MINNESOTA OR TWIN CITIES AREA'.

VALUE LABELS METRO 2 'TWIN CITIES AREA' 1 'GREATER MINNESOTA'.

WGHT

Case-weighting factor to adjust for household size bias. This variable weights each respondent's representation in the sample according to the number of adult members living in the household, with the purpose being to down-weight respondents living in one-adult households, and up-weight those living in two or more person households. The weighting factor was derived by looking at a frequency of NADULTS in UNWEIGHTED form, and making the following computation:

VALUE		FREQUENCY (n)		PRODUCT
1	x	n	=	x
2	x	n	=	nn
3	x	n	=	nnn
4	x	n	=	nnnn
5	x	n	=	nnnnn
6	x	n	=	nnnnnn
7	x	n	=	nnnnnnn
8	x	n	=	nnnnnnnn
		SUM		nnnnnnnnn

Weighting factor = sampling size (1209)/sum of NADULTS.

For the MFS sample the weighting factor is 0.515345286. Each respondent is assigned a case weight by multiplying his/her value of NADULTS by this weighting factor. This is accomplished in SPSS-PC by the following statements:

COMPUTE WGHT=(NADULTS * 0.515345286)

WEIGHT BY WGHT

MSS-88.APC

APPENDIX D

ADMINISTRATIVE VARIABLES

Two administrative variables were included in the data file for methodological purposes. The first of these variables, FORM, was included to identify different versions of the survey based on variations in the first response category for Question B1. The order of response categories was always the same. However, on Form 1 the first category was composting, on Form 2 the first category was incineration, etc.

The second of these variables, HRS, was included to identify the random start item in Section H, the education questions. While the random start location identified the first item that was read to respondents, the second item read to respondents was the one below it on the list. When the end of the list was reached, the interviewer simply went back up to the top of the list and continued until all items had been asked.

<u>VARIABLE</u>	<u>DESCRIPTION</u>	<u>PAGE</u>
DOC	Date of completion	D-2
MIN	Number of minutes to complete survey	D-3
IID	Interviewer identification number	D-4
CON	Number of contacts	D-5
SAM	Sample survey was from	D-5
RCONV	Refusal conversion	D-5
CID	Coder identification number	D-6
FORM	Which form is used	D-6
HRS	Random start section H	D-6

DOC DATE OF COMPLETION

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	102	1	.1	.1	.1
	103	16	1.3	1.3	1.4
	104	14	1.2	1.2	2.6
	105	14	1.2	1.2	3.8
	106	6	.5	.5	4.3
	107	22	1.8	1.8	6.1
	108	7	.6	.6	6.6
	109	15	1.3	1.3	7.9
	110	9	.8	.8	8.7
	111	14	1.2	1.2	9.8
	112	10	.9	.9	10.7
	1110	22	1.8	1.8	12.5
	1112	23	1.9	1.9	14.4
	1113	19	1.5	1.5	15.9
	1114	31	2.6	2.6	18.5
	1115	43	3.5	3.5	22.0
	1116	51	4.2	4.2	26.2
	1117	51	4.2	4.2	30.4
	1118	2	.2	.2	30.6
	1119	57	4.7	4.7	35.3
	1120	60	4.9	4.9	40.3
	1121	58	4.8	4.8	45.1
	1122	55	4.6	4.6	49.6
	1123	12	1.0	1.0	50.6
	1127	25	2.1	2.1	52.7
	1128	44	3.7	3.7	56.4
	1129	31	2.6	2.6	59.0
	1130	28	2.3	2.3	61.3
	1201	29	2.4	2.4	63.7
	1203	48	4.0	4.0	67.7
	1204	35	2.9	2.9	70.6
	1205	31	2.6	2.6	73.2
	1206	9	.7	.7	73.9
	1207	14	1.2	1.2	75.1
	1208	9	.7	.7	75.8
	1210	2	.2	.2	76.0
	1211	5	.4	.4	76.4
	1212	25	2.0	2.0	78.4
	1213	15	1.3	1.3	79.7
	1214	32	2.6	2.6	82.4
	1215	19	1.6	1.6	83.9
	1216	5	.4	.4	84.4
	1217	11	.9	.9	85.3
	1218	23	1.9	1.9	87.2
	1219	19	1.6	1.6	88.7
	1220	26	2.2	2.2	90.9
	1221	20	1.7	1.7	92.6
	1222	37	3.0	3.0	95.6
	1223	2	.1	.1	95.7
	1227	21	1.7	1.7	97.5
	1228	19	1.5	1.5	99.0
	1229	12	1.0	1.0	100.0
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

MIN NUMBER OF MINUTES TO COMPLETE SURVEY

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	5	2	.2	.2	.2
	6	7	.6	.6	.7
	7	9	.7	.7	1.4
	8	20	1.6	1.6	3.1
	9	39	3.2	3.2	6.3
	10	110	9.1	9.1	15.4
	11	65	5.4	5.4	20.8
	12	81	6.7	6.7	27.5
	13	80	6.6	6.6	34.1
	14	103	8.5	8.5	42.7
	15	124	10.2	10.2	52.9
	16	82	6.8	6.8	59.7
	17	82	6.8	6.8	66.5
	18	57	4.7	4.7	71.2
	19	50	4.1	4.1	75.3
	20	90	7.4	7.4	82.7
	21	33	2.7	2.7	85.5
	22	20	1.6	1.6	87.1
	23	20	1.7	1.7	88.7
	24	26	2.1	2.1	90.9
	25	27	2.2	2.2	93.1
	26	5	.4	.4	93.5
	27	6	.5	.5	94.0
	28	7	.6	.6	94.6
	29	9	.7	.7	95.3
	30	10	.8	.8	96.1
	31	3	.2	.2	96.3
	32	8	.7	.7	97.0
	33	5	.4	.4	97.4
	34	4	.3	.3	97.7
	35	3	.3	.3	98.0
	36	7	.6	.6	98.6
	37	2	.1	.1	98.7
	38	1	.1	.1	98.8
	40	5	.4	.4	99.1
	41	1	.1	.1	99.2
	42	2	.1	.1	99.4
	43	1	.1	.1	99.4
	46	1	.1	.1	99.5
	48	1	.1	.1	99.6
	50	1	.0	.0	99.7
	51	1	.0	.0	99.7
	52	1	.1	.1	99.8
	56	1	.0	.0	99.8
	65	1	.1	.1	99.9
	66	1	.1	.1	100.0
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

IID INTERVIEWER IDENTIFICATION NUMBER

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	2	40	3.3	3.3	3.3
	4	53	4.3	4.3	7.7
	5	25	2.0	2.0	9.7
	7	90	7.5	7.5	17.2
	8	25	2.1	2.1	19.3
	10	32	2.6	2.6	21.9
	13	22	1.8	1.8	23.7
	14	77	6.4	6.4	30.1
	15	96	8.0	8.0	38.1
	16	38	3.1	3.1	41.2
	17	22	1.8	1.8	43.0
	18	11	.9	.9	43.9
	19	46	3.8	3.8	47.7
	22	10	.9	.9	48.6
	23	31	2.6	2.6	51.2
	24	10	.9	.9	52.0
	25	25	2.0	2.0	54.0
	26	20	1.6	1.6	55.7
	29	39	3.2	3.2	58.9
	30	81	6.7	6.7	65.6
	31	32	2.6	2.6	68.2
	32	61	5.0	5.0	73.3
	33	47	3.9	3.9	77.2
	36	16	1.4	1.4	78.6
	42	20	1.7	1.7	80.2
	45	16	1.4	1.4	81.6
	46	40	3.3	3.3	84.9
	47	35	2.9	2.9	87.8
	48	32	2.7	2.7	90.5
	51	30	2.5	2.5	93.0
	56	25	2.1	2.1	95.1
	59	26	2.2	2.2	97.3
	62	33	2.7	2.7	100.0
	TOTAL	1209	100.0	100.0	
Valid Cases	1209	Missing Cases	0		

CON NUMBER OF CONTACTS

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1	536	44.4	44.4	44.4
	2	282	23.4	23.4	67.7
	3	133	11.0	11.0	78.8
	4	95	7.8	7.8	86.6
	5	56	4.6	4.6	91.2
	6	51	4.2	4.2	95.4
	7	10	.8	.8	96.2
	8	12	1.0	1.0	97.2
	9	8	.6	.6	97.9
	10	8	.7	.7	98.6
	11	2	.2	.2	98.7
	12	7	.6	.6	99.3
	13	3	.3	.3	99.5
	14	2	.2	.2	99.7
	15	1	.0	.0	99.7
	18	3	.3	.3	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	
Valid Cases	1209	Missing Cases	0		

SAM SAMPLE THE SURVEY WAS FROM

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
METRO AND STATE	1	608	50.3	50.3	50.3
OUTSTATE ONLY	3	601	49.7	49.7	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	
Valid Cases	1209	Missing Cases	0		

RCONV REFUSAL CONVERSION

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
YES	1	94	7.8	7.8	7.8
NO	2	1115	92.2	92.2	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	
Valid Cases	1209	Missing Cases	0		

CID CODER IDENTIFICATION NUMBER

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	3	51	4.2	4.2	4.2
	16	501	41.4	41.4	45.6
	36	331	27.4	27.4	73.0
	45	243	20.1	20.1	93.1
	62	73	6.0	6.0	99.1
	75	11	.9	.9	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

FORM WHICH FORM IS USED

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
FORM 1	1	305	25.2	25.2	25.2
FORM 2	2	303	25.1	25.1	50.3
	3	304	25.1	25.1	75.4
	4	297	24.6	24.6	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

HRS RANDOM START SECTION H

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	1	226	18.7	18.7	18.7
	2	193	15.9	15.9	34.7
	3	207	17.1	17.1	51.7
	4	182	15.0	15.0	66.8
	5	195	16.2	16.2	82.9
	6	206	17.1	17.1	100.0
		-----	-----	-----	
	TOTAL	1209	100.0	100.0	

Valid Cases 1209 Missing Cases 0

APPENDIX E: Administrative Forms

Appendix E contains brief explanations for the contact record disposition categories; and copies of the administrative forms used in the 1988 Twin Cities Area Survey and the Minnesota State Survey. There were two primary administrative forms: the contact record with callback/refusal forms on the back, and the introduction. Contact records were used to record the actual data and time of each attempted contact with a household, the interviewer ID, and the final outcome (disposition) of each attempted contact.

DIRECTORY OF APPENDIX E

<u>FORM</u>	<u>PAGE</u>
Contact record disposition categories	E-2
Contact Record	E-4
Callback/Refusal Form	E-5
Introduction	E-6
Statement of Professional Ethics	E-7

CONTACT RECORD DISPOSITION CATEGORIES

There were 12 possible disposition categories for each call that was made. A brief explanation for each of these disposition categories is presented below.

<u>Disposition</u>	<u>Explanation</u>
Complete	All questions in the interview schedule had been asked.
Partial	The interview schedule had been begun, but not completed. In such a case, interviewers were instructed to schedule an appointment to finish, and fill out the appointment for on the back of the callback record. If a respondent declined to complete the interview, the refusal form on the back of the callback record was filled out.
No answer/busy/machine	All attempts during a shift had resulted in the phone ringing six times without being answered. If no one in a household could be contacted on a minimum of 10 separate shifts, the telephone number was eliminated. Every attempt to contact the household during the shift had resulted in a busy signal.
Disconnected/not working	The number was not in operation.
Not home phone	The number was not for a residential phone.
R not available	The targeted respondent had been selected within the household, but would not be available to interview during the period of time in which interviewing was conducted. For example, if the respondent was out of town, or if they were not available between 9:30 a.m. and 9:30 p.m.
Physical/language problem	Respondent had been selected, but could not complete the interview, for example, because they were ill, were hearing impaired, or developmentally disabled.
Refusal and second refusal	Someone in the household declined to participate. The person who refused could have been any member of the household. Interviewers were instructed to complete the refusal form and to attach the selection grid to the callback record.

Callback to contact R

A respondent had been selected, but that an appointment had been suggested by someone other than the respondent. The appointment form was filled out, and the selection grid was attached.

Appointment with R

A respondent had been selected and he or she had scheduled a time to complete the interview.

Other

Reserved for contingencies not covered by the other dispositions, for example, no one over 18 living in household.

CONTACT RECORD
TCAS/MSS 88

Callback time:

DATE - _____

TIME - _____

01 Completed	01 Completed
02 Partial	02 Partial
03 No answer/busy/machine	03 No answer/busy/machine
04 # disc/not working	04 # disc/not working
05 Not home phone	05 Not home phone
06 R not available *	06 R not available *
07 Phys/lang problem *	07 Phys/lang problem *
08 1st refusal **	08 1st refusal **
09 2nd refusal **	09 2nd refusal **
10 Callback to contact R ***	10 Callback to contact R ***
11 Appointment with R ***	11 Appointment with R ***
12 Other *	12 Other *

CIRCLE CODE _____

(CODER USE ONLY)

ID _____

Do C _____

Min _____

I-ID _____

Con _____

Sample _____

R Conv _____

C-ID _____

Form _____

CONTACTS/SHIFT _____

INTERVIEWER - _____

DATE - _____

TIME - _____

01 Completed	01 Completed
02 Partial	02 Partial
03 No answer/busy/machine	03 No answer/busy/machine
04 # disc/not working	04 # disc/not working
05 Not home phone	05 Not home phone
06 R not available *	06 R not available *
07 Phys/lang problem *	07 Phys/lang problem *
08 1st refusal **	08 1st refusal **
09 2nd refusal **	09 2nd refusal **
10 Callback to contact R ***	10 Callback to contact R ***
11 Appointment with R ***	11 Appointment with R ***
12 Other *	12 Other *

REPAIR OPERATOR
(after 4 NA's or busy):
DIAL 410-2234

Date: ____/____/____

I-ID _____

Working	01
Not working	02
Business #	03
Other (SPEC)	04

CONTACTS/SHIFT _____

INTERVIEWER - _____

- * Describe
- ** Complete refusal form
- *** Complete callback form

SUPERVISOR _____

MONITORED: N Y -> BY: _____

TIME START _____

TIME END _____

INTERVIEW IN MIN _____

EDIT TIME IN MIN _____

INTERVIEWER # _____

CALLBACK FORM

	Date ___/___	Date ___/___	Date ___/___	Date ___/___
Was respondent selected?	Yes / No	Yes / No	Yes / No	Yes / No
Speak with Resp in person?	Yes / No	Yes / No	Yes / No	Yes / No
Respondent is: Relation (if known)	F / M / DK _____	F / M / DK _____	F / M / DK _____	F / M / DK _____
Who arranged callback?	Resp / Else	Resp / Else	Resp / Else	Resp / Else
Callback Time: Date:	___ : ___ ___ / ___	___ : ___ ___ / ___	___ : ___ ___ / ___	___ : ___ ___ / ___
Was Appointment:	Firm/Prob/?	Firm/Prob/?	Firm/Prob/?	Firm/Prob/?
Was resp open/cooperative?	Yes/No/DK	Yes/No/DK	Yes/No/DK	Yes/No/DK
Comments/Information:	_____			

REFUSAL FORM

Was respondent selected? Yes / No Respondent is: Female / Male

Was respondent person who refused? Yes / No

Person answering phone was: Female / Male

Did they seem very busy or inconvenienced? Yes / No / Uncertain

At what point was the interview terminated? _____

What reasons were given for refusal? _____

What arguments were employed by interviewer? _____

Other comments or information: _____

Introduction

MINNESOTA STATE SURVEY, 1988

- A. Hello, my name is _____. I'm a student calling from the University of Minnesota.
- B. We're doing a study for state and local government about quality of life, transportation, and education.
- C. I need to talk to the person in your household who is 18 or older, and celebrated the most recent birthday.

(IF RESPONDENT ASKS, SAY, "IT'S A METHOD OF RANDOMLY SELECTING PEOPLE WITHIN THE HOUSEHOLD.")

May I please speak to that person?

(IF RIGHT PERSON IS ON THE LINE, GO TO PARAGRAPH D.)

(IF RIGHT PERSON IS NOT ON THE LINE, ASK TO SPEAK TO THAT PERSON AND WHEN THEY ARE ON THE LINE, REPEAT PARAGRAPHS A AND B, AND THEN GO ON TO PARAGRAPH D.)

(IF RIGHT PERSON IS NOT AVAILABLE) When would be the best time to speak with that person?

SPECIFIC TIME AND DATE: Time: _____ Date: _____

What is his/her first name? Name: _____

- D. Your answers will be put with a lot of other people's, so you can't be identified in any way. If there are questions you don't care to answer, we'll skip over them. Okay, we'll begin.

(INTERVIEWERS: HOUSEHOLD MEANS WHATEVER THE RESPONDENT THINKS IT MEANS.)